1.　Name of the Institution

Name of the Institution	Sarvajanik College of Engineering & Technology
Address of the Institution	Dr. R.K. Desai Marg, Opp. Mission Hospital, Athwalines,
City & Pin Code	Surat – 395001.
State / UT	Gujarat
Phone number with STD code	(0261) 2240146-47-48
FAX number with STD code	(0261) 2240145
Email	info@scet.ac.in
Website	www.scet.ac.in

2.　Name and address of the Trust/Society/Company and the Trustees

Name of the organization running the institution	Sarvajanik Education Society, Surat
Type of the organization	Trust & Society
Address of the organization	M.T.B. College Campus, Opp. Chowpatty, Athwalines, Surat –01.
Registered with	Registered under the B P Trust Act and Society Registration Act in the year 1953 and 1913 respectively
Registration date	30th October 1953
Website of the organization	www.ses-india.org
Telephone/Mobile	+91 261 2240179, +91 261 2240089
E-Mail	contact@ses-surat.org, sessurat1912@gmail.com

3.　Name and Address of the Vice Chancellor/Principal/Director

Name of Principal/Director	Dr. Vaishali Mungurwadi
Exact Designation	Principal
Phone number with STD code	(0261) 2240146-47-48
FAX number with STD code	(0261) 2240145
Mobile	96247-99902

Email	principal@scet.ac.in
Highest Degree	Ph.D.
Field of specialization	Electrical & Electronics Engineering Sciences

4. Name of the affiliating University

Name of the affiliating University	Gujarat Technological University
Address	Nr. Vishwakarma Government Engineering College, Nr. Visat Three Roads, Visat - Gandhinagar Highway, Chandkheda, Ahmedabad – 382424
Website	www.gtu.ac.in
Latest affiliation period	2019-20

5. Governance

Members of the Board and their brief background	As per ANNEXURE - 1
Members of Academic Advisory Body	Not form such committee
Frequently of the Board Meeting and Academic Advisory Body	Generally Governing Board meeting held once in the month
Organizational chart and processes	As per ANNEXURE - 2
Nature and Extent of involvement of Faculty and students in academic affairs/improvements	Three to four Faculty members of each department are representing academic monitoring committee of college, under leadership of Dean academic. Dean academic is helping all departments by designing and framing load calculation policy to derive department load. He is also instrumental to decide load distribution among department faculties. Such policy is approved by Central Steering Committee (CSC) of college consisting of All Head of departments, Deans and GTU coordinator. Changes in policy, if required, is done by principal in anticipation of approval of CSC. Head of department and faculty members of department, then after themselves distribute load as per policy framed. Finally timetables are approved by dean academic and principal. Policy inputs are received from all faculty members through department Head, and accordingly representation of HOD is accommodated for improvement in policies.

Academic calendar is proposed by Dean academic and approved by all HODs and CSC. HODs shares proposed calendar to all faculty members and Class representatives, and receives suggestions on it. Once academic calendar is approved, it is published on intranet and website for students and faculty members. Faculty members are conducting classes as per approved timetables and it is monitored by HODs. Regularly attendance of students are collected and accumulated at the end of each month for stock taking and action, if required. |

	Elected student body is constituted through election process in each class. Student Activity council is taking student representative (also lady representative) from each class. Typically two students are selected for student activity council. Further student representatives becomes part of various committees like cultural, sports, extracurricular, finance etc. Students have their representation by General secretory, lady representative, cultural secretary, sports secretory etc. They are in active contact with Dean SAWC (student affairs and welfare committee) and Dean Academic for their issues related to academics and others.
Mechanism/ Norms and Procedure for democratic/ good Governance	As per ANNEXURE – 3
Student Feedback on Institutional Governance/ Faculty performance	With the help of E-FeedBack system as per ANNEXURE – 4
Grievance Redressal mechanism for Faculty, staff and students	Online Grievance Redressal Mechanism has been established by the Institute for faculty, staff and students and the same has been put on institute website.
Establishment of Anti Ragging Committee	As per ANNEXURE – 5
Establishment of Online Grievance Redressal Mechanism	As per ANNEXURE – 6
Establishment of Grievance Redressal Committee in the Institution and Appointment of OMBUDSMAN by the University	As decided by the Gujarat Technological University, Ahmedabad
Establishment of Internal Complaint Committee (ICC)	Internal Complaint Committee is established and the committee members are as follows: Prof. Himanshu Padhya- Associate Professor Prof. Amit Halbe- Associate Professor Prof. Shabbir S. Bohra- Professor Prof. Tejal Dave- Assistant Professor Prof. Ratna Jadwani- Associate Professor Prof. Amit Mehta- Assistant Professor
Establishment of Committee for SC/ ST	Committee for SC/ ST is established and the committee members are as follows: Prof. Pankaj Gohil - Associate Professor Prof. Jayesh Chaudhary - Assistant Professor Prof. Ashish Parmar- Assistant Professor Prof. Ankita Parmar - Assistant Professor
Internal Quality Assurance Cell	Not form such committee.

6. Programmes

Name of Programmes approved by AICTE	B.E. (CHEMICAL ENGINEERING) B.E. (CIVIL ENGINEERING) B.E. (COMPUTER ENGINEERING) B.E. (ELECTRICAL ENGINEERING) B.E. (ELECTRONICS & COMMUNICATION ENGG.) B.E. (INFORMATION TECHNOLOGY) B.E. (INSTRUMENTATION AND CONTROL ENGINEERING) B.E. (TEXTILE TECHNOLOGY) B.E. (MECHANICAL ENGINEERING)

	M.E. (ELECTRICAL ENGINEERING) M.E. (ELECTRONICS & COMMUNICATION(COMMUNICATION SYSTEM ENGINEERING) M.E. (ENVIRONMENTAL ENGINEERING) M.E. (COMPUTER ENGINEERING(SOFTWARE ENGINEERING) M.E. (TOWN & COUNTRY PLANNING) M.E. (CIVIL(STRUCTURAL ENGINEERING) MCA (MASTERS IN COMPUTER APPLICATIONS)	
Name of Programmes Accredited by AICTE	Not Applicable	
Status of Accreditation of the Courses	Total number of Courses	UG – 9 PG – 7
	No. of Courses for which applied for Accreditation	Nil
	Status of Accreditation – Preliminary/ Applied for SAR and results awaited/ Applied for SAR and visits completed/ Results of the visits awaited/ Rejected/ Approved	<u>4 Accredited</u> B.E. (ELECTRICAL ENGINEERING) B.E. (ELECTRONICS & COMMUNICATION ENGG.) B.E. (INSTRUMENTATION AND CONTROL ENGINEERING) B.E. (TEXTILE TECHNOLOGY)

Details of each Programme

Chemical Engineering

Name of the Department	Chemical Engg. Dept.		
Course	Bachelors in Chemical Engineering		
Level	UG		
Number of seats	As per ANNEXURE – 10		
Duration	4 Years		
Cut off marks/rank of admission during the last three years	Acedemic year 2017-18 Cut off Rank 40913	Acedemic year 2016-17 Cut off Rank 44631	Acedemic year 2015-16 Cut off Rank 52762
Fee	As per ANNEXURE – 9		
Placement Facilities	Fulltime dedicated T&P cell is working with dedicated staff under it		
Campus placement in last three years with minimum salary, maximum salary and average salary	2017-18	2016-17	2015-16
	Min. Salary : 1,75000	Min. Salary :1,44,000	Min. Salary :1,20,000
	Max. Salary :5,50,000	Max. Salary :2,94,800	Max. Salary :5,50,000

	Avg. Salary :2,88,360	Avg. Salary :2,10,400	Avg. Salary :2,61,600

Civil Engineering

Name of the Department	FACULTY OF CIVIL ENGINEERING		
Course	B.E. CIVIL ENGINEERING		
Level	UG		
Number of seats	As per ANNEXURE – 10		
Duration	4 – Year Full Time		
Cut off marks/rank of admission during the last three years	2018-19 : 618-25629	2017-18 : 2048-27890	2016-17 : 2906-26406
Fee	As per ANNEXURE – 9		
Placement Facilities	Yes		
Campus placement in last three years with minimum salary, maximum salary and average salary	2017-18	2016-17	2015-16
	Min. Salary : 1,80,000 P.A.	Min. Salary : 2,94,800 P.A.	Min. Salary : 1,50,000 P.A.
	Max. Salary : 1,80,000 P.A.	Max. Salary : 3,50,000 P.A.	Max. Salary : 4,00,000 P.A.
	Avg. Salary : 1,80,000 P.A.	Avg. Salary : 3,22,000 P.A.	Avg. Salary : 2,75,000 P.A.

Name of the Department	FACULTY OF CIVIL ENGINEERING		
Course	M. E. TOWN AND COUNTRY PLANNING		
Level	PG		
Number of seats	As per ANNEXURE – 10		
Duration	2 – Year Full Time		
Cut off marks/rank of admission during the last three years	2018-19 : 3010067-3012294	2017-18 : 3010142-3012839	2016-17 : 3010143-3011258
Fee	As per ANNEXURE – 9		
Placement Facilities	Yes		
Campus placement in last three years with minimum salary, maximum salary and average salary	2017-18	2016-17	2015-16
	Min. Salary : N.A.	Min. Salary : 4,50,000	Min. Salary : N.A.
	Max. Salary : N.A.	Max. Salary : 4,50,000	Max. Salary : N.A.
	Avg. Salary : N.A.	Avg. Salary : 4,50,000	Avg. Salary : N.A.

Name of the Department	FACULTY OF CIVIL ENGINEERING		
Course	M. E. CIVIL (STRUCTRUAL ENGINEEING)		
Level	PG		
Number of seats	As per ANNEXURE – 10		
Duration	2 – Year Full Time		
Cut off marks/rank of admission during the last three years	2018-19 : 3011024-3012202	2017-18 : NA	2016-17 : NA
Fee	As per ANNEXURE – 9		
Placement Facilities	Yes		
Campus placement in last three years with minimum salary, maximum salary and average salary	Not Applicable		
	Min. Salary :	Min. Salary :	Min. Salary :
	Max. Salary :	Max. Salary :	Max. Salary :
	Avg. Salary :	Avg. Salary :	Avg. Salary :

Name of the Department	FACULTY OF M.E. ENVIRONMENTAL ENGINEERING		
Course	M. E. ENVIRONMENTAL ENGINEERING		
Level	PG		
Number of seats	As per ANNEXURE – 10		
Duration	2 – Year Full Time		
Cut off marks/rank of admission during the last three years	2018-19 : 3071032-3071139	2017-18 : 3071011-3071147	2016-17 : 3071023-3071150
Fee	As per ANNEXURE – 9		
Placement Facilities	Yes		
Campus placement in last three years with minimum salary, maximum salary and average salary	2017-18	2016-17	2015-16
	Min. Salary : N.A.	Min. Salary : N.A.	Min. Salary : N.A.
	Max. Salary : N.A.	Max. Salary : N.A.	Max. Salary : N.A.
	Avg. Salary : N.A.	Avg. Salary : N.A.	Avg. Salary : N.A.

Computer Engineering

Name of the Department	Computer Engineering
Course	Bachelor of Engineering
Level	UG
Number of seats	As per ANNEXURE – 10

Duration	4 Years		
Cut off marks/rank of admission during the last three years	**2016** **CO-Shift -I** Open-2979 SC - 36828 ST - 45567 SEBC - 4081 **CO-Shift -II** Open-4562 SEBC - 12242 SC - 37780 EBC - 4576	**2017** **CO-Shift -I** Open- 2832 SEBC - 7041 SC - 19043 **CO-Shift -II** Open-4133 SEBC - 7928 SC - 30898	**2018** **CO-Shift -I** Open-2859 SEBC - 7109 TFW - 553 **CO-Shift -II** Open-4049 SEBC - 10827 SC - 25943
Fee	As per ANNEXURE – 9		
Placement Facilities	Yes		
Campus placement in last three years with minimum salary, maximum salary and average salary	2015-2016	2016-2017	2017-2018
	Min. Salary : 100000	**Shift-I** Min. Salary : 96000 **Shift-II** Min. Salary : 144000	**Shift-I** Min. Salary : 60000 **Shift-II** Min. Salary : 60000
	Max. Salary : 350000	**Shift-I** Max. Salary : 370000 **Shift-II** Max. Salary : 250000	**Shift-I** Max. Salary :12,00,000 **Shift-II** Max. Salary : 21,00,000
	Avg. Salary : 239000	**Shift-I** Avg. Salary : 208000 **Shift-II** Avg. Salary : 188500	**Shift-I** Avg. Salary : 281000 **Shift-II** Avg. Salary : 338000

Name of the Department	Computer Engineering		
Course	Masters of Computer Engineering (Specialization Software Engineering)		
Level	PG		
Number of seats	As per ANNEXURE – 10		
Duration	2 Years		
Cut off marks/rank of admission during the last three years	**2016** **Computer Eng** Open - 3101089 SEBC - 3101213 ST - 3101216	**2017** **Software Eng** **GATE** Open - 3100035 SEBC - 3100040 **NON GATE** Open - 3101119 SEBC - 3101256 SC - 3101271	**2018** **Software Eng** **GATE** Open - 3100035 SEBC - 3100040 **NON GATE** Open - 3101119 SEBC - 3101256 SC - 3101271

		ST - 3101650	ST - 310165
Fee	As per ANNEXURE – 9		
Placement Facilities	Yes		
Campus placement in last three years with minimum salary, maximum salary and average salary	**NIL**	**NIL**	**NIL**
	Min. Salary : Nil	Min. Salary : Nil	Min. Salary : Nil
	Max. Salary : Nil	Max. Salary : Nil	Max. Salary : Nil
	Avg. Salary : Nil	Avg. Salary : Nil	Avg. Salary : Nil

Electrical Engineering

Name of the Department	Electrical Engineering Department		
Course	B.E.		
Level	UG_Shift-1 UG_Shift-2		
Number of seats	As per ANNEXURE – 10		
Duration	4 years		
Cut off marks/rank of admission during the last three years	2015-16 51888 (Shift-1) 52977 (Shift-2)	2016-17 45189 (Shift-1) 41883 (Shift-2)	2017-18 38867 (Shift-1) 39681 (Shift-2)
Fee	As per ANNEXURE – 9		
Placement Facilities	Yes		
Campus placement in last three years with minimum salary, maximum salary and average salary	2017-18	2016-17	2015-16
	Min. Salary :1,20,000	Min. Salary :1,36,812	Min. Salary :60000
	Max. Salary :4,36,000	Max. Salary :4,20,000	Max. Salary :8,00,000
	Avg. Salary :2,87,533	Avg. Salary :2,76,572	Avg. Salary :1,88,543

Name of the Department	Electrical Engineering Department
Course	M.E. Electrical Engineering
Level	PG
Number of seats	As per ANNEXURE – 10
Duration	2 Years

Cut off marks/rank of admission during the last three years	3031525 (2018-2019)	3031515 (2017-2018)	3031277 (2016-2017)
Fee	As per ANNEXURE – 9		
Placement Facilities	Yes		
Campus placement in last three years with minimum salary, maximum salary and average salary	Min. Salary : - Max. Salary : - Avg. Salary : -	Min. Salary : - Max. Salary : - Avg. Salary : -	Min. Salary : - Max. Salary : - Avg. Salary : -

Electronics & Communication Engineering

Name of the Department	Electronics and Communication Engineering		
Course	Electronics and Communication Engineering		
Level	UG		
Number of seats	As per ANNEXURE – 10		
Duration	04 year		
Cut off marks/rank of admission during the last three years	CAY (2018-19) merit rank :28202	CAY m1 (2017-18) merit rank :32506	CAY m2 (2016-17) merit rank :17880
Fee	As per ANNEXURE – 9		
Placement Facilities	Training and placement cell of department is looking after placement activities.		
Campus placement in last three years with minimum salary, maximum salary and average salary	2017-18 (lacs PA) Min. Salary : 1.08 Max. Salary :6.334 Avg. Salary : 3.705	2016-17(lacs PA) Min. Salary : 0.96 Max. Salary : 6.00 Avg. Salary : 3.48	2015-16(lacs PA) Min. Salary : 0.96 Max. Salary :6.06 Avg. Salary :3.56

Name of the Department	Electronics and Communication Engineering
Course	Electronics and Communication Engineering
Level	PG
Number of seats	As per ANNEXURE – 10
Duration	02 years

Cut off marks/rank of admission during the last three years	CAY (2018-19) merit rank :3041120	CAY m1 (2017-18) merit rank :3041264	CAY m2 (2016-17) merit rank :3041097
Fee	As per ANNEXURE – 9		
Placement Facilities	Training and placement cell of department is looking after placement activities.		
Campus placement in last three years with minimum salary, maximum salary and average salary	2017-18 (lacs PA)	2016-17(lacs PA)	2015-16(lacs PA)
	Min. Salary : 4.2	Min. Salary : Nil	Min. Salary : 6.6
	Max. Salary : 4.2	Max. Salary : Nil	Max. Salary : 6.6
	Avg. Salary :4.2	Avg. Salary : Nil	Avg. Salary : 6.6

Information Technology

Name of the Department	INFORMATION TECHNOLOGY		
Course	BE		
Level	UG		
Number of seats	As per ANNEXURE – 10		
Duration	4 years		
Cut off marks/rank of admission during the last three years	Year – 2018 Cut off marks- 4529	Year – 2017 Cut off marks- 4763	Year - 2016 Cut off marks- 5041
Fee	As per ANNEXURE – 9		
Placement Facilities	Yes		
Campus placement in last three years with minimum salary, maximum salary and average salary	Year - 2018	Year - 2017	Year - 2016
	Min. Salary : 60,000	Min. Salary : 1,00,000	Min. Salary :1,00,000
	Max. Salary :3,80,000	Max. Salary :3,50,000	Max. Salary :4,00,000
	Avg. Salary :2,65,000	Avg. Salary :2,22,000	Avg. Salary :3,44,000

Instrumentation and Control

Name of the Department	Instrumentation & Control Engg. Dept.		
Course	Instrumentation & Control		
Level	UG		
Number of seats	As per ANNEXURE – 10		
Duration	4 years (8 semesters)		
Cut off marks/rank of admission during the last three years	48106	46653	41426

Fee	As per ANNEXURE – 9		
Placement Facilities	We have separate Training & Placement Department		
Campus placement in last three years with minimum salary, maximum salary and average salary	2015-16 (10 students placed)	2016-17(19 students placed)	2017-18(15 students placed)
	Min. Salary : 151356	Min. Salary :136812	Min. Salary :180000
	Max. Salary :200000	Max. Salary :355000	Max. Salary :355000
	Avg. Salary :175554		

Textile Technology

Name of the Department	Textile Technology		
Course	Textile Technology		
Level	UG		
Number of seats	As per ANNEXURE – 10		
Duration	04 years		
Cut off marks/rank of admission during the last three years	21115(2015-16)	28739(2016-17)	33676(2017-18)
Fee	As per ANNEXURE – 9		
Placement Facilities	Yes		
Campus placement in last three years with minimum salary, maximum salary and average salary	2015-16	2016-17	2017-18
	Min. Salary : 240000 per annum	Min. Salary :180000 per annum	Min. Salary :100% self employed
	Max. Salary :383000 per annum	Max. Salary :216000 per annum	Max. Salary : 100% self employed
	Avg. Salary :311200 per annum	Avg. Salary :210500 per annum	Avg. Salary : 100% self employed

Mechanical Engineering

Name of the Department	Mechanical Department		
Course	Mechanical Engineering		
Level	UG		
Number of seats	As per ANNEXURE – 10		
Duration	04 Years		
Cut off marks/rank of admission during the last three years	27561 (Rank) 2018-19	Not applicable 2017-18	Not applicable 2016-17
Fee	As per ANNEXURE – 9		

Placement Facilities	Not applicable		
Campus placement in last three years with minimum salary, maximum salary and average salary	Not applicable	Not applicable	Not applicable
	Min. Salary :	Min. Salary :	Min. Salary :
	Max. Salary :	Max. Salary :	Max. Salary :
	Avg. Salary :	Avg. Salary :	Avg. Salary :

Master of Computer Application

Name of the Department	Master of Computer Application		
Course	Master of Computer Application		
Level	PG		
Number of seats	As per ANNEXURE – 10		
Duration	3 Years		
Cut off marks/rank of admission during the last three years	2018-19 Sem-1-2721071426 Sem-3-2681040662 (Lateral)	2017-18 Sem-1-4600384097 Sem-3-4610395119 (Lateral)	2016-17 Sem-1 - 158851582 Sem-3–118501886 (Lateral)
Fee	As per ANNEXURE – 9		
Placement Facilities	Yes		
Campus placement in last three years with minimum salary, maximum salary and average salary	2018-2019	2017-2018	2016-2017
	Min. Salary : 8000	Min. Salary : 4000	Min. Salary : 7000
	Max. Salary : 29000	Max. Salary : 17000	Max. Salary : 15000
	Avg. Salary : 18500	Avg. Salary : 10500	Avg. Salary :11000

Name and duration of programme(s) having Twinning and Collaboration with Foreign University(s) and being run in the same Campus along with status of their AICTE approval.

Name of the programme	Not Applicable
Duration of programme	
Name of the University	
Address	
Website	
Accreditation status of the University in its Home Country	
Ranking of the University in the Home Country	

Whether the degree offered is equivalent to an Indian Degree? If yes, the name of the agency which has approved equivalence. If no, implications for students in terms of pursuit of higher studies in India and abroad and job both within and outside the country	
Nature of Collaboration	
Conditions of Collaboration	
Complete details of payment a student has to make to get the full benefit of Collaboration	

Details of each Programme Collaborated

Name of the programme	Not Applicable
Programme Focus	
Number of seats	
Admission Procedure	
Fee	
Placement Facility	
Placement Records for last three years with minimum salary, maximum salary and average salary	

Whether the Collaboration Programme is approved by AICTE? If not whether the Domestic/Foreign University has applied to AICTE for approval

Name of the programme	Not Applicable
Whether the Collaboration Programme is approved by AICTE? If not whether the Domestic/Foreign University has applied to AICTE for approval	

7.   Faculty

Branch wise list Faculty members:

Permanent Faculty	As per ANNEXURE – 7
Adjunct Faculty	As per ANNEXURE – 8

Teaching Faculty: Student Ratio

BE/ME

Type	Students	Teachers	Ratio
Teaching Staff	2715	178	15

MCA

Type	Students	Teachers	Ratio
Teaching Staff	157	10	14

Number of Faculty employed and left during the last three years

	2016-17	2017-18	2018-19
No. of faculty employed (Regular)	151	140	139
No. of faculty employed left (Regular)	3	8	1

8. Profile of Vice Chancellor/Director/Principal/Faculty

Principal

Name of the Principal	Dr. Vaishali B. Mungurwadi
Date of Birth	22-03-1968
Unique id	1-2340763903
Education Qualifications	B.E. (Instrumentation & Control) M.E. (Electronics) Ph.D (Electrical & Electronics Engineering Sciences)

Work Experience (in years)	Teaching	Research	Industry	others
	28	0	0	0

Area of Specialization	Electrical & Electronics Engineering Sciences

Courses taught at	Diploma Level	~
	Post Diploma Level	~
	Under Graduate Level	Yes
	Post Graduate Level	yes
	Post Graduate Diploma Level	~
Research guidance	No. of papers published in National/International Journals/Conferences	08 ~ National 18 International 18 Conferences
	Master	02
	Ph.D.	02
Projects Carried out	~	
Patents	~	
Technology Transfer	~	
Research Publications	**International Conference** 1. Deepa Talewad, Anilkumar V. Nandi, Vaishail B.Mungurwadi, "Design and implementation of BiCMOS based low temperature coefficient band-gap reference using 130nm technology", 5th Nirma University International Conference on Engineering (NUiCONE) 2015, 978-1-4799-9991-0/15/$31.00 ©2015 IEEE 2. Sushmita Katti, Pooja Naragund, Vaibhavi Saradesai, Pyati Vidhyashree, Kaushik M, Anilkumar V Nandi Vaishali B Mungurwadi, "MEMS based sensor for Blood group Investigation", Proceedings of COMSOL Conference 2015. 3. Prasad. Acharya, Sujata N, Vaishali B M, "Design and simulation of MEMS based pressure sensor", *Proceedings of COMSOL 2012 conference, Bangalore*, Nov 2-3 2012. 4. Kavya G. B. , Vaishali B M and Sujata N "Design and simulation of MEMS Accelerometer" *Proceedings of International conference on Electronic design and signal processing, organized by Electronics and Communication department, Manipal Institute of technology,* Dec 20-22 2012. 5. Sujata N, Vaishali B M. "Design and simulation of MEMS based Humidity sensor" Proc. in fourth international conference on Advances in Recent Technologies in Communication and Computing , ARTCom 2012 organized by The Association of Computer Electronics and Electrical Engineers (ACEEE) Bangalore, Oct 19-20 2012. 6. Vaishali B. M., Uday Wali, "Closed-form Analytical Model of Cross-Beam Resonator and its verification.", *Proceedings of International Conference on Advances in*

	Computer Science & Electronics Engineering, organized by Universal Association of Computer and Electronics engineers, New Delhi Feb 2-3 2012
	7. Vaishali B. M., Uday Wali, "Analytical Model for Compensating the curling Effect in MEMS Cantilever beam", *Proceedings of International Conference on Issues and Challenges in Networking, Intelligence and Computing Technologies ICNICT 2011", organized by KIET, Ghaziabad*, September 2-3, 2011
	8. Vaishali B. M., Uday Wali, "Closed Form Expression for Analysis of Clamped-Clamped beam RF MEMS Resonator", *Proceedings of International Symposium on Instrumentation, VTU Belgaum*, Jan 7-9 2011
	9. Vaishali.B.M and Uday.V.Wali, "Resonant Frequency of Cross-beam resonator", *Proceedings of International Conference on MEMS-ICMEMS2009, IIT Chennai*, Jan 02-05, 2009.
	10. Vaishali.B.M and Uday.V.Wali, "Analytical Modeling and Simulation of Fixed-Fixed beam RF MEMS Resonator" *Proceedings of 12th IEEE VLSI Design and Test Symposium (VDAT – 2008), Wipro Campus, Bangalore,* July 23-26, 2008.
	11. Vaishali.B.M, Uday.V.Wali, "Lumped Parameter Modeling and Simulation of High-Q HF Micro-resonator" *Proceedings of International Conference on Resource Utilization and Information System, Erode, Tamilnadu,* Jan 3-5 2008.
	12. Vaishali.B.M, Uday V.Wali, "Modeling and Simulation of RF MEMS Resonator in a Hierarchical Approach", *Proceedings of International Symposium on Communications and Information Technology ISCIT-06, King Mongkuts Institute of Technology Bangkok, Thailand October 18-21 2006,* also published in IEEE-Xplorer (On-line IEEE Journal).
	13. Vaishali.B.M, Anil Nandi, Uday V. Wali "RF MEMS Filter – Instrumentation on Chip" *Proceedings of International Conference on Instrumentation (INCON-2004), PIET, Pune* September *2004*, pp 28-35.
	14. Vaishali.B.M and Anindya Dhar, "VLSI Implementation of Viterbi Decoder" *Proceedings of 8th VLSI Design and Test Workshops (VDAT) – 2004, Infosys Campus, Mysore,* August 26-28, 2004.
	15. Vaishali.B.M, Chaya Joshi and Anindya Dhar, "FPGA Realization of Trellis coded Modulation Encoder-Decoder" *Proceedings of International Multiconference in Computer Science & Engineering, Las Vegas, Nevada USA., June 2002.*
	National Conference
	1. Kavya G B, Vaishali B M , Sujata N " *Survey on MEMS PZT energy harvester*" *Proceedings of NCCTIA jointly organized by Department of Instrumentation, BVBCET Hubli and ISA Bangalore,* Oct 8-10 2012.

	2. Vaishali.B.M, Uday.V.Wali, "Static and dynamic Analysis of Tunable RF MEMS Resonator using Analytical Model" *Proceedings of MEMS Innovation FEST 2007- Conference and Course, CPRI, C.V. Raman Avenue, Bangalore, Dec 9-10 2007.*
	3. Vaishali.B.M, Uday V.Wali "Design and Simulation of RF MEMS Resonator" *Proceedings of National Symposium on Instrumentation, NSI-31, Institute of Technology and Management, Gwalior, MP, October 12-15 2006.*
	4. Vaishali.B.M, Uday V.Wali "RF MEMS for Wireless Communication" *Proceedings of National conference on Signal processing and Communication NCSPC-2006, JNNC Shimoga, July 7-8 2006.*
	5. Sheela S, Vaishali. B.M., "Cost effective Registry System using RFID Technology" *Proceedings of National Conference on Intelligent Systems and Networks ISN2004 Hariyana, February 27- 28, 2004.*
	6. Vaishali B.M., Deepak Giriraddi, B.L.Desai "PC based dual beam Colorimeter," *Proceedings of National Symposium on Instrumentation,* jointly organized by Instrumentation Society of India, IISc Bangalore and National Physical Laboratories, New Delhi, 1999, also published in *Journal of Instrumentation Society of India-1997, 28(3)*
	International Journal
	1. Shobha I Hugar, Vaishali Mungurwadi, J S Baligar, "Review on Performance Analysis of UWB Bandpass Microstrip Filters", International Journal for Innovative Research in Science & Technology| Volume 4 | Issue 2 | July 2017 ISSN (online): 2349-6010
	2. Shobha I Hugar, Dr. Vaishali Mungurwadi and Dr J S Baligar "Dual Mode Wide Band Microstrip Bandpass Filter With Tunable Bandwidth And Controlled Center Frequency For C Band Applications. 5th International Conference on Emerging Research in Computing, Information, Communication and Application 2018, Published in Springer ASIC series.
	3. Kaushik Mallibhat, Dr.Anilkumar V Nandi, Dr.Vaishali B Mungurwadi, "Portable Sensors for Water Pathogens Detection" Elsevier Journal, Materials Today: Proceedings, Volume 5, Issue 4P3 (2018), ISSN: 2214-7853, Pages 10821-10826. SJR: 0.314
	4. Akshay kumar Nandi, R.B.Shettar, Vaishali B.M, Vinay Patil, "Automation of DC Motor Control using PWM Technique for thin film deposition", Multidisciplinary Journal of Research in Engineering and Technology, Special Issue,2015, ISSN:2348-6953, Pg.80-89, Impact Factor:0.392
	5. Vaishali B. M., Uday Wali," Modelling and Simulation of Shift in Resonant Frequency of Cross-Beam Resonator", *International Journal of Engineering Research and Industrial Automations (IJERIA),* ISSN 0974-1518, Vol. 2, N0.IV(2009), pp 143-151. Impact Factor: 0.509

	6. Vaishali B. M., Uday Wali, "Closed-form Analytical Model of Cross-Beam Resonator and its verification." *UACEE International Journal of Advances in Electronics Engineering* Volume 2: Issue 1 ISSN 2278 ~ 215X (Online). **National Journal** 1. Vaishali. B. M., Giriraddi, B.L.Desai, "PC-Based Photoelectric Colorimeter" National *Journal of Instrumentation Society of India~1997, 28(3).* **News Letter** 1. Vaishali B.M., Anil V. Nandi, Shivanand B,, Shivaprasad G.C., et.al., "Wireless Ambulatory Blood Pressure Monitoring System," A Bi-monthly News letter from Texas Instruments UniTI, Vol.2, Issue 3, July 2009, pp.7~8.	
No. of Books published with details	No. of Books published	1
	Details of Books	Contributed for **International edition of the book, "Foundations of MEMS"**, by Chang~Liu, Pearson Education. As a Principal Investigator established MEMS Design Center in the Institute under National Programs for Micro And Smart Systems (NPMASS) worth Rs. 30.0 Lakhs.

Applied Science and Humanities

Name of the Teaching Staff	MAYANK M DALAL		
Date of Birth	18/4/1970		
Unique id	1~452743291		
Education Qualifications	M.Sc., Ph.D		
Work Experience (in years)	Teaching	Research	Industry	others
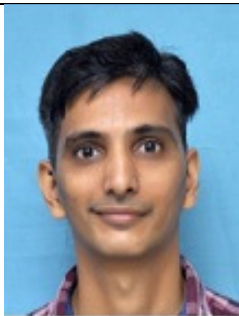
	22	15	0.6	~

Area of Specialization	SYNTHETIC ORGANIC CHEMISTRY, PHARMACEUTICAL CHEMISTRY	
Courses taught at	Diploma Level	NIL
	Post Diploma Level	NIL
	Under Graduate Level	ENVIRONMENT SCIENCE-3110007, 2110007 CHEMISTRY – 3110001, 2110001 ORGANIC CHEMISTRY & UNIT PROCESS – 2130501 PHYSICAL & INORGANIC CHEMISTRY - 2140501
	Post Graduate Level	NIL
	Post Graduate Diploma Level	NIL
Research guidance	No. of papers published in National/International Journals/Conferences	INTERNATIONAL: 01 NATIONAL: NIL CONFERENCE: NIL
	Master	NIL
	Ph.D.	NIL
Projects Carried out	NIL	
Patents	NIL	
Technology Transfer	NIL	
Research Publications	Forced degradation studies and development and validation of Stability-Indicating RP-HPLC chromatographic method for Tetrazepam assay and related substances. Nilesh Prajapati, Dr. Hasumati Raj, Dr. Mayank M Dalal European Journal of Pharmaceutical and Medical Research, EJPMR, 2017, 4(3), 498-502. SJIF Impact Factor 4.161	
No. of Books published with details	No. of Books published	01
	Details of Books	Published one book on, "Environmental Science" First Edition 2019 Publisher: S-Chand & Co Ltd. New Delhi, ISBN: 978-93-5283-589-8.

Name of the Teaching Staff	Dr. Hitesh S. Desai
Date of Birth	25-06-1971

Unique id	1-452743295		
Education Qualifications	M.Sc, Ph.D.		
Work Experience (in years)	Teaching	Research	Industry	others
	22	22	0	0
Area of Specialization	Physical chemistry		
Courses taught at	Diploma Level	NIL	
	Post Diploma Level	NIL	
	Under Graduate Level	ENVIRONMENTAL SCIENCE-3110007, 2110007 CHEMISTRY – 3110001, 2110001 ORGANIC CHEMISTRY & UNIT PROCESS – 2130501 PHYSICAL & INORGANIC CHEMISTRY – 2140501	
	Post Graduate Level		
	Post Graduate Diploma Level		
Research guidance	No. of papers published in National/International Journals/Conferences	National-1 International-1	
	Master	NIL	
	Ph.D.	NIL	
Projects Carried out	NIL		
Patents	NIL		
Technology Transfer	NIL		
Research Publications	• The Treatment of Sewage water using eletrolysis-ISSN-0973-6921-year-2018 • Ground water quality of Bulsar district-Year-2018		
No. of Books published with details	No. of Books published	01	
	Details of Books	• Physical Chemistry	

Name of the Teaching Staff	Dr. Ashish M. Desai		
Date of Birth	29/04/1976		
Unique id	1-452792113		

Education Qualifications	M.Sc., M.Phil.,Ph.D.		
Work Experience (in years)	Teaching	Research	Industry	others
	18	05	0.1	~
Area of Specialization	Analytical Chemistry, Environmental Chemistry		
Courses taught at	Diploma Level	~	
	Post Diploma Level	~	
	Under Graduate Level	ENVIRONMENTAL SCIENCE-3110007, 2110007 CHEMISTRY – 3110001, 2110001 ORGANIC CHEMISTRY & UNIT PROCESS – 2130501 PHYSICAL & INORGANIC CHEMISTRY – 2140501 ENVIRONMENTAL INSTRUMENTATION ~ 2161711	
	Post Graduate Level	~	
	Post Graduate Diploma Level	~	
Research guidance	No. of papers published in National/International Journals/Conferences	NIL	
	Master	NIL	
	Ph.D.	NIL	
Projects Carried out	NIL		
Patents	NIL		
Technology Transfer	NIL		
Research Publications	NIL		
No. of Books published with details	No. of Books published	NIL	
	Details of Books	NIL	

Name of the Teaching Staff	Prof Niket Shastri
Date of Birth	14/05/1976
Unique id	1-452792117
Education Qualifications	Msc ,(Phd thesis submitted)

Work Experience (in years)	Teaching	Research	Industry	others
	19 Years 6 months	07	Nil	Nil

Area of Specialization	Applied Physics, GPS Meteorology , Atmospheric water vapour	

Courses taught at	Diploma Level	Nil
	Post Diploma Level	Nil
	Under Graduate Level	Physics - 2110011 , Physics(3110018)
	Post Graduate Level	Nil
	Post Graduate Diploma Level	Nil

Research guidance	No. of papers published in National/International Journals/Conferences	Conference Proceedings -01
	Master	Nil
	Ph.D.	Nil

Projects Carried out	Nil

Patents	Nil

Technology Transfer	Nil

Research Publications	Estimation Of Perceptible Water Vapor Of Atmosphere Using Artificial Neural Network , Support Vector Machine And Multiple Linear Regression Algorithm And Their Comparative Study at "2nd International Conference on Condensed matter and Applied Physics", Paper published American Institute of Physics Proceedings

No. of Books published with details	No. of Books published	Nil
	Details of Books	Nil

Name of the Teaching Staff	Dr. PRATHMESH R. VYAS			
Date of Birth	21/08/1968			
Unique id	1-1507022874			
Education Qualifications	M.Sc., Ph.D			
Work Experience (in years)	Teaching	Research	Industry	others
	25	-	-	-

Area of Specialization	APPLIED PHYSICS, CONDENSED MATTER PHYSICS, THERMOLUMINESCENCE, RADIATION DOSIMETRY, LIQUID CRYSTAL, PHYSICS EDUCATION	
Courses taught at	Diploma Level	NIL
	Post Diploma Level	NIL
	Under Graduate Level	PHYSICS- 3110011, 3110018
	Post Graduate Level	NIL
	Post Graduate Diploma Level	NIL
Research guidance	No. of papers published in National/International Journals/Conferences	INTERNATIONAL: NIL NATIONAL: NIL CONFERENCE: NIL
	Master	NIL
	Ph.D.	NIL
Projects Carried out	NIL	
Patents	NIL	
Technology Transfer	NIL	
Research Publications	NIL	
No. of Books published with details	No. of Books published	01
	Details of Books	Published one book on, "Physics" First Edition 2019 Publisher: S-Chand & Co Ltd. New Delhi, ISBN: 978-93-5283-633-8

Name of the Teaching Staff	Prof. Zankruti H Joshi			
Date of Birth	01/04/1995			
Unique id	1-4500106039			
Education Qualifications	M.Sc., Ph.d (Pursuing)			
Work Experience (in years)	Teaching	Research	Industry	others
	0.6	~	~	~
Area of Specialization	PHYSICS EDUCATION			
Courses taught at	Diploma Level	NIL		
	Post Diploma Level	NIL		
	Under Graduate Level	PHYSICS- 3110011, 3110018		

	Post Graduate Level	NIL
	Post Graduate Diploma Level	NIL
Research guidance	No. of papers published in National/International Journals/Conferences	INTERNATIONAL: NIL NATIONAL: NIL CONFERENCE: NIL
	Master	NIL
	Ph.D.	NIL
Projects Carried out	NIL	
Patents	NIL	
Technology Transfer	NIL	
Research Publications	NIL	
No. of Books published with details	No. of Books published	NIl
	Details of Books	~

Name of the Teaching Staff	RAJESH M DARJI	
Date of Birth	25/9/1971	
Unique id	1-453118435	
Education Qualifications	M.Sc., Ph. D.	

Work Experience (in years)	Teaching	Research	Industry	others
	22	6	~	~

Area of Specialization	SYNTHETIC ORGANIC CHEMISTRY, PHARMACEUTICAL CHEMISTRY	
Courses taught at	Diploma Level	NIL
	Post Diploma Level	NIL
	Under Graduate Level	ADVANCED ENGINEERING MATHEMATICS, 2130002 LINEAR ALGEBRA AND VECTOR CALCULUS, 2110015
	Post Graduate Level	NIL
	Post Graduate Diploma Level	NIL
Research guidance	No. of papers published in National/International Journals/Conferences	INTERNATIONAL: NATIONAL: CONFERENCE: NIL

	Master	NIL
	Ph.D.	NIL
Projects Carried out	NIL	
Patents	NIL	
Technology Transfer	NIL	
Research Publications		
No. of Books published with details	No. of Books published	
	Details of Books	

Name of the Teaching Staff	Dr. SHAMA M. MULLA			
Date of Birth	26/10/1973			
Unique id	1-453118431			
Education Qualifications	B.Sc., M.Sc., Ph.D. (Mathematics)			
Work Experience (in years)	Teaching	Research	Industry	others
	21 Years & 7 Months	5 Years	~	~
Area of Specialization	Fluid dynamics			
Courses taught at	Diploma Level	Nil		
	Post Diploma Level	Nil		
	Under Graduate Level	Advanced Engineering Mathematics (2130002) Numerical Techniques & Statistical Methods (2141703) Mathematics-I (3110014)		
	Post Graduate Level	BM: Basic Mathematics (4639301) BS: BASIC STATISTICS (3640001)		
	Post Graduate Diploma Level	Nil		
Research guidance	No. of papers published in National/International Journals/Conferences	Nil		
	Master	Nil		
	Ph.D.	Nil		
Projects Carried out	Nil			

Patents	Nil
Technology Transfer	Nil
Research Publications	Nil

No. of Books published with details	No. of Books published	Nil
	Details of Books	Nil

Name of the Teaching Staff	Dr. JIGISHA U. PANDYA
Date of Birth	26/03/1976
Unique id	1-453119093
Education Qualifications	B.Sc., M.Sc., Ph.D. (MATHEMATICS)

Work Experience (in years)	Teaching	Research	Industry	others
	17 Years & 5 Months	12 Years & 10 Months	Nil	Nil

Area of Specialization	Numerical Analysis, Differential Equations, Computational Methods

Courses taught at	Diploma Level	Nil
	Post Diploma Level	Nil
	Under Graduate Level	Calculus (2110014) Vector Calculus & Linear Algebra (2110015) Advanced Engineering Mathematics (2130002) Numerical and Statistical Methods for Computer Engineering(2140706) Numerical and Statistical Methods for Civil Engineering (2140606)
	Post Graduate Level	Numerical Methods & Statistical Techniques (2711304)
	Post Graduate Diploma Level	Nil

Research guidance	No. of papers published in National/International Journals/Conferences	INTERNATIONAL: 08 NATIONAL: NIL CONFERENCE: NIL
	Master	Nil
	Ph.D.	02 (Cont.)

Projects Carried out	Nil

Patents	Nil
Technology Transfer	Nil
Research Publications	'Spline Collocation Method for solving Burgers equation in Fluid Dynamic', Nilesh A. Patel & Jigisha U. Pandya, International Journal of Emerging Technology & Advanced Engineering (ISO 9001:2008 Certified Journal), UGC approved Journal no. 44256, ISSN 2250-2459, ISRA : 4.027, September-2017. 'Effect of Magnetic Parameter on Newtonian Fluids when Speed of the Plate is Less than the Fluid using Collocation Method', Vishal V. Patel & Jigisha U. Pandya, International Journal of Emerging Technology & Advanced Engineering (ISO 9001:2008 Certified Journal), UGC approved Journal no. 44256, ISSN 2250-2459, ISRA : 4.027, September-2017. 'A Numerical Solution of Two-dimensional coupled Burgers' equation using Spline Explicit & Implicit Scheme' , Mr. Nileshkumar A.Patel, Dr.Jigisha U. Pandya, American International Journal of Research in Science, Technology, Engineering & Mathematics, UGC Approved Journal No.: 44803 Issue 22, Volume 1, pp. 122-134, ISSN (Print): 2328-3491, ISSN (Online): 2328-3580, ISSN (CD-ROM): 2328-3629, Impact Factor: 5.01, March - May 2018. 'Spline Solutions to Dengue Disease Transmission Model', Shah Keyuri J. , Pandya Jigisha U., VNSGU Journal Of Science and Technology, , Vol. 6. , No. 1, July-2018, 28-35, ISSN: 0975-5446, July-2018. 'The Approximate Solution of the Powell Eyring Fluid Flow Problem using Spline Collocation Technique', Shah P. M., Pandya J. U., Doctor H. D., VNSGU Journal Of Science and Technology, , Vol. 6. , No. 1, p.p. 36-43, ISSN: 0975-5446, July-2018. 'Application of Iterative Method for Solving Thin Film Flow Problem Arising in Non Newtonian Fluid Mechanics', Shah H. M. , Pandya J. U., Shah P. M., VNSGU Journal Of Science and Technology, , Vol. 6. , No. 1, July-2018, 44-50, ISSN: 0975-5446, July-2018. 'Heat Transfer and MHD Fluid Flow Problem Using Spline Collocation Method ' , Vishal V. Patel , Jigisha U. Pandya, International Journal of Research in Engineering, IT and Social Sciences, Volume 08 Issue 09, , Page 209-216, (UGC Approved Journal No.: 42301), ISSN 2250-0588, Impact Factor: 6.565, September-2018. 'Spline Approximation of Velocity Profile For Fluid Flow in Two Dimensions' , Jigisha U. Pandya, Harish D. Doctor, Journal of Emerging Technologies and Innovative Research (JETIR), (UGC Approved Journal No.: 63975), ISSN-2349-5162, Impact Factor: 5.87, November-2018.

No. of Books published with details	No. of Books published	Nil
	Details of Books	~

Name of the Teaching Staff	DR. MANISHA P PATEL

Date of Birth	29/03/1980

Unique id	1-453220461

Education Qualifications	M.Sc. (Mathematics), Ph.D. (Mathematics)

Work Experience (in years)	Teaching	Research	Industry	others
	15 Yrs. 3 Months	11 Yrs.	~	~

Area of Specialization	Applied Mathematics, Fluid Mechanics, Similarity Analysis, Non-Newtonian fluid.

Courses taught at	Diploma Level	~
	Post Diploma Level	~
	Under Graduate Level	Calculus, Vector Calculus & Linear Algebra, Advanced Engineering Mathematics, Numerical & Statistical Methods for Computer Engineering(NSMCE) ,Mathematics 01, Mathematics 02
	Post Graduate Level	Linear Algebra (2710710)
	Post Graduate Diploma Level	~

Research guidance	No. of papers published in National/International Journals/Conferences	2
	Master	~
	Ph.D.	guiding 1 student- synopsis submitted

Projects Carried out	~

Patents	~

Technology Transfer	~

Research Publications	• Finite Difference Method on third order non-linear Differential Equation: Magneto hydro dynamic flow of Sisko fluid, Jayshri Patel, Hemangini Shukla, Hema C. Surati, Manisha Patel and M.G. Timol, Indian Journal of Industrial and Applied Mathematics, NAAS Rating 2017 - 3.98. , IF-

	6.486,Vol. 8, No. 2, July–December 2017, pp. 191–200,ISSN-0973-4317 • Numerical Solution of 3rd Order ODE using FDM: on a Moving Surface in MHD Flow of Sisko Fluid, Applications and Applied mathematics, an international journal (Accepted for publication in vol-2,Dec.2018)	
No. of Books published with details	No. of Books published	~
	Details of Books	~

Name of the Teaching Staff	Dr. Hema C. Surati
Date of Birth	17/08/1974
Unique id	1-453119097
Education Qualifications	M.Sc. , M. Phil. , Ph.D. (Mathematics)

Work Experience (in years)	Teaching	Research	Industry	others
	16	12		

Area of Specialization	Application of Group techniques in Fluid dynamics.

	Diploma Level	NIL
	Post Diploma Level	NIL
	Under Graduate Level	Advance Engineering Mathematics, Numerical & statistical Methods
	Post Graduate Level	Linear Algebra
	Post Graduate Diploma Level	NIL

Research guidance	No. of papers published in National/International Journals/Conferences	National :NIL International :2 Conference: NIL
	Master	NIL
	Ph.D.	NIL

Projects Carried out	NIL
Patents	NIL
Technology Transfer	NIL
Research Publications	• Finite Difference Method on third order non-linear Differential Equation: Magneto hydro dynamic flow of Sisko

	fluid, Indian Journal of Industrial and Applied Mathematics, NAAS Rating 2017 - 3.98 • Similarity analysis of three dimensional Nano fluid flow by deductive group theoretic method, Applications and applied mathematics, an international journal (AAM) Vol.13, Issue-2 December 2018 , pp1260-1272,ISSN:1932-9466		
No. of Books published with details	No. of Books published	NIL	
	Details of Books		

Name of the Teaching Staff	Shruti S. Sheth			
Date of Birth	11/04/1985			
Unique id	1-454411541			
Education Qualifications	B.Sc., M.Sc., M.Phil. (Mathematics)			
Work Experience (in years)	Teaching	Research	Industry	others
	10 Years & 6 Months	-	-	-
Area of Specialization	Similarity Analysis, Fluid Mechanics.			
Courses taught at	Diploma Level	Nil		
	Post Diploma Level	Nil		
	Under Graduate Level	Calculus (2110014) Advanced Engineering Mathematics (2130002) Numerical & Statistical Methods for Computer Engineering (2140706) Numerical Techniques & Statistical Methods (2141703)		
	Post Graduate Level	Nil		
	Post Graduate Diploma Level	Nil		
Research guidance	No. of papers published in National/International Journals/Conferences	Nil		
	Master	Nil		
	Ph.D.	Nil		
Projects Carried out	Nil			
Patents	Nil			

Technology Transfer	Nil	
Research Publications	Nil	
No. of Books published with details	No. of Books published	Nil
	Details of Books	Nil

Name of the Teaching Staff	Dhara D. Patel			
Date of Birth	10-12-1988			
Unique id	1-4497922456			
Education Qualifications	B.Sc., M.Sc.(Mathematics)			
Work Experience (in years)	Teaching	Research	Industry	others
	6 Years & 6 Months			
Area of Specialization	Fluid Dynamics			
Courses taught at	Diploma Level	Nil		
	Post Diploma Level	Nil		
	Under Graduate Level	Mathematics (3110014)		
	Post Graduate Level	Nil		
	Post Graduate Diploma Level	Nil		
Research guidance	No. of papers published in National/International Journals/Conferences	Nil		
	Master	Nil		
	Ph.D.	Nil		
Projects Carried out	Nil			
Patents	Nil			
Technology Transfer	Nil			
Research Publications	Nil			
No. of Books published with details	No. of Books published	Nil		
	Details of Books	Nil		

Name of the Teaching Staff	VORA SHAIFALEE H

Date of Birth	30/12/1992

Unique id	1-4497970924

Education Qualifications	MSC

Work Experience (in years)	Teaching	Research	Industry	others
	1.6	~	~	~

Area of Specialization	~

Courses taught at	Diploma Level	NIL
	Post Diploma Level	NIL
	Under Graduate Level	MATHEMATICS-1 -3110014 CALCULUS- 2110014 VECTOR CALCULUS & LINEAR ALGEBRA-2110015 ADVANCED ENGINEERING MATHEMATICS-130002
	Post Graduate Level	NIL
	Post Graduate Diploma Level	NIL

Research guidance	No. of papers published in National/International Journals/Conferences	NIL
	Master	NIL
	Ph.D.	NIL

Projects Carried out	NIL

Patents	NIL

Technology Transfer	NIL

Research Publications	NIL

No. of Books published with details	No. of Books published	NIL
	Details of Books	NIL

Name of the Teaching Staff	Surbhi A. Jain			
Date of Birth	05/08/1996			
Unique id	1-4499925614			
Education Qualifications	M.Sc			
Work Experience (in years)	Teaching	Research	Industry	others
	6 Months			
Area of Specialization	Nil			
Courses taught at	Diploma Level	Nil		
	Post Diploma Level	Nil		
	Under Graduate Level	Mathematics-I (3110014)		
	Post Graduate Level	Nil		
	Post Graduate Diploma Level	Nil		
Research guidance	No. of papers published in National/International Journals/Conferences	Nil		
	Master	Nil		
	Ph.D.	Nil		
Projects Carried out	Nil			
Patents	Nil			
Technology Transfer	Nil			
Research Publications	Nil			
No. of Books published with details	No. of Books published	Nil		
	Details of Books	Nil		

Name of the Teaching Staff	Dr.Mahesh H.Trivedi			
Date of Birth	21-05-1980			
Unique id	1-456137403			
Education Qualifications	MBA, Ph.D			
Work Experience (in years)	Teaching	Research	Industry	others
	12	5	1	
Area of Specialization	Marketing& Finance			

Courses taught at	Diploma Level	NIL
	Post Diploma Level	NIL
	Under Graduate Level	(140002)Mangement-1 (150001)Management-2 (2130004/2140003)Engineering Economics & Management
	Post Graduate Level	(710001N) Research Methodology (1720001) Principals of Management (730004)Entrepreneurship Development
	Post Graduate Diploma Level	
Research guidance	No. of papers published in National/International Journals/Conferences	International-5
	Master	NIL
	Ph.D.	NIL

Projects Carried out	NIL
Patents	NIL
Technology Transfer	NIL
Research Publications	• Problem face by customers while using e-banking in India pg no 41-43- ISSN:2277-8179. • Customer satisfaction: "a comparative study between selected retail store in Gujarat" pg no. 128-132- ISSN:2277-9310. • Supply chain management risk: a prospective research Pg no.54- ISBN 978-93-81361-54-2. • Two integral part of growing organization KM and TQM p.g.no.412- ISBN: 978-81-921178-0-5. • E-Business: A Technology Strategy for Developing Countries India- ISBN: 978-93-8483-305-3.

No. of Books published with details	No. of Books published	3
	Details of Books	• Financial accounting- ISBN - 978-93-811009-77-9 • Marketing Management. • Engineering Economics & Management

Name of the Teaching Staff	DENISH JARIWALA			
Date of Birth	10/10/1993			
Unique id	1-3553891271			
Education Qualifications	M.A. (English)			
Work Experience (in years)	Teaching	Research	Industry	others
	2.5	~	4	
Area of Specialization	ENGLISH LANGUAGE AND LITERATURE			

Courses taught at	Diploma Level	NIL
	Post Diploma Level	NIL
	Under Graduate Level	1. ENGLISH – 3110002 2. COMMUNICATION SKILLS – 2110002 3. CONTRIBUTOR'S PERSONALITY DEVELOPMENT - 2990001
	Post Graduate Level	1. COMMUNICATION SKILLS – 3610005 2. CONTRIBUTOR'S PERSONALITY DEVELOPMENT - 1990001
	Post Graduate Diploma Level	NIL

Research guidance	No. of papers published in National/International Journals/Conferences	NIL
	Master	NIL
	Ph.D.	NIL

Projects Carried out	Worked as an assistant translator in the national level project of translating 2500 Vachanas of Lingayat saints. The national project was led by celebrated Kannada writer, scholar, rationalist late Dr. M.M. Kalburgi and the Gujarati translation project was headed by distinguished Gujarati critic-author Dr.(Prof.)Sharifa Vijaliwala.
Patents	NIL
Technology Transfer	NIL
Research Publications	NIL
	No. of Books published	1

No. of Books published with details	Details of Books	The National Project, wherein I worked as an assistant translator, was compiled in a voluminous book entitled "Vachan". The book was launched by our honourable Prime Minister Mr. Narendra Modi at Delhi. "Vachan", Basava Samithi, Government of Karnataka, First Edition 2016, Pgs. 920, ISBN~ 978~93~81457~19~1
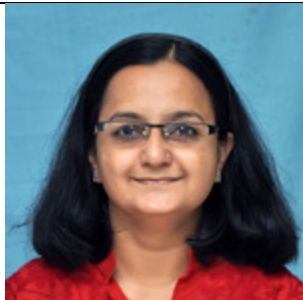
Name of the Teaching Staff	DHRUTI K BHAVNAGARWALA			
Date of Birth	20/10/1993			
Unique id	1~3553891235			
Education Qualifications	M.A, B.Ed(ENGLISH)			
Work Experience (in years)	Teaching	Research	Industry	others
	1.5	~	~	
Area of Specialization	ENGLISH LITERATURE, SOFT SKILLS, LITERARY CRITICISM, PARTITION LITERATURE, AND LINGUISTICS			

Courses taught at	Diploma Level	NIL
	Post Diploma Level	NIL
	Under Graduate Level	COMMUNICATION SKILLS~2110002 ENGLISH~3110002 CONTRIBUTOR PERSONALITY DEVELOPMENT~2990001
	Post Graduate Level	COMMUNICATION SKILLS~3610005 CONTRIBUTOR PERSONALITY DEVELOPMENT~1990001
	Post Graduate Diploma Level	NIL

Research guidance	No. of papers published in National/International Journals/Conferences	NIL
	Master	NIL
	Ph.D.	NIL

Projects Carried out	NIl
Patents	NIL
Technology Transfer	NIL

Research Publications	NIL	
No. of Books published with details	No. of Books published	NIL
	Details of Books	NIL

Name of the Teaching Staff	Kruti J. Desai
Date of Birth	09 November,1987
Unique id	1~4500582864
Education Qualifications	M.A(English)

Work Experience (in years)	Teaching	Research	Industry	others
	5 years	~	~	3.5 years

Area of Specialization (Interest)	English Literature ,Literature of Partition (Diaspora), Criticism, Afro~American Literature

Courses taught at	Diploma Level	NIL
	Post Diploma Level	NIL
	Under Graduate Level	English(3110002)
	Post Graduate Level	Communication Skills(3610005) CPD~ Contributors' Personality Development (1990001)
	Post Graduate Diploma Level	NIL

Research guidance	No. of papers published in National/International Journals/Conferences	NIL
	Master	NIL
	Ph.D.	NIL

Projects Carried out	NIL
Patents	NIL
Technology Transfer	NIL
Research Publications	NIL

No. of Books published with details	No. of Books published	NIL
	Details of Books	NIL

Name of the Teaching Staff	Dilip L Patel
Date of Birth	12/07/1974
Unique id	~
Education Qualifications	M P Ed

Work Experience (in years)	Teaching	Research	Industry	others
	20			

Area of Specialization	Sports

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Physical Education
	Post Graduate Level	Physical Education
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	
	Master	
	Ph.D.	

Projects Carried out	
Patents	
Technology Transfer	
Research Publications	

No. of Books published with details	No. of Books published	
	Details of Books	

Chemical Engineering

Name of the Teaching Staff	Prof. (Dr.) Swati Sharma	
Date of Birth	03.06.1969	
Unique id	1-441505331	
Education Qualifications	BE, M Tech, Ph. D.	

Work Experience (in years)	Teaching	Research	Industry	others
	21	10	01	~

Area of Specialization	CHEMICAL ENGINEERING

Courses taught at	Diploma Level	NA
	Post Diploma Level	NA
	Under Graduate Level	06 (Chemical Process Industry-I & II, Pollution control safety management, plant design and project engineering, petroleum refining and petrochemicals)
	Post Graduate Level	NA
	Post Graduate Diploma Level	NA

Research guidance	No. of papers published in National/International Journals/Conferences	National Journals: 00 National conferences:10 International Journals:09 International conferences: 04
	Master	02
	Ph.D.	06

Projects Carried out	NA
Patents	NA
Technology Transfer	NA
Research Publications	International Conference:04

- **Swati Sharma,** "Fate of nanomaterials in the environment-A Review", poster presented at the International Conference on "Nanotechnology Applications: Chemical, Energy and Environment (NACEE-2017), March 22-23, 2917" **Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat, INDIA.**

No. of Books published with details	No. of Books published	NA

Name of the Teaching Staff	Vaishali Rakesh Umrigar
Date of Birth	23.08.1981
Unique id	1-441622797
Education Qualifications	B.E (Chemical Engineering), M.Tech (Chemical Engineering), Ph.D (Chemical Engineering, Thesis submitted)

Work Experience (in years)	Teaching	Research	Industry	others
	12	0	0	0

Area of Specialization	Chemical Engineering

Courses taught at	Diploma Level	Not Applicable
	Post Diploma Level	Not Applicable
	Under Graduate Level	06 (Mass Transfer Operation, Chemical Reaction Engineering, Transport Phenomena, Process modelling simulation and optimization, Plant design and Project engineering)
	Post Graduate Level	Not applicable
	Post Graduate Diploma Level	Not Applicable

Research guidance	No. of papers published in National/International Journals/Conferences	21 = 13 (6 International Journal+7 International Conferences) 8 (1 National Journal +7 National conference)
	Master	Not applicable
	Ph.D.	Not applicable

Projects Carried out	NIL
Patents	NIL
Technology Transfer	NIL

Name of the Teaching Staff	Prof. Rashmita Patel

Date of Birth	30-06-1982

Unique id	1-441935285

Education Qualifications	B.E. Chemical, M.Tech-Chemical

Work Experience (in years)	Teaching	Research	Industry	others
	11 Years			

Area of Specialization	Heat Transfer, Safety and Environment, Thermodynamics, Reaction Engineering, Separation techniques

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Process Heat Transfer, Chemical Engineering Thermodynamics-II,Pollution Control and Safety Management, Instrumentation and Process Control, Advanced Separation Techniques
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	2 National 4 International
	Master	
	Ph.D.	

Projects Carried out	

Patents	

Technology Transfer	

Research Publications	

No. of Books published with details	No. of Books published	00
	Details of Books	

Name of the Teaching Staff	SRUJAL PRAVINCHANDRA RANA
Date of Birth	08-03-1978
Unique id	1-441935289
Education Qualifications	B.E.- Chemical Engineering, M.Tech –Chemical Engineering

Work Experience (in years)	Teaching	Research	Industry	others
	11 years	~~~~	06 years	~~

Area of Specialization	Chemical Reaction Engineering, Biofuel, Alternate Energy source.

Courses taught at	Diploma Level	NA
	Post Diploma Level	NA
	Under Graduate Level	Fluid Flow operation, Process Heat Transfer, Chemical Engineering Thermodynamics-I, Chemical Reaction Engineering-I & Chemical Reaction Engineering- II
	Post Graduate Level	NA
	Post Graduate Diploma Level	NA

Research guidance	No. of papers published in National/International Journals/Conferences	Total:18(International Journal-01 International Conference-13 National Conference-04)
	Master	NA
	Ph.D.	NA

Projects Carried out	~~~~
Patents	~~~
Technology Transfer	~~~
Research Publications	

No. of Books published with details	No. of Books published	~~~~~
	Details of Books	~~~~~

Name of the Teaching Staff	Ashish Parmar			
Date of Birth	03 August, 1980			
Unique id	1-442094621			
Education Qualifications	BE Chemical Engineering M. Tech. Chemical Engineering			
Work Experience (in years)	Teaching	Research	Industry	others
	10 Years	-	-	-
Area of Specialization	Chemical Engineering, Modeling, Simulation, Designing and Optimization of Chemical Processes and Operations			

Courses taught at	Diploma Level	Not Applicable
	Post Diploma Level	Not Applicable
	Under Graduate Level	Process Equipment Design - II Chemical Engineering Thermodynamics – I & II Computer Aided Process Synthesis Process Modeling, Simulation & Optimization Chemical Engineering Maths
	Post Graduate Level	Not Applicable
	Post Graduate Diploma Level	Not Applicable

Research guidance	No. of papers published in National/International Journals/Conferences	02 National Conference 08 International Conference
	Master	Not Applicable
	Ph.D.	Not Applicable

Projects Carried out	NIL
Patents	NIL
Technology Transfer	NIL
Research Publications	• Paper entitled "Sonocrystallization: Advanced Technique for API manufacturing" presented in National Conference on "Convergence of Pharmaceutical Sciences &Biomedical Technology (CPSBT – 2018) organized by National Institute of Pharmaceutical Education and Research, Ahmedabad (NIPER-A) on 21-23 March 2018.

No. of Books published with details	No. of Books published	NIL
	Details of Books	

Name of the Teaching Staff	Desai Vishad P.	
Date of Birth	29th June 1981	
Unique id	1-456711221	
Education Qualifications	B.E. Chemical Engineering, M.S. Pharmaceutical Engineering	

Work Experience (in years)	Teaching	Research	Industry	others
	9	6 monthhs		

Area of Specialization	Pharmaco Kinetics, Advance Separation techniques,

Courses taught at	Diploma Level	Not applicable
	Post Diploma Level	Not applicable
	Under Graduate Level	Mechenical Operation, Advance Seperation Techniques, Fertilizer technology, Petroleum Refining
	Post Graduate Level	Not applicable
	Post Graduate Diploma Level	Not applicable

Research guidance	No. of papers published in National/International Journals/Conferences	02
	Master	Not applicable
	Ph.D.	Not applicable

Projects Carried out	NIL
Patents	NIL
Technology Transfer	NIL
Research Publications	NIL

No. of Books published with details	No. of Books published	NIL
	Details of Books	NIL

Name of the Teaching Staff	Upadhyay Anand Pradipkumar

Date of Birth	26-10-1988

Unique id	1-3238008944

Education Qualifications	M. Tech. (Chemical Process and Plant Design) B.E. (Chemical Engineering)

Work Experience (in years)	Teaching	Research	Industry	others
	5Yrs 7 Months	~	~	~

Area of Specialization	Process Equipment Design, Process control

Courses taught at	Diploma Level	~
	Post Diploma Level	~
	Under Graduate Level	UG level
	Post Graduate Level	~
	Post Graduate Diploma Level	~

Research guidance	No. of papers published in National/International Journals/Conferences	1
	Master	Nil
	Ph.D.	Nil

Projects Carried out	

Patents	Nil

Technology Transfer	Nil

Research Publications	

No. of Books published with details	No. of Books published	Nil
	Details of Books	

Name of the Teaching Staff	KANSAGRA BANSI			
Date of Birth	24/10/1994			
Unique id	1-4489221234			
Education Qualifications	M.E. in chemical engineering B.E. in chemical engineering			
Work Experience (in years)	Teaching	Research	Industry	others
	7.5 months			
Area of Specialization	Chemical			

Courses taught at	Diploma Level	NA
	Post Diploma Level	NA
	Under Graduate Level	Mass transfer operation, Process Modelling, simulation and optimization, mechanical Operation, Advanced Separation Technique and Energy Technology
	Post Graduate Level	NA
	Post Graduate Diploma Level	NA

Research guidance	No. of papers published in National/International Journals/Conferences	
	Master	
	Ph.D.	

Projects Carried out	NA	
Patents	NA	
Technology Transfer	NA	
Research Publications		
No. of Books published with details	NA	

Name of the Teaching Staff	SHIREEN SINGH			
Date of Birth	05-05-1994			
Unique id	1-4495137685			
Education Qualifications	B.E. (Chemical), M.Tech (Chemical)			
Work Experience (in years)	Teaching	Research	Industry	others
	5 Months			
Area of Specialization	Chemical Engineering			

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Process Calculation, Instrumnetation & Process Control, Mechanical Operations, Advanced Separation Techniques, Process Heat Transfer
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	2 (National Conference), 1 (International Conference)
	Master	
	Ph.D.	

Projects Carried out	
Patents	
Technology Transfer	

Research Publications	- Research paper on "Synthesis, Characterization and Application of Nanoparticles as Fuel Additives", ARTCHEM, 25-26 March-2017, SCET, Surat - Research paper on "Biomass Upgrading via Pyrolysis Route", ARTCHEM, 25-26 March-2017, SCET, Surat - Poster Presentation on "Synthesis, Characterization and Application of Nanoparticles as Fuel Additives", NACEE-2017, 22-23 March-2017, SVNIT, Surat.	
	No. of Books published	NIL

No. of Books published with details	Details of Books	NIL

Name of the Teaching Staff	Akash Raval
Date of Birth	31/01/1993
Unique id	1-4495137740
Education Qualifications	Master of Engineering (Chemical) Bachelor of Engineering(chemical)

Work Experience (in years)	Teaching	Research	Industry	others
	1 Yr 1 month	1 year	NA	NA

Area of Specialization	Removal of a heavy metals, Biomass valorization

Courses taught at	Diploma Level	NA
	Post Diploma Level	NA
	Under Graduate Level	1. Chemical Engineering Maths, 2. Chemical Engineering Thermodynamics-1, 3. Pollution Control, Safety and Health Management, 4. Fertilizer Technology
	Post Graduate Level	NA
	Post Graduate Diploma Level	NA

Research guidance	No. of papers published in National/International Journals/Conferences	Conference Paper-5
	Master	NA
	Ph.D.	NA

Projects Carried out	NA

Patents	NA

Technology Transfer	NA

Research Publications	• **Akash Raval***, Viswa Raval, Y.C.Rotliwala, Saurabh jha, Kheni Kaushik "Utilisation of Water Hyacinth for production of Bio-oil through thermal depolymerisation" on 26th-27th October,

	2018 at Schemcon-2018, IICHE Student Chapter, Department of Chemical Engineering, Institute of Chemical Technology (ICT), Mumbai-400019	
	• Akash Raval*, Irshita Patel, Kishorilal Agrawal "A Comparison of Mechanical Properties of Banana Fibre and Dolomite Powder Reinforced With Unsaturated Polyester Resin" on 26th-27th October, 2018 at Schemcon-2018, IICHE Student Chapter, Department of Chemical Engineering, Institute of Chemical Technology (ICT), Mumbai-400019	
No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Name of the Teaching Staff	Geetaben Ajitsinh Gohil
Date of Birth	04/10/1989
Unique id	1-4495137733
Education Qualifications	ME-Petrochemical Engg., BE-Chemical Engg., Diploma Chemical Engg.

Work Experience (in years)	Teaching	Research	Industry	others
	2 year 1 month	-	-	-

Area of Specialization	Petrochemical engineering.

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Process equipment design-1, chemical process industries-II
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	Not applicable
	Master	
	Ph.D.	

Projects Carried out	"Solubility of para-Nitrotoluene in sulfuric acid" during ME
Patents	Not applicable
Technology Transfer	Not applicable

Research Publications	Not applicable	
No. of Books published with details	No. of Books published	
	Details of Books	• Not applicable

Name of the Teaching Staff	Prof. (Dr.) Pratima A. Patel			
Date of Birth	12-01-1966			
Unique id	1-410969441			
Education Qualifications	B.E.(Civil) , M.E.(S.M.F.E), M.E.(W.R.E)			
Work Experience (in years)	Teaching	Research	Industry	others
	28	~~	01	
Area of Specialization	Soil Mechanics and Foundation Engineering			

Courses taught at	Diploma Level	~~~
	Post Diploma Level	~~~
	Under Graduate Level	Soil Mechanics , Foundation Engineering., Concrete Technology, Surveying & Levelling , Mechanics of Solids, Concrete Technology , Structural Analysis , Geotechnical Engineering I & II, Repair & Rehabilitation
	Post Graduate Level	Theory and Application of Cement Composites , Disaster Management
	Post Graduate Diploma Level	~~~~~~~~~~~~~~~

Research guidance	No. of papers published in National/International Journals/Conferences	12+09+27 = 48
	Master	~~~~~~~~~~~~~
	Ph.D.	~~~~~~~~~~~~~~~

Projects Carried out	~~~~~~~~~~~~~~
Patents	Patent Registered in 2018, Synthesis of Biodegradable plastic from Bio polymer.
Technology Transfer	~~~~~~~~~~~~~~~~

Research Publications	~~~

No. of Books published with details	No. of Books published	~~~~~~~~~~~~~~~~
	Details of Books	~~~~~~~~~~~~~~~~~~~~~~

Name of the Teaching Staff	Dr. Jigar Kantilal Sevalia

Date of Birth	30/05/1976

Unique id	1-766477972

Education Qualifications	B.E. Civil, M.E. Civil (Structural Engineering), Ph. D. Civil (Structural Engineering)

Work Experience (in years)	Teaching	Research	Industry	others
	17	04	03	~~~

Area of Specialization	Structural Engineering

Courses taught at	Diploma Level	~~~
	Post Diploma Level	~~~
	Under Graduate Level	Mechanics of Solids, Structural Analysis – I, Structural Analysis – II, Design of Reinforced Concrete Structures, Design of Steel Structures
	Post Graduate Level	Theory of Plates and Shells, Advanced Concrete Design, Advanced Steel Design, Structural Dynamics
	Post Graduate Diploma Level	~~~

Research guidance	No. of papers published in National/International Journals/Conferences	25
	Master	~~~
	Ph.D.	~~~

Projects Carried out Consultancy Details	1. Construction of Ground + One storied School Building at T.P.S.-04 (Ashwanikumar-Navagam), F.P. No. 02. 2. Construction of Ground + Two storied Suman School Building at T.P.S.-16, (Kapodra), F.P. No 45 (Revised) in East (Varachha) Zone (Rs. 1,90,53,992.95), Surat Municipal Corporation. (F.P. No. Revised 45 instead of 51 in Nov-2017))

	3. Construction of Fire Station & Staff Quarters Located at T.P.S. No. 02 (Vesu-Bharthana-Vesu), F.P. No. 219, South-West Zone (Athwa), Surat. 4. Construction of Sewage Pumping Station (SPS) at T.P.S. No. 58 (Valak), F.P. No. 59/A for Tapi Shuddhikaran in Drainage Department, Surat Municipal Corporation 5. Construction of 24 MLD Sewage Pumping Station (SPS) at Palanpore Gam in Drainage Department, Surat Municipal Corporation. 6. Construction of Shelter for Urban Homeless People located at T.P.S. No. 21 (Bhestan), F.P. No. – 2 Paikee in South Zone (Udhna) Surat. 7. Construction of Sewage Pumping Station (SPS) for Phase - 1 of Dream City Limited, Khajod, Surat.	
Patents	~~~	
Technology Transfer	~~~	
Research Publications	~~~	
No. of Books published with details	No. of Books published	03
	Details of Books	1. Dynamic Analysis of Structures for Looms Industry – A Parametric Study ISBN (ebook) – 978-3-656-75503-6 ISBN (book) – 978-3-656-75502-9 2. "Mechanics of Solids" –Published by Nirali Prakashan, Abhyudaya Pragati, 1312, Shivaji Nagar, Off. J. M. Road, Pune 411005, Maharashtra, India. [ISBN:935164569- X] 3. "Structural Analysis - I" –Published by Nirali Prakashan, Abhyudaya Pragati, 1312, Shivaji Nagar, Off. J. M. Road, Pune411005, Maharashtra, India. [ISBN : 935164611 - 4]

Name of the Teaching Staff	Prof. Dharmesh Kishorchandra Bhagat		

Date of Birth	09-10-1967					
Unique id	1-410969445					
Education Qualifications	UG	BE-CIVIL I-Class Distinction	PG	ME-CIVIL (Structural Engineering) I-Class Distinction	PhD	--

Work Experience (in years)	Teaching	Research	Industry	others
	21.5	~~	11	~~

Area of Specialization	Structural Engineering, Concrete Technology

Courses taught at	Diploma Level	~~
	Post Diploma Level	~~
	Under Graduate Level	Mechanics of Solids, Structural Analysis-I, II & III, Structural Design-I & II, Elementary Structural Design (ESD), Design of reinforced concrete structures (DRCS), Design of steel structures (DSS)
	Post Graduate Level	Advanced Concrete Design (ACD), Advanced structural Analysis (ASA), Advanced steel design (ASD), Structural Dynamics (SD)
	Post Graduate Diploma Level	~~

Research guidance	No. of papers published in National/International Journals/Conferences	01(International conf.-Presented & Published in Journals), 01 (International-Published in Journals)
	Master	~~~
	Ph.D.	~~

Projects Carried out	NIL

Patents	NIL

Technology Transfer	NIL

Research Publications	• Presented a paper titled as **"Evaluation of Properties of Concrete using Basalt Fibre and Rice Husk Ash – An experimental Study"** at **2nd** _International conference_ on **"Advancement in Engineering, Applied Science and Management (ICAEASM-2018)"** on 28th January, 2018 at Osmania University Centre for International Programmes, Osmania University Campus, Hyderabad, Telangana State, India. Published in "International Journal of Engineering, Technology, Science and Research **(IJETSR) UGC Approved Journal**", ISSN: 2394-3386, Vol. 5, Issue 1, pp.1252-1257, Impact Factor: 2.12, January 2018.

	No. of Books published	NIL

No. of Books published with details	Details of Books	NIL

Name of the Teaching Staff	Prof. Himanshu J. Padhya

Date of Birth	18/08/1971

Unique id	1-410969449

Education Qualifications	B.E. – Civil, M.E – Civil

Work Experience (in years)	Teaching	Research	Industry	others
	21 years	0	1	0

Area of Specialization	Town & Regional Planning

Courses taught at	Diploma Level	NA
	Post Diploma Level	NA
	Under Graduate Level	Urban Transportation System, Highway Engineering.
	Post Graduate Level	Transportation Planning, Planning in general, Regional Planning, Urbanisation and related issues, Sustainable development, behaviour analysis and its application
	Post Graduate Diploma Level	Nil

Research guidance	No. of papers published in National/International Journals/Conferences	19
	Master	09
	Ph.D.	Nil

Projects Carried out	Nil

Patents	Nil

Technology Transfer	Nil

Research Publications	a. Published a paper in year 2017 – 2018, in 'International Journal of Advanced Research In Engineering, Management And Science', ISSN : 2394-1766, titled 'Intervention of Infrastructure Services.'

	b. Published a paper in year 2017 – 2018, in 'International Journal of Advanced Research In Engineering, Management And Science', ISSN : 2394-1766, titled 'A Review on Urban Green Cover.'	
	c. Published a paper in year 2017 – 2018, in 'International Journal of Advanced Research In Engineering, Management And Science', ISSN : 2394-1766, titled 'A Literature Based Study on Greenway.'	
	d. Published a paper in year 2017 – 2018, in 'International Journal of Advanced Research In Engineering, Management And Science', ISSN : 2394-1766, titled 'Review Paper For Parking Requirement: Case of Surat City.'	
	e. Published a paper in year 2017 – 2018, in 'International Journal of Advanced Research In Engineering, Management And Science', ISSN : 2394-1766, titled 'Literature Based Study For Improving Pedestrian Infrastructure Facilities In School Areas.'	
	f. Published a paper in year 2017 – 2018, in 'International Journal of Advanced Research In Engineering, Management And Science', ISSN : 2394-1766, titled 'Review of Affordable Housing Practices In Urban Area.'	
	Technical Paper Publication in Conference Presented	
	a. Presented a paper in SSC – 18, a TEQIP III National conference at SVNIT,ISBN: 978-93-5346-574-2 Surat, during 22 to 23 December 2018, titled - Game Theory: Finding The Solutions Of Indian Transportation Issues With Prisoner's Dilemma.	

No. of Books published with details	No. of Books published	Nil
	Details of Books	Nil

Name of the Teaching Staff	Prof. RATNA H. JADVANI		
Date of Birth	18/09/1967		

Unique id	1-410969523
Education Qualifications	BE Civil, ME Soil Mechanics and Foundation Engineering

Work Experience (in years)	Teaching	Research	Industry	others
	21 years, 6months	~	6 months	~

Area of Specialization	Geo Technical Engineering

Courses taught at	Diploma Level	~
	Post Diploma Level	~
	Under Graduate Level	1. Mechanics Of solids 2. Surveying 3. Structural Analysis –I 4. Structural Analysis –II 5. Advanced Construction and Equipment 6. Foundation Engineering
	Post Graduate Level	1. Theory and application of cement composites(ME Str sem I) 2. English for Research paper writing(ME Str sem I) 3. Disaster management (ME Str sem II)
	Post Graduate Diploma Level	~

Research guidance	No. of papers published in National/International Journals/Conferences	~
	Master	~
	Ph.D.	~

Projects Carried out	~
Patents	~
Technology Transfer	~
Research Publications	~

No. of Books published with details	No. of Books published	~
	Details of Books	~

Name of the Teaching Staff	Dr. Mehali Jigesh Mehta			
Date of Birth	12-08-1972			
Unique id	1-410969527			
Education Qualifications	B.E Civil , ME Civil (Specialisation Environmental Engineering), Ph.D Civil (Specialisation Environmental Engineering)			
Work Experience (in years)	Teaching	Research	Industry	others
	19 yrs 4 months		~	~
Area of Specialization	Environmental Engineering			

Courses taught at	Diploma Level	~
	Post Diploma Level	~
	Under Graduate Level	1. Environmental Engineering 2. Water and Wastewater Treatment 3. Professional Practice and Valuation
	Post Graduate Level	1. Industrial waster and wastewater Treatment 2. Treatment Process Design and Drawing 3. Solid and hazardous waste management 4. Fundamentals of water and wastewater Treatment 5. Environmental Legislations
	Post Graduate Diploma Level	~

Research guidance	No. of papers published in National/International Journals/Conferences	International Journal: 06 National Journal: 0 International Conference: 02 National Conference:0
	Master	15
	Ph.D.	

Projects Carried out	
Patents	Registered 1 patent : (Synthesis of Biodegradable Plastic from Bio-polymer)
Technology Transfer	~

Research Publications	International Journal
	    1. Mehali Mehta, Mausumi Mukhopadhyay, Robin Christian, 2019, ***Regeneration and reuse of magnesium oxide (MgO) nanocrstallites,*** Seperation Science and Technology, Taylor and Francis publication, ISSN: 0149-6395.
	    2. Mehali Mehta, Nidhi Halbe, 2018, ***Petroleum based plastic an emerging issue for Environmental sustainability,*** International Journal for Science and Research in Technology, Vol 4, Issue 2, ISSN: 23951052.
	    3. Mehali Mehta, Vivek Kapadia, 2018, ***Prospects of Water Hycinth (Eichhornia Crassipes)for Environmental***

	Remediation, International Journal for Science and Research in Technology, Vol 4, Issue 2, ISSN: 23951052.	
	4. Mehali Mehta, Divya Lad, Manisha Vashi,2018, *Assesment of water pollution of waterbodies using GIS: A review,* International Journal of Trend in Scientific Research and Development, Vol 2, Issue 2, ISSN: 24566470.	
	5. Mehali Mehta, Jaini Nagar, 2018, *Remediation of wastewaterusing ZnO nanoparticles,* International Journal of Advance Engineering and Research Development (IJAERD), E-ISSN: 23484470.	
	6. Mehali Mehta, Bhavya Shah, Abhishek Khapre, *Phytocover for Sanitary Landfill Sites: A brief review*, International Journal of Engineering Research and Applications, Vol. 7(3), 65-70, ISSN: 2248-9622, 2017	
	International Conference:	
	1. Mehali Mehta, Divya Lad , Manisha Vashi, *Assessment of Surface water Quality using GIS: Case of Tapi Basin Surat, Gujarat, India,* International Conference on Geomatics in Civil Engineering ICGCE 2018 at IIT-Roorkee, April 5-6 2018.	
	2. Mehali Mehta, Kinjal Parikh, Manisha Vashi, *Green Building Concept for smart cityusing green rating for integrated habitat Assessment,* International Conference on Industrial Engineering ICIE 2017 at SVNIT surat, 21-23 Dec 2017.	

No. of Books published with details	No. of Books published	~~~
	Details of Books	~~~

Name of the Teaching Staff	Prof. Khushbu Shashikant Gandhi
Date of Birth	15th March, 1985
Unique id	1-456711597
Education Qualifications	PhD Persuing M. Tech (Soil Mechanics and Foundation Engineering) B.E. (Civil Engineering)

Work Experience (in years)	Teaching	Research	Industry	others
	10 years	~	~	~

Area of Specialization	Soil Mechanics and Foundation Engineering

Courses taught at	Diploma Level	~
	Post Diploma Level	~
	Under Graduate Level	Soil Mechanics, Fluid Mechanics, Applied Fluid Mechanics, Geotechnic and appled Geology, Repair and Rehabilitation of structure, Advanced Construction and Equipment, Foundation Engineering
	Post Graduate Level	English for Research Paper Writing Seminar
	Post Graduate Diploma Level	~
Research guidance	No. of papers published in National/International Journals/Conferences	17
	Master	~
	Ph.D.	~
Projects Carried out	~	
Patents	~	
Technology Transfer	~	
Research Publications	• Paper Published on "Improved Expansive soil for pavement sub-grades using industrial waste bagasse ash & GGBS" in proceeding of Indian Geotechnical Conference – 2018" • Paper published on "Experimental Studies on Industrial waste Bagasse used for soil stabilization: A Review" in national Conference " Challenges in Geotechnical Investigations" Organized by Indian Geotechnical Society, Goa Chapter, at Goa Engineering College, Goa, India on 13 – 14 April, 2018. • Paper presented on "Review study of expansive soil stabilization using waste material- A step towards sustainable aspects", 1t 6th world conference on Applied Science, Engineering and Technology, held at Goa on 2nd - 3rd January 2018 .	
No. of Books published with details	No. of Books published	~
	Details of Books	~

Name of the Teaching Staff	Prof. Mitali Ankur Shah		
Date of Birth	17/03/1984		
Unique id	1-456827848		

Education Qualifications	M.Tech Civil (Environmental Engineering) B.E Civil Engineering			
Work Experience (in years)	Teaching	Research	Industry	others
	10 yrs			
Area of Specialization	Environmental Engineering			
Courses taught at	Diploma Level	~		
	Post Diploma Level	~		
	Under Graduate Level	Water Resources Engineering, Environmental Engineering, Building Construction		
	Post Graduate Level	Water and Wastewater Treatment Technologies, Air and Noise Pollution Control, Environmental Legislation, Solid and Hazardous Waste Management, Research Methoodlgy		
	Post Graduate Diploma Level			
Research guidance	No. of papers published in National/International Journals/Conferences	7		
	Master	3		
	Ph.D.	~		
Projects Carried out	Nil			
Patents	Nil			
Technology Transfer	Nil			
Research Publications	PAPER PUBLICATION/PRESENTATION IN NATIONAL CONFERENCE			

Research Publications cell content:

PAPER PUBLICATION/PRESENTATION IN NATIONAL CONFERENCE
- Published and presented a paper titled "Route Optimisation for Solid Waste Management using ArcGIS Network Analyst: A Review" in "International Conference on Advancement in Engineering, Applied Science and Management (ICAEASM-2018)" organized by The Institution of Engineers, Mumbai, 7th January 2018.
- Published and presented a paper titled "Removal of Ammoniacal Nitrogen (NH_4^+-N) from Pharmaceutical wastewater by forming Struvite Precipitation" in 23rd ISTE State Annual Faculty Convention with National Conference on " Role of Innovation and Human Values in Engineering and Technology, organized by ISTE Gujarat Section and SSASIT, 15th February 2018.
- Published and presented a paper titled " Route Optimisation For Solid Waste Management Using ArcGIS Network Analyst" in International Conference on " Geomatics in Civil Engineering" organized by IIT, Roorkee, 5-6 April 2018.
- Published and presented a paper titled Peak Hour Road Traffic Noise Mapping of West Zone of Surat Using ArcGIS" in National Conference on "National Environmental Conference

(NEC - 2019)" organized by IIT Bombay, 31st January-2 February 2019.
- Published and presented a paper titled "Renetworking of Collection Route for Municipal Solid Waste in West Zone of Surat City Using ArcGIS" in in National Conference on "National Environmental Conference (NEC - 2019)" organized by IIT Bombay, 31st January-2 February 2019.

PAPER PUBLICATION/PRESENTATION IN JOURNAL
- Paper publish in International Journal of Engineering Technology Science and Research(IJETSR) "Route Optimisation for Solid Waste Management using ArcGIS Network Analyst: A Review" ISSN 2394 – 3386 Volume5,Issue1,January 2018.
- Paper publish in International Journal of Current Engineering and Technology "Performance Study of CETP (Common Effluent Treatment Plant)-A Case Study of Pandesara, Surat", E-ISSN 2277 – 4106, P-ISSN 2347 – 5161.

No. of Books published with details	No. of Books published	~~
	Details of Books	~~

Name of the Teaching Staff	Prof. Sejal S. Bhagat
Date of Birth	15/05/1986
Unique id	1-771985356
Education Qualifications	M.Tech (Urban Planning)

Work Experience (in years)	Teaching	Research	Industry	others
	7.6 years	~	~	~

Area of Specialization	Urban Planning

Courses taught at	Diploma Level	~
	Post Diploma Level	~
	Under Graduate Level	Mechanics of Solids, Elements of Civil Engineering, Building and Town Planning, Hydrology & Water Resource Engineering, Fluid Mechanics, Applied Fluid Mechanics, Railway Bridge & Tunnel, Construction Management Equipment, Professional Practices & Valuation, Design Engineering 2A, Design Engineering 2B, Project.

	Post Graduate Level	Planning History & Theory, Urban Housing, Tourism Planning & Development, Urban Planning Techniques & Practices, Regional Planning, Geospatial Techniques & Practices, Politics & Public Policy Planning, English for Research Paper Writing, Legal issues in Urban Planning, Seminar, and Dissertation.
	Post Graduate Diploma Level	~
Research guidance	No. of papers published in National/International Journals/Conferences	36
	Master	29
	Ph.D.	~
Projects Carried out	~	
Patents	~	
Technology Transfer	~	
Research Publications	a. (International journal*)* Published a technical Paper "**Urban land management model & techniques",** International journal of civil engineering, ISSN 2278-9987. b. (International Journal) Published a technical Paper "**Optimization of a multi story building by optimum position of shear wall**", International Journal of Research in engineering and technology, ISSNe2319-1163. c. (International journal) Published a technical Paper "**The land market assessment for tps 6&32, Surat** city-a tool for urban land management**,** International journal of scientific & engineering research, **ISSN 2229-5518**. d. (International Journal) Published a technical Paper, "**Smart cities in context to urban development**", International Journal of Civil Structure, Infrastructure and environment research and development **ISSN-e 2249-7978**. (Co-Author: Palak S. Shah) e. (International journal) published technical Paper, "**Quality of life envisage towards individual with prime urbanaization scenario**", International journal of env.ecology, family & urban life **ISSNe2321-0109.** (Co-Author: Manoj L. Patel) f. (International journal) published technical, "**pedestrian priority in urban area and usefulness towards community**", 2014; IJRET- (Volume-03 Issue-01), **eISSN: 2319-1163.** (Co-Author: Manoj L. Patel) g. (International Journal) publishedtechnical paper in International journal of Advanced Research in Engineering,	

Science & Management (IJARESM-2015) **Study of LRAP of India and abroad cities**, 2015; Vol-1, Issue-3, **ISSN: 2394-1766.** (Co-Author: Hiren P. Rathod)

h. Journal of emerging technologies and innovative research **Accessibility analysis of social infrastructure**, 2015; **ISSN: 2349 -5162.** (Co-Author: Hiren P. Rathod)

i. Journal of emerging technologies and innovative research **Company Town,** 2015; **ISSN: 2349 -5162.** (Co-Author: Pinank R. Patel)

j. Journal of emerging technologies and innovative research**, Coastal Area Development Proposal for Surat City**, 2015; **ISSN: 2349 -5162.** (Co-Author: Vikas Patel)

k. Journal of emerging technologies and innovative research **Effect of Landuse on Travel Behavior,** 2015; **ISSN: 2349 -5162.** (Co-Author: Patel Sahid Alli)

l. International Journal for Scientific Research & Development; **Integrated Land Use-Transport Model Approach in Town Planning For Urban Areas**, Volume 4 Issue 02, 2016; **ISSN: 2321-0613**. (Co-Author: Pathik M. Chaudhari)

m. International Journal for Scientific Research & Development; **SWOT Analysis for Improve Solid Waste Management and Waste Water Management in Amod Town, Bharuch, Gujarat** Vol. 4, Issue 03, 2016**; ISSN** (online): **2321-0613**. (Co-Author: Kapil K. Patel)

n. International Journal of Advanced Research in Engineering, Science & Management; **Existing scenario of water supply system in new north zone, Surat** Volume 2, Issue 8,2016; **ISSN : 2394-1766**. (Co-Author: Meet V. Desai)

o. International Journal of Advanced Research in Engineering, Science & Management; **SWOT Analysis for Improvement of Municipal Solid Waste Management Planning: A Case of Amod Town, Bharuch** Volume 2, Issue 7, 2016; ISSN: 2394-1766. (Co-Author: Kapil K. Patel)

p. International Journal of Advanced Research in Engineering, Science & Management; **An Exploration on Smart Water Management System for Surat** Volume 2, Issue 8, 2016; ISSN: 2394-1766. (Co-Author: Meet V. Desai)

q. International Journal of Advanced Research in Engineering, Science & Management; **SWOT Analysis for Improving Waste Water Management in Amod Town, Bharuch**Volume 2, Issue 7, 2016; ISSN : 2394-1766. (Co-Author: Kapil K. Patel)

r. International Journal of Advanced Research in Engineering, Science & Management; **Urban green spaces: An approach towards sustainable environment**, published in volume 3,

issue 5, February 2017, ISSN: 2394-1766. (Co-author: Er. Abhishek Desai)

s. International Journal of Advanced Research in Engineering, Science & Management; **Risk assessment of water distribution network using fuzzy based system**, published in Volume 3, issues 6, March 2017, ISSN: 2394-1766. (Co-author: Er. Rohan Kania)

t. International Journal of Advanced Research in Engineering, Science & Management; **Analysis of existing water distribution network by using watergems: A case study Rajkot City** published in Volume 3, issues 7, April 2017, ISSN: 2394-1766. (Co-author: Prashant Vaghela)

u. International Journal of Advanced Research in Engineering, Science & Management; **Weightage analysis of criteria for suitable location using AHP tool**, published in Volume 3, issues 7, April 2017, ISSN: 2394-1766. (Co-author: Vijay Kothari)

v. International Journal of Advanced Research in Engineering, Science & Management; **Urban renewal planning proposal for residential area: Limbayat, Surat,** published in Volume 3, issues 7, April 2017, ISSN: 2394-1766. (Co-author: Prashant Vaghela)

w. Journal of research activities in Infrastructure science, **Analysis of suitable location of urban green space based on AHP for Surat city,** published in volume 2, Issue2, Year 2017. (Co-author: Er. Abhishek Desai)

x. An International multidisciplinary referred e-journal: Vedant research publication **Suitability analysis of Residential land parcel using AHP tool,** published in Issue 5, Volume: 2 Month: April 2017, ISSN: 2454-8596. (Co-author: Vijay Kothari)

y. International Journal of Advanced Research in Emerging ,Science &Management, **Study on Improve Efficiency of Mass Transportation: A Case Study of Kamrej to Surat Corridor,** published in issue, ISSN:2394-1766 (1766 (Co-author: Rajat Patel)

z. International Journal of Advanced Research in Emerging ,Science & Management**, Study on The Assessment of Vertical Development for Surat & Mumbai,** published in issue, ISSN:2394-1766 (Co-author: Amiraj Vaishnav)

aa. International Journal of Advanced Research in Emerging ,Science &Management, **Review of Land Management Practices in Urban Growth Perspective,** published in volume:4, issue:7, ISSN:2394-1766 (Co-author: Akash Shah)

bb. International Journal of Advanced Research in Emerging ,Science &Management, **Review Study on Different Type of**

	Tourism Planning, published in volume:4, issue:7 , ISSN:2394-1766 (Co-author: Monika Gavit)	
	cc. International Journal of Advanced Research in Emerging ,Science &Management A **Literature Based Study on Tourism Development,** published in volume:4, issue:7, ISSN:2394-1766 (Co-author: Harsh Desai)	
	dd. An International Journal of Advanced Research in Emerging, Science & Management **Concept of Social Sustainable Development,** published in volume: 4, issue: 7, ISSN: 2394-1766. (Co-author: Bhargav Mangukia)	

No. of Books published with details	No. of Books published	~
	Details of Books	~

Name of the Teaching Staff	Dr. Minakshi Vipul Vaghani

Date of Birth	05/04/1979

Unique id	1-1507077875

Education Qualifications	PhD in Structural Engineering, M.E. (Civil) in Enviro Engg, B.E. (Civil)

Work Experience (in years)	Teaching	Research	Industry	others
	14	~	1.5	~

Area of Specialization	Structural Engineering, Environmental Engineering

Courses taught at	Diploma Level	Surveying, Structural Analysis, SDD, Concrete technology, Transportation Engineering
	Post Diploma Level	
	Under Graduate Level	Advanced Surveying, Fluid Mechanics, Structural Analysis, Irrigation Engineering, Urban Transportation System
	Post Graduate Level	Air Pollution, Environmental Monitoring, EIA, TPDD, ELM Advanced Structural Analysis, Theory of thin plates
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	06 papers in national/international conference 05 papers in national/international journals
	Master	06
	Ph.D.	~
Projects Carried out	~	
Patents	03	
Technology Transfer	~	
Research Publications	Publications in Journals	
	1	Volatile Organic Compounds Emission from Wastewater Treatment Plant- A Review Page No. (1165-1168), International Journal for Science and Advance Research in Technology, ISSN [ONLINE] : 2395-1052Volume 4,Issue 2 in February 2018
	2	Health Impact Characterization of Traditional Biomass Cook Stove Usage on Indoor Air Quality in Rural Region – A State of Review, Journal of Environmental Engineering and Studies, Volume 3, Issue 1 in 6 March 2018
	3	Characterising Low Cost Agricultural by-product for Sequestering Greywater Pollutants by Biosorption for Reuse Application Page no. (1-7), Journal of Water Resources and Pollution Studies, Volume 3, Issue 1 in 6 March 2018
	4	Waste Electrical and Electronic (WEEE) Plastics to Fuel - A Review, Journal of Environmental Engineering and Studies, Volume 3, Issue 1 in 9 March 2018
	5	Utilization of Textile Waste by Pyrolysis – A Review, Journal of Environmental Engineering and Studies, Volume 3, Issue 2 in 20 April 2018
	Publications in Conferences	
	1	Overview to Categorization of Emissions from Domestic Sewer Lines & Domestic Sewage Treatment Plant presented at 1st National Conference on Recent Advances in Civil Engineering for Global Sustainability, SSASIT, Surat
	2	Study of Idol Immersion in Water Bodies presented at 1st National Conference on Recent Advances in Civil Engineering for Global Sustainability, SSASIT, Surat
	3	Reclamation of Saline and Sodic soil: The State of Review presented at 1st National Conference on Recent Advances in Civil Engineering for Global Sustainability, SSASIT, Surat
	4	Evaluation of Pesticides in Ambient Air of Rural areas: A Review presented at Noise and Air Pollution: monitoring and Modeling (NAP- 2017), SVNIT, Surat
	5	Evaluation of Ambient Noise levels in Urban area presented at Noise and Air Pollution: monitoring and Modeling (NAP- 2017), SVNIT, Surat
	6	Evaluation of Noise Level in and around Railway Platform in Surat City
No. of Books published with details	No. of Books published	NIL
	Details of Books	NIL

Name of the Teaching Staff	Prof. Payal Umangbhai Zaveri

Date of Birth	25/1/1981

Unique id	1-456827842

Education Qualifications	1. M.Tech in Water Resource Engineering with 9.87 C.G.P.A in 2013 from SVNIT, Surat. 2. B.e in Civil Engineering with distinction in 2002 from L.D.College of Engineering, Ahmedabad.

Work Experience (in years)	Teaching	Research	Industry	others
	11 years	~	~	~

Area of Specialization	Water Resource Engineering

Courses taught at	Diploma Level	~
	Post Diploma Level	~
	Under Graduate Level	Professional Practice & Valuation, Irrigation Engineering, Construction Management & Equipment, Urban Transport System, Project, Applied Fluid Mechanics, Hydrology & Water Resource Engineering, Building & Town Planning, Fluid Mechanics, Mechanics of Solid, Design of Engineering, Elements of Civil Engineering.
	Post Graduate Level	Application Based System for Transport of Water & Wastewater, Geo Spatial Technique
	Post Graduate Diploma Level	~

Research guidance	No. of papers published in National/International Journals/Conferences	• International Journal – 03 • National Conference – 01 • International Conference - 02
	Master	02
	Ph.D.	~

Projects Carried out	~

Patents	~

Technology Transfer	~

Research Publications	• **National Conference :** Paper presented in "Role of Innovation and Human Values in Engineering and Technology ", jointly

	organized by ISTE Gujarat Section & Shree Swami Atmanand Saraswati Institute of Technology, Surat on "Analysis of water distribution network of westzone of Surat city" using watergerms during Saturday of 15th December, 2018.
	• *International Conference :* *Paper presented in "International Conference on Advancement in engineering, Applied Science and Management (ICAEASM – 2018)" on "Route Optimization for Solid Waste Management using ArcGis Netwrok Analyst : A Review" during January 2018.*
	• *International Conference :* *Paper presented in "Geomatics in Civil Engineering (ICGCE – 2018)" organized by the Department of Civil Engineering , IIT Rooekee on "Route Optimization for Solid Waste Management using ArcGis Netwrok Analyst" during April 2018.*
	• Unnati Desai[1], Minakshi Vaghani[2]and Payal Zaveri[3], April 2018, "Utilization of Textile waste by pyrolysis – A Review"" Journal of Environmental Engineering and Studies MAT journals, 3(2).
	• Punit Libani[1] and Payal Zaveri[2], February 2018, "Structure and Methodology of Comprehensive Environmental Pollution Index" Journal of Environmental Engineering and Studies MAT journals, page no 3(1).
	• Slesha Desai[1], Mitali Shah[2] and Payal Zaveri[3], January 2018, "Route Optimization for Solid Waste Management using ArcGis Netwrok Analyst : A Review" International Journal of engineering Technology Science and Research, page no 137-140, ISSN 2394 -3386 5(1).

No. of Books published with details	No. of Books published	~
	Details of Books	~

Name of the Teaching Staff	Dr. Kamlesh Shashikant Dalal
Date of Birth	23/6/1971
Unique id	1-3259701158
Education Qualifications	Ph.D.(Structural Engineering), M.Tech.(Structural Engineering), B.E.(Civil)

Work Experience (in years)	Teaching	Research	Industry	others
	3.5	3.5	6.5	~

Area of Specialization	Structural Engineering, Concrete Technology, Repair-Rehabilitation-Retrofitting of Structures,	
Courses taught at	Diploma Level	~
	Post Diploma Level	~
	Under Graduate Level	Design of Steel Structure, Advance Surveying, Structural Analysis – I, Highway Engineering, Design Engineering
	Post Graduate Level	Theory and Application of Cement Composites, Advanced Structural Analysis, Theory of Plate and Shells, Structural Health Monitoring and Retrofitting of Structures, Design of High Rise Structure
	Post Graduate Diploma Level	~
Research guidance	No. of papers published in National/International Journals/Conferences	Nil
	Master	Nil
	Ph.D.	Nil
Projects Carried out	Nil	
Patents	Nil	
Technology Transfer	Nil	
Research Publications	Nil	
No. of Books published with details	No. of Books published	Nil
	Details of Books	Nil

Name of the Teaching Staff	Prof. Ankita Ashish Parmar		
Date of Birth	27-12-1982		
Unique id	1-1512622803		
Education Qualifications	M.Tech(Civil) Specialization in Environmental Engineering		

Work Experience (in years)	Teaching	Research	Industry	others
	10	~	~	~

Area of Specialization	Environmental Engineering	
Courses taught at	Diploma Level	~

	Post Diploma Level	~
	Under Graduate Level	Construction Management,Traffic Engineeering, Hydrology,Urban Transportation Engineering
	Post Graduate Level	IWWT,EIA, Collection and Conveyance of Water and waste water, Disaster Management
	Post Graduate Diploma Level	~
Research guidance	No. of papers published in National/International Journals/Conferences	12
	Master	6
	Ph.D.	~
Projects Carried out	~	
Patents	~	
Technology Transfer	~	
Research Publications	• Paper published in Journal for research A review study on Gas-Solid Cyclone separator using Laapple model in vol. 4 issue 1 ISSN:2395-7549 • Paper Published in International Journal of Innovative Research & studies Treatment of phenolic effluent by ozonation:A review published in Vol.8, Issue II ISSN: 2319-9725 • Paper published in international journal of advance engineering and research development A review on Road Traffic noise pollution and modeling using multiple linear Regression published in vol. 5 issue-II ISSN 2348-4470 • Paper published in international journal of advance engineering and research development Production of Bio-fuel from wastepaper: A review vol. 4 issue-11 ISSN 2348-6406.	
No. of Books published with details	No. of Books published	~
	Details of Books	~

Name of the Teaching Staff	Prof. Hemali Jaydeep Jardosh		
Date of Birth	05/03/1986		
Unique id	1-1512705829		
Education Qualifications	Diploma (CIVIL), BE (CIVIL), ME (ENV. ENGG.)		

Work Experience (in years)	Teaching	Research	Industry	others
	7.5			
Area of Specialization	Environmental Engineering			

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Basic Civil Engineering, Mechanics of Solids, Surveying, Building & Town Planning, Railway, Bridge & Tunnel Engineering, Construction Management, Environmental Engineering, Water & Wastewater Engineering
	Post Graduate Level	Fundamentals of Water & wastewater, Environmental Impact Assessment, Industrial Wastewater Treatment, Air & Noise Pollution, Environmental Legislation & Management, Solid & Hazardous Waste Management
	Post Graduate Diploma Level	
Research guidance	No. of papers published in National/International Journals/Conferences	04
	Master	03
	Ph.D.	
Projects Carried out	~	
Patents	~	
Technology Transfer	~	
Research Publications	• Published paper on "Organic waste in composting: A brief review" in IJCET, vol. no.8, no. 1 (Jan-Feb 2018), pg. no. 36-38, ISSN NO. 2277-4106 • Published paper on "Review in treatment of Pharmaceutical wastewater" in IJTSRD, vol. no.2, issue: 3 (Mar- Apr 2018), ISSN NO. 2456-6470 • Presented paper on "Fuzzy Rule Base System Approach for Pipe Condition Assessment: Case of Surat City" in Water Loss 2016, IWA, Bengaluru during February 1-3, 2016. • Presented paper on "Use of Ozone in Waste Water Treatment", in 4th International congress of Environmental Research jointly organized by JERAD and GPCB held at SVNIT during December 15-17, 2011.	
No. of Books published with details	No. of Books published	~
	Details of Books	~

Name of the Teaching Staff	Dr. Manisha Pranav Vashi
Date of Birth	26/08/1976
Unique id	1-3259701356
Education Qualifications	Diploma Civil Engg., B. E. (Civil Engg.), M. E. (WRM), PhD (Civil Engg)

Work Experience (in years)	Teaching	Research	Industry	others
	6years 6months	5years	7years	~~~

Area of Specialization	Water Resources Engineering

Courses taught at	**Diploma Level**	~
	Post Diploma Level	~
	Under Graduate Level	Building Construction, Building and Town Planning, Advance Surveying, Concrete Technology, Disaster Management, Railway, Bridge and Tunnel Engineering, Basics of Civil Engineering
	Post Graduate Level	Research Management Skills, Seminar
	Post Graduate Diploma Level	~

Research guidance	No. of papers published in National/International Journals/Conferences	10
	Master	3
	Ph.D.	~

Projects Carried out	NIL
Patents	NIL
Technology Transfer	NIL

Research Publications	**International Conference:** 1. K. N. Parikh, **M. P. Vashi**, M. J. Mehta, (2017), Green Building Concept for Smart City using Green Rating for Integrated Habitat Assessment (GRIHA), 4th International Conference on Industrial Engineering (ICIE-2017), 21-23 December, 2017. 2. Vivek Kapadia, Mehali Mehta and ManishaVashi, (2018), Sustainable Energy from Canteen waste: A case

Study, International Conference on Recent Trends in Engineering and Science (ICRTES-2018), 20-21 February, 2018.

3. Jayantilal Patel and **Manisha Desai**, (2018), Novel Stormwater Drainage System with Multiple Benefits for New Urban Area of Surat City (India), 107th International Conference (IRES-2018), Bangkok, Thailand, 11 -12 March, 2018.

4. **Manisha Desai** and Dr. J. N. Patel, (2018), Investigation of Groundwater Quality Parameters for Accomplish Demand of Bhimrad, Surat City (Gujarat-India), An International Conference on Geomatics in Civil Engineering (ICGCE-2018), IIT, Roorkee, ISBN : 978-81-937264-0-2, 05 – 6April, 2018.

5. Divya Lad, Dr.Mehali Mehta, **Prof. ManishaVashi**, (2018), Assessment of Surface Water Quality Using GIS: Case of Tapi Basin, Surat, Gujarat-India, An International Conference on Geomatics in Civil Engineering (ICGCE-2018), IIT, Roorkee, ISBN : 978-81-937264-0-2, 05 – 6April, 2018.

International Journals :

1. **Manisha Desai** and Dr. J. N. Patel, (2017), Access Future Groundwater Quality Improvement by Artificial Recharge, International Journal of Hydrological Science and Technology, Inderscience, (Manuscript ID: IJHST-172215).

2. Dr. J. N. Patel and **Manisha Desai**, (2018), Optimum Diameter of Groundwater Recharge Well Conjunction with Stormwater Drainage System, KSCE Journal of Civil Engineering, Springer, Volume 22, NO. 02, pp : 859-867, doi: 10.1007/s12205-017-3045-9.

3. **Manisha Desai** and Dr. J. N. Patel, (2018), Rainwater Drainage System Combined With Groundwater Revive for Improved Quality and Cost Savings, Pertanika, Journal of Science and Technology, ISSN: 0128-7680, Volume 26, No. 02, pp 763 – 784.

4. Divya A. Lad, Dr.Mehali J. Mehta, **Prof. Manisha P. Vashi,** (2018), Assessment of Water Pollution of Water Bodies Using GIS - A Review, International Journal of Trend in Scientific Research and Development (IJTSRD), ISSN: 2456-6470, Vol - 2 | Issue - 2, pp 1437-1441.

5. **Prof. Manisha P Vashi**, KajalAnantbhai Desai, (2018), A Review on Recent Advancement in Solid Waste Management Concept, Journal of Environmental Engineering and Studies, Volume 3, Issue 2, pp 1-8.

No. of Books published with details	No. of Books published	NIL
	Details of Books	NA

Name of the Teaching Staff	Prof. Zarana Hitesh Gandhi
Date of Birth	07/09/1990
Unique id	1-2925305146
Education Qualifications	B.E – Civil, M.E.- Town & Country Planning

Work Experience (in years)	Teaching	Research	Industry	others
	4.5 years			

Area of Specialization	Town & Country Planning

Courses taught at	Diploma Level	-
	Post Diploma Level	-
	Under Graduate Level	Building and Town Planning, Elements of Civil Engineering
	Post Graduate Level	Planning History and Theory, Urban Hosing, Regional Planning, Disaster Management, Infrastructure and Transportation Planning, Urban Governance and Development Management, Disaster Management, Legal Issues in Urban Planning
	Post Graduate Diploma Level	-

Research guidance	No. of papers published in National/International Journals/Conferences	Nil
	Master	2 (Co-guide)
	Ph.D.	-

Projects Carried out	-
Patents	-
Technology Transfer	-
Research Publications	-

No. of Books published with details	No. of Books published	-
	Details of Books	-

Name of the Teaching Staff	Prof. Palak Shudhanshu Shah

Date of Birth	20/09/1990

Unique id	1-3552348452

Education Qualifications	B.E. – Civil, M.E. – Town and Country Planning

Work Experience (in years)	Teaching	Research	Industry	others
	4 Years 2 Months	0	0	0

Area of Specialization	Town & Country Planning

Courses taught at	Diploma Level	Nil
	Post Diploma Level	Nil
	Under Graduate Level	Building in Town Planning, Basic Civil Engineering, Disaster Management
	Post Graduate Level	Transportation Planning, Infrastructure Planning, Metropolitan Planning, Tourism development, Regional Planning, Urban Governance, Politics and Public Policy Planning
	Post Graduate Diploma Level	Nil

Research guidance	No. of papers published in National/International Journals/Conferences	06
	Master	Nil
	Ph.D.	Nil

Projects Carried out	

Patents	Nil

Technology Transfer	Nil

Research Publications	Nil

No. of Books published with details	No. of Books published	Nil
	Details of Books	Nil

Name of the Teaching Staff	Prof. Chaitali Dineshbhai Patel
Date of Birth	17th May, 1993
Unique id	1-3552786553
Education Qualifications	M.E in Environmental Engineering (2017) B.E in Civil Engineering (2015)

Work Experience (in years)	Teaching	Research	Industry	others
	01 Year 7 months	NIL	NIL	NIL

Area of Specialization	Environmental Engineering

Courses taught at		
	Diploma Level	NIL
	Post Diploma Level	NIL
	Under Graduate Level	Elements of Civil Engineering, Mechanics of Solids, Disaster Management, Environmental Science, Concrete Technology, Basics of Civil Engineering
	Post Graduate Level	Solid & Hazardous Waste Management, Air & Noise Pollution, Constitution of India
	Post Graduate Diploma Level	NIL

Research guidance		
	No. of papers published in National/International Journals/Conferences	2
	Master	1
	Ph.D.	NA

Projects Carried out	Project carried out at Masters Level on " Daily Temporal Variations in Ground Level Ozone with respect to Meteorological Parameters and its Precursors at Athwa Traffic Intersection located at Surat City"
Patents	NIL
Technology Transfer	NIL
Research Publications	• Paper published on " Production of Biofuel from Wastepaper: A Review" in International Journal of Advance Engineering & Research Development (IJAERD), Volume 4 Issue 11, November 2017 • Paper published on "Ground Level Ozone Concentration at Major Traffic Intersection in Urban Area of Surat City" in International Journal of Emerging Technology and Advanced

	Engineering (IJETAE), (ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 7, Issue 10, October 2017	
No. of Books published with details	No. of Books published	NIL
	Details of Books	NA

Name of the Teaching Staff	Disha Jitendrabhai Pachchigar
Date of Birth	28/07/1994
Unique id	1-4496090504
Education Qualifications	Master of Urban and Regional Planning (April-2018) B.E. Civil (May-2016)

Work Experience (in years)	Teaching	Research	Industry	others
	07 Months	NIL	NIL	NIL

Area of Specialization	Urban Planning

Courses taught at	Diploma Level	NIL
	Post Diploma Level	NIL
	Under Graduate Level	Mechanics of solid, Building construction, Disaster management, Geotechnics and applied geology, Building and town planning, Construction management, Basic civil engineering
	Post Graduate Level	Urban Housing, Tourism planning and development
	Post Graduate Diploma Level	NIL

Research guidance	No. of papers published in National/International Journals/Conferences	NIL
	Master	NIL
	Ph.D.	NIL

Projects Carried out	Project carried out at master level: "Impact of Land use, Socio-economic profile and Metro rail on BRTS Ridership. A case of Surat".
	Project carried out at graduate level: "B-T (Bicycle-Transit) innovative integration: a case study of BRTS, Surat and VELIB, Paris".
Patents	NIL
Technology Transfer	NIL

Research Publications		NIL
No. of Books published with details	No. of Books published	NIL
	Details of Books	NIL

Name of the Teaching Staff	Prof. Siddharth J. Shah
Date of Birth	08/05/1991
Unique id	1-4496344922
Education Qualifications	• Completed Bachelor of Civil Engineering from Government Engineering College, Valsad in June 2014. • Completed Masters of Structural Engineering from Sardar Vallabhbhai Patel Institute of Technology, Vasad in June 2017.

Work Experience (in years)	Teaching	Research	Industry	others
	1 year and 7 month	NIL	1 year	NIL

Area of Specialization	Structural Engineering

Courses taught at	Diploma Level	NIL
	Post Diploma Level	NIL
	Under Graduate Level	Basic of Civil Engineering, Building Construction, Structural Analysis--I, Structural Analysis- II, Elementary Structural Design, Highway Engineering, Railway Bridge & Engineering
	Post Graduate Level	NIL
	Post Graduate Diploma Level	NIL

Research guidance	No. of papers published in National/International Journals/Conferences	
	Master	1
	Ph.D.	NIL

Projects Carried out	Projects carried out in masters "Comparative study of three legged and four legged lattice transmission line tower having angle section and closed hollow section"

Patents	NIL	
Technology Transfer	NIL	
Research Publications	NIL	
No. of Books published with details	No. of Books published	NIL
	Details of Books	NIL

Name of the Teaching Staff	Prof. Hiren B Patel
Date of Birth	07/11/1993
Unique id	1-4495917707
Education Qualifications	• Completed Bachelor of Civil Engineering from Shree Swami Aatmanand Saraswati Institute of Technology, Surat in June 2015. • Completed Masters of Technology in Structural Engineering from Dharmsinh Desai University, Nadiad in June 2018.

Work Experience (in years)	Teaching	Research	Industry	others
	0 year and 7 month	NIL	1 year	NIL

Area of Specialization	Structural Engineering	
Courses taught at	Diploma Level	NIL
	Post Diploma Level	NIL
	Under Graduate Level	Basics of Civil Engineering, Mechanics of Solids, Structural Analysis--I, Structural Analysis- II, Elementary Structural Design, Highway Engineering, Irrigation Engineering
	Post Graduate Level	NIL
	Post Graduate Diploma Level	NIL
Research guidance	No. of papers published in National/International Journals/Conferences	NIL
	Master	NIL
	Ph.D.	NIL

Projects Carried out	Projects carried out in masters "Finite Element Analysis and Design of Square and Circular Ground Resting Water tanks with Square and Circular Openings"	
Patents	NIL	
Technology Transfer	NIL	
Research Publications	NIL	
No. of Books published with details	No. of Books published	NIL
	Details of Books	NIL

Computer Engineering

Name of the Teaching Staff	Prof. (Dr.) Keyur Rana			
Date of Birth	01-Jun-1976			
Unique id	1-445144959			
Education Qualifications	B.E. (Computer Engg.), M.E. (Computer Engg.), Ph.D. (Computer Engg.)			
Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	21	10 (inclusive teaching)	0.5	---
Area of Specialization	Artificial Intelligence, Wireless Sensor Network,			

Courses taught at	Diploma Level	N.A.
	Post Diploma Level	N.A.
	Under Graduate Level	Data structure, Artificial Intelligence, OOP with C++
	Post Graduate Level	OOP using Java, Artificial Intelligence, Advance Data Structure
	Post Graduate Diploma Level	N.A.

Research guidance	No. of papers published in National/International Journals/Conferences	28
	Master	9
	Ph.D.	0

Projects Carried out	0
Patents	0
Technology Transfer	--
Research Publications	● Zinal Patel and Keyur Rana, "A Review on Time Synchronization Free Localization Schemes in Underwater Wireless Sensor Networks", *2nd International Conference on Trends in Electronics and Informatics (ICOEI)*, Tirunelveli, India, 2018, pp. 330-335 ● Aayushi Shah, Keyur Rana, "A Review on Supervised Machine Learning Text Categorization Approaches", IEEE International Conference on Circuits and Systems in Digital Enterprise Technology (ICCSDET), SAINTGITS College of Engineering,Kerala, INDIA, 21-22 Dec, 2018

No. of Books published with details	No. of Books published	0
	Details of Books	--

Name of the Teaching Staff	Prof. (Dr.) Pariza Kamboj
Date of Birth	29-09-1970
Unique id	1-770800186
Education Qualifications	B.E. (Computer Sc.), M.E. (Computer Sc. & Engg.), Ph.D. (Computer Engg.)

Work Experience (in years)	Teaching	Research	Industry	others
	22 yrs	14 yrs inclusive teaching	Nil	

Area of Specialization	Wireless Computer Networks, WSN, MANET, Big data Analytics

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Wireless Computer networks, Mobile Computing, Computer Networks, Data Communication & Computer Networks, Network Programming, Advance Java,

		Core Java, Object Oriented Programming (with Java), Object Oriented Programming and Systems, Object Oriented Analysis & Design with UML, Distributed Systems, Programming Languages, Computational Techniques, System Programming & System Administration, Computer System Software, Discrete Structures, Computational Techniques, Computer Organization, Computer Architecture, VC++, Fundamental of Computer Programming, Programming in C
	Post Graduate Level	Wireless Computer networks, Simulation, Advance Computer Programming, Data Science
	Post Graduate Diploma Level	
Research guidance	**No. of papers published in National/International Journals/Conferences**	42
	Master	14
	Ph.D.	2 completed, 2 pursuing
Projects Carried out	0	
Patents	0	
Technology Transfer	0	
Research Publications	Aayushi A. Shah, Pariza Kamboj, "A Review on Interference Mitigation Techniques in 3GPP Device to Device Communication" 3rd International Conference on New Frontiers of Engineering, Science, Management and Humanities (ICNFESMH-2018), ISBN: , 17th June 2018, pp. , MCCIA Pune, India.	
No. of Books published with details	**No. of Books published**	0
	Details of Books	--

Name of the Teaching Staff	Prof. (Dr.) Mayuri Mehta
Date of Birth	13th March, 1979

Unique id	1-445145303

Education Qualifications	Ph.D. (Computer Engineering), ME (Computer Engineering) BE (Computer Engineering)

Work Experience (in years)	Teaching	Research	Industry	others
	18 years	9 years	0 years	-

Area of Specialization	Computer Engineering

Courses taught at	Diploma Level	-
	Post Diploma Level	-
	Under Graduate Level	Python Programming, Design and Analysis of Algorithms
	Post Graduate Level	Data Science, Advance Algorithms
	Post Graduate Diploma Level	-

Research guidance	No. of papers published in National/International Journals/Conferences	24
	Master	8
	Ph.D.	1

Projects Carried out	0

Patents	0

Technology Transfer	0

Research Publications	N. Naik and M. A. Mehta, "Hand-over-Face Gesture based Facial Emotion Recognition using Deep Learning," Proceedings of the IEEE International Conference on Circuits and Systems in Digital Enterprise Technology, Kottayam, India, December 21-22, 2018 M. A. Mehta and S. A. Pote, "Text Detection from Scene Videos having Bluriness and Text of Different Sizes," Proceedings of the IEEE International Conference on Data Science and Analytics, Pune, India, December 1-2, 2018. N. N. Naik and M. A. Mehta, "Comprehensive and Comparative Study of Cloud Simulators," Proceedings of the IEEE International Conference on Data Science and Analytics, Pune, India, December 1-2, 2018.

No. of Books published with details	No. of Books published	0
	Details of Books	--

Name of the Teaching Staff	Prof. (Dr.) Dipali Kasat

Date of Birth	05/11/1975

Unique id	1-445257411

Education Qualifications	Ph.D. (Computer Science & Engineering) ME (Computer Science & Engineering-IT) BE (Computer Science & Engineering)

Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	17	10		

Area of Specialization	IPR,Computer Vision, Image/Video Processing, Information security, Information theory and coding, Information Retrieval, Data Mining.

Courses taught at	**Diploma Level**	NA
	Post Diploma Level	NA
	Under Graduate Level	OOP with C++, Theory of Computation,
	Post Graduate Level	Advance Operating system, Mathematical Foundations of Computer Science, Research Methodology- IPR
	Post Graduate Diploma Level	NA

Research guidance	**No. of papers published in National/International Journals/Conferences**	15
	Master	8
	Ph.D.	-

Projects Carried out	--

Patents	2 Patents filed for i) Research in Expert system on Autoimmune disease ii) Design of spectacles for handwriting analysis.

Technology Transfer	--

Research Publications	● F. Patel and D. Kasat, "Hashing Based Indexing Techniques for Content Based Image Retrieval : A

		Survey", IEEE Int. Conf. on Innovative Mechanisms for Ind. Appl. ICIMIA 2017. ● J. Boda, D. Kasat, "A Survey on Face Beautification Techniques without Cosmetic Surgery", Int. Journal of Multidisciplinary RESEARCH REVIEW, vol. 03, no. 11, pp. 516-21, 2018. ● D. Kasat, "CASH: Comparative Anatomical Study of Humans", Int. Journal of Research in Engg Appl. & Management, vol. 04, no. 7, pp. 582-87, 2018	
No. of Books published with details	**No. of Books published**	1	
	Details of Books	"MANAGEMENT INFORMATION SYSTEM", Publisher: Tech Max Publication Pune Publication year: 2006 ISBN : 81-8407-065-9	

Name of the Teaching Staff	Prof. Snehal Gandhi
Date of Birth	04-Dec-1981
Unique id	1-451801965
Education Qualifications	B.E(Computer), M.E(Computer)

Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	13 years	5 (inclusive Teaching)	-	-

Area of Specialization	Data Mining, Text Mining, Information Retrieval, Software Engineering, Object oriented Analysis and Design with UML

Courses taught at	**Diploma Level**	
	Post Diploma Level	
	Under Graduate Level	Database Management System, Data Mining and Business Intelligence, Software Engineering, Computer Programming and Utilization, Object Oriented Analysis and Design with UML, Computer Graphics, Visual Basic and Applications
	Post Graduate Level	Advanced Databases, Advanced Computer Graphics, Artificial Intelligence

	Post Graduate Diploma Level	
Research guidance	**No. of papers published in National/International Journals/Conferences**	12
	Master	6
	Ph.D.	N.A
Projects Carried out	-	
Patents	-	
Technology Transfer	-	
Research Publications	● Hybrid Approach for Context based Image Retrieval, Twinkal Patel, Snehal Gandhi,IEEE I2CT,Pune, 7-8 April,2018	
No. of Books published with details	**No. of Books published**	-
	Details of Books	N.A

Name of the Teaching Staff	Prof. Bintu Kadhiwala
Date of Birth	05/05/1981
Unique id	1-451801622
Education Qualifications	B.E. (Computer Engg.), M.E. (Computer Engg.), Ph.D. (pursuing)

Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	14 years 6 months	5 (inclusive teaching)	--	--

Area of Specialization	Privacy preserving data publishing, Information Security

Courses taught at	**Diploma Level**	N.A.
	Post Diploma Level	N.A.
	Under Graduate Level	Data Mining and Business Intelligence, Information Security, Theory of Computation, Object Oriented Programming with C++
	Post Graduate Level	Computer Algorithm, Research Skills

	Post Graduate Diploma Level	N.A.
Research guidance	**No. of papers published in National/International Journals/Conferences**	22
	Master	9
	Ph.D.	0
Projects Carried out	0	
Patents	0	
Technology Transfer	--	
Research Publications	• Published and Presented paper on **"Comparative Analysis of Cluster based Superpixel Segmentation Techniques"** at **"International Conference on Trends in Electronics and Informatics (ICOEI 2018)"**, by SCAD College of Engineering and Technology Cheranmahadevi, Tirunelveli, Tamil Nadu, INDIA, May 11 – 12, 2018. **IEEE Xplore ISBN:978-1-5386-3570-4**	
No. of Books published with details	**No. of Books published**	0
	Details of Books	--

Name of the Teaching Staff	Prof. Urmi Desai	
Date of Birth	09-March-1084	
Unique id	1-451940726	
Education Qualifications	M.E-(Computer Engineering) B.E-(Computer Engineering)	

Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	13 Years	5 years(inclusive teaching)		

Area of Specialization	wireless sensor network,information security,image processing	
Courses taught at	**Diploma Level**	N.A
	Post Diploma Level	N.A

	Under Graduate Level	Data Structure,Object Oriented Programing with C++, Information Network & Security, Web Technology,Computer Graphics, Object Oriented Programming With JAVA, Advanced Java Technology,Computer Programming & Utilization
	Post Graduate Level	Design & Language Processors, Fuzzy And Neural Network,Advanced Internet Technology, Image Processing
	Post Graduate Diploma Level	N.A

Research guidance	No. of papers published in National/International Journals/Conferences	14
	Master	
	Ph.D.	

Projects Carried out	0

Patents	0

Technology Transfer	0

Research Publications	● Krutika Patel and Urmi Desai, "Review on Abstractive Text Summarization Techniques for Biomedical Domain", *International Journal of Multidisciplinary-MAY-2018.*

No. of Books published with details	No. of Books published	--
	Details of Books	

Name of the Teaching Staff	Prof. Bhumika Shah

Date of Birth	07-Septembet-1981

Unique id	1-451940339

Education Qualifications	M.E-(Computer Engineering), B.E-(Computer Engineering)

Work Experience (in years)	Teaching	Research	Industry	others
	15	5 years (inclusive teaching)		

Area of Specialization	Compiler Design, Artificial Intelligence, Image Processing, NLP	
Courses taught at	Diploma Level	N.A.
	Post Diploma Level	N.A.
	Under Graduate Level	CPU,Data Structures, Object oriented programming with C++, Operating systems, Computer Graphics, system Programming, Compiler Design, Artificial Intelligence
	Post Graduate Level	Image Processing, Design of language processing, Advanced Computer Graphics
	Post Graduate Diploma Level	N.A.
Research guidance	No. of papers published in National/International Journals/Conferences	10
	Master	1
	Ph.D.	NA
Projects Carried out	0	
Patents	0	
Technology Transfer	0	
Research Publications	NA	
No. of Books published with details	No. of Books published	0
	Details of Books	NA

Name of the Teaching Staff	Prof. Jaydeep Gheewala			
Date of Birth	29-07-1983			
Unique id	1-1508129055			
Education Qualifications	BE- Information Technology, M.Tech - Computer			
Work Experience (in years)	Teaching	Research	Industry	others
	8 Years		2 Years 6 Months	
Area of Specialization	Information Security, WSN, Computer Networks			

Courses taught at	Diploma Level	NIL
	Post Diploma Level	NIL
	Under Graduate Level	05
	Post Graduate Level	03
	Post Graduate Diploma Level	NIL

Research guidance	No. of papers published in National/International Journals/Conferences	06
	Master	
	Ph.D.	

Projects Carried out	NIL

Patents	NIL

Technology Transfer	NIL

Research Publications	- Surati Alpesh, Gheewala Jaydeep "A Survey of Recommendation System" (ICIRCA 2018) - Sonali R. Gandhi, Jaydeep Gheewala "A survey on Recommendation System with collaborative filtering using Big Data", International Conference IACC 2015 (IEEE Banglore Section) - Vaishali Patel, Jaydeep Gheewala "An efficient session key management scheme for cluster based wireless sensor networks", International Conference IACC 2015 (IEEE Banglore Section) - Vaishali Patel, Jaydeep Gheewala "A survey on cluster based key management in wireless sensor network" 1st international Conference on CCEEDS, 230-233 - Pratik Sailor, Jaydeep Gheewala "Detection and Prevention of SQL Injection Attacks", IJEDR, 2660-2666 - Bhavesh Patel, Jaydeep Gheewala "Performance Analysis of Transmit Diversity and Spatial Multiplexing MIMO modes vs. SISO System in LTE-Downlink System", IJEDR, 2948-2952

No. of Books published with details	No. of Books published	NIL
	Details of Books	NIL

Name of the Teaching Staff	Prof. Bhumika Bhatt

Date of Birth	03-12-1978
Unique id	1-1508058624
Education Qualifications	B.E.(Information Technology) , M.E.(Computer Engg.)

Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	16 Year 6 Months	5 (Inclusive Teaching)	NIL	NIL

Area of Specialization	Operating System, Soft Computing , Database Management

Courses taught at	**Diploma Level**	N.A
	Post Diploma Level	N.A
	Under Graduate Level	Operating System, Microprocessor Interfacing,Database Management System, Computer Organization
	Post Graduate Level	Advance Database Management , Internet Technology , Soft Computing , System Programing
	Post Graduate Diploma Level	N.A

Research guidance	**No. of papers published in National/International Journals/Conferences**	12
	Master	6
	Ph.D.	N.A

Projects Carried out	NIL

Patents	NIL

Technology Transfer	NIL

Research Publications	- Bijal Desai , Prof. Bhumika Bhatt , "Vitiligo Detection Techniques : A Survey " , International Journal of Innvoations in Engineering & Technology (IJIET), volume 9, Issue 2 , December 2017. - Pankita Patel, Prof. Bhumika Bhatt ,"Human Body Posture Recohnisation, A Survey" , IEEE International Conference for Innovative Mechanisums for Industry Applications(ICIMIA-2017), Bengaluru, 23rd Feb,2017**. IEEE explore Digital Library *ISBN*: 978-1-4577-1235-7** - Riddhi Desai . Bhumika Bhatt , "Review of Classification Techniques of Foot Ulcer Detection", International Journal of Innovations and Advancement in Computer Science, Volume 4, Issue 11, November 2015 . ISSN:2347-8616. - Meha J. Patel , Bhumika bhatt, " a comparative study of object tracking techniques ", international journal of innovative research in science, engineering and

	technology, Volume 4 ,Issue 3, March 2015 . ISSN : 2319 – 8753 ● Patel Jigna and Bhatt Bhumika , "Detection of skin ulcer at early stages using Otsu's segmentation and Naïve Bayes Classifier", at ICAET 2014, International Conference on Advances in Engineering and Technology , IIT Roorkee , India , 23-24 March 2014. ISBN :978-1-63248-028-6 , DOI : 10.15224/ 978-1-63248-028-6-01-121 Seek Digital Library	

No. of Books published with details	No. of Books published	NIL
	Details of Books	NIL

Name of the Teaching Staff	Prof. Jayesh Chaudhary

Date of Birth	16/07/1984

Unique id	1-1508058630

Education Qualifications	M.E. Computer , B.E. Computer

Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	8 Years	5 Years (inclusive teaching)	-	-

Area of Specialization	Image Processing , Computer Networks , Wireless Communication

Courses taught at	**Diploma Level**	-
	Post Diploma Level	-
	Under Graduate Level	Database Management System, Computer Networks, Software Engineering,Web Application Development, Dotnet Technology, Parallel Processing, Information and Network Security
	Post Graduate Level	Wireless Communication, Wireless Sensor Networks
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	8
	Master	6
	Ph.D.	-
Projects Carried out	0	
Patents	-	
Technology Transfer	-	
Research Publications	- Jaymit Pandya, Jayesh Chaudhary , Dr. Tanmay D. Pawar, " a Area Detection of Object in a Closed Environment", National Conference KITES 2011 at U.V.Patel Engineering College. - Jayesh Chaudhary , Dr. Tanmay D. Pawar, " Vision Based Object Recognition from a Single Image in a Closed Environment", National Conference NCRTET 2011 at BVM Engineering College V.V.Nagar - Patel harshit , Jayesh Chaudhary , " A Study of Frequent Pattern Mining Methods"Research Journal of Computer and Information Technology Sciences , ISSN 2320 – 6527 , Vol. 2(1), 1-3, April (2014), - Patel harshit , Jayesh Chaudhary , " An Improved Approach for Mining Frequent Patterns"International Journal of Enhanced Research in Management & Computer Applications , ISSN: 2319-7471 , Vol. 3 Issue 4, April-2014, pp: (24-28). - Nainesh V. Nagekar, Prof. Jayesh Chaudhary,"Glimpse of Image Restoration Technique - Image Inpainting" Technical Research Organization India, ISSN(PRINT):2394-3408,(ONLINE):2394-3416,VOLUME-2,ISSUE-3,2015. - Hetal Patel , Prof. Jayesh Chaudhary," Prevention of energy drain attacks in Wireless Sensor Networks – A Survey." , International Research Journal of Engineering and Technology (IRJET) , e-ISSN : 2395-0056 p-ISSN 2395-0072 , Vol 3 Issue 4. - Nirali Patel, Prof. Jayesh Chaudhary , "Energy Efficient WMSN using Image Compression : A Survey" , International Conference on Innovative Mechanisms for Industry Applications (ICIMIA 2017) is being organized on 21-23, February 2017 by Dayananda Sagar College of Engineering , Bangalore , IEEE Xplore : ISBN: 978-1-5090-5960-7. - Rimpal Popat , Prof. Jayesh Chaudhary," A Survey on credit card fraud detection using machine learning " in international conference on Trends in electronics and informatics (ICOEI 2018) organized by SCAD college of engineering and technology at Tamilnadu during 11-12 may , 2018."	
No. of Books published with details	No. of Books published	-
	Details of Books	-

Name of the Teaching Staff	Prof. Rakesh Patel
Date of Birth	03/09/1981
Unique id	1-2686315563
Education Qualifications	BE(IT), MTECH(CE)

Work Experience (in years)	Teaching	Research	Industry	others
	14.25		0.25	

Area of Specialization	Data Mining, Web Mining, Information Security

Courses taught at	**Diploma Level**	NA
	Post Diploma Level	NA
	Under Graduate Level	Operating System, Object Oriented Programming using Java, Data Mining and Business Intelligence, Information & Network Security, Distributed System, Data Structure, C Programming
	Post Graduate Level	Computer Algorithm, Distributed Operating System, Data Mining and Data Warehousing, Object Oriented Programming with Java
	Post Graduate Diploma Level	NA

Research guidance	**No. of papers published in National/International Journals/Conferences**	08
	Master	04
	Ph.D.	-

Projects Carried out	-
Patents	-
Technology Transfer	-
Research Publications	● MACHINE LEARNING BASED TWITTER SPAM ACCOUNT DETECTION : A REVIEW, In the proceedings of 2nd International Conference on

	Computing Methodologies and Communication (ICCMC 2018), Erode, Tamilnadu, India, February 15-16, 2018.	
No. of Books published with details	**No. of Books published**	--
	Details of Books	--

Name of the Teaching Staff	Prof. Dhatri Pandya
Date of Birth	11/07/1984
Unique id	1-2686362462
Education Qualifications	B.E(Computer) M.E(Computer)

Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	11	4 years (inclusive teaching)		

Area of Specialization	Soft Computing,Natural Language Processing,Image Processing,Computer Vision

Courses taught at	**Diploma Level**	
	Post Diploma Level	
	Under Graduate Level	Computer Programming and Utilization,Software Engineering,Image Processing,OOP with Java,Advance Computing Technologies
	Post Graduate Level	Service Oriented Architecture ,Soft Computing,CLoud Computing,Advanced Internet Technology,Computer Vision
	Post Graduate Diploma Level	

Research guidance	**No. of papers published in National/International Journals/Conferences**	2
	Master	2
	Ph.D.	

Projects Carried out		

Patents	
Technology Transfer	
Research Publications	• Boda Jagruti,Prof.Dhatri Pandya,"A Survey on Image matting Techniques", proceedings of IEEE INTERNATIONAL CONFERENCE ON COMMUNICATION AND SIGNAL PROCESSING (ICCSP'18),Melmaruvathur, chennai,3 march-5 march 2018.(ISSN 1476-4687) • Boda Jagruti, Nidhi patel,Prof.Dhatri Pandya," A Survey on Web service Security Techniques", proceedings of 4th INTERNATIONAL CONFERENCE ON Computing Communication and Automation (ICCCA 2018), greater noida, new delhi, 14 december-15 december.(ISBN 978-1-5386-6947-1)

No. of Books published with details	No. of Books published	--
	Details of Books	--

Name of the Teaching Staff	Prof. Bhavesh Patel			
Date of Birth	09/03/1983			
Unique id	1-2686362303			
Education Qualifications	M.E CSE B.E. I.T			
Work Experience (in years)	Teaching	Research	Industry	others
	14			
Area of Specialization	Cloud Computing, Network Security, Cyber Security, Java, Advance Java, Data Compression, Network & Cyber Forensics, Service Oriented Computing, Wireless Sensor Network, Python Programming, Information Security, Object Oriented Designing, Computer Organization and Architecture			
Courses taught at	**Diploma Level**			
	Post Diploma Level			
	Under Graduate Level	Advance Java,Digital Electronics,OOP using Java,Python Programming,		
	Post Graduate Level	Cloud Computing, WSN		

	Post Graduate Diploma Level	
Research guidance	**No. of papers published in National/International Journals/Conferences**	10
	Master	4
	Ph.D.	
Projects Carried out	-	
Patents	-	
Technology Transfer	-	
Research Publications	● A Survey on Sequential Pattern Mining Algorithm for Web Log Pattern Data", in ICOEI 2018 organized by SCAD College of Engineering and Technology, Cheranmahadevi, Tirunelveli, TamilNadu, India durng 11-12 May 2018	
No. of Books published with details	**No. of Books published**	-
	Details of Books	

Name of the Teaching Staff	Prof. Vasundhara Uchhula			
Date of Birth	05-04-1984			
Unique id	1-3261746129			
Education Qualifications	M.E(Computer), B.E(Computer), Diploma(Computer)			
Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	10 Years			
Area of Specialization	Mobile Adhoc Networks, Data Mining(Recommendation Systems)			
Courses taught at	**Diploma Level**			
	Post Diploma Level			
	Under Graduate Level	Computer Programming & Utilization, Data Structures, Database Management Systems, System Programming, .NET Technology, Compiler Design		
	Post Graduate Level			

	Post Graduate Diploma Level	
Research guidance	**No. of papers published in National/International Journals/Conferences**	4
	Master	
	Ph.D.	
Projects Carried out	--	
Patents	--	
Technology Transfer	--	
Research Publications	National: ● Comparison of different Ant Colony Based Routing Algorithms", National Conference on New Advances in Core Computing and their Challenges ‚JNV University, Jodhpur, 20–21 March, 2010 International: ● "Comparison of different Ant Colony Based Routing Algorithms" –International Journal of Computer Applications ● "Ant Colony Based Novel Routing Protocol For MANET"– International Journal of Mobile and Ad-hoc Network ● "Comparative Analysis of Routing Protocols in MANET Based on Packet Delivery Ratio using NS2." (International Journal of Advanced Research in Computer Science and Software Engineering. November 2013) ● "Comparative Evaluation of AODV, DSDV and AOMDV based on end-to-end delay and routing overhead using Network Simulator".(International Journal of Computer Science and Information Technologies, March 2014)	
No. of Books published with details	**No. of Books published**	--
	Details of Books	

Name of the Teaching Staff	Prof. Jaydeep Barad		
Date of Birth	28-11-1984		

Unique id	1-3261746256			
Education Qualifications	B.E. (Information Technology.), M.E. (Computer Engg.), M.Sc. Bioinformatics			
Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	9 Year	1 Year (inclusive teaching)	-	-
Area of Specialization	Wireless Sensor Network, Information Security			
Courses taught at	**Diploma Level**	NA		
	Post Diploma Level	NA		
	Under Graduate Level	Computer Programming and Utilization, Object Oriented Programming with C++, Computer Network, Analysis and Design of Algorithm, Cyber Security		
	Post Graduate Level	Constitution of India		
	Post Graduate Diploma Level	NA		
Research guidance	**No. of papers published in National/International Journals/Conferences**	3		
	Master	--		
	Ph.D.	--		
Projects Carried out	--			
Patents	--			
Technology Transfer	--			
Research Publications	"Comparative study on dynamic key management techniques for cluster-based wireless sensor networks" - published in IJEDR journal 2014, ISSN: 2321- 9939 "Improvement of deterministic key management scheme for securing cluster-based sensor networks" - accepted in ICNSC conference, IEEE, Hyderabad, ISBN: 978-1-4799-3486-7. "DIST-LEACH: A deterministic key management scheme for securing cluster-based sensor networks" - accepted in ICAETR conference, IEEE, UP, ISSN: 2347-9337.			
No. of Books published with details	**No. of Books published**	00		
	Details of Books	--		

Name of the Teaching Staff	Prof. Fagun Vankawala

Date of Birth	14-10-1991

Unique id	1-3262206322

Education Qualifications	M.Tech (Computer Engineering) B.Tech (Information Technology)

Work Experience (in years)	Teaching	Research	Industry	others
	3.6	-	-	-

Area of Specialization	Image Processing

Courses taught at	**Diploma Level**	NA
	Post Diploma Level	NA
	Under Graduate Level	Computer Programming and Utilization, Object Oriented Programming using Java, Web Technology, Computer Network, Software Engineering, Mobile Computing and Wireless Communication
	Post Graduate Level	Image Processing Wireless sensor network Computer Vision
	Post Graduate Diploma Level	NA

Research guidance	**No. of papers published in National/International Journals/Conferences**	2
	Master	1
	Ph.D.	-

Projects Carried out	-

Patents	NIL

Technology Transfer	NIL

Research Publications	● "A Survey on Different Image Deblurring Techniques" International Journal of Computer Applications(IJCA), Volume 116 – No. 13, April 2015.

		• "Modified Landweber Algorithm for Deblur and Denoise Images" International Journal of Soft Computing and Engineering (IJSCE), Volume-5 Issue 6, January 2016.
No. of Books published with details	No. of Books published	0
	Details of Books	NA

Name of the Teaching Staff	Prof. Rachana S. Oza
Date of Birth	07/12/1988
Unique id	1-1504815507
Education Qualifications	M.Tech (Computer Engineering) B.E. (Computer Engineering)

Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	6.6 Years	-	-	-

Area of Specialization		
Courses taught at	**Diploma Level**	-
	Post Diploma Level	-
	Under Graduate Level	Analysis and Design of Algorithm Python Programming, Digital Electronics, Computer Organization, Computer Programming & Utilization Automata and Formal Languages, Object Oriented Programming with C++
	Post Graduate Level	Computer Algorithms
	Post Graduate Diploma Level	-
Research guidance	**No. of papers published in National/International Journals/Conferences**	07
	Master	01
	Ph.D.	-
Projects Carried out	-	
Patents	-	

Technology Transfer	-
Research Publications	● Shivangi Modi and Rachana Oza, "Review on Abstractive Text Summarization Techniques (ATST) for single and multiple documents", in proceedings of International Conference on Computing, Power and Communication Technologies (GUCON) 2018, ISBN : 978-1-5386-4491-1, Noida, 27-28th Sept 2018.
No. of Books published with details	**No. of Books published** -
	Details of Books -

Name of the Teaching Staff	Dr. Nirali Nanavati			
Date of Birth	11-Nov-1981			
Unique id	1-3262059225			
Education Qualifications	Ph.D. (Computer Engineering), M.S. (Computer Science, B.E. (Computer Engineering)			
Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	7	3	3	
Area of Specialization	Artificial Intelligence, Machine Learning, Information and Network Security, Database Management Systems, Object Oriented Programming using C++, Java.			
Courses taught at	**Diploma Level**	NA		
	Post Diploma Level	NA		
	Under Graduate Level	Artificial Intelligence, Machine Learning, Information and Network Security, Database Management Systems, Object Oriented Programming using C++		
	Post Graduate Level	Data Mining and Data Warehousing, English for Research Paper Writing		
	Post Graduate Diploma Level	NA		
Research guidance	**No. of papers published in National/International Journals/Conferences**	10		

Master	2	
Ph.D.	0	
Projects Carried out		
Patents	0	
Technology Transfer		
Research Publications	N. R. Nanavati, P. Lalwani, and D. C. Jinwala, "Novel Game Theoretic Privacy Preserving Construction for Rational and Malicious Secret Sharing Models for Collaborative Frequent Itemset Mining," International Journal of Knowledge Engineering and Data Mining, Inderscience, vol. 4, no. 3/4, pp 320-346, 2017, indexed at ACM DL, DBLP and INSPEC. M. Zinzuvadiya, V. Dhameliya, S. Vaghela, S. Patki, N. Nanavati, A. Bhavsar. "Co-Detection in Images using Saliency and Siamese Networks." Computer Vision and Image Processing (CVIP 2018), Jabalpur, India, 2018. J. N. Vanasiwala and N. R. Nanavati, "Multiple Sensitive Attributes Based Privacy Preserving Data Publishing," in International Conference on Computing Methodoligies and Communication (ICCMC), Erode, India, IEEE, feb 2018, indexed at IEEE Xplore.	
No. of Books published with details	**No. of Books published**	0
	Details of Books	-

Name of the Teaching Staff	Prof. Vandana Joshi		
Date of Birth	13-01-1984		
Unique id	1-3262265979		
Education Qualifications	B.E(IT), M.Tech(CSE)		
Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	10			
Area of Specialization	Data Mining, Big Data, NLP		
Courses taught at	**Diploma Level**		
	Post Diploma Level		

	Under Graduate Level	Computer Organization,Microprocessor and interfacing,Advance java,Digital Electronics, Computer programming ,Distributed system
	Post Graduate Level	Cloud computing, Distributed system
	Post Graduate Diploma Level	
Research guidance	No. of papers published in National/International Journals/Conferences	4
	Master	0
	Ph.D.	0
Projects Carried out	0	
Patents	0	
Technology Transfer	0	
Research Publications	--	
No. of Books published with details	No. of Books published	--
	Details of Books	--

Name of the Teaching Staff	Prof. Urvashi Mistry			
Date of Birth	22/03/1991			
Unique id	1-2340764232			
Education Qualifications	B.E (CSE), M.E (I.T)			
Work Experience (in years)	Teaching	Research	Industry	others
	4 years 6 months	0	0	0
Area of Specialization	Data Mining, Software Engineering, Operating systems, Soft computing			
Courses taught at	Diploma Level			
	Post Diploma Level			
	Under Graduate Level	Software Engineering, Computer Programing and Utilization, Operating Systems, Database management		

		Systems, Analysis and Design of Algorithms, Design Engineering (1A, 1B, 2A & 2B)
	Post Graduate Level	Cloud Computing, Research, Methodology, Data Mining, Computer Algorithms
	Post Graduate Diploma Level	
Research guidance	**No. of papers published in National/International Journals/Conferences**	1
	Master	0
	Ph.D.	0
Projects Carried out	0	
Patents	0	
Technology Transfer	--	
Research Publications	--	
No. of Books published with details	**No. of Books published**	0
	Details of Books	-

Name of the Teaching Staff	Prof. Karuna Patel			
Date of Birth	17/09/1987			
Unique id	1-2925226207			
Education Qualifications	M.E.(Computer Engineering) B.E.(Computer Science)			
Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	4	0	0	0
Area of Specialization				
Courses taught at	**Diploma Level**	-		
	Post Diploma Level	-		
	Under Graduate Level	Software Engineering, Database Management System,		

		System Programming, Computer Programming And Utilization. Computer Organization Design Engineering 1A/1B/2A/2B Programming for problem solving
	Post Graduate Level	Image Processing
	Post Graduate Diploma Level	-
Research guidance	**No. of papers published in National/International Journals/Conferences**	1
	Master	
	Ph.D.	
Projects Carried out	-	
Patents	-	
Technology Transfer	-	
Research Publications	--	
No. of Books published with details	**No. of Books published**	--
	Details of Books	--

Name of the Teaching Staff	Prof. Mitisha patel			
Date of Birth	28/7/1987			
Unique id	1-3268530761			
Education Qualifications	B.E. (Computer Science), M.Tech. (Computer Engineering)			
Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	4	0	0	0
Area of Specialization				
Courses taught at	**Diploma Level**	NA		
	Post Diploma Level	NA		
	Under Graduate Level	Computer Programming Utilization, Computer Organization, Theory of		

		Computation, Microprocessor & Interfacing, Software Engineering
	Post Graduate Level	Advance Operating System
	Post Graduate Diploma Level	
Research guidance	No. of papers published in National/International Journals/Conferences	--
	Master	--
	Ph.D.	--
Projects Carried out	--	
Patents	--	
Technology Transfer	--	
Research Publications	--	
No. of Books published with details	No. of Books published	--
	Details of Books	--

Name of the Teaching Staff	Prof. Mehul Khatiwala	
Date of Birth	18/08/1985	
Unique id	1-3552348511	
Education Qualifications	B.E. (Computer Engineering), M.E. (Information System Security)	

Work Experience (in years)	Teaching	Research	Industry	others
	4	0	2	0

Area of Specialization		
Courses taught at	Diploma Level	NA
	Post Diploma Level	NA
	Under Graduate Level	Mobile Computing & wireless communication, Operating System, Theory of Computation, Computer Organization, Design Engineering-

		1A/1B/2A/2B, Parallel Processing, Computer Programing and Utilization
	Post Graduate Level	NA
	Post Graduate Diploma Level	NA
Research guidance	**No. of papers published in National/International Journals/Conferences**	NA
	Master	NA
	Ph.D.	NA
Projects Carried out	--	
Patents	--	
Technology Transfer	--	
Research Publications	--	
No. of Books published with details	**No. of Books published**	--
	Details of Books	--

Name of the Teaching Staff	Prof. Pratik Sailor			
Date of Birth	16/05/1989			
Unique id	1-3553723963			
Education Qualifications	M.E (Computer Engineering), B.E (Information Technology)			
Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	3 Years 3 Months	0	1	0
Area of Specialization	Information Security			
Courses taught at	**Diploma Level**			
	Post Diploma Level			
	Under Graduate Level	- Artificial Intelligence - Compiler Design - Programming for Problem Solving		

		- Computer Programming and Utilization - Mobile Computing & Wireless Communication - Design Engineering-1A/1B/2A/2B	
	Post Graduate Level	- Artificial Intelligence - Advanced Data Structure - Soft Computing - Object Oriented Programming with JAVA - Internet Technology	
	Post Graduate Diploma Level		
Research guidance	**No. of papers published in National/International Journals/Conferences**	1	
	Master	1	
	Ph.D.		
Projects Carried out	--		
Patents	--		
Technology Transfer	--		
Research Publications	● Detection and Prevention of SQL Injection Attacks		
No. of Books published with details	**No. of Books published**	--	
	Details of Books	--	

Name of the Teaching Staff	Prof. Krishna Dalsaniya		
Date of Birth	15/07/1992		
Unique id	1-3553839745		
Education Qualifications	Ph.D (Pursuing), M.E (Computer Engineering), B.E (Information Technology)		
Work Experience (in years)	**Teaching**	**Research**	**Industry** others

	3 years 8 months	-	-	-
Area of Specialization	Computer Networks, Wireless Adhoc networks			

Courses taught at	**Diploma Level**	-
	Post Diploma Level	-
	Under Graduate Level	Computer programming and utilization, Database management system, Object oriented programming with c++, Compiler Design, Web technologies, programming for problem solving, Software engineering
	Post Graduate Level	Numerical methods, Mathematical foundation for computer science
	Post Graduate Diploma Level	-

Research guidance	**No. of papers published in National/International Journals/Conferences**	5
	Master	2 students (As a co-guide at MEFGI, Rajkot)
	Ph.D.	-

Projects Carried out	-

Patents	-

Technology Transfer	

Research Publications	"Numerical analysis of chen's authentication scheme for multi-server environment" ,IJCES, vol. 6, Issue 4. ISSN: 2250:3439. "Survey on Cognitive Radio Routing Protocols" ,IJCESR,Vol III, Issue II, February 2016. "An Efficient Cluster Management Mechanism for MANETs" In IEEE International Conference on Computational Intelligence and Computing Research (ICCIC 2014), **IEEE Xplore**, ISBN: 978-1-4799-3975-6. "A Survey of Cluster Management techniques in MANETs", IJCAES, Vol. IV, Issue III, Dec. 2014. "WiMAX Service Classes and CAC Mechanisms: A brief Introduction", IJCA, Vol. II, May 2014. "A survey on research challenges and scope in information centric networks" in 3rd National Conference on COMMUNICATION, CLOUD, AND BIG DATA (CCB), Springer-Lecture notes in networks and systems, November 2018. (Accepted, to be published)

No. of Books published with details	No. of Books published	1
	Details of Books	"A survey on multi-server remote user authentication scheme environment", CreateSpace, An Amazon Company. ISBN : 978-1540620491.

Name of the Teaching Staff	Prof. Khyati Bhandari			
Date of Birth	13/02/1991			
Unique id	1-3559170904			
Education Qualifications	M.E.(Computer Engineering) B.E.(Computer Science and Engineering)			
Work Experience (in years)	Teaching	Research	Industry	others
	3 years			
Area of Specialization	Database Management System, Data Mining, Compiler Design			
Courses taught at	Diploma Level	-		
	Post Diploma Level	-		
	Under Graduate Level	Database management system,System Programming, Compiler Design, Computer Network, Computer Graphics, Computer Organisation		
	Post Graduate Level	-		
	Post Graduate Diploma Level	-		
Research guidance	No. of papers published in National/International Journals/Conferences	2		
	Master	-		
	Ph.D.	-		
Projects Carried out	-			
Patents	-			

Technology Transfer	-
Research Publications	● "A study of Association rule hiding methods" in 2013 IJCA(International Journal of computer Application) ISBN-0975-8887 ● "Efficient Hiding of Sensitive Association Rules in Incremental Datasets " in 2014 Academic Science ISBN-2347-8616
No. of Books published with details	**No. of Books published**	-
	Details of Books	-

Name of the Teaching Staff	Prof. Nitya Komalan
Date of Birth	18-03-1989
Unique id	1-3553839773
Education Qualifications	M.E. (Computer Engineering) B.E. (Information Technology)

Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	1.5 years		3 years	

Area of Specialization	Wireless Sensor Network

Courses taught at	**Diploma Level**	N.A.
	Post Diploma Level	N.A.
	Under Graduate Level	Computer Programming & Utilization(CPU) Advanced Java System Programming Design Engineering Programming for Problem Solving
	Post Graduate Level	Distributed Computing & Application Constitution of India
	Post Graduate Diploma Level	N.A.

Research guidance	**No. of papers published in National/International Journals/Conferences**	4
	Master	0

	Ph.D.	0
Projects Carried out	0	
Patents	0	
Technology Transfer	-	
Research Publications	• Nitya Komalan and Aarti Chauhan, "Locating Real Time Faults in Modern Metro Train Tracks using Wireless Sensor Network", Smart and Innovative Trends in Next Generation Computing Technologies (NGCT 2017), Communications in Computer and Information Science, vol 828. Springer. • Nitya Komalan and Aarti Chauhan, "A Survey of Cluster based Routing, Data Aggregation and Fault Detection Techniques for Locating Real Time Faults in Modern Metro Train Tracks using Wireless Sensor Network", IEEE-International Conference on Innovative Mechanisms for Industry Applications (ICIMIA-2017), Dayananda Sagar College of Engineering, Bengaluru, February 21-23, 2017. • Nitya Komalan and Nirali Patel, "Application of Fuzzy Logic for Clustering in Wireless Sensor Network", National Conference on Sustainable Computing and Information Technology (SCIT-2017), SCET, Surat, March 25-26, 2017. • Nitya Komalan, "A Survey of Computation Offloading in Mobile Cloud Computing", National Conference on Recent Trends in Computer & Communication Technology (RTCCT-2016), SCET, Surat, May 10-11, 2016.	

No. of Books published with details	**No. of Books published**	0
	Details of Books	-

Electrical Engineering

Name of the Teaching Staff	Dr. Hiren H. Patel		
Date of Birth	26-05-1974		
Unique id	1-419619625		
Education Qualifications	B.E. (Electrical), MBA (CIS), M.Tech (Energy Systems, IIT Bombay) PhD (Electrical Engg., IIT Bombay)		
Work Experience (in years)	Teaching	Research	Industry	others

		22	10 (post PhD)	0.5	
Area of Specialization	Electrical Engineering				
Courses taught at	Diploma Level				
	Post Diploma Level				
	Under Graduate Level	AC Machines Energy Conservation and Audit			
	Post Graduate Level	High Power Converters Modelling and Analysis of Power Converters			
	Post Graduate Diploma Level				
Research guidance	No. of papers published in National/International Journals/Conferences	National Conference : 1 National Journal : International Conference : 3 International Journal : 4			
	Master	15			
	Ph.D.	01 + 03 (pursuing)			
Projects Carried out	- Awarded with a Research Grant of Rs. 4,10,000/- from GUJCOST under Minor Research Project for project entitled "Development of an efficient power electronic converter to act as a fuel cell emulator". Duration: July 2016-2018. - Awarded with a Research Grant of Rs. 25000/- from GUJCOST under SCITECH for project entitled "Micro-controller based maximum power point tracking for Photovoltaic System". Sanctioned via letter GUJCOST/SSP/06- 07/1396 dated 19/03/07.				
Patents	NA				
Technology Transfer	NA				
Research Publications	Journal Paper 1. Neha Shah, Hiren H. Patel, "Maximizing Power Output of a Partially Shaded Total-Cross-Tied Photovoltaic array" in Transcations on Environment and Electrical Engineering Journal vol.2, no.8, p.p. 10-18, 2017. 2. K.R. Patil, Hiren H. Patel, "Modified Dual Second-order Generalized Integrator FLL for Frequency Estimation Under Various Grid Abnormalities", Transactions on Environment and Electrical Engineering Journal vol.1, no.4, p.p. 10-18, 2017. 3. U.N. Patel, Hiren H. Patel, "Power Management Strategy for Photovoltaic based Distributed Generators Operating in Parallel", Transactions on Environment and Electrical Engineering Journal vol.1, no.4, p.p. 1-9, 2017. 4. K.R. Patil, Hiren H. Patel, "Modified SOGI based shunt active power filter to tackle various grid voltage abnormalities", International Journal on Engineering Science and Technology, vol. 20, no. 5, pp. 1466-1474, Oct. 2017. Conference Papers				

	1. K.R. Patil and H. Patel, "Performance of shunt active filter with DSOGI-FLL under distorted grid voltage", 2nd International Conference on Electrical Computer and Communication Technologies (ICECCT), Coimbatore, India, 22-24 Feb., 2017. 2. Neha Shah, Hiren H. Patel, "Evaluating the Output Power of a PV System under Uniform and Non-uniform Irradiance" in 16th International Conference on Power and Embedded Drive Control (ICPEDC-2017), Chennai, India, pp. 128-133, 16-18 March, 2017. 3. Payal Rana, Neha Shah, Hiren Patel, "Enhancement of low voltage ride through capability of photovolatic inverter" in National Conference on recent Advances in Automation Control and Power Engineering (RAACPE-2017), SCET, Surat, March-2017. 4. Amit Kulkarni, Neha Shah, Hiren Patel, "Performance of CHB-MLI based Grid-Connected PV System under Uniform and Non-uniform Environmental Conditions" in International Conference on Recent Trends in Energy Storage and Hydrogen Energy, Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal, April 2017.

No. of Books published with details	No. of Books published	~NIL~
	Details of Books	NA

Name of the Teaching Staff	Shabbir Saleh Bohra		
Date of Birth	02/01/1976		
Unique id	1-419927517		
Education Qualifications	B.E. (Electrical), M.Tech.(Energy Systems Engg.),Ph.D.		
Work Experience (in years)	Teaching	Research	Industry	others
	18	3 Post PhD		
Area of Specialization	Energy Systems, Solar Photovoltaics, Power Quality, Electrical Drives, Renewable Energy		
Courses taught at	Diploma Level		
	Post Diploma Level		
	Under Graduate Level	Energy Conservation & Audit, Power Quality Management, Electrical Machines	
	Post Graduate Level	Electrical Drives, Application of Power Electronics to Power Systems, Power Quality Management, Static Var Controller and Harmonic Filters,	

	Post Graduate Diploma Level	
Research guidance	No. of papers published in National/International Journals/Conferences	2
	Master	9
	Ph.D.	1(Supervising)
Projects Carried out	Not Applicable	
Patents	Not Applicable	
Technology Transfer	Not Applicable	
Research Publications	**International Publications** 1. Jigar D. Mahyavanshi, **Shabbir S. Bohra**, "Design and Analysis of Solar PV Integrated Micro-inverter Under Various Environmental Conditions", *International Conference on Telecommunication, Power Analysis and Computing Techniques (ICTPACT-2017),*6-8th April, 2017, Chennai, India. 2. *Manali C. Kanadhiya,* **Shabbir S. Bohra***, "Simulation Analysis of Active Programmable Electronic AC Load", IEEE's 3rd International Conference for Convergence in Technology(I2CT), 7-8th April,2018, Pune, India*	
No. of Books published with details	**No. of Books published**	Not Applicable
	Details of Books	Not Applicable

Name of the Teaching Staff	Prof. Aditi R Hajari		
Date of Birth	04-03-1968		
Unique id	1-419619621		
Education Qualifications	M.S (Electrical Engg)		
Work Experience (in years)	Teaching	Research	Industry	others
	26			
Area of Specialization	Control Systems Power Electronics & Converters			

Courses taught at	Diploma Level	Nil
	Post Diploma Level	Nil
	Under Graduate Level	Basic Electrical Engg., Control Systems and Field Theory
	Post Graduate Level	Nil
	Post Graduate Diploma Level	Nil
Research guidance	No. of papers published in National/International Journals/Conferences	Nil
	Master	Nil
	Ph.D.	Nil
Projects Carried out	Dual Input DC – DC converter for Vehicular applications	
Patents	Nil	
Technology Transfer	Nil	
Research Publications	NA	
No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Name of the Teaching Staff	Dr Sandhya Rathore			
Date of Birth	30-08-1972			
Unique id	1-419927491			
Education Qualifications	PhD(Electrical) , M.E. (Electrical) B.E. (Electrical)			
Work Experience (in years)	Teaching	Research	Industry	Work Experience (in years)
	23	na	na	
Area of Specialization	Electrical Machines, operation , control design and analysis, Stochastic and deterministic Control Systems and its applications			
Courses taught at	Diploma Level			
	Post Diploma Level			
	Under Graduate Level	Control System Engg, Field Theory		

	Post Graduate Level	Electric Drives, Machine modelling and analysis, Linear and nn linear control, Digital control system and its applications
	Post Graduate Diploma Level	
Research guidance	No. of papers published in National/International Journals/Conferences	2
	Master	
	Ph.D.	
Projects Carried out		
Patents		
Technology Transfer		
Research Publications	• Sandhya Rathore, and Shambhu N. Sharma, Consensus on Itô vs Stratonovich dilemma revisited, The Fifth IFAC International Conference on Advances in Control and Optimization of Dynamical Systems, Dr. APJ Abdul Kalaam Missile Complex, Hyderabad, Feb 18-22, 2018. • Vidit Desai, Sandhya Rathore,"Harmonic detection using Kalman Filter" IEEE ICEEOT, Chennai, 3-5th March 2015.	
No. of Books published with details	No. of Books published	
	Details of Books	NA

Name of the Teaching Staff	Dr. Nilesh Vasantlal Shah		
Date of Birth	13-05-1976		
Unique id	1-419927495		
Education Qualifications	PhD, M.E. (Microprocessor Systems and Applications), B.E. (Electrical Engineering)		
Work Experience (in years)	Teaching	Research	Industry	others
	21 years	7 years		

Area of Specialization	Microprocessor Systems and Applications, Power Electronic Converters and Applications, Renewable Energy (PV Systems)	
Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Microprocessor and Microcontroller Interfacing, Power Electronics-II, Advanced Power Electronics
	Post Graduate Level	Power Electronics Converters and Applications, Advanced Power Converters
	Post Graduate Diploma Level	
Research guidance	No. of papers published in National/International Journals/Conferences	4
	Master	10
	Ph.D.	
Projects Carried out	NA	
Patents	NA	
Technology Transfer	NA	
Research Publications	Journal Publications 1) Tushar Maradiya, Nilesh Shah, "Modeling and Control of Cascaded Two-Level Inverter Based Single-Stage Grid Connected Photovoltaic System", IJEECS - INTERNATIONAL JOURNAL OF ELECTRICAL, ELECTRONICS AND COMPUTER SYSTEMS, vol. 7, Issue 4, April 2018, ISSN 2348-117X II. Conference Presentations 1) Mayur K. Degadawala, **N. V. Shah**, "Comparative Analysis of Three-Phase Transformerless Photovoltaic Inverter For Leakage Current Reduction", IEEE 2017 International Conference on Telecommunication, Power Analysis and Computing Techniques, 6-8 April-2017, Chennai. 2) Tushar Moradiya, Nilesh Shah, "Modeling and Control of Cascaded Two-Level Inverter Based Single-Stage Grid Connected Photovoltaic System", 2nd International Conference on Advancements in Engineering, Applied Science and Management (ICAEASM-2018), Chandigarh, India, 15th April 2018 3) Nilesh Shah, "Multilevel Inverter Based Single-Stage Grid Connected Photovoltaic System using Cascaded Two-Level Inverter", 8th International Conference on Power Electronics, Drives and Energy Systems (PEDES), IIT Madras, Chennai, 18-21 Dec-2018.	
No. of Books published with details	No. of Books published	NA
	Details of Books	

Name of the Teaching Staff	Sharad Babubhai Patel
Date of Birth	04/10/1971
Unique id	1-419927551
Education Qualifications	B.E.Electical Post Diploma in Industrial Safety.

Work Experience (in years)	Teaching	Research	Industry	others
	21.5		0.5	

Area of Specialization	High Voltage Engineering

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	(1) Switch Gear & Protection (2) Testing and Commissioning of Electrical Equipments (3) Elements of Electrical Design
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	
	Master	
	Ph.D.	

Projects Carried out	NA
Patents	NA
Technology Transfer	NA
Research Publications	NA

No. of Books published with details	No. of Books published	
	Details of Books	NA

Name of the Teaching Staff	Prof. Shabbir Ghadiali		
Date of Birth	15/8/1999		
Unique id	1-419927513		
Education Qualifications	B.E. (Electrical), M.Tech.(IE)		
Work Experience (in years)	Teaching	Research	Industry	others
	19		3.5	
Area of Specialization	Power Systems, Electrical Machines		

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Power Systems
	Post Graduate Level	Power Systems Operation and Control
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	
	Master	7
	Ph.D.	

Projects Carried out	NA
Patents	NA
Technology Transfer	NA
Research Publications	NA

No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Name of the Teaching Staff	Prof. Hitesh K Mehta			
Date of Birth	02/04/1974			
Unique id	1-419927555			
Education Qualifications	M.Tech (Power electronics and Drives, Electrical Engineering) Ph.D (Perusing)			
Work Experience (in years)	Teaching	Research	Industry	Work Experience (in years)
	19.5 years			
Area of Specialization	Application of Power Electronics in Renewable Energy			
Courses taught at				

Courses taught at	No. of papers published in National/International Journals/Conferences	
	Master	NA
	Ph.D.	03
	Post Graduate Diploma Level	NA
Research guidance	No. of papers published in National/International Journals/Conferences	
	Master	NA
	Ph.D.	03
Projects Carried out	NA	

Name of the Teaching Staff	Dr. Hardik P. Desai			
Date of Birth	31/07/1981			
Unique id	1-421824801			
Education Qualifications	B.E., M.E., Ph.D.			
Work Experience (in years)	Teaching	Research	Industry	Work Experience (in years)
	14	5(post PhD)	~	

Area of Specialization	Power Electronics Applications, Industrial Instrumentation, Photovoltaic System, Fuel Cell, power quality	
Courses taught at	Diploma Level	~
	Post Diploma Level	~
	Under Graduate Level	Industrial Instrumentation, Energy Conservation and Audit, APS-I, APE-II, EMMI
	Post Graduate Level	Power Electronics, Power Electronics Converters and Applications, Application of Power Electronics to Power System, Static VAR Controller and Harmonic Filter
	Post Graduate Diploma Level	~
Research guidance	No. of papers published in National/International Journals/Conferences	11
	Master	9
	Ph.D.	~
Projects Carried out	Project title: Development of an efficient power electronic converter to act as fuel cell emulator, funding agency: GUJCOST, Grant Sanctioned:Rs. 4,10,000, Duration :2016-18.	
Patents	NA	
Technology Transfer	NA	
Research Publications	• Jenish J. Patel, Hiren H. Patel, Hardik P. Desai., Evaluation of Different Strategies for Controlling the DC/DC converter as a PEM fuel cell Emulator, International Journal of Electronics, Electrical and Computational System pp 222-230, April 2018 • Aditya A Patel, Hardik P Desai and Hiren H Patel, Evaluation of various DC-DC converters for fuel cell emulator design, International Conference on Recent Trends in Energy Storage and Hydrogen Energy, Rajiv Gandhi Proudyogiki Vishwa Vidyalaya, Bhopal April 2017.	
No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Name of the Teaching Staff	Urvi Tejas Jariwala
Date of Birth	16/03/1978
Unique id	1-422790611
Education Qualifications	B.E., M. Tech.

Work Experience (in years)	Teaching	Research	Industry	others
	17		2.5	

Area of Specialization	Power Electronics

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Power Electronics, Electrical Drives, Control Systems
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	
	Master	Yes
	Ph.D.	

Projects Carried out	- Bi-directional DC-DC Converters -Multipulse Converter -24 pulse converter - Development of hybrid multilevel inverter topology with reduced device count using smart control technique

Patents	NA
Technology Transfer	NA
Research Publications	NA

No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Name of the Teaching Staff	Prof. Naman B. Bhatt
Date of Birth	22nd March, 1984
Unique id	1-3559082474
Education Qualifications	B.E. (Electrical) M.E. (Electrical)

Work Experience (in years)	Teaching	Research	Industry	Work Experience (in years)
	12			

Area of Specialization	Electrical Power System

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Electrical power System I Electrical power System II Power System Operation & Control
	Post Graduate Level	Power System Analysis
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	08
	Master	06
	Ph.D.	NA

Projects Carried out	NA
Patents	NA
Technology Transfer	NA
Research Publications	NA

No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Name of the Teaching Staff	Prof. Dimple Tejas Bhanabhagvanwala
Date of Birth	10/10/82
Unique id	1-422790615
Education Qualifications	BE-Electrical ME-Microprocessor Systems and Applications

Work Experience (in years)	Teaching	Research	Industry	Work Experience (in years)
	10		2.5	

Area of Specialization	Designing and programming of Embedded system

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	• Microprocessor and Interfacing • Microcontroller • Circuits and Networks • Control System • Signals and Systems • Elements of electrical Engineering • Electrical machines • Power Electronics
	Post Graduate Level	Digital Signal processing
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	1
	Master	
	Ph.D.	

Projects Carried out	NA
Patents	NA
Technology Transfer	NA
Research Publications	NA

No. of Books published	NA

No. of Books published with details	Details of Books	NA

Name of the Teaching Staff	Prof. Bijal Mehta		
Date of Birth	01-07-2009		
Unique id	1-422790619		
Education Qualifications	B. E., SVNIT, M.Tech.(Industrial Electronics)		
Work Experience (in years)	Teaching	Research	Industry	others
	8			
Area of Specialization	Electrical Machine, Power Electronics, Advanced Electrical Machines, Electrical Machine Modelling and Analysis		

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	- Electrical machine-I - Electrical Machines - Electrical and Electronic Measurement - Elements of electrical Engineering - DC Machines And Transformer - AC Machines
	Post Graduate Level	Advanced Electrical Machines
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	
	Master	
	Ph.D.	

Projects Carried out	NA
Patents	NA
Technology Transfer	NA
Research Publications	NA
	No. of Books published

No. of Books published with details	Details of Books	NA

Name of the Teaching Staff	Rajeshkumar M Prasad
Date of Birth	29/07/1984
Unique id	1-422743961
Education Qualifications	M.Tech. and PhD (Pursuing)

Work Experience (in years)	Teaching	Research	Industry	Work Experience (in years)
	8.5	2.5	2	

Area of Specialization	Electrical Machine, Power Electronics, Advanced Electrical Machines, Wind Power Generation, Electrical Drives

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Electrical Machine, Power Electronics, Electrical Drives, Basic Electrical Engineering
	Post Graduate Level	Advanced Electrical Machines
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	02
	Master	7
	Ph.D.	Nil

Projects Carried out	Nil
Patents	Nil
Technology Transfer	Nil

Research Publications	R. M. Prasad and M. A. Mulla, "A novel position-sensorless algorithm for field-oriented control of dfig with reduced current sensors," IEEE Trans. Sustain. Energy, pp. 1–1, 2018. doi: 10.1109/TSTE.2018.2860993 R. M. Prasad and M. A. Mulla, "Position-sensorless algorithm for stator-flux-oriented control of single VSC-based DFIG," 2017 7th International Conference on Power Systems (ICPS), Pune, 2017, pp. 539-544.doi: 10.1109/ICPES.2017.8387352

No. of Books published with details	No. of Books published	Nil
	Details of Books	NA
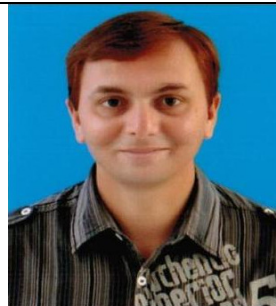
Name of the Teaching Staff	Prof. Krishna Vakharia

Date of Birth	15/10/1984

Unique id	1-422743965

Education Qualifications	M.Tech Electrical

Work Experience (in years)	Teaching	Research	Industry	others
	9 Years+2 Years	~	~	~

Area of Specialization	Power Electronics and Drives

Courses taught at	Diploma Level	Electrical machine at SVNIT and in MS University in PDDC course
	Post Diploma Level	~
	Under Graduate Level	Elements of Electrical Engineering; Electrical Power Generation; Advanced Power Electronic-II, Advanced Power System-I, Electrical Power utilization, Electrical Machine, Switchgear, Microprocessor and Interfacing, Utilization of Electrical energy and Traction; Electrical and Electronic workshop
	Post Graduate Level	Electrical Drives and Traction,
	Post Graduate Diploma Level	~

Research guidance	No. of papers published in National/International Journals/Conferences	01
	Master	01
	Ph.D.	~

Projects Carried out	UG and PG level projects

Patents	NA

Technology Transfer	NA

Research Publications	• Dhimar Ravi M, Krishna Vakharia, "A Comparative Study of Unity Power factor Active Front End PWM Regenerative

	Converter Using Different Schemes", International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC), Jan-2018.	
No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Name of the Teaching Staff	PATIL KALPESH ROHITBHAI
Date of Birth	13/12/1981
Unique id	1-1508180160
Education Qualifications	BE-Electrical Engineering, M.Tech in Electrical Engineering, Ph.D in Electrical Engineering

Work Experience (in years)	Teaching	Research	Industry	Work Experience (in years)
	15	00	00	

Area of Specialization	Industrial Electronics, Power Quality, Power Electronics

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	1) High Voltage Engineering 2) Advance Power System-II 3) Circuits & Networks. 4) Elements of Electrical Engineering. 5) Interconnected Power System
	Post Graduate Level	1) Modern Control System. Digital Control & Its Application
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	2
	Master	4

	Ph.D.	0
Projects Carried out	NA	
Patents	0	
Technology Transfer	NA	
Research Publications	• K.R. Patil and H.H. Patel, "Performance of Shunt Active Power Filter with DSOGI-FLL Under Distorted Grid Voltage," in Second IEEE International Conference on Electrical, Computer and Communication Technologies (IEEE ICECCT 2017), February 2017. • K.R. Patil and H.H. Patel, "Modified SOGI based Shunt Active Power Filter to Tackle Various Grid Voltage Abnormalities," in **Accepted** for publication, Engineering Science and Technology, an International Journal(Elsevier), 2017	
No. of Books published with details	No. of Books published	Nil
	Details of Books	0

Name of the Teaching Staff	Prof. Hemin D. Motiwala			
Date of Birth	20/08/1979			
Unique id	1-1508180800			
Education Qualifications	M.Tech., B.E. Electrical, Diploma in Electrical Engineering(DEE)			
Work Experience (in years)	Teaching	Research	Industry	others
	14.5 Years	--	--	--
Area of Specialization	Industrial Electronics			
Courses taught at	Diploma Level	--		
	Post Diploma Level	--		
	Under Graduate Level	Elements of Electrical Engineering, Electrical Machines, Electrical Power, Electrical & Electronics Measurements & Instruments, Field Theory, Elements of Electrical Design, Switchgear, Design of DC Machines & Transformer, Design of		

		AC Machines, Power Systems, HVDC, Power Electronics, etc.
	Post Graduate Level	~~
	Post Graduate Diploma Level	~~
Research guidance	No. of papers published in National/International Journals/Conferences	6
	Master	6
	Ph.D.	~~
Projects Carried out	NA	
Patents	NA	
Technology Transfer	NA	
Research Publications	• Control Strategy for Three Phase Grid Connected Solar PV System Using Two-level Inverter, 2nd International Conference on Advancement in Engineering, Applied Science and Management (ICAEASM-2018), 15th April, 2018, Punjab University Campus, Chandigarh, India. • Control of Buck and Boost Converter Based Submodule Integrated PV System for Single-phase Applications, International Conference on Telecommunication, Power analysis & Computing Techniques (ICTPACT), 4-6th April, 2017, Chennai, India. • Control of parallel connected bi-directional AC-DC converter, International Journal of Advanced Engineering & Research, 2348-4470, June 2015. • Effective Control Strategy to enhance Power Quality Improvement using Dynamic Voltage Restorer, International Journal of Engineering Development and Research (IJEDR), ISSN: 2321-9939, Vol.2, Issue 2, pp.2241-2247, June 2014. • Hardware Implementation of Dynamic Voltage Restorer using Microcontroller, International Congress of Environmental Research (ICER), T-182, 2011. • Simulation of Two Area Four Machine System with STATCOM under Voltage Sag, International Congress of Environmental Research(ICER), T-184, 2011.	
No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Name of the Teaching Staff	Pandya Hardik Dilipbhai		
Date of Birth	16/01/1987		

Unique id	1-2686362879	
Education Qualifications	B.E. (Electrical) , M.E.(Electrical)	

Work Experience (in years)	Teaching	Research	Industry	Work Experience (in years)
	6 years			

Area of Specialization	Power Electronics	

Courses taught at	Diploma Level		
	Post Diploma Level		
	Under Graduate Level	3110005	Basic Electrical Engineering
		2150908	Electrical Power System – I
		2160908	Electrical Power system – II
		2110005	Elements of Electrical Engineering
		2150002	Institute Elective - Cyber Security
		2150903	Power Electronics – I
		180903	Power System Practice And Design
		2180903	POWER SYSTEM PLANNING AND DESIGN
	Post Graduate Level		
	Post Graduate Diploma Level		

Research guidance	No. of papers published in National/International Journals/Conferences	1
	Master	Three
	Ph.D.	
Projects Carried out	NA	
Patents	NA	
Technology Transfer	NA	
Research Publications	• Pritesh U. Patel, Hardik D. Pandya, "CONTROL AND GRID SYNCHRONIZATION OF FUEL CELL BASED INVERTER USING MATLAB" in **2nd International conference** on Electronics,	

	Communication and Aerospace Technology (ICECA 2018) (29-31, March 2018) (IEEE Conference Record # 42487; IEEE Xplore ISBN:978-1-5386-0965-1)	
No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Name of the Teaching Staff	Naik Chirag Ashokkumar
Date of Birth	18 June 1979
Unique id	1-2686362710
Education Qualifications	PhD M Tech (Industrial Electronics) BE (Electrical)

Work Experience (in years)	Teaching	Research	Industry	Work Experience (in years)
	11		02	

Area of Specialization	Power Quality Assessment, Digital Signal Processing, Transients, Machine Learning, Artificial Intelligence

Courses taught at	Diploma Level	NA	
	Post Diploma Level	NA	
	Under Graduate Level	170905	Advanced Power System – I
		180906	Advanced Power System –II
		170901	Inter Connected Power System
		2170901	Inter Connected Power System
		2170910	Power Quality and Management
		2160908	Electrical Power System II

	Post Graduate Level	3710716　　　Power Quality
		2740704　　　Power Quality
	Post Graduate Diploma Level	NA
Research guidance	No. of papers published in National/International Journals/Conferences	2　International Journals 4　International conferences
	Master	04
	Ph.D.	NIL
Projects Carried out	NA	
Patents	NA	
Technology Transfer	NA	
Research Publications	**International Journals:** • Faizal Hafiz, Akshya Swain, Nitish Patel, Chirag Naik, "A two-dimensional (2-D) learning framework for Particle Swarm based feature selection, In Pattern Recognition", Volume 76, 2018, Pages 416-433, ISSN 0031-3203, https://doi.org/10.1016/j.patcog.2017.11.027. • Faizal Hafiz, Akshya Swain, Chirag Naik, Naik, S. Abecrombie, A. Eaton "Identification of Power Quality Events: Selection of Optimum Base Wavelet and Machine Learning Algorithm'", In IET Science, Measurement & Technology, **International Conferences:** • C. Bhajiwala, Naik, C.A., "Power quality event classification employing discrete wavelet transform and k-nearest neighbor," IEEE International conference on Telecomunication, Power Anlaysis and Computing Techniques, pp. 1-5, 2017. • Faizal Hafiz, Scott Abecrombie, Andrew Eaton, Chirag Naik and Akshya Swain, "Power Quality Event Identification using Wavelet Packet Transform: A Comprehensive Investigation" 2017 IEEE Region 10 Conference (TENCON 2017), 5-8 November 2017, Malaysia. • Faizal Hafiz, Akshya Swain, Chirag Naik and Nitish Patel, "Feature Selection for Power Quality Event Identification", 2017 IEEE Region 10 Conference (TENCON 2017), 5-8 November 2017, Malaysia. • Keyur Surti and Chirag A. Naik, "Bearing Condition Monitoring of Induction Motor based on Discrete Wavelet Transform & K-nearest Neighbor" 2018 IEEE 3rd International conference for Convergence in Technology (I2CT), April 2018, Pune, India.	
No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Name of the Teaching Staff	CHINMAY VIJAYBHAI NAIK
Date of Birth	30-06-1986
Unique id	1-3263775680
Education Qualifications	M.E Electrical Power system B. E Electrical Engineering Diploma in Electrical Engineering

Work Experience (in years)	Teaching	Research	Industry	Work Experience (in years)
	7			

Area of Specialization	Power System

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Interconnected Power system, Power System Operation & Control, High Voltage Engineering, Circuits & Networks, Switchgear & Protection
	Post Graduate Level	~
	Post Graduate Diploma Level	~

Research guidance	No. of papers published in National/International Journals/Conferences	2
	Master	
	Ph.D.	

Projects Carried out	NA
Patents	NA
Technology Transfer	NA
Research Publications	NA

No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Name of the Teaching Staff	Harin M. Desai
Date of Birth	20/08/1990
Unique id	1-3263776367
Education Qualifications	M.Tech-Electrical Power Systems B.E-Electrical

Work Experience (in years)	Teaching	Research	Industry	others
	3.8	~	1.7	~

Area of Specialization	Electrical Power Systems

Courses taught at	Diploma Level	~~
	Post Diploma Level	~~
	Under Graduate Level	AC Machines Electrical Machines Electrical Power System – I Electrical Power Systems-II Electrical Power Utilization Elements of Electrical Engineering Power System Planning and Design Design Engineering-1 & 2
	Post Graduate Level	~~
	Post Graduate Diploma Level	~~

Research guidance	No. of papers published in National/International Journals/Conferences	1
	Master	~~
	Ph.D.	~~

Projects Carried out	NA
Patents	NA
Technology Transfer	NA
Research Publications	International Research Journal of Engineering and Technology(IRJET),Volume 5,Issue-1,January 2018

No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Name of the Teaching Staff	Prof. Siddhi C. Patel		
Date of Birth	08/11/1991		
Unique id	1-3263843784		
Education Qualifications	B.E.(Electrical), M.Tech.(Power Systems)		

Work Experience (in years)	Teaching	Research	Industry	others
	3 years	~	~	~

Area of Specialization	Power Systems, Smart Grid Technology, Optimization	
Courses taught at	Diploma Level	~
	Post Diploma Level	~
	Under Graduate Level	Elements of Electrical Engineering, Power System Planning & Design, Signal & Systems, Electrical Power Generation, Switch Gear & Protection, Electrical Power System, Measurements
	Post Graduate Level	~
	Post Graduate Diploma Level	~
Research guidance	No. of papers published in National/International Journals/Conferences	2
	Master	01
	Ph.D.	~
Projects Carried out	03(UG)	
Patents	NA	
Technology Transfer	NA	
Research Publications	• Optimal Capacitor Placement and Sizing in Radial Distribution System • Solar Energy Prediction using Meteorological Variables	
No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Name of the Teaching Staff	Ekta Jatinkumar Desai			
Date of Birth	1st July 1986			
Unique id	1-3263557205			
Education Qualifications	B.E(Electrical),M.E(Electrical)			
Work Experience (in years)	Teaching	Research	Industry	others
	8 years			
Area of Specialization	Power electronics and drives			
Courses taught at	Diploma Level	project		
	Post Diploma Level	~		
	Under Graduate Level	Elements of ele.eng, control system, circuit and network, power generation		
	Post Graduate Level	Power electronics		
	Post Graduate Diploma Level	NA		
Research guidance	No. of papers published in National/International Journals/Conferences	0		
	Master	1		
	Ph.D.	NA		
Projects Carried out	NA			
Patents	NA			
Technology Transfer	NA			
Research Publications	NA			
No. of Books published with details	No. of Books published	NA		
	Details of Books	NA		

Name of the Teaching Staff	Shaikh Mohammed Suhel A.
Date of Birth	01/10/1983
Unique id	1-3263557128
Education Qualifications	B.E. (Electrical), M.Tech. (Industrial Electronics), PH.D (Pursuing)

Work Experience (in years)	Teaching	Research	Industry	others
	10.6	~~	~~	~~

Area of Specialization	Power Electronics & Electrical Drives, Microprocessor & Microcontroller, Circuit and Network.

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Power Electronics-I,II, Electrical Drives, Microprocessor & Microcontroller, Advanced Power Electronics, Circuit & Network, Electrical Machines
	Post Graduate Level	Advanced control techniques for electrical machines.
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	3
	Master	
	Ph.D.	

Projects Carried out	NA
Patents	NA
Technology Transfer	NA
Research Publications	• Shaikh Mo. Suhel A, and Rakesh Maurya "Modeling, Design and Analysis of Multi-Phase Induction Motor" International Journal of Power and Energy Conversion, Vol.8, no. 2, pp. 186-203, 2017. • M. S. A. Shaikh and R. Maurya, "A Comparative Study of PWM Techniques for Multiphase Induction Motor Drives," International Journal of Emerging Electric Power Systems, vol. 19, 2018. • M. S. Shaikh and R. Maurya, "Realization of 24-Sector SVPWM with New Switching Pattern for Six-Phase

	Induction Motor Drive," IEEE Transactions on Power Electronics, pp. 1-1, 2018.	
No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Name of the Teaching Staff	Jignesh P. Desai
Date of Birth	19/01/1988
Unique id	1-3263557121
Education Qualifications	Ph.D. Pursuing in Electrical Engineering, M.Tech. in Electrical Engineering B.E. in Electrical Engineering

Work Experience (in years)	Teaching	Research	Industry	others
	5 year 6 months	1 year	8months	NA

Area of Specialization	Electrical Power System

Courses taught at	Diploma Level	Network Theory
	Post Diploma Level	NA
	Under Graduate Level	Power System Protections, Field Theory, Power system Operation and Control
	Post Graduate Level	Project
	Post Graduate Diploma Level	NA

Research guidance	No. of papers published in National/International Journals/Conferences	2
	Master	1
	Ph.D.	1

Projects Carried out	NA
Patents	NA
Technology Transfer	NA
Research Publications	• Paper on "Development Of Artificial Intelligence Based Algorithm For Power System Planning And Protection" Published in IEEE- International conference on telecommunication, power analysis and computing techniques – 2017 (IEEE-ICTPACT-2017)

	Paper on "A Case Study of PWM and SVPWM Generated Electrical AC Drive" published in International Journal for Scientific Research & Development (IJSRD) in year 2017.
No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Name of the Teaching Staff	KINARIWALA KEYURKUMAR RAJIVBHAI

Date of Birth	23- AUG-1992

Unique id	1-3552787100

Education Qualifications	M.E (POWER SYSTEM) B.E (ELECTRICAL)

Work Experience (in years)	Teaching	Research	Industry	others
	02		01	

Area of Specialization	Power System

Courses taught at	Diploma Level	NA
	Post Diploma Level	NA
	Under Graduate Level	Basic of electrical Engineering, Circuit & Network, Power Quality Managmnet, Design of DC Machine & Transformer., Design Engineering (1 & 2),
	Post Graduate Level	NA
	Post Graduate Diploma Level	NA

Research guidance	No. of papers published in National/International Journals/Conferences	NA
	Master	NA
	Ph.D.	NA

Projects Carried out	NA

Patents	NA

Technology Transfer	NA

Research Publications	NA

No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Name of the Teaching Staff	Mayur Kisankumar Degadawala
Date of Birth	15/09/1993
Unique id	1-4496344929
Education Qualifications	Diploma in Electrical engineering / Government polytechnic, Valsad / GTU / 2009-2012 B.E. in Electrical engineering / Government engineering college, Surat / GTU / 2012-2015 M.E. in Electrical engineering / Sarvajanik college of engineering & technology, Surat / GTU / 2015-2017

Work Experience (in years)	Teaching	Research	Industry	others
	0 year 6 month			

Area of Specialization	Power electronics

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	EMMI, DE-I, DE-II, UEET, BEE
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	NA
	Master	NA
	Ph.D.	NA

Projects Carried out	NA
Patents	NA
Technology Transfer	NA
Research Publications	"Comparative analysis of three-phase transformerless photovoltaic inverter for leakage current reduction" at IEEE- ICTPACT-2017

No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Name of the Teaching Staff	DESAI HENA NALINKUMAR

Date of Birth	14/03/1992

Unique id	1-4496680400

Education Qualifications	• M.E. in Electrical Engineering – 2016 • B.TECH in Electrical Engineering - 2013

Work Experience (in years)	Teaching	Research	Industry	others
	2	0	0	

Area of Specialization	Electrical Power Systems

Courses taught at	Diploma Level	NIL
	Post Diploma Level	NIL
	Under Graduate Level	Signals & Systems, EEE, BEE, EMMI, Design Engineering
	Post Graduate Level	NIL
	Post Graduate Diploma Level	NIL

Research guidance	No. of papers published in National/International Journals/Conferences	NIL
	Master	NA
	Ph.D.	NA

Projects Carried out	NA

Patents	NA

Technology Transfer	NA

Research Publications	NA

No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Name of the Teaching Staff	KULKARNI AMIT ARVIND
Date of Birth	09-02-1994
Unique id	1-4496511896
Education Qualifications	M.E (ELECTRICAL), B.E (ELECTRICAL)

Work Experience (in years)	Teaching	Research	Industry	others
	1YEAR 6 MONTHS	N.A	N.A	N.A

Area of Specialization	POWER ELECTRONICS

Courses taught at	Diploma Level	N.A
	Post Diploma Level	N.A
	Under Graduate Level	HIGH VOLTAGE ENGNEERING, BASIC ELECTRICAL ENGINEERING, TESTING COMISSIONING OF ELECTRICAL EQUIPMENTS, DESIGN ENGINEERING 1-A, DESIGN ENGINEERING 2-A, CYBERSECURITY
	Post Graduate Level	N.A
	Post Graduate Diploma Level	N.A

Research guidance	No. of papers published in National/International Journals/Conferences	N.A
	Master	N.A
	Ph.D.	N.A

Projects Carried out	N.A
Patents	N.A
Technology Transfer	N.A
Research Publications	• Amit A. Kulkarni, Neha S. Shah, Hiren H. Patel "Performance of CHB MLI based Grid Connected PV System under Uniform and Non-uniform Environmental Conditions", International Conference on Recent Trends in Energy Storage & Hydrogen Energy, Bhopal, 28th–29 April, 2017.

No. of Books published with details	No. of Books published	N.A
	Details of Books	N.A

Name of the Teaching Staff	PATEL SEJAL KANTIBHAI
Date of Birth	21/03/1993
Unique id	1-4496681227
Education Qualifications	M.E in Electrical Engineering B.E in Electrical Engineering

Work Experience (in years)	Teaching	Research	Industry	Work Experience (in years)
	02 YEAR	~	~	

Area of Specialization	Electrical Engineering

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	EEE, BEE, Field Theory, Cyber Security, AC machine, Electrical Machine, EEMI
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	NA
	Master	NA
	Ph.D.	NA

Projects Carried out	NA
Patents	NA
Technology Transfer	NA
Research Publications	Patel Sejal Kantibhai, Prof. Hitesh K. Mehta, "A Study on Different PV Array Topologies Under Partial Shading Conditions" ,National Conference On Advancement In Electrical & Power Electronics Engineering (AEPEE-2016) 28-29 June-2016 at L.E Morbi

No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Name of the Teaching Staff	PARMAR KALPESHBHAI POPATBHAI
Date of Birth	04- AUG-1991
Unique id	1-4496935264
Education Qualifications	M.E (POWER SYSTEM) B.E (ELECTRICAL)

Work Experience (in years)	Teaching	Research	Industry	others
	03		NA	

Area of Specialization	Power System

Courses taught at		
	Diploma Level	NA
	Post Diploma Level	NA
	Under Graduate Level	Basic of electrical Engineering, Circuit & Network, Signal & System, Field Theory, Testing & Commissioning of electrical Equipment, Power System Practice & Design, Power System Operation & control, Industrial Instrumentation, Electrical Power Generation , Design Engineering (1 & 2),
	Post Graduate Level	NA
	Post Graduate Diploma Level	NA

Research guidance		
	No. of papers published in National/International Journals/Conferences	NA
	Master	NA
	Ph.D.	NA

Projects Carried out	10
Patents	NA
Technology Transfer	NA
Research Publications	NA

No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Name of the Teaching Staff	ASHISHKUMAR KHANDUBHAI PATEL
Date of Birth	04/04/1992
Unique id	1-3268753280
Education Qualifications	B.TECH.(ELECTRICAL ENGINEERING) M.TECH. (ELECTRICAL POWER SYSTEMS)

Work Experience (in years)	Teaching	Research	Industry	Work Experience (in years)
	3.6			

Area of Specialization	ELECTRICAL POWER SYSTEM ELECTRICAL MACHINES

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	2160913,2140908,2130904
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	
	Master	
	Ph.D.	

Projects Carried out	NA
Patents	NA
Technology Transfer	NA
Research Publications	NA

No. of Books published with details	No. of Books published	NA
	Details of Books	NA

Electronics & Communication Engineering

Name of the Teaching Staff	Dr Niteen B. Patel
Date of Birth	7/3/1971
Unique id	1-411335091
Education Qualifications	Veer Narmad South Gujarat University, Surat PhD : Target Localization, Improving Tracking Accuracy And Energy Efficiency In Wireless Sensor Network IIT Bombay Completed Course work, PhD (Not completed), CPI 8.5/10 · BITS Pilani PG in Electronics and Control, CGPA 9.05/10 Regional College Of Engineering And Technology, SURAT (now SVNIT) Bachelors in Electronics Engineering (First Class)

Work Experience (in years)	Teaching	Research	Industry	others
	25	Nil	Nil	Nil

Area of Specialization	Computer network Wireless communication Wireless sensor network and target tracking

Courses taught at	**Diploma Level**	Nil
	Post Diploma Level	Nil
	Under Graduate Level	Antenna and Radiating system, Antenna and Wave propagation , Engineering Electromagnetic, Embedded Systems, Industrial automation, Power Electronics,
	Post Graduate Level	Robotics and Intelligent systems, Adaptive Signal processing , Introduction to optimization techniques, DSPA, Statistical Signal Analysis
	Post Graduate Diploma Level	Nil

Research guidance	**No. of papers published in National/International Journals/Conferences**	15

	Master	13
	Ph.D.	Nil

Projects Carried out	Nil

Patents	Nil

Technology Transfer	Nil

Research Publications	- Patel N., Raval M.S. (2017)" Target Tracking Accuracy in Context of Energy Consumption in Wireless Sensor Network" . In: Modi N., Verma P., Trivedi B. (eds) Proceedings of International Conference on Communication and Networks. Advances in Intelligent Systems and Computing, vol 508. Springer, Singapore DOI https://doi.org/10.1007/978-981-10-2750-5_51 , Publisher Name Springer, Singapore Print ISBN 978-981-10-2749-9 , Online ISBN 978-981-10-2750-5 http://www.springer.com/in/book/9789811027499# - Nafeesa saleh, Niteen patel, "Enhancing Spectrum Efficiency and Energy Efficiency via Offloading Mechanism in Heterogeneous Networks(in context of Wi-Fi and LTE-Advanced)" IEEE technically co-sponsored International Conference on Innovations in Electronics, Signal Processing and Communication (IESC 2017), 6th – 7th April 2017, NIT Meghalaya http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8071886 - Digna Mistry, Niteen patel, "A review on interference mitigation techniques in heterogeneous network", NCERTE 2016, National conference on emerging research trends in Engineering, 4 to 6th April 2016. VGEC-chandkheda, Gujarat. - Nafeesa saleh, Niteen patel, "A review on offloading mechanism in heterogeneous networks" EIOCD : international conference Engineering issues Opportunities and challenges for development, 9th April 2016, Umarakh. - Niteen patel, Mehul Raval, "target tracking in context of energy consumption in wireless sensor network", International conference on communication and networks COMNET 2015-16, 20-21 February 2016, Ahmedabad cponsered by ACM and CSI, www.comnet2015.org - Bhaumik Vaidya, Niteen patel, vardhman Modi " Home automation and monitoring system using Raspberry Pi and android", International journal of Engineering development and research. (open access) Volume 3 Issue 4 December 2015. ISSN : 2321-9939 www.ijedr.org

- Ankit Patel, Niteen Patel, "LEACH-SCH: An Innovative Routing Protocol for Wireless Sensor Network" IEEE International Conference on Computing, Communication and Networking Technologies - ICCCNT 2013, Co Sponsored by the IEEE Computer Society (USA) , 4-6 July 2013, Vivekanandha College of Engineering for Women, Tiruchengode, Namakkal District, Tamil Nadu, INDIA. http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=6726 641

- Anand patel, and Niteen Patel ,"Capacity and SINR improvement through Inter-cell Interference Management in LTE Femtocell networks", IEEE International Conference on Computing, Communication and Networking Technologies - ICCCNT 2013, Co Sponsored by the IEEE Computer Society (USA), 4-6 July 2013, in Vivekanandha College of Engineering for Women, Tiruchengode, Namakkal District, Tamil Nadu, INDIA. http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber= 6726684

- Anand patel, and Niteen Patel, "Capacity and SINR improvement through Inter-cell Interference Management in LTE networks ", International Confeence on reasearch and development in Engineering, technology and Science (ICRD-ETS-2013) , 7thApril 2013, Rajkot, with AES Journals In engg,Tech, Science and management, Sangali. http://www.aessangli.in/journals.html

- Urvashi P Shukla, Niteen B Patel and Amit M Joshi. Article: Analysis of Music Signal Compression with Compressive Sensing. International Journal of Computer Applications 70(26):5-9, May 2013. Published by Foundation of Computer Science, New York, http://www.ijcaonline.org/archives/volume70/number26/12 229-8341

- Nakrani, N.; Patel, N., "Feed-Forward and Feedback Active Noise Control System Using FxLMS Algorithm for Narrowband and Broadband Noise," Communication Systems and Network Technologies (CSNT), 2012 International Conference on , vol., no., pp.577,580, 11-13 May 2012
doi: 10.1109/CSNT.2012.130
URL:
http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber= 6200616&isnumber=6200561

- Anand Patel, Sukant Kumar Chhotaray and Niteen Patel. "Frequency Reuse Schemes for Interference Management in LTE Femtocell Networks: Issues and Approaches" International Conference, ICARET - 2013, International Conference on Advanced Research in Engineering and Technology (ICARET) 2013

| | http://www.ieee.org/conferences_events/conferences/conferencedetails/index.htm?Conf_ID=30835

● Shukla, U.P.; Patel, N.B.; Joshi, A.M., "A survey on recent advances in speech compressive sensing," Automation, Computing, Communication, Control and Compressed Sensing (iMac4s), 2013 International Multi-Conference on , vol., no., pp.276,280, 22-23 March 2013
doi: 10.1109/iMac4s.2013.6526422
URL:
http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6526422&isnumber=6526372

● Anand patel, Niteen Patel, paper id 1060 "LTE AND LTE-ADVANCED: KEY TECHNOLOGIES AND FEATURE" ITES Conference-2012", which will be held from December 22 to 23, 2012, at VV patel college, Rajkot, INDIA.
Will also published in : "International Journal of Computer and Electronics Engineering (PRINT ISSN: 0975-4202)"
http://www.serialspublications.com/journals1.asp?jid=442&jtype=1

● Naitik Nakrani, Niteen Patel paper no. NCTMC150 with title "Active Noise Control by FxLMS algorithm: a Tutorial Review" National Conference on Technology & Management (NCTM2012) during 20-21 January 2012, Visnagar.
http://nctm2012.spcevng.ac.in/index.php/registration.

● Mehul S Raval, M M Joshi, Niteen Patel, "An Ownership Verification & Content Authentication Technique Without Embedding Watermark" at Proc. ETA 2003, , Rajkot, sourashtra university |
| **No. of Books published with details** | Nil |

Name of the Teaching Staff	Dr. Maulin Joshi
Date of Birth	7/12/1974
Unique id	1-411335095
Education Qualifications	PHD SVNIT, Surat Aug 2012 9.5 on a scale of 10 M.Tech IIT Bombay June 2005 8.41 on scale of 10

	B.E D.D.I.T. –Nadiad May 1996 68 % (Agg. all Sem) PG Diploma In Management IGNOU Dec 2001 – PG Diploma In Operation Management IGNOU Dec 20			
Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	19	with teaching	1	Nil
Area of Specialization	Neural network and fuzzy systems based signal processing, Adaptive signal processing			
Courses taught at	**Diploma Level**	earlier at IGNOU		
	Post Diploma Level	earlier at IGNOU		
	Under Graduate Level	**GTU** Digital Signal Processing, Wireless communication , Signals and Systems VNSGU (partial list) Computational Methods Using 'C', Digital Circuits, Analog and Digital communication, Digital Signal Processing ,Cellular Mobile Technologies, Engineering Business Management		
	Post Graduate Level	**ME (E&C)** Neuro Computing & Applications , Wireless mobile network architectures Robotics and Intelligent Systems Digital Signal Processing Algorithms Introduction To Optimization Theory **MSc.(IT)/MSc (ICT)** Mobile Computing **MSc (Instrumentation)** Digital instrumentations **MCA (IGNOU)** Artificial Neural Networks , Software project management Numerical techniques for optimization **MBA (IGNOU)** Modern Information Systems for managers		
	Post Graduate Diploma Level	**PGDB (IGNOU)**		
Research guidance	**No. of papers published in National/International Journals/Conferences**	32		
	Master	12		
	Ph.D.	4		
Projects Carried out	Nil			
Patents	Nil			
Technology Transfer	Nil			

Research Publications	**Papers published (International Journals)** [J1] Prof. Maulin M Joshi & Mukesh A Zaveri , "Optimally Learnt, Neural Network Based Autonomous Mobile Robot Navigation System, ACEEE International Journal on Control System and Instrumentation [IJCSI], Volume 2, Issue 1, 2011 [J2] Prof. Maulin M Joshi & Mukesh A Zaveri " Reactive Navigation of Autonomous Mobile Robot Using Neuro-Fuzzy System " International journal on Robotics and Automation (IJRA) , Volume(2), issue (3), pp.128-145 , July / August 2011, pp 28-32. [J3] Dhruv Desai, Maulin Joshi " speaker recognition using MFCC and Hybrid Model of VQ and GMM" Recent Advances in Intelligent Informatics, Advances in Intelligent Systems and computing , Springer Volume 235, 2014, pp 53-63 UGC approval number: 49365 [J4] Naitik Nakrani and Maulin Joshi, (2016) " Fuzzy based autonomous parallel parking challenges in Real time Scenario, " Advances in Intelligent Systems and Computing, vol 530, pp 789-802 , Sept 2016 UGC approval number: 49365 [J5] Jayesh Munjani and Maulin Joshi, " Target Tracking in WSN using Time Delay Neural Network", Journal of Machine Intelligence 2, Vol 2, No 2 (2017), DOI: http://dx.doi.org/10.21174/jomi.v2i2.71 [J6] Chintan Modi and Maulin Joshi, "Handwritten Text Recognition using Neural Network", International Journal of Electronics, Electrical and Computational System, Volume6 , Issue 7, pp 279-288 , July 2017 UGC approval number : 48203 [J7] Moxanki Bhavsar, Jayesh Munjani and Maulin Joshi, "Target Tracking in WSN using Dynamic Neural Network Techniques", proceedings in Communications in Computer and Information Science (CCIS), Springer, Nov 2017 [J8] Naitik Nakrani and Maulin Joshi "An Intelligent Fuzzy based Hybrid Approach for Parallel Parking in Dynamic Environment" Elsevier- Procedia Computer Science (2018), pp. 82-91 UGC approval number : 48229 https://doi.org/10.1016/j.procs.2018.07.011 **Paper Presented in Conferences (International)** [C1] Joshi M.M. & Awate P.G., "Neuro Fuzzy Systems for Autonomous Robot Navigation", International conference on Operation Research Application in Infrastructure Development (ICORAID-2005),IISC- Bangalore, India Dec:27-29 2005 [C2] Maulin Joshi & Mukesh zaveri, " Fuzzy based Autonomous Robot Navigation" , IEEE India Conference INDICON 2009 , Dec 18-20 , DAIICT Gandhinagar, pp 1-4 [C3] Priyanka D. Jariwala, Dipali D. Naik, Tejal dave & Maulin M.Joshi

| | "Application of Fuzzy Logic in Mobile Robot Navigation" , Proceedings of International conference ISCAR 2010, 9-10 jan 2010 , DDU , India -
 This paper Won the best paper award in its category

 [C4] Desai Paridhi A. , Patel Kinjal P. , Tejal dave & Maulin M. Joshi "Hybrid Approach for Autonomous Vehicle Navigation in Indoor Environment", Proceedings of International conference ISCAR 2010 9-10 jan 2010 , DDU , India

 [C5] Joshi M.M and Zaveri M.A. "Reactive navigation of Neuro-Fuzzy Based Autonomous Mobile Robot", proceedings of Indo-Russian Joint Workshop on Computational Intelligence and Modern Heuristics in Automation and Robotics, India , pp.18-27,Sept.21-22, 2010,pp 6-15.

 [C6] Joshi M.M and Zaveri M.A. "Neuro-Fuzzy Based Autonomous Mobile Robot Navigation", IEEE 11th International Conference on Control, Automation, Robotics and Vision , ICARCV 2010 , Singapore, Dec 7-10, 2010 pages: 384-389

 [C7] Joshi M.M and Zaveri M.A. "Optimally Learnt, Neural Network Based Autonomous Mobile Robot Navigation System, international conference on Advances in Electrical and Electronics(AEE-2010), TrivendrumDec 2122,2010, pp. 56-60.

 [C8] Dr. Maulin Joshi and Ms. Ankeeta patel "Heart Diseases Diagnosis using Neural Network" IEEE International Conference on Computing, Communication and Networking Technologies - ICCCNT 2013.4-6 July 2013, Tamil Nadu, INDIA, pp 1-5.

 [C9] Dhuv Desai and Maulin M Joshi "Speaker Recognition using MFCC and Hybrid model of VQ and GMM" Second International symposium on Intelligent Informatics ISI'13, Mysore 22-25 Aug 2013,pp53-65

 [C10] Dhara Marvadi, Maulin Joshi, Chirag Paunwala and Aaroho Vora,
 "Comparative Analysis of 3D Face Recognition Using 2D-PCA and 2DLDA Approaches", 5th Nirma University IEEE International Conference on Engineering (NUiCONE), Nov. 2015

 [C11] Jayesh Munjani & Joshi Maulin ," Target Tracking in WSN using
 Time Delay Neural Network" , IEEE International Conference TENCON
 2016, Singapore , Nov 2016

 [C12] Naitik Nakrani and Maulin Joshi, " Fuzzy based autonomous parallel parking challenges in Real time Scenario, " The International Symposium on Intelligent Systems Technologies and Applications (ISTA) 2016, Jaipur , Sept 2016

 [C13] Chintan Modi and Maulin Joshi, "Handwritten Text Recognition <br> using Neural Network", 5th International Conference on Research Trends in Engineering, Applied Science and Management, (ICRTESM-2017), Pune, 23 July 2017 |

| | [C14] Moxanki Bhavsar, Jayesh Munjani and Maulin Joshi, "Target Tracking in WSN using Dynamic Neural Network Techniques", 3rd International Conference on Next Generation Computing Technologies (NGCT 2017), 30th – 31st Oct 2017 at University of Petroleum and Energy Studies, Dehradun, India |
| | [C15] Moxanki Bhavsar, Jayesh Munjani and Maulin Joshi, "Target Tracking in WSN using NARX model", 14th IEEE India Council International Conference 2017 (Indicon 2017), IIT Roorkee, 15-17 Dec 2017, |

[C16] Vaibhavi Solanki and Maulin Joshi," Energy Efficient NARX Model for Target Tracking in Wireless Sensor Network", 3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), at Bengaluru, India 19-19 May 2018

[C17] Naitik Nakrani and Maulin Joshi, "An intelligent fuzzy based hybrid approach for parallel parking in dynamic environment", International Conference on Robotics and Smart Manufacturing (RoSMa2018) , at IIITDM, KANCHEEPURAM CHENNAI, India,19-21, July,2018 (Accepted)

Paper Presented at National / Zonal Seminars

[C18] Raval Mehul S & Joshi Maulin M, "Issues with Ethernet in next generation broad band network", Proc. ICE-Emerging trends, Zonal Seminar IETE Vadodara Chapter, Vadodara, 5th -6th July 2003, pp: 31.

[C19] Raval Mehul S, Patel Niteen B, & Joshi Maulin M , "An Ownership Verification & Content Authentication Technique Without Embedding Watermark", Proc.ETA 2003, Computer Science Department, Saurashtra University,11th -13th July,pp:83.

[C20]   Manthan Desai, Maulin M.Joshi,"Different Techniques Of Mobility Management." National Seminar on Use of Soft computing Techniques For Low Cost Automation, Nagpur, 13-14 April, 2012

[C21] Dhrumil A. Patel, Maulin M. Joshi, "Text Dependent Speaker Recognition based on MFCC and Vector Quantization", National conference on RACCCT, pp.280-284,Surat, March 2012.

[C22] Dhrumil A. Patel, Maulin M. Joshi, "Review of Different Techniques of speaker recognition", National conference on NCEVT'12, Limda,Vadodara, April 2012.

[C23] Urvish Gohil, Maulin Joshi, "Low cost Grid SLAM" National Conference on Recent Trends in Computer and Communication Technology (RTCCT 16), Surat, May 2016   ISBN : 978-93-5258-824-4

[C24] Niki Mehta, Maulin Joshi, " Soft Computing based Classifier Techniques for Offline Handwritten Character Recognition", National Conference on Recent Trends in Computer and Communication Technology (RTCCT 16), Surat, May 2016   ISBN :978-93-5258-824-4

	[C25] Moxanki A. Bhavsar ,MaulinJoshi , " Target Tracking inWSN using NARX model", National Conference on Recent advances in Circuits, Communication and Computing (RACCCT 2017), Surat , 25-26 March 2017, ISBN: 978-81933591-3-6 [C26] Chintan Modi and Maulin Joshi, "Neural based Handwritten Text Recognition," National Conference on Recent advances in Circuits, Communication and Computing (RACCCT 2017), Surat , 25-26 March 2017, ISBN: 978-81933591-3-6
No. of Books published with details	Nil

Name of the Teaching Staff	Prof (Dr.) Nehal N Shah
Date of Birth	20/09/1974
Unique id	1-411390125
Education Qualifications	Phd Video Processing SVNIT, Surat 2017 M. Tech Electronics Design and Technology Indian Institute of Science, Bangalore 2007 B.E Electronics SVREC / SGU 1996

Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	18	Nil	Nil	Nil

Area of Specialization	Computer Networks, VLSI, Embedded System

Courses taught at	**Diploma Level**	Nil
	Post Diploma Level	Nil
	Under Graduate Level	Embedded System, Microcontroller and Interfacing, Data Communication and Networking, VLSI Technology
	Post Graduate Level	ASIC Design, CMOS Circuit Design, Digital VLSI Design
	Post Graduate Diploma Level	Nil

Research guidance	No. of papers published in National/International Journals/Conferences	29
	Master	17
	Ph.D.	
Projects Carried out	Nil	
Patents	Nil	
Technology Transfer	Nil	
Research Publications	Publications in International Journals	

Publications in International Journals

- N. N. Shah, U. D. Dalal, "Register Array based SAD Processor with Parallel Memory System for Fast Motion Estimation", IET Computers & Digital Techniques, Accepted for publication
- Nehal N. Shah, Upena. D. Dalal, H. Singapuri, "Hardware Efficient Architecture with Variable Block Size for Motion Estimation," Journal of Electrical and Computer Engineering, vol. 2016, Article ID 5091519, 11 pages, 2016.
- Nehal N. Shah, Upena. D. Dalal, "Hardware Efficient Double Diamond Search Block Matching Algorithm for Fast Video Motion Estimation," Springer Journal of Signal Processing Systems, vol 82, no 1, pp 115-135, 2016
- Nehal N. Shah, Shubhi Sharma, K. Vinaya Krupa, Roshni Gandhi, Aditi Jain, "EMPTY AND FILLED BOTTLE INSPECTION SYSTEM", ICTACT JOURNAL ON IMAGE AND VIDEO PROCESSING, VOL 06,no 02, 2015
- Nehal N. Shah, Upena D. Dalal, "SAD PROCESSOR FOR MULTIPLE MACROBLOCK MATCHING IN FAST SEARCH VIDEO MOTION ESTIMATION", ICTACT JOURNAL ON IMAGE AND VIDEO PROCESSING, VOL 05,no 03, 2015
- Meghavi H. Modi, Nehal N. Shah, "AN EFFICIENT ARCHITECTURE FOR DE-BLOCKING FILTER", ICTACT JOURNAL ON MICROELECTRONICS, VOL 01, no 01, 2015
- Nehal N. Shah, Upena D. Dalal, Priyank Prajapati, "Multi point search pattern for fast search motion estimation of high resolution video coding", International Journal of Image, Graphics and Signal Processing (IJIGSP), vol 07, no 07, 2015

Publications in International Conferences

- Nehal N. Shah, U. D. Dalal, "Early termination in diamond search method using statistical analysis," Image Information Processing (ICIIP), 2013 IEEE Second International Conference on , pp.358,362, 9-11 Dec. 2013
- Pratik K. Pasiyawala, Nehal N. Shah, Meghavi Modi; "Directional de-blocking filter for blocking artifacts reduction," Nirma University International Conference (NUiCONE), 2013 pp.1,5, 28-30 Nov. 2013

Nehal N. Shah, Khayati R. Agarwal, H. M. Singapuri, "Implementation of sum of absolute difference using optimized partial summation term reduction," Advanced Electronic Systems (ICAES), 2013 International Conference on, pp.192,196, 21-23 Sept. 2013

Pratik K. Pasiyawala, Nehal N. Shah; "Blocking artifacts reduction for highly compressed frames with adaptive threshold," Advances in Computing, Communications and Informatics (ICACCI), 2013 International Conference on , pp.758,763, 22-25 Aug. 2013

Nehal N. Shah, U. D. Dalal, "Impact of GOP size on individual and combined scalability in H.264/SVC," IEEE International Multi-Conference on, Automation, Computing, Communication, Control and Compressed Sensing (iMac4s), 2013, pp.617,622, 22-23 March 2013

Dhaval R. Gandhi, Nehal N. Shah, "Comparative analysis for hardware circuit architecture of Wallace tree multiplier," IEEE International Conference on Intelligent Systems and Signal Processing (ISSP), 1-2 March 2013

Jay D. Dalal, Dayala Safiya, Nehal N. Shah, "Optimized AES algorithm using Galois field multiplication and parallel key scheduling", 1st International Conference on Emerging Technology Trends in Electronics, Communication and Networking (ET2ECN), 2012, Surat, 19-21 December, 201

Dhiren Bhagat, Nehal N. Shah, Tejas Patel, "IP Multicast Transmission of Layered Video," International Conference on Information, Knowledge & Research in Engineering, Technology & Science-2012 (ICIKR-ETS), Rajkot, pp. 381-384, ISBN 978-81-906220-3-5, 24-25 March, 2012

Rahul N. Gonawala, Nehal N. Shah, "Full Search and Fast Search algorithms for Motion Estimation in Video Compression," International Conference on Information, Knowledge & Research in Engineering, Technology & Science-2012 (ICIKR-ETS), Rajkot, pp. 381-384, ISBN 978-81-906220-3-5, 24-25 March, 2012

Nehal N. Shah, "Design Process of Handheld Embedded System for Indoor Location Based Services", International Conference on Wireless Networks & Embedded Systems- (WECON-2008), Chitkara Institute of Engineering & Technology, Punjab, 18th , 19th Oct, 2008.

Publications in National Conferences

Rachana Patel, Nehal Shah, "Comparative analysis of Comparator Design", Natioanl Conference on Recent Advances in Circuits, Communication, and Computing Technology (RACCCT-2017), SCET, Surat, 25-26 March 2017. ISBN:978-81-933591-3-6

Arti P. Marfatia, Nehal N. Shah, "Review of Hardware Implementation of Secure Hash Algorithm", Natioanl Conference on Recent Advances in Circuits, Communication, and Computing Technology

	(RACCCT-2017), SCET, Surat, 25-26 March 2017. ISBN:978-81-933591-3-6
	Esther Michael, Disha Shah, Nehal N. Shah, "Detection and Tracking of Objects for Surveillance" in prooceedings of National Conference on Recent Trends in Computer & Communication Technology (RTCCT), SCET Surat, 10-11 May 2016. ISBN: 978-93-5258-824-4
	Dhaval R. Gandhi, Nehal N. Shah, "Performance Analysis of Low Power Multipliers", in proceedings of National Conference on Advances and Challenges in Engineering & Science, NCACES, Bhandu, 13-14 April, 2012.
	Priyank Patel, Nehal N. Shah, IMPLEMENTATION OF ADVANCED ENCRYPTION ALGORITHM FOR AREA OPTIMIZATION, National Conference on Recent Advances in Communication, Control and Computing Technology (RACCCT 2012), Surat, 29 - 30 March, 2012
	Dhiren Bhagat, Nehal N. Shah, "Multimedia Transmission for wired network using IP Multicast" National conference on Technology and Management "NCTM-2012" on 20-21 January, 2012 at Sankalchand Patel college of engineering, Visnagar, Gujarat
	Hitesh Mathukia, Nehal N. Shah, Naresh M. Patel, "Analysis of Different Techniques for Parallel CRC Computation" at National conference on Technology and Management "NCTM-2012" on 20-21 January, 2012 at Sankalchand Patel college of engineering, Visnagar,Gujarat
	Dhiren Bhagat and Nehal N Shah, "Multimedia Transmission for wired network using IP Multicast" National conference Power Systems, Embedded Systems, Power Electronics, Communication & Control, Instrumentation "PEPCCI-2012" on 11th January, 2012 at SVIT, Vasad. ISBN Number: 978-93-81286-06-7
	Nehal N Shah, Rahul N Gonawala, "Motion Estimation Techniques and Architecture for Video Compression" at National conference Power Systems, Embedded Systems, Power Electronics, Communication & Control, Instrumentation "PEPCCI-2012" on 11th January, 2012 at SVIT, Vasad. ISBN Number: 978-93-81286-06-7
	Nehal N Shah Priyank V Patel, "Different techniques of AES on FPGA with Area optimization" at National conference Power Systems, Embedded Systems, Power Electronics, Communication & Control, Instrumentation "PEPCCI-2012" on 11th January, 2012 at SVIT, Vasad. ISBN Number: 978-93-81286-06-7

	Prof Nehal N Shah, Dhaval R. Gandhi, Ketan K. Lad, "Analysis of latest small size full adder circuits" National Conference "e-Trendz 2011" on latest trends & innovations in computing, electronics and communication technology, 18-19 November 2011, AISECT University, Bhopal	
	Nehal N. Shah, "Architecture and Design process of handheld Embedded System", National Conference on Recent Advances in Computers and Communications, VIT, Mumbai, 29th, 30th Sep 2008	

No. of Books published with details	**No. of Books published**	Nil
	Details of Books	Nil

Name of the Teaching Staff	Prof. (Dr.) Chirag N. Paunwala

Date of Birth	4/5/1978

Unique id	1-411390129

Education Qualifications	B.E.	Electronics	South Gujarat University	1999	78.13	Distinction	
	M.E.	Digital Techniques and Instrumentation (Under QIP category)	Rajiv Gandhi Technological University, Bhopal	2006	90.75	Distinction	
	Ph.D.	Image Processing	S.V. N.I.T. Surat	2012			
	Other (Certificate Course)	Image and video	Duke University	2014	Non-credit based Course	Distinction	

	processing: From Mars to Hollywood with a stop at the hospital				

Work Experience (in years)	Teaching	Research	Industry	others
	16	Nil	Nil	Nil

Area of Specialization	Image Processing, Pattern recognition

Courses taught at	Diploma Level	Nil
	Post Diploma Level	Nil
	Under Graduate Level	Electronics Devices and Circuits, Fundamental of Image Processing, Integrated Circuits and Applications Analog Circuit Design, Optical Fiber Communication
	Post Graduate Level	Advanced Image Processing, Statistical Signal Analysis. Digital Image Processing, Image Processing
	Post Graduate Diploma Level	Nil

Research guidance	No. of papers published in National/International Journals/Conferences	43
	Master	14
	Ph.D.	4

Projects Carried out	Nil

Patents	Nil

Technology Transfer	Nil

Research Publications	**Book Chapters:** ● Aarohi Vora, Chirag N. Paunwala, Mita Paunwala, "Hybrid Metaheuristic Approaches for optimization in Multi-biometric Authentication System" Hybrid Metaheuristics: Research and Applications(Series in Machine Perception and Artificial Intelligence; Vol: 82),World Scientific Publishing Co. Pte. Ltd., Singapore. (Accepted) ● Bhaumik Vaidya and Chirag N. Paunwala, "Real time

object detection and tracking strategies", Encyclopedia on Image Processing, Taylor and Francis Publications. (Accepted)

- Aarohi Vora, Chirag N. Paunwala, Mita Paunwala, "Multi-Biometric Fusion and Template Protection Strategies", Encyclopedia on Image Processing, Taylor and Francis Publications. (Accepted)
- Salman Bombaywala and Chirag N. Paunwala, " Image Inpainting Evolution: A Survey", Encyclopedia on Image Processing, Taylor and Francis Publications. (Accepted)

Journal Publications:

- Aarohi Vora, Chirag N. Paunwala, Mita Paunwala, "Review on Fusion Algorithms for Multimodal Authentication System", International Journal of Engineering Development and Research, Vol. 3 (2), pp: 911-917, 2015
- Dhwanee B. Desai, Md. Salman R. Bombaywala, Chirag N. Paunwala, "Comparative Study of Sparsity Based Techniques for Image Denoising", International Journal of Emerging Technology and Advanced Engineering, pp:528-531, 2015
- Chirag N. Paunwala and Suprava Patnaik, "An Adaptive Integrated Rule Based Algorithm for License Plate Localization", International Journal of Opto-Electronics Review, Springer Publications, vol. 20, issue 4, pp:323-334, 2012. (ISSN: 1230-3402 (print version) ISSN: 1896-3757 (electronic version) Impact Factor:0.923
- Chirag N. Paunwala and Suprava Patnaik, "An adaptive integrated rule-based algorithm for license plate localization", International Journal of Cybernetics and Systems, Taylor and Francis Publication, vol. 42, issue 8, 2012 , pp:567-584. (ISSN: 0196- 9722 (Print), 1087-6553 (Online) Impact factor:0.383)
- Chirag N. Paunwala and Suprava Patnaik, "Automatic license plate localization using intrinsic rules saliency", International Journal of Advanced Computer Science and Applications(IJACSA) for special issue on image processing and analysis, pp:105- 111,2011 (ISSN : 2156-5570(Online); U.S ISSN : 2158-107X(Print) Impact Factor = 1.324)
- Chirag N. Paunwala and Suprava Patnaik, "A Novel Multiple License Plate Extraction Technique for Complex Background in Indian Traffic Conditions", International Journal of Image Processing, Vol.4, issue 2, June 2010, ISSN: 1985-2304
- Rushabh Jhaveri, Chirag N. Paunwala, Ronak Bhagat, Mita Paunwala, " Robust DWT-SVD Watermarking Technique for Copyright Protection", International Journal of

Electronics and Computer, vol. 2, Issue 1, pp: 281-288, January 2010

- Chirag N. Paunwala, Mehul S. Raval, "Techniques for secret writing in digital images" Journal of Veer Narmad South Gujarat University, vol:IV B, pp:43 to 55, 2006

Conference Publications:

- Bhaumik Vaidya and Chirag N. Paunwala, " Comparative analysis of motion based and feature based algorithms for object detection and tracking" IEEE International conference on soft computing and its Engineering and Applications, Gujarat, December 2017

- Heena Patel and Chirag N. Paunwala , "Wavelet based Feature level Fusion Approach for Multi-Biometric Cryptosystem", The 1st European Alliance for Innovation (EAI) International Conference on Future Internet Technologies and Trends, Springer Publications, NIT, Surat, September 2017 (Accepted for oral presentation)

- Hardika Gabani and Chirag N. Paunwala, "ApEn-Based Epileptic EEG Classification Using Support Vector Machine", The 1st European Alliance for Innovation (EAI) International Conference on Future Internet Technologies and Trends, Springer Publications, NIT, Surat, September 2017 (Accepted for oral presentation)

- Bhaumik Vaidya, Harendra Panchal and Chirag N. Paunwala, " Silhouette Based Real Time Object Detection and Tracking", International Conference on Computer vision and Image Processing organized by IAPR (Int. Association of Pattern Recognition), Advances in Intelligent Systems and Computing, Springer Publications (Scopus Indexed), IIT Roorkee, September 2017

- Mayank Kapadia and Chirag N. Paunwala, "Analysis of SVM kernels for Content Based Image Retrieval System", IEEE International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS 2017), Bangalore, August 2017

- Niyati Patel, Bhaumik Vaidya and Chirag N. Paunwala, "Real- Time Object Detection, Tracking and Re-Identification: A Survey, National Conference on Recent Advances in Circuits, Communications,and Computing Technology (RACCCT), Surat, pp:134-139, March 2017

- Hardika Gabani and Chirag N. Paunwala, "EEG Signal Classification for Epileptogenic Zone and Seizure Zone", Proceedings of the International Conference on Intelligent Systems and Signal Processing - ISSP 2017 to be published in Springer's book series- Advances in Intelligent Systems and Computing (AISC), March 2017

- Salman Bombaywala and Chirag N. Paunwala, " Semi

Automatic Image Inpainting using Partial JSEG Segmentation", IEEE International Conference on Inventive Systems and Control (ICISC-2017), pp:428-433, India

- Harendra Panchal and Chirag N. Paunwala, "Analysis of Object Detection and Tracking Algorithms based on Techniques: A Review" in National Conference on Recent Trends in Computer and Communication Technology (RTCCT 2016), 10-11 May 2016.
- Mansi Parmar, Chirag N. Paunwala, " Basic Approaches for Image Inpainting", 2nd International conference on Engineering: Issues, Opportunities and Challenges for Development (EIOCD), pp: 1-6, 9th April, 2016, India
- Pooja Shah, Chirag N. Paunwala, " Color and Texture based CBIR Approaches", 2nd International conference on Engineering: Issues, Opportunities and Challenges for Development (EIOCD), 9th April, 2016, India
- Heena Patel, Chirag N. Paunwala, Aarohi vora, "Hybrid Multi-biometric Cryptosystem based on Feature level fusion, IEEE International Conference on Wireless Communications Signal Processing and Networking (WiSPNET 2016), pp: 1130-1135, Chennai, India, 23-25 March, 2016
- Dhara Marwadi, Maulin Joshi, Chirag N. Paunwala, Aarohi vora, "Comparative Analysis of 3D Face Recognition Using 2D-PCA and 2D-LDA Approach", 5th Nirma University International Conference on Engineering (NUiCONE 2015), 2015
- Krishna Desai, Salman Bombaywala and Chirag N. Paunwala, "Sparsity based Image Inpainting using Optimisation Techniques", IEEE Region 10 international Conference (TENCON 2015), Macao, China, 1-4 November, 2015.
- Salman Bombaywala, Pratikgiri Goswami and Chirag N. Paunwala, "comparative analysis of exemplar based image inpainting techniques", selected for oral presentation in 2nd IEEE International Conference on "Emerging Technology Trends in Electronics, Communication and Networking (ET2ECN-2014), SVNIT, Surat, 26-27 December, 2014
- Aarohi Vora, Chirag N. Paunwala, Mita Paunwala, "Statistical Analysis of Various Kernel Parameters on SVM Based Multimodal Fusion ", selected for oral presentation in IEEE INDICON 2014, pp:1-5, pune, 11-13 Dec 2014.
- Aarohi Vora, Chirag N. Paunwala, Mita Paunwala, "Nonlinear SVM Fusion of Multimodal Biometric System", International Multi Conference on Innovations in Engineering and Technology, IMCIET 2014 under International Conference on Communication and

	- Computing track, ICCC 2014, Elsevier Publications, Bangalore, to be held on 21-23 August 2014. - Aarohi Vora, Chirag N. Paunwala, Mita C. Paunwala "Improved Weight Assignment Approach for Multimodal Fusion" IEEE International Conference on Circuits, Systems, Communications and Information Technology Applications, Mumbai, pp:70-74,2014 - Pratikgiri Goswami and Chirag N. Paunwala, "Exemplar-based Image Inpainting Using ISEF for Priority Computation" IEEE International Conference on Circuits, Systems, Communications and Information Technology Applications , Mumbai, pp:75- 80,2014 - Jignasha Valvi and Chirag N. Paunwala, "Learning Based Single Frame Super-resolution Using Lorentzian Error Norm & Gabor Filter" IEEE International conference on Signal Processing, Computing and Control, September, 26-28, 2013 - Pratixa Mistry and Chirag N. Paunwala, "Fusion Fingerprint Minutiae Matching System for Personal Identification" is selected and online presented at 2013 IEEE International Conference on Computing, Communication and Networking Technologies (ICCCNT) 2013 - Chirag N. Paunwala and Suprava Patnaik , "License Plate Localization Using Bimodal Attributes, IASTED International Conference on Computer Vision, Vancouver, Canada, pp: 262-267, 2011 - Chirag N. Paunwala, Suprava Patnaik, Miraj shah and Sulay shah, " Novel Edge Mapping Technique for License Plate Localization" , Proceeding of world congress on engineering and computer science, vol.1, WCECS 2011, Sanfrancisco, USA, October, 2011 - Vaishali Patel, Chintan K. Modi, Chirag N. Paunwala, Suprava Patnaik, "Hybrid approach for single image super resolution using ISEF and IBP: specific reference to license plate", IASTED International Conference on Computational Photography, pp: 152-157 Vancouver, Canada, 2011 - Nipa D. Modi, Chintan K. Modi, Chirag N. Paunwala, Suprava Patnaik, "Skew correction for Vehicle license plates using principal component of Harris Corner features", IEEE International Conference on Communication Systems and Network Technologies (CSNT-2011), pp:339-343, June 03-05, 2011, India. - Vaishali Patel, Chintan K. Modi, Chirag N. Paunwala, Suprava Patnaik, "Hybrid approach for single image super resolution using ISEF and IBP", IEEE International Conference on Communication Systems and Network Technologies (CSNT-2011),), June 03- 05, 2011, India.

	• Nipa D. Modi, Chirag N. Paunwala, Chintan K. Modi, Suprava Patnaik, "Implementation of PCA based approach for Indian vehicle license plates", 2nd International conference on Information, Signal and Communication, pp:1-4, 2011 (ISBN:978-1-6123-3002-0) • Vaishali Patel, Chintan K. Modi, Chirag N. Paunwala, Suprava Patnaik, "Advances in image super resolution: A survey", Proceedings of Second International Conference on Signals, Systems & Automation (ICSSA-11), India, pp: 451-455, Jan- 2011. ((ISBN:978-1-6123-3002-0) • Chirag N. Paunwala, Suprava Patnaik and Manoj Chaudhary, "An Efficient Skew Detection of License Plate Images Based on Wavelet Transform and Principal Component Analysis", IEEE International Conference on Signal and Image Processing, pp:17-22, 2010 • Chirag N. Paunwala, Suprava Patnaik and Manoj Chaudhary " Multiple License Plate Extraction Based on Mathematical Morphology and Component Filtering in Indian Traffic Condition", IEEE International Conference on Advances in Recent Technologies in Communication and Computing, pp:240-242, Oct-2010 • Chirag N. Paunwala and Suprava Patnaik, "An Improved License Plate Extraction fTechnique Based on Gradient and Prolonged Haar Wavelet Analysis" ACM International Conference and Workshop on Emerging Trends in Technology, pp:618- 622, 2010 • Chirag N. Paunwala, Suprava Patnaik and Mita C. Paunwala, " License plate extraction based on gradient analysis and mathematical morphology", National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG), LNMIIT, Jaipur, India, 2010 • Chirag N. Paunwala and Suprava Patnaik, "License Plate Extraction based on Gradient and Haar Wavelet Analysis" at International Conference on Signals Systems and Automation, pp:41-44, 2009 • Chirag N. Paunwala, Mita C.Paunwala, Upena Dalal, "A Robust Digital Watermarking", Proceedings of International Conference on Cognition and Recognition, pp:292-297, 2008 • Chirag N. Paunwala, Mehul S. Raval, "Secure information by digital data embedding in transform domain technique", Proceeding Of International Conference on Next Generation Communication System, pp.266-271, 2006	
No. of Books published with details	**No. of Books published**	0
	Details of Books	--

Name of the Teaching Staff	Prof. Neeta Chapatwala
Date of Birth	12/6/1976
Unique id	1-411390163

Education Qualifications

B.E	Electronics (Communication)	S.G.U.	1998	77
M.Tech	Communication System	SVNIT	2008	8.8 7CGPA

Work Experience (in years)	Teaching	Research	Industry	others
	17	Nil	Nil	Nil

Area of Specialization	Speech and Audio Processing, Wireless Communication

Courses taught at	**Diploma Level**	Nil
	Post Diploma Level	Nil
	Under Graduate Level	Wireless Communication, Digital communication, Electonics Devices & Circuits, Digital Circuits, Digital Electronics
	Post Graduate Level	Wireless and mobile communication
	Post Graduate Diploma Level	Nil

Research guidance	**No. of papers published in National/International Journals/Conferences**	18
	Master	8
	Ph.D.	Nil

Projects Carried out	Nil
Patents	Nil
Technology Transfer	Nil

Research Publications	• Jay Modi, Neeta Chapatwala," A Review Of Multilevel Multibiometric Fusion System", International Journal on Future Revolution in Computer Science & Communication Engineering ISSN: 2454-4248 ,Volume: 4, Issue: 4 ,Pg. 412 – 416, April 2018.Proof IJFRCSCE | April 2018, Available @ http://www.ijfrcsce.org
	• Binal Prajapati, Neeta Chapatwala,"A review on emotion detection of speech signal"National conference on Recent Advances in Circuits, Communication and Computing Technology,RACCCT 2017,25th -26th March-2017, ISBN:978-81-933591-3-6.Proof
	• Naman Agarwal, Sanjay Suthar, Pritesh Saxena, Ketki Pathak, Neeta Chapatwala,"Sign Language Recognition System Using I.O.T.", National conference on Recent Advances in Circuits, Communication and Computing Technology,RACCCT 2017,25th -26th March-2017, ISBN:978-81-933591-3-6.Proof
	• Dhwani Desai, Neeta Chapatwala, "Brain extraction methods for MRI", International journal on Innovative research in electrical, electronics, instrumentation and control engineering(IJIREEICE),ISSN:2321-2004,Vol 4, issue 5,May 2016. Proof
	• Dhwani Desai, Neeta Chapatwala,"A survey on brain extraction methods for MRI", National conference on emerging research trends in engineering(NCERTE-2016),4th to 6th April 2016,Chankheda,Ahmedabad.Proof
	• Jigisha Patel, Neeta Chapatwala,"FFT based sum product decoding algorithm of LDPC coder for GF(q)",International Conference on Emerging Technology Trends In Electronics, Communication and Network(ET2ECN) ,26-27 December 2014,SVNIT,Surat.Proof
	• Jigisha Patel, Neeta Chapatwala, Mrugesh Patel, "Performance evaluation of Bit flipping and Sum product algorithm of LDPC coder in different channel nvironment", International Journal of Engineering Development and Research (IJEDR), ISSN:2321-9939, Vol.2, Issue 2, pp.2234-2240,June2014,Available :http://www.ijedr.org/papers/IJEDR1402153.pdf
	• Milind Kansara, Neeta Chapatwala, "Noise reduction from speech signal using Perceptual Wavelet Packet Transform", National Conference , Delhi College, May 2013, ISBN No: 978-93-83083-16-9 Proofs
	• Milind Kansara, Neeta Chapatwala, "Noise Reduction from the Speech Signal using Wavelet Packet Transform", International Journal of Electronics and Computer Science Engineering (IJECSE-2013), ISSN: 2277-1956 / V2 N2-Pg.No.745-751Proof
	• Milind Kansara, Neeta Chapatwala, "Noise reduction from speech signal using Wavelet Transform", National Conference on Innovative & Emerging Technologies

		(NCIET)-2013, Smt. S R Patel Engineering College, Unjha, January-2013.ISBN No : 978-81-925650-0-2 Proof
		• Mrugesh Patel, Neeta Chapatwala, "Image Transmission over AWGN channel using Low Density Parity Check Code ",National conference on Signal Processing & Cmmunication Technology(NCSPCT-13), Delhi College. ISBN No: 978-93-83083-16-9 Proof
		• Mrugesh Patel, Neeta Chapatwala, "Low Density Parity Check Code for Burst Error Correction", National Conference on Innovative & Emerging Technologies (NCIET)-2013, Smt. S R Patel Engineering College, Unjha ISBN No : 978-81-925650-0-2 Proof
		• Kinnal Dhameliya. Neeta Chapatwala, "Psychoacoustic Model for MPEG-2 Low Complexity Advanced Audio Coder ", National Conference on Recent Advancements in Engineering. NCRAE-12, Sanjeevan Engineering & Technology Institute, Kolhapur, Maharashtra, 22nd-23rd June-2012, ISBN : 978-93-82062-41-7Proof
		• Kinnal Dhameliya. Neeta Chapatwala, "Different Audio Coding Techniques", International Conference on Information, Knowledge & Research in Engineering, Technology & Science-2012. ICIKR-ETS-2012, G.K. Bharad College of Engineering & Technology, Rajkot, 24th-25th March-2012, ISBN : 978-81-906220-3-5Proof
		• Krunal Dhimmer, Neeta Chapatwala, " CELP coder with comparison for different bit rate ", National Conference on Recent Advances in Communication, Control and Computing Technology (RACCCT 2012), SCET, Surat, 29 – 30 March, 2012, ISBN 978-81-88894-34-5.Proof
		• Krunal Dhimmer, Neeta Chapatwala, "Different Speech Coding techniques", National conference Power Systems, Embedded Systems, Power Electronics, Communication & Control, Instrumentation (PEPCCI-2012), SVIT, Vasad, 11th January, 2012, ISBN Number: 938128606 – X Proof
		• Neeta Chapatwala, J.N.Sarvaiya, "Real time implementation of LPC-10 coder using TMS320C6713 DSP processor", International Conference on Communication, Computers & Instrumentation '09, VESIT, Mumbai. 2nd-3rd January, 2009.(proof)
		• Neeta Chapatwala, J.N.Sarvaiya, " Linear Predictive Coder at Various Bit rates ", National Conference on Advancement in Wireless Technologies and its Applications, S.V.N.I.T, Surat, 18th -19th Decemeber,2008.(proof)
		• Neeta Chapatwala, J.N.Sarvaiya, "Code Excited Linear Predictive Coder ", National Conference on Advancement Communication, AlagappaCollege of Engg. & Tech.,Karaikudi, 13th -14th March, 2008.(Proof)
No. of Books published with details	**No. of Books published**	Nil
	Details of Books	Nil

Name of the Teaching Staff	Prof. Ketki Pathak

Date of Birth	6/7/1978

Unique id	1-411390167

Education Qualifications	B.E.	ELECTRONICS	S.G.U.	2000	76%
	M.S.C	TELECOME TECHNOLOGY	SIKKIM MANIPAL UNIVERSITY (DISTANCE LEARNING	2007	69.85%
	M.Tech	COMMUNICATION SYSTEM	S.V.N.I.T,Surat	2009	8.92 (CGPA)
	PhD		S.V.N.I.T., Surat	2014(persuing)	

Work Experience (in years)	Teaching	Research	Industry	others
	13	Nil	Nil	Nil

Area of Specialization	Signal and Image Processing, VLSI, Wireless Communication

Courses taught at	**Diploma Level**	Nil
	Post Diploma Level	Nil
	Under Graduate Level	Digital Signal Processing, VLSI Design and Technology, Fundamental of Image Processing , Fiber Optic Communication, Electronic Communication
	Post Graduate Level	Information Theory and Coding , Wireless Cellular and Networking, Wireless Communication, Advanced Digital Communication
	Post Graduate Diploma Level	Nil

Research guidance	**No. of papers published in National/International Journals/Conferences**	30

	Master	8	
	Ph.D.	Nil	

Projects Carried out	Nil

Patents	Nil

Technology Transfer	Nil

Research Publications	**Paper Published (International Journal)**

Sr. No	Title of the paper	Name of the Conference	Organization /Institute
1	Compressive Sensing Based Image Reconstruction using Wavelet Transform	International Journal of Engineering and Technology (IJET)	IJET,VOLUME 9 Issue 3S ICMTES Committee
2	Compressive Sensing Based Image Reconstruction	International Journal of Recent Trends in Electronics and Communication	IJRTEC, Volume 1 Issue 1, April-2017
3	Temper Localization In Wavelet Domain Using Semi-Fragile Watermarking	International Journal of Engineering Development and Research	International Peer Reviewed , Open Access Journal, Vol.2 Issue 2 (IJEDR)
4	Implementation of the 5/3 Lifting 2D Discrete Wavelet Transform	International Journal of Engineering Development and Research	International Peer Reviewed , Open Access Journal, (IJEDR)

Paper Published (International Conferences)

Sr. No	Title of the paper	Name of the Conference	Organization /Institute	Date

		Compressive Sensing Based Image Reconstruction Paper(will be published on Springer)	1st EAI International Conference on "Future Internet technologies and trends "(ICFITT-2017)	Electronics Engineering Department, SVNIT, Surat	31 Aug-2September-2017
	1	Lossless Medical Image Compression Using Transform Domain Adaptive Prediction for Telemedicine	International Conference on Wireless Communications, Signal Processing and Networking(WiSPNET-2017)	Electronics & Communication Engineering Department, SSN College of Engineering, Chennai, India	22-24 March 2017
	2	Region of Interest based method for Image Compression for Telemedicine application Paper selected will be presented on 6/102016	International Association of Science and Technology for Development (IASTED) The First IASTED International Conference on Intelligent Systems and Robotics (ISAR-2016)	Zurich, Switzerland	October 6 – 8, 2016

	3	Edges based Intra-prediction in High Efficiency Video Coding (HEVC) Standard	2nd IEEE International Conference on Engineering and Technology (ICETECH-16),	Computer Science & EnggDept & Information Technology Dept.,RathinamTechnical Campus, Coimbatore, Tamil Nadu, India	17/3/2016-18/3/2016	
	4	Error Concealment Techniques using Intra-Modes and Weighted Interpolation in H.264 Decoder	International Conference on Computer Communication & Control	Medi-Caps Group of Institutions, Indore	10-12th Sept-2015	
	5	Comparative Analysis Of BER Performance Of DWT Based OFDM System With Conventional FFT Based OFDM System	1st International Conference on Emerging Technology Trends in Electronics, Communication and Networking(ET2ECN-12)	S.V.N.I.T, Surat	19th to 21st Dec-2012	
	6	Implementation of FIR Filter using Logarithmic Number System	International Conference on Information, Knowledge & Research in Engineering , Technology & Sciences-2012 (ICIKR-ETS-2012	G.K. BharadInstitute of Engineering , Rajkot, A.E.S. Sangli , Maharastra, India	24-25th March - 2012	

7	Digital Audio Watermarking using DCT	International Conference on Information, Knowledge & Research in Engineering , Technology & Sciences-2012 (ICIKR-ETS-2012	G.K. BharadInstitute of Engineering , Rajkot, A.E.S. Sangli , Maharastra, India	24-25thMarch - 2012
8	FPGA Implementation of initial Cell Search Algorithm for CDMA	International conference on communication, computer & Instrumentation,(ICCCI-09)	VESIT, Mumbai,	2nd-3rd January, 2009

➕ **Paper Published (National Conferences)**

Sr. No	Title of the paper	Name of the Conference	Organization /Institute
1	Error Detection and Compression algorithms for Video Transmission	IEEE Region 10 National conference on Humanitarian Technology Conference-2016(HTC-2016)	Dayalbagh Educational Institute of Technology, Agra, India
2	A Review on wavelet based medical image fusion paper	National Conference on Sustainable Computing and Information Technology(SCIT-2017)	SCET Multidisciplinary Conference in Engineering and Technology(SMDCET-2017), SCET, Surat
3	Linear Prediction for Hyper spectral Images Paper	RACCCT-2017(Proceeding)	Electronics & Communication Engineering Department , SCET, Surat

		4	Sign language reorganization using IoT based system paper	RACCCT-2017(Proceeding)	Electronics & Communication Engineering Department , SCET, Surat
		5	Cascade Classifier based Helmet detection using OpenCV in Image processing	National Conference on Recent Trends in Computer and Communication Technology" RTCCT 2016	MCA Dept., SCET, Surat
		6	Segmentation Method for Medical Ultrasound Signal Analysis	National Conference on Recent Trends in Computer and Communication Technology" RTCCT 2016	MCA Dept., SCET, Surat
		7	A Review Report on ROI Based Encoding and Compression Techniques for Medical Image	National Conference on Recent Trends in Computer and Communication Technology" RTCCT 2016	MCA Dept., SCET, Surat
		8	Evaluation of Intra prediction Mode Selection Algorithm in H.264 Decoder	National Conference on Recent Trends in Information Technology	School of Technology, A uro University , Surat
		9	Error Concealment Algorithm For H.264 Decoder: A Review	National Conference on Recent Trends in Information Technology	School of Technology, A uro University , Surat
		10	Analysis of Wavelet Based OFDM System	National conference on Technology and Management "NCTM-2012"	Sankalchand P atel college of engineering , Visnagar,Guj arat
		11	Implementation of FIR filter using different number system	National conference Power Systems, Emb edded System s, Power Elec tronics, Communicatio n & Control,	S.V.I. T. , Vasad

			Instrumentation "PEPCCI-2012"	
	12	Digital Audio Watermarking based on DCT and DWT	National conference Power Systems, Embedded Systems, Power Electronics, Communication & Control, Instrumentation "PEPCCI-2012"	S.V.I. T. , Vasad
	13	FPGA based PWM techniques for controlling inverter	National conference Power Systems, Embedded Systems, Power Electronics, Communication & Control, Instrumentation "PEPCCI-2012"	S.V.I. T. , Vasad
	14	Design and Analysis of Low Power Viterbi Decoder for CDMA Systems	VlSI Design and Test Symposium (VDAT-09)	Wipro Learning Centre, Bangalore,
	15	Design of Forward Error Correcting Turbo code for 3G system under fading channel	National Conference on Current Trends in Technology,(NUCONE-08),	Nirma University, Ahemedabad,
	16	Design and Performance Analysis of Turbo decoding Algorithm for CDMA system under AWGN and Rayleigh fading Channel	National Conference on Advancement in Wireless Technologies and its Applications,(AWATA-08),	S.V.N.I.T, Surat,

No. of Books published with details	No. of Books published	Nil
	Details of Books	Nil

Name of the Teaching Staff	Prof. Vandana Shah

Date of Birth	26/08/1978

Unique id	1-411390241

Education Qualifications					
	B.E	Electronics Engineering	SCET	2001	69.11%
	MBA	Human Resource Management	DBIM, VNSGU	2005	67%
	ME by Research	Electronics	NGP university	2012	A+
	PhD	Electronics	NGP university	Pursuing	

Work Experience (in years)	Teaching	Research	Industry	others
	13	Nil	Nil	Nil

Area of Specialization	VLSI, Microprocessor programming, Digital Electronics

Courses taught at	Diploma Level	Nil
	Post Diploma Level	Nil
	Under Graduate Level	Analog And Digital Communications, Satellite Communication, Pulse And Linear Circuits, Electronics Instrumentation, Applied Electronics , Advanced Microprocessor, Vlsi Design And Technology, Advance Processor
	Post Graduate Level	
	Post Graduate Diploma Level	Nil

Research guidance	No. of papers published in National/International Journals/Conferences	28		
	Master	6		
	Ph.D.	Nil		

Projects Carried out	Nil

Patents	Nil

Technology Transfer	Nil

Research Publications	National conference (paper presented/published):				
	Title of the Paper	Name of the conference	Name of the college	Place	Date
	"Inequality Effects Women Entrepreneurship"	National Conference on Exploring Potentialities Of Women In Engineering	Charotar institute	Changa	3rd, 4thJuly 2009.
	"ICMP Packet Attack and Counter measuremtns"	National conference on Recent Advance in Communication & computing Technology 2009, (GGCT'09)	Gyan Ganga College of Technology	Jabalpur	31stOct. – 1stNov., 2009.
	"Protect Privacy with Real World"	National conference on Recent Advance in Communication & computing Technology 2009, (GGCT'09)	Gyan Ganga College of Technology	Jabalpur	31stOct. – 1stNov., 2009.
	"GSM Modem Interfaced Data Logger System Implementation Using VLSI"	National conference on Recent Advance in Communication & computing Technology 2009, (GGCT'09)	Gyan Ganga College of Technology	Jabalpur	31stOct. – 1stNov., 2009.
	Improved K-Means algorithm by Hierarchical K-Means Algorithm	National Conference on Computer Science and Security	SVPIT (SardarVallabhbhai Patel Inst.	Vasad	April 5-6 2013

		of Tech.)			

International conference (paper presented/published):

Title of the Paper	Name of the conference	Name of the college	Place	Date
"Novelty in Teaching".	International Conference Fourth International and 40th annual ELTAI conference	ELTAI association(English Language Teachers' Association of India	Chinnai	9thAugust, 2009
"FPGA based Pico blazeembedded control system used for temperature controlling application"	4th IEEE international conference on Advanced computing and communication technologies	Asia Pacific Inst. Of Information Tech. SD India	Panipat	
"To implement Cryptographic model for secure communication on FPGA using 32-bit ALU unit",	International conference on signal and image processing 2010,	Chinnai		
"Picoblaze embedded control system used for DC motor and Temperature	2nd international conference on signals, systems and automation.	GCET(G H Patel college of Engg. & Tech)	VallabhVidhyanagar	24-25 January 2011.

	controlling application based on FPGA"				
	"A Study of locating the satellite with respect to earth using 32-bit RISC Co-Processor for Matrix operations design by VHDL - FPGA Implementation"	2nd international conference on signals, systems and automation.	GCET(G H Patel college of Engg. & Tech)	VallabhVi dhyanagar	24-25 January 2011.
	Implement ation of CELP CODER and to evaluate the performanc e in terms of bit rate, coding delay and Quality of speech	2011 International Conference on Network and Computer Science (ICNCS 2011)		Kanyaku mari	8 -10 April, 2011
	Architectur e of hierarchica l k-means clustering for breast tumors	International conference on research and development in engineering, Technology and Science 2013	G.K.Bha rad Inst. Of Engg, TRAMB A	Rajkot	April 7, 2013
	Implement ation of Hard C-Means clustering algorithm for medical image	International conference on research and development in engineering, Technology and Science 2013	G.K.Bha rad Inst. Of Engg, TRAMB A	Rajkot	April 7, 2013

	segmentation				
	FPGA hardware based DES and BLOWFISH symmetric cipher algorithm for encryption and decryption of secured wireless data communication	International conference on research and development in engineering, Technology and Science 2013	G.K.Bharad Inst. Of Engg, TRAMBA	Rajkot	April 7, 2013
	Mean Shift Technique for Image Segmentation and Modified Canny Edge Detection Algorithm for Circle Detection	IEEE International Conference on Communication and Signal Processing- ICCSP'14	AdhiparasakthiEngcollege	Tamilnadu	3Rd, 4thand 5thApril 2014
	Brain Region Extraction Using MRI Image Processing To Aid Neurology System Of Patient	Fourth International Conference on Advances in Information Processing and Communication Technology - IPCT 2016	Rome, .	Italy	Dated 18-19 August, 2016

A Robust and Efficient Approach for ImageDenoising and Brain Region Extraction to Aid Neurology System of Patient	The Second International Conference on Internet of Things, Data and Cloud Computing, ICC 2017, Cambridgeuniversity, UK	Churchill College, 22-23 March 2017			

International/ National Journal:

Titles of paper presented in International/ National Journal	Name of the Journal	Date/Place/ISBN/ISSN Number (if any)
Microcontroller based gesture recognition system for the handicap people	International journal of advanced engineering technology journal of engineering research and studies.	ISSN number: 0976-7916 (JERS), 0976-3945 (IJAET)
CPLD based Stepper motor control application	International journal of advanced engineering technology journal of engineering research and studies.	ISSN number: 0976-7916 (JERS), 0976-3945 (IJAET)
Study of 32-bit RISC Processor Architecture and VHDL-FPGA Implementation 32-bit Matrix Manipulation	International journal for computer applications	ISSN number: 0975-8887(IJCA)
32*32 bit matrix coprocessor design using	International Journal of Advanced	ISSN 0976-3945 (IJAET)

		VHDL-FPGA Device for advanced RISC machine Operations	Engineering Technology	
		Cryptographic model for secure communication on FPGA using 32-bit arithmetic logic unit and minimized hardware requirement in Complex Data Encryption algorithm	Journal of Engineering Research and Studies (JERS).	ISSN 0976-7916
		Detection of Breast Tumor from Mammographic Image Using K-Means Clustering Algorithm	International journal on Data Mining and Knowledge Engineering, 2013-14	ISSN 0974 – 9683 & online: ISSN 0974 – 9578
		Image Denoising using FrameletTransform	International Journal of Advanced Research Electrical, Electronics and Instrumentation Engineering 2015	ISSN (Print) : 2320 – 3765 ISSN (Online): 2278 – 8875, Vol. 4, Issue 6, June 2015, DOI: 10.15662/ijareeie.2015.0406010 Pg. no 4959
		MRI Brain Image Segmentation using MST	International Journal of Advanced Research Electrical, Electronics and Instrumentation Engineering 2015	ISSN (Print) : 2320 – 3765 ISSN (Online): 2278 – 8875, Vol. 4, Issue 6, June 2015, Pg. no 5386
		Study on Effect of MRI Scanner on	International Journal of Computer	International Journal of

	Brain Tumour Detection	Applications July 2015	Computer Applications (0975 – 8887)Volume 121 –No.4, July 2015	
	Efficient T2 brain region extraction algorithm using morphological operation and overlapping test from 2D and 3D MRI images	International Journal of Biomedical Engineering and Technology	ISSN online 1752-6426 ISSN print 1752-6418	
No. of Books published with details	**No. of Books published**	Nil		
	Details of Books	Nil		

Name of the Teaching Staff	Prof. Sarosh Dastoor
Date of Birth	12/10/1978
Unique id	1-412297231

Education Qualifications			
	B.E. Electronics	Sarvajanik College of Engineering and Technology, Surat. 2001	First Distinction. (72 %)
	ME (Wireless communication Systems and Network)	Government Engineering College, Surat. (Gujarat Tech University) 2012.	First Distinction (CPI: 9.16)
	XII (HSC)	1997, St. Xaviers High School.	First Distinction 80%
	X (SSC)	1995, Sir J.J. High School	First Distinction 80%

	Avesta Proficiency (Religious Degree)	Dadar Athornan Institute, Mumbai.	Youngest Zoroastrian

Work Experience (in years)	Teaching	Research	Industry	others
	12	Nil	Nil	Nil

Area of Specialization	RF & Wireless Communication, Biomedical Instrumentation

Courses taught at	Diploma Level	Nil
	Post Diploma Level	Nil
	Under Graduate Level	Wireless communication, Digital Signal Processing, Analog Circuit Design, Digital Communication, Electromagnetics, Optical Communication
	Post Graduate Level	Nil
	Post Graduate Diploma Level	Nil

Research guidance	No. of papers published in National/International Journals/Conferences	15
	Master	10
	Ph.D.	NIL

Projects Carried out	Nil

Patents	Nil

Technology Transfer	Nil

Research Publications	International Journal Publications: - Sarosh Dastoor, Kiran Trivedi, "A Novel approach to integrate Speech Signal intacting the information using Steganography in Next Generation Mobile devices for enhanced Message Security", International journal of Graphics and Image Processing, vol. 2, issue 1, August 2011 (ISSN 2249-5452) - Sarosh Dastoor, Niteen Patel, "Adaptive Antenna System: Design and Applications for the Next Generation Mobile Devices", International Journal of Engineering and Innovative Technology vol. 1 Issue 2, 2012. (ISSN 2277-3754) Conference Publications: - Sarosh Dastoor "Audio Steganography for Covert Data Transmission", International Conference on Technology and Business Management, Dubai (March 16-18 2010)

	● Sarosh Dastoor, "Comparative Analysis of Steganographic algorithms intacting the information in the Speech Signal for enhancing the Message Security in next Generation Mobile Devices", World Congress on Information and Communication Technologies (WICT-2011), pp 279-284
	● Sarosh Dastoor, Tejas Patel, "Alternate Modified Method as a Novel Technique for securing data in Speech signal for the latest Generation of Smart Devices", International Conference on Information, Knowledge and Research in Engineering, Technology and Sciences-2012 , Rajkot(24-25 March 2012)
	● Sarosh Dastoor, Vintesh Patel, "A Novel Android based Mobile Application as a Virtue of Covert Communication for Concealing Information in the Speech Signal", International Conference on Emerging Technology Trends in Electronics Communication and Networking 2012 (ET2ECN-2012) 19-21 December 2012, pp 1-6.
	● Hetal Vaghani, Sarosh Dastoor, "Wavelet Packet Based OFDM", Annual IEEE India Conference (INDICON), 2014.
	● Yogesh Kapadiya, Sarosh Dastoor, "Spectrum Sending Technique for Primary user detection in Cognitive Radio", National Conference on Emerging Research Trends in Engineering (NCERTE-2016)
	● Rajendra Khemka, Sarosh Dastoor, "Comparative Performance of Heterogeneous Cells in 4G LTE systems", International Conference on Engineering: Issues, Opportunities and challenges for Development, April 2016. (ISSN 978-81-929339-3-1)
	● Harsh Shah, Sarosh Dastoor, "Optimization of Radio Network Parameters for LTE Systems", National Conference on Recent Trends in Computer and Communication Technology, May 10-11 2016. (ISBN: 978-93-5258-824-4)
	● Sarosh Dastoor, Upena dalal, Jignesh Sarvaiya, "Comparative analysis of Optimization Techniques for Optimizing radio network parameters of next generation Wireless Communication", 14th International Conference on Wireless and Optical Networks, 24-25 Feb 2017 (Thakur College of Engineering and Technology, Mumbai). ISBN: 978-1-5090-4884-7, Online ISSN 2151-7703 CD-ROM : CFP17604-CDR 978-1-5090-4883-0 DOI: 10.1109/WOCN.2017.8065843
	● Sarosh Dastoor, Upena Dalal, Jignesh Sarvaiya, "Issues, Solutions and Radio Network Optimization for the Next Generation Heterogeneous Cellular Network – A Review", IEEE International Conference on Wireless communication, Signal Processing and Networking (WISPNET), 22-24 March 2017, Chennai, India ISBN: 978-1-5090-4442-9/17

	● Sarosh Dastoor, Upena Dalal, Jignesh Sarvaiya, "Efficient dimensioning and Deployment criteria for Next Generation Wireless Mobile Network", 2nd International Conference on Information and Communication Technology for Intelligent Systems" 25-26 March 2017, Ahmedabad, India Springer SIST Series (ISSN No:- 2190-3018) DOI: 10.1007/978-3-319-63645-0_49 ● Diwakar Danecha, Kirit Bhuva, Sarosh Dastoor, "Energy Efficiency Analysis for LTE-A Heterogeneous cellular Network" International conference on Intelligent Systems and Signal Processing (ISSP 2017), March 24-25 2017, Vidyanagar, India.	
No. of Books published with details	**No. of Books published**	Nil
	Details of Books	Nil

Name of the Teaching Staff	Prof. Naresh Patel
Date of Birth	31/05/1980
Unique id	1-412297235

Education Qualifications	PhD	Signal and Image Processing	Gujarat Technological University	Pursuing	
	M.E	Communication System Engineering	L.D.College of Engineering / Gujarat University	2004	79.04 %

	B.E	Electronics & Communication	Govt.Engg. College, Modasa/ North Gujarat Univeristy	2001	72.69%	

Work Experience (in years)	Teaching	Research	Industry	others
	11	Nil	Nil	Nil

Area of Specialization	VLSI, Signal and Image Processing

Courses taught at	Diploma Level	Nil
	Post Diploma Level	Nil
	Under Graduate Level	Digital VLSI Design, Fundamentals of Image Processing, Adaptive Signal Processing, Engineering Electromagnetics
	Post Graduate Level	Nil
	Post Graduate Diploma Level	Nil

Research guidance	No. of papers published in National/International Journals/Conferences	19
	Master	9
	Ph.D.	NIL

Projects Carried out	Nil

Patents	Nil

Technology Transfer	Nil

Research Publications	International Conference : 1. Naresh Patel, Ketki Joshi, "FPGA Implementation of Initial Cell Search Algorithm for WCDMA ", International Conference on "Communication, Computer and Instrumentation" at VES Institute of Technology, Mumbai. 2nd & 3rd January, 2009 [Certificate Paper] 2. Jugal Desai, Naresh patel and Hitesh Dholakiya, "Design of wide slot fractal antenna for bandwidth enhancement" international conference on Information knowledge and

research in engineering ,technology and science, Rajkot, 24-25th march-2012 [Certificate Paper]

3. Patel, Naresh; Patel, Vatsalkumar; Patel, Vikaskumar; , "VHDL Implementation of UART with Status Register," IEEE International Conference on Communication Systems and Network Technologies (CSNT), vol., no., pp.750-754, 11-13 May 2012 doi:10.1109/CSNT.2012.164
URL: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6200736&isnumber=6200561 [Certificate Paper]

4. Mathukiya, Hitesh H.; Patel, Naresh M.; , "A Novel Approach for Parallel CRC Generation for High Speed Application," IEEE International Conference on Communication Systems and Network Technologies (CSNT), 2012, vol., no., pp.581-585, 11-13.May,2012.doi:10.1109/CSNT.2012.131.
URL: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6200618&isnumber=6200561 [Certificate Paper]

5. Patel, N.; Patel, N., "VHDL implementation of UART with BIST capability," Computing, Communications and Networking Technologies (ICCCNT),2013 Fourth International Conference on , vol., no., pp.1,5, 4-6 July 2013
URL: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6726476&isnumber=6726462 [Certificate Paper]

6. Sandip Gajera, Naresh Patel, Hitesh Dholakiya, "Slot Based Microstrip Antenna for WLAN and Wi-Max Applications", International Confererence on Research & Development In Engineering, Technology & Science -2013 (ICRD-ETS-2013), Rajkot, 7 April, 2013, and ISBN: 978-81-906220-8-0, Page 064-062 [Certificate Paper]

7. Naresh Patel, Himanshukumar Soni, "Anomaly detection using VCA algorithm for Multi-temporal Hyperspectral Images", IEEE International Conference on Wireless communication, Signal Processing and Networking (WISPNET), 22-24 March 2017, Chennai, India . ISBN: 978-1-5090-4442-9/17 [Certificate Paper]

National Conference:

1. Sandip Gajera, Naresh Patel, "Comparative Analysis of Microstrip Line and Coaxial Feeding techniques for

RMSA", NCETSCT-2013, Bareilly, 6th April, 2013 [Certificate Paper]

2. Sandip Gajera, Naresh Patel, Hitesh Dholakiya, "Dual Band Symmetrical Trapezoid Slot Based MSA for WLAN and Wi-Max Applications", NCSPCT-2013, Delhi, May 2013, and ISBN: 978-93-83083-16-9. [Certificate Paper]

3. Naresh Patel, Hitesh Mathukiya, " Analysis of different techniques of Parallal CRC Computation" National Conference on technology and management, at Sankalchand Patel College of Engineering and Technology, Visnagar, Gujarat during 20-21 January ,2012 [Certificate Paper]

4. Hitesh H. Mathukiya, Naresh Patel, "F-matrix based parallel CRC for USB application", national conference on Recent Advances in Communication Control and Computing Technology (RACCCT), pp-178-181, Surat,29 -30th march-2012 [Certificate Paper]

5. Mrugesha Lad, Naresh Patel, " A survey of Image Forgery Techniques and Forgery Detection", National Conference on Emerging Research Trends in Engineering, (NCERTE-2016) [Certificate]

International Journal:

1. Naresh Patel, Himanshukumar SOni, (In press) "Automated extraction of dominant endmembers from hyperspectral image using SUnSAL and HySime", International Journal of Computer Aided Engineering and Technology , ISSN 1757-2657 DOI: 10.1504/IJCAET.2020.10010900

2. Khushbu K. Matiada, Prof. Naresh Patel, "Performance Analysis of SUnSAL", April 18 Volume 4 Issue 4 , International Journal on Future Revolution in Computer Science & Communication Engineering (IJFRSCE), PP: 614 – 619[certificate paper] [UGC Approved] http://www.ijfrcsce.org/browse/volume-4/april-18-volume-4-issue-4/54

3. Sandip Gajera, Naresh Patel, Hitesh Dholakiya, "Slot Based Microstrip Antenna for WLAN and Wi-Max Applications", International Journal of Information, Knowledge and Research in Electronics and Communication Engineering, ISSN: 0975 – 6779| NOV 12 TO OCT 13 | VOLUME – 02, ISSUE – 02, Page|450-452 *www.ejournal.aessangli.in/*ASEEJournals/*EC86.pdf* [Certificate Paper]

4. Sandip Gajera, Naresh Patel, "Comparative Analysis of Microstrip Line and Coaxial Feeding techniques for Rectangular Microstrip Patch Antenna", International Journal of Electronics and Computer Science Engineering (IJECSE), ISSN: 2277-

	1956/Volume-2 Number- 2, pp 719-725, 6 April, 2013, Bareilly. http://www.ijecse.org/w content/uploads/2013/04/Volume-2Number-2PP-719-725x.pdf [Certificate Paper]	
	5. Jugal Desai, Naresh Patel and Hitesh Dholaki "Design of wide slot antenna for bandwid enhancement" International Journal of Electron Signals and Systems (IJESS) ISSN: 2231- 5969, Vo Iss-3, 2012, pp 84-86 http://www.interscience.in/IJESS_Vol1Iss_3/paper16. f [Certificate Paper]	
	6. Mrugesha lad, Naresh Patel, "Passive Digital Ima Forgery Detection Techniques and Implementatio INTERNATIONAL JOURNAL OF INNOVATIV RESEARCH IN ELECTRICAL, ELECTRONIC INSTRUMENTATION AND CONTRO ENGINEERING (IJIREEICE), ISSN (Online) 2321 2004 , ISSN (Print) 2321 – 5526.Vol. 4, Issue 5,pp 41 424, May 2016 www.ijireeice.com/upload/2016/may-16/IJIREEICE%2099.pdf [Certificate Paper]	
No. of Books published with details	**No. of Books published**	Nil
	Details of Books	Nil

Name of the Teaching Staff	Pro. Dhiren Bhagat
Date of Birth	22/11/1979
Unique id	1-412297239
Education Qualifications	B.E. Electronics, SCET Surat, VNSGU Surat M.E. Wireless Communication Systems & Networks, GEC Surat, GTU Ahmedabad PhD Pursuing, Wireless Sensor Network, GTU Ahmedabad

Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	12.5	Nil	Nil	Nil

Area of Specialization	Computer Networks and Data communication, Wireless Sensor Network	
Courses taught at	**Diploma Level**	Nil
	Post Diploma Level	Nil
	Under Graduate Level	Computer Network, Wireless Sensor Network, Integrated Electronics, Advance Electronics, Basic Electronics, Micro-processor, Micro-controller, Software Development Tool
	Post Graduate Level	
	Post Graduate Diploma Level	Nil
Research guidance	**No. of papers published in National/International Journals/Conferences**	11
	Master	6
	Ph.D.	Nil
Projects Carried out	Nil	
Patents	Nil	
Technology Transfer	Nil	
Research Publications	- Prof. Dhiren Bhagat, Prof. Nehal Shah "Multimedia Transmission For Wired Network Using IP Multicast " National Conference on Technology and Management "NCTM-2012" ISBN : 938128606 – X - Prof. Dhiren Bhagat, Bhavesh Tandel "Dynamic Base Station Repositioning using Particle Swarm Optimization in Wireless Sensor Network" National Conference on Computer Science and Security (COCSS 2013) ISBN:978-81-923462-0-5 - Prof. Dhiren Bhagat, Prof. Nehal Shah " IP Multicast Transmission Of Layered Video", International Conference On Information, Knowledge & Research In Engineering, Technology & Science (2012) ISBN: 978-81-906220-3-5 - Prof. Dhiren Bhagat, Bhavin Mistry " Software Agent in WSN: A Review", International Conference On Innovation in Electrical and Electronics Engineering (ECIEEE 2015), June 2015, ISBN: 978-93-85225-26-6 - Dhiren P Bhagat, Himanshukumar Soni "Energy optimized target tracking with enhanced life time of the wireless sensor network", IEEE International Conference on Wireless Communication Signal processing and Networking, 22 to 24 March, WiSPNET 2017, ISBN: 978-1-5090-4442-9 Chennai	

- Prof. Dhiren Bhagat, Bhagyesh Patel "Shifting of Sink Position in Wireless Sensor Network" International Journal of Engineering Development and Research (2014) IJEDR|ISSN: 2321-9939
- Topre Nishita, Dhiren P. Bhagat, "Target Tracking In Wireless Sensor Network Using Particle Filter", April 18 Volume 4 Issue 4 , International Journal on Future Revolution in Computer Science & Communication Engineering (IJFRSCE), PP: 452 – 458
- Himani Patel, Dhiren P. Bhagat, "Estimation Of Target Movement In Wireless Sensor Network", April 18 Volume 4 Issue 4 , International Journal on Future Revolution in Computer Science & Communication Engineering (IJFRSCE), PP: 459 – 463
- Dhiren P Bhagat, Himanshukumar Soni "A wide range comparison of Routing Protocols in wireless sensor network", International Journal of Applied Engineering Research, Volume 13, Number 19 (2018) pp. 14128-14134, ISSN 0973-4562
- Dhiren P. Bhagat, Himanshukumar Soni "Target tracking in a wireless sensor network using a multi-step KF-PSO model" International Journal of Computers and Applications, Taylor & Francis, 2019, ISSN 1206212X P

No. of Books published with details	No. of Books published	Nil
	Details of Books	Nil

Name of the Teaching Staff	Prof. (Dr.) Pranav Lapsiwala
Date of Birth	25/05/1980
Unique id	1-412297367
Education Qualifications	Ph.D. Electronics Engineering (Wireless Sensor Network) M.Es Telecommunication Network (University of Technology, Sydney, Australia) B.E. Electronics & Communication (South Gujarat University)

Work Experience (in years)	Teaching	Research	Industry	others
	9	Nil	Nil	Nil

Area of Specialization	Computer Networks, Wireless Sensor Network, Embedded and Automation Systems, Mobile Application, Wireless Communication	
Courses taught at	**Diploma Level**	Nil
	Post Diploma Level	Nil
	Under Graduate Level	Basic Electronics , Wireless Communication , Optical Communication, Satellite Communication, Analog Electronics, Electrical and Electronics Workshop, Simulation and Design Tool, Industrial Automation,
	Post Graduate Level	Telecommunication Switching System, Networks, Network Management, Fiber Optics Communication, Sensor Technology, Wireless and Mobile Communication
	Post Graduate Diploma Level	Nil
Research guidance	**No. of papers published in National/International Journals/Conferences**	34
	Master	12
	Ph.D.	1
Projects Carried out	Nil	
Patents	1. Title of Invention: Multicasting Energy Efficient protocol for Wireless Sensor Netowork a. Inventors & Applicant: Pranav B Lapsiwala / Dr. R.V. Kshirsagar b. Application No: 201721019611 c. Publication date: 22/12/2017 d. Publication Journal: Official Journal of The Patent Office India with issue no: 51/2017 on 22nd December, 2017	
Technology Transfer	Nil	
Research Publications	**International Journals** 1. Krunal Patel, Pranav Lapsiwala, "A Surveying of Routing Protocol for Mobile Ad-hoc Network", AES Journal of Information Knowledge and Research in Electronics and Communication Engineering, India, Issue 1, Vol 2, pp. 220-223. ISSN No: 0975-6779 (Certificate Hard Copy) 2. Parth patel, P.B.Lapsiwala, R.V.Kshirsagar," Data Aggregation in Wireless Sensor Network", International Journal of Multidisciplinary research Academy (IJMRA), Volume-2,Issue-7, pp. 457-472, July-2012, (ISSN NO: 2249-0558). (Soft Coy, Internet)	

3. P.B.Vasava, S.R. Panchal, P.B.Lapsiwala, "Design and Simulation of Clock Synchronization Algorithm for Mobile Ad-Hoc Networks", International Journal of Multidisciplinary research Academy (IJMRA) , July 2012. (ISSN NO: 2249-0558). (Soft Coy, Internet)

4. Paresh Patel, P.B.Lapsiwala, "Routing Protocol in Ad-Hoc Mobile Networks: A Survey", International Journal of Multidisciplinary research Academy (IJMRA), August-2012, (ISSN NO: 2249-0558). (Soft Coy, Internet)

5. Paresh Patel, P.B.Lapsiwala, R.V.Kshirsagar," AODV Routing Protocol in Ad-Hoc Mobile Networks: A Survey", AES International Journal of Information, Knowledge and Research in Electronics and Communication Engineering, Nov-11 to Oct-12. Volume-2, issue-1, pp.236-239, (ISSN NO: 0975-6779). (Certificate Hard Copy)

6. Rohan Chaudhari, Dharmistha Vishwakarma, Pranav Lapsiwala "Energy Efficient LEACH Protocol for Wireless Sensor Network", International Journal of Advanced Research in Computer Science and Electronics Engineering, Jan-13, Volume 2, issue-1, pp. 23-26 (ISSN NO: 2277 9043). (Certificate Hard Copy)

7. Gamit AkshayKumar, Pranav Lapsiwala," Intelligent Car Speed Control Using Fuzzy Logic", International Journal of Engineering Research And Technology, Jan-13, Volume 6, issue-3, pp. 171-175. (ISSN NO: 0974-3154). (Certificate hard copy), (hard copy of paper)

8. Mauhik Thakkar, Pranav Lapsiwala, " An Enhanced Approach for Object Image Enhancement using Cellular Learning Automata", International Journal of Engineering Development And Research (IJEDR), June-2014, Volume 2, issue-2, pp. 2581-2587. (ISSN NO: 2321-9939). (Certificate Hard Copy)

9. Mauhik Thakkar, Pranav Lapsiwala, "Comparative Analysis of EDGE detection using Fuzzy Set theory and Automata theory with existing edge detection method with CLA", International Journal of Engineering Development and Research (IJEDR), December- 2014, Volume 2, issue -4, pp. 3718-3724. (ISSN NO: 3718-3724). (Soft Coy, Internet)

10. Aksh Patel, Pranav Lapsiwala, "Image Morphing Algorithm: A Survey", International Journal of Computer Application, April-2015, Volume 5, issue-3, pp. 156-160. (ISSN No: 2250-1797). (soft Copy, internet)

11. Rucha Pawar, Vaishali Mungurwadi, Pranav Lapsiwala, "Wireless Mesh Network Link Failure Issues and Challenges: A Survey", International Journal of Scientific Research in Network Security and Communication (IJSRNSC), June-2018, Volume 6, Issue-3. (ISSN NO: 2321-3256) (UGC Approved).

12. Pranav Lapsiwala, "Optical Sensor for Analysis of Amonia, Iron and Manganese Nutrients", International Journal of Engineering & Technology (IJET), pp. 288-291, Vol. 7, Issue 5, September 2018. (SCOPUS INDEX). (DOI : 10.14419/ijet.v7i4.5.20091)

International Conferences

1. Pranav Lapsiwala, Dr. R. V. Kshirsagar "Authentication and Intrusion Detection Topology for Wireless Sensor Network ", International Conference on Electronics, Information and Communication System Engineering ICEICE – 2010, pp. 579-584, Jodhpur, 28th – 30th March, 2011. (ISBN NO: 978-93-5033-146-0) (Certificate, Hard Copy)

2. Pranav Lapsiwala, Dr. R.V.Kshirsagar, "RSSI Based Localization for indoor environment with error correction scheme for Wireless Sensor Networks", International Conference on Emerging Trends in Engineering (ICETE-11), pp. 88-91, Udupi, , 4th -5th May, 2011. (ISBN NO: 978-93-81195-07-9) (Hard Copy of Proceeding)

3. Pranav Lapsiwala, Dr. R.V. Kshirsagar, "Security Threats, Attacks and Countermeasure, Trust Model in Wireless Sensor Network: Research Challenge", 5th IEEE International conference on Advance Computing & Communication Technologies (ICACCT- 11), pp. 37-39, 5th October, 2011. Panipat. India. (ISBN NO: 81-87885-03-3). (soft copy of Proceeding)

4. Parth Patel, P.B.Lapsiwala, R.V.Kshirsagar,"Data Aggregation in Wireless Sensor Networks: A Survey", International Conference of Electronics and Communication Engineering (ICECE-2012), pp. 64-68, 3rd March, 2012, Bhopal, India. (ISBN NO: 978-93-81693-23-0).

5. Pratik Jariwala, Pranav Lapsiwala, "Performance Evolution of different detection techniques in V-BLAST", 4th IEEE International Conference on Computing Communication and Networking Technologies (ICCNT-2013), 4th -6th July, 2013, Tamilnadu, India. (ISBN NO: 978-1-4799-3925-1).

6. Divya Chauhan,Pranav Lapsiwala, "A survey of localization in wireless sensor network", (EIOCD-2015), 11th April 2015, S.N.P.I.T. of Technology & Research Center, Bardoli, India. (ISBN No: 978-81929339-1-7). (Hard copy of Proceeding Available)

7. Kunal Shah, Pranav Lapsiwala, "Multichannel Multi interface in Wireless Mesh Network", (EIOCD-2015), 11th April 2015, S.N.P.I.T. of Technology & Research Center, Bardoli, India. (ISBN No: 978-81929339-1-7). (Hard copy of Proceeding Available)

8. Sonak Patel, Pranav Lapsiwala," Network coding in Multihop Wireless Adhoc Network", (EIOCD-2015), 11th April 2015, S.N.P.I.T. of Technology &

Research Center, Bardoli, India. (ISBN No: 978-81929339-1-7). (Hard copy of Proceeding Available)

9. Shalu Mishra, Pranav Lapsiwala, "Survey on Fault tolearant Mechanism in WSN", (EIOCD-2015), 11th April 2015, S.N.P.I.T. of Technology & Research Center, Bardoli, India. (ISBN No: 978-81929339-1-7). (Hard copy of Proceeding Available)

10. Nancy Shukla, Pranav Lapsiwala," Congestion Control in Multihop WMN using Data Centric wireless control protocol ",(EIOCD-2015), 11th April 2015, S.N.P.I.T. of Technology & Research Center, Bardoli, India. (ISBN No: 978-81929339-1-7). (Hard copy of Proceeding Available)

11. Krupali Patel, Pranav Lapsiwala, "Image Cloning Research Challenges", International conference on Recent Advanced in Engineering Science & Technology, 15th May 2016, Ahemdabad, Gujarat. (Proceeding Soft Copy Available)

12. Dhaval Gajjar, Pranav Lapsiwala, " Selection of Customers for a message transmission system", IEEE international conference on Communication and Electronic System (ICCES 2016), 21-22 October 2016, PPG Institute of Technology, Coimbatore, India. (ISBN : 978-1-5090-1066-0), DOI : 10.1109/CESYS.2016.7889809

13. Hetali Patel, Pranav Lapsiwala, Vaishali Mungurwadi, "Flooding Based Time Synchronization in Wireless Sensor Network: A Survey", IEEE International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET), 22-24 March 2017, Chennai, India.

National Conferences

1. Pranav Lapsiwala, Mustafa Surti, Vandana Shah, "ICMP Packet Attack and Countermeasuremtns", National conference on Recent Advance in Communication & computing Technology 2009 (GGCT'09), 31st Oct. – 1st Nov., 2009. (Proceeding Hard Copy)

2. Vandana Shah, Pranav Lapsiwala, "GSM Modem Interfaced Data Logger System Implementation Using VLSI", National conference on Recent Advance in Communication & computing Technology 2009 (GGCT'09), 31st Oct. – 1st Nov., 2009. (Proceeding Hard Copy)

3. Mustafa Surti, Pranav Lapsiwala, "Active Power Filter for Harmonic Compensation", National Conference on Control Instrumentation System, (CISCON '09), 6th – 7th , Nov., 2009.

4. Pranav Lapsiwala, Dr. R.V. Kshirsagar, "Localization of deployed node for wireless sensor network", National Conference on Technology Driven Society (NCTDS-2011), pp. 144-147, Bardoli, 11th – 12th February, 2011.

	(ISBN NO: 978-93-81248-00-3) (hard Copy of Proceeding)
	5. Vandana Shah, Pranav Lapsiwala, " FPGA based priority driven load automation system for electric power transmission", National Conference on Advance in Wireless and Optical Communication Technologies -2010, Jaipur, 7th – 8th August, 2010
	6. Pranav Lapsiwala "PING Packet Attack and Counter Measure", National Conference on HACKTIVISM (ENVINSION – 2011), Kadi, 1st – 2nd, April 2011.
	7. P.B.Vasava ,S.R.Panchal P.B.Lapsiwala, "Analysis of Clock Synchronization of Mobile Adhoc Networks", National Conference on Power Systems, Embedded Systems, Power Electronics, Communications, Control and Instrumentation (PEPCCI-2012), Vasad, 09th Jan-11th Jan, 2012. (ISBN: 978-93-81286-06-7)
	8. S.Shan, P.B.Lapsiwala, "Implementation of Mobile database System for Mobility", National Conference on Advanced Trends in Applied Science and Technology (ATAST-2012), Surat, 27th -28th , January 2012.
	9. Krunal Patel, Pranav Lapsiwala, R.V.Kshirsagar " Performance Evaluation of DSR and AODV Routing Protocol for Mobile Ad-hoc Network", National Conference on use of soft computing technique for low cost Automization, J.D. College of Engineering, Nagpur, 13th -14th April, 2012.
	10. Paresh Patel, P.B.Lapsiwala, R.V.Kshirsagar," AODV and Modified AODV Routing Protocol in Ad-hoc Mobile Network", National Conference on use of soft computing technique for low cost Automization, J.D. College of Engineering, Nagpur, 13th -14th April, 2012.
No. of Books published with details	**No. of Books published**	Nil
	Details of Books	

Name of the Teaching Staff	Prof. Chhaya Suratwala
Date of Birth	16/10/1984
Unique id	1-412297363
Education Qualifications	

B.E	Electronics and Telecommunication.	NMU	2006	
M.Tech.	Communication System	SVNIT	2012	
Ph. D.*	Optical sensor	SVNIT	Continue.	

Work Experience (in years)	Teaching	Research	Industry	others
	9	Nil		Nil

Area of Specialization	Signal and Systems

Courses taught at	Diploma Level	Nil
	Post Diploma Level	Nil
	Under Graduate Level	Microwave Engineering, Electronic Communication, Analog Electronics
	Post Graduate Level	
	Post Graduate Diploma Level	Nil

Research guidance	No. of papers published in National/International Journals/Conferences	4
	Master	5
	Ph.D.	Nil

Projects Carried out	Nil

Patents	Nil

Technology Transfer	Nil

Research Publications				
	International Journal			
	1	Performance Analysis of OFDM System Using Non-conventional Transform and Non-conventional Mapping Schemes over Rayleigh Channel.	Journal of Communication Engineering & Systems	PP1-9, Vol2, Issue 1 2012 ISSN2249–8613
	2	Adaptive Neuro Fuzzy inference system to	Progress in engineering, Management,	Vol.1 Issue 2, PP 56-60, ISSN: 2395-7794,2015

		forecast BSE stock Market	Science and Humanities	
	International conference			
	1	Implementation of Hard C-Means clustering algorithm for medical image segmentation	International conference on research and development in engineering, Technology and Science 2013	April 2013
	National Conference			
	1	Performance of LS-Based Channel Estimation for Mobile WiMAX Downlink Partial Usage of Subchannel (DL-PUSC) Systems.	World Journal of Science and Technology 2012. Dhule Maharashtra	Feb,2013,

No. of Books published with details	**No. of Books published**	Nil
	Details of Books	Nil

Name of the Teaching Staff	Prof. Mustafa Surti

Date of Birth	17/12/1974

Unique id	1-412297491

Education Qualifications				
	B.E	Electronics and Communication.	Nagpur university	1996
	M.B.A	Marketing	Nagpur university	2000
	M.E	Character Recognization	Nagpur university	Pursuing

Work Experience (in years)	Teaching	Research	Industry	others
	14	Nil	Nil	Nil

Area of Specialization	Power electronics, Instrumentation and Automation Systems

Courses taught at	**Diploma Level**	Nil
	Post Diploma Level	Nil
	Under Graduate Level	Industrial Automation, Electronics device and Circuits, Audio Video systems, Power Electronics Devices and Circuits , Electronics Measure-ment and Instrumen-tation, Simulation and Design Tools
	Post Graduate Level	Nil
	Post Graduate Diploma Level	Nil

Research guidance	**No. of papers published in National/International Journals/Conferences**	7
	Master	Nil
	Ph.D.	Nil

Projects Carried out	Nil

Patents	Nil

Technology Transfer	Nil

Research Publications	Research Paper in National Conferences		
	Packet Attack andCountermeasure mtns Link	National conference on Recent Advance in Communication & computing Technology	31st Oct. – 1st Nov., 2009.
	Metamaterial Based Electrically Small Antennas	National conference on Recent Advance in Communication 2009	31st Aug. – 1st Oct., 2009.
	Active Power Filter for Harmonic Compensation	National Conference on Control Instrumentation System,	6th – 7th ,Nov., 2009

	(CISCON '09)		

Research Paper in International conference/ journal

Name of the faculty member	Title of the Paper	Name of the conference	ISSN Number	Date
MustafaSurti, Dr.(Prof)Anjaney Pandey	Indian Telecommunication Industry: An Overview	International Journal of Latest Technology in Engineering Management & Applied Science (IJLTEMS)	ISSN 2278-2540	29/05/2014
Mustafa Surti, Chintan Panchal	A STUDY: IDENTIFYING THE TRANSFORMATION OF THE EMBEDDED SYSTEMS INDUSTRY	International Journal of Research and Engineering	ISSN 2348-7852 ISSN 2348-7860	05/07/2015
Mustafa Surti, Chintan Panchal, Bhaumik Vaidya	Comparative study on low power display technique based on LCD systems with back-light as LED	International Journal of Research in Advanced Engineering and Technology, Volume 3 Issue 1	ISSN : 2455-0876, RJIF 5.44	01/01/2017
Prof. Bhaumik Vaidya Prof. Mustafa Surti Parth	Hardware Acceleration of Image Processing Algorithms using Vivado	International Conference on Intelligent Computin	IEEE Computer Society, Madu	15-16, June 2017.

	Vaghasiya Jay Bordiya Jenish Jain,	high level synthesis tool.	g and Control Systems (ICICCS 2017)	rai, TN, India		

No. of Books published with details	No. of Books published	Nil
	Details of Books	Nil

Name of the Teaching Staff	Prof. Pritesh saxena

Date of Birth	2/3/1985

Unique id	1-412297495

Education Qualifications	M.E., Ph.D. Pursuing

Work Experience (in years)	Teaching	Research	Industry	others
	11	Nil	Nil	Nil

Area of Specialization	Embedded System, Microprocessor Programming, Wireless Sensor Network

Courses taught at	Diploma Level	Nil
	Post Diploma Level	Nil
	Under Graduate Level	Embedded System, Advanced Microprocessor, Microcontroller and Interfacing, Microprocessor programming and Interfacing
	Post Graduate Level	
	Post Graduate Diploma Level	Nil

Research guidance	No. of papers published in National/International Journals/Conferences	5
	Master	3
	Ph.D.	Nil

Projects Carried out	Nil

Patents	Nil
Technology Transfer	Nil

Research Publications	International Journal:
	1. Patel Priyank and Pritesh Saxena " Energy Efficient Routing Protocol In Wireless Sensor Network- Advance LEACH-EE." International Journal of Engineering Development and Research. Vol. 2. No. 2 (June 2014). IJEDR, 2014.
	International Conference
	1. Pritesh Saxena, Ronik Patel, Bhargav Shah, "Review on Localization in Underwater Sensor Network" IEEE International Conference On Recent Trends In Electronics, Information & Communication Technology with
	2. Pritesh Saxena, Mrugesh Patel, Gopal Agarwal, "Recent Trends: Cell-Phone Power Management-Hardware Perspective" International Conference on: "Engineering: Issues, opportunities and Challenges for Development" ISBN: 978-81-929339-3-1
	National Conference:
	1. Pritesh Saxena, Mili Sukhadiya, "A survey on Localization of nodes in Underwater Sensor Networks", National Conference on Recent Advances in Circuits, Communication, and Computing Technology (RACCCT 2017), SCET, Surat, 25 - 26 March, 2017 , Proceeding of Conference with ISBN 978-81-933591-3-6.
	2. Pritesh Saxena, Sanjay Chauhan, Naman Agarwal, "Sign Language Recognition System Using I.O.T", National Conference on Recent Advances in Circuits, Communication, and Computing Technology (RACCCT 2017), SCET, Surat, 25 - 26 March, 2017 , Proceeding of Conference with ISBN 978-81-933591-3-6.

No. of Books published with details	**No. of Books published**	NIL
	Details of Books	NIL

Name of the Teaching Staff	Prof. Bhargav Shah				

Date of Birth	16/11/1985

Unique id	1-412652151

Education Qualifications	B.E	Electronics and Communication.	VNSGU	2007	
	M.E	Wireless Communication and Networking	GTU	2013	
	Ph.d		GTU	Pursuing	

Work Experience (in years)	Teaching	Research	Industry	others
	11			

Area of Specialization	Image Processing, Antenna and Wave Propagation

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Electronic Communication , Antenna & Wave Propagation, Basic Electronics, Analog Electronics,
	Post Graduate Level	Digital Signal Processing Algorithms
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	3
	Master	2
	Ph.D.	NIL

Projects Carried out	NIL

Patents	NIL

Technology Transfer	NIL

Research Publications	International Journal

	1	Keyursinh R Thakor,Bhargav Shah,Chintan Panchal, " Unequal Power Allocation For Image Transmission", International Journal of Engineering Development and Research (IJEDR), ISSN:2321-9939, Vol.2, Issue 2, pp.2561-2565, June 2014
	2	Image binarization techniques for degraded document images: A review, International Journal of Engineering Development and Research, ISSN: 2321-9939, Paper ID: IJEDR1704194
	National Conference	
	1	Patel Binita B., Bhargav Shah, Chintan Panchal, "Survey of Identification of turbulence in the GPI images of Plasma", National Conference on Recent Advances in Circuits, Communication and Computing Technology-RACCCT 2017, 25th -26th March -2017, ISBN:978-81-933591-3-6
	2	Ambika Saxena, Nalin Jethva, Parth Panchal, Payal Ma ngukiya, Bhargav G Shah, "Real Time IoT Based Drinking Water Quality Monitoring", National Conference on Recent Advances in Circuits, Communication and Computing Technology-RACCCT 2017, 25th -26th March -2017, ISBN:978-81-933591-3-6

No. of Books published with details	**No. of Books published**	NIL
	Details of Books	NIL

Name of the Teaching Staff	Prof. Chintan Panchal
Date of Birth	15/10/1986
Unique id	1-1508286295

Education Qualifications	M.Tech.	SVNIT	2011	8.16	
	B.E.	SCET (VNSGU)	2008	62%	
	XII	G.H.E.B (GUJARAT)	2004	62.15%	
	X	G.S.E.B (GUJARAT)	2002	83.14%	
	GATE	IIT	2009	95 percentile	

Work Experience (in years)	Teaching	Research	Industry	others
	5			
Area of Specialization	Signal and Systems, Signal and Image Processing			

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Microwave engineering, Digital Electronics, Basic Electronics, Signal and systems, Digital Electronics, Analog and digital Electronics, Electromagnetics, Audio and Video system
	Post Graduate Level	1
	Post Graduate Diploma Level	Nil

Research guidance	No. of papers published in National/International Journals/Conferences	7
	Master	1
	Ph.D.	NIL

Projects Carried out	NIL

Patents	NIL

Technology Transfer	NIL

Research Publications	International Journals: 1. Chintan Panchal, Bhargav Shah, Amoli Panchal "Image binarization techniques for degraded document images: A review"in International Journal of Engineering Development and Research (IJEDR), Volume 5, Issue 4	ISSN: 2321-9939, December 2017. (Impact Factor : 5.67) 2. Mustafa Surti, Chintan Panchal, Bhaumik Vaidya, "Comparative study on low power display technique based on LCD systems with back-light as LED" in International Journal of Research in Advanced Engineering and Technology, Volume 3, issue 1, pp 99-109, Jan-Apr (2017), ISSN: 2455-0876, Impact Factor: RJIF 5.44 3. Chintan Panchal, Jigisha Patel, Dr. S. Patnaik, "Joint source channel coding with unequal protection and quality biased rate allocation for MPEG2 video transmission" in International Journal of signal and imaging systems engineering, Volume 9, issue 2, ISSN 1748 0701, 2016. 4. Prof. Mustafa surti and Prof. Chintan Panchal , "A study: identifying the transformation of the embedded systems industry" in International Journal of Research and

Engineering, Volume 2 Issue 1, ISSN 2348-7852 (Print) | ISSN 2348-7860 (Online), pg No 28-33, July 2015.

5. Chintan Panchal, Bhargav Shah, Keyur Rajput, "Unequal Power allocation for Image transmission" in International journal of engineering development and research Volume 2, issue 2, ISSN 2321 9939, June 2014.

6. Chintan Panchal, Jigisha Patel, Dr. S. Patnaik, "Joint Source Channel Coding for Reliable Video Transmission over an AWGN Channel" in IFRSA's International Journal of Computing, Volume 1, issue 2, ISSN No: 2230 9039 April 2011.

National Conference

1. Patel Binita B., Bhargav Shah, Chintan Panchal, "Survey of Identification of turbulence in the GPI images of Plasma", National Conference on Recent Advances in Circuits, Communication and Computing Technology-RACCCT 2017, 25th -26th March -2017, ISBN:978-81-933591-3-6.

No. of Books published with details	No. of Books published	Nil
	Details of Books	Nil

Name of the Teaching Staff	Prof. Mrugesh patel

Date of Birth	04/09/1986

Unique id	1-2338899479

Education Qualifications				
	Bachelor of Engineering	Electronics and Communication	SCET / VNSGU	2007
	Master of Engineering	Electronics and Communication	SCET/ GTU	2013

Work Experience (in years)	Teaching	Research	Industry	others
	6	Nil	Nil	Nil

Area of Specialization	Signal Processing, Communication

, Courses taught at	**Diploma Level**	Nil	
	Post Diploma Level	Nil	
	Under Graduate Level	Basic Electronics, Analog and Digital Electronics, Analog Electronics, Digital Electronics, Audio Video System, Wireless Communication, Advance Processor, Antenna and wave Propagation, Audio Video System, Electronics Measurement and Instrumentation	
	Post Graduate Level	Wireless and Mobile Network Architectures, Sensor Technology, Speech Signal Processing	
	Post Graduate Diploma Level	Nil	
Research guidance	**No. of papers published in National/International Journals/Conferences**	5	
	Master	Nil	
	Ph.D.	Nil	
Projects Carried out	Nil		
Patents	Nil		
Technology Transfer	Nil		
Research Publications	1	National Conference	Mrugesh Patel, Neeta Chapatwala, "Low Density Parity Check Code for Burst Error Correction", National Conference on Innovative & Emerging Technologies, NCIET, ISBN-978-81-925650-0-2, Unjha, January 2013.
	2	National Conference	Mrugesh Patel, Neeta Chapatwala, "Image Transmission over AWGN channel using Low Density Parity Check Code" , NATIONAL CONFERENCE ON SIGNAL PROCESSING & COMMUNICATION TECHNOLOGY (NCSPCT-13), ISBN No: 978-93-83083-16-9

	3	International journal	Jigisha Patel, Neeta Chapatwala, Mrugesh Patel. "Performance Evaluation of Bit Flipping and Sum Product Algorithm of LDPC coder in different channel environment", International Journal of Engineering Development and Research (IJEDR), ISSN:2321-9939, Vol.2, Issue 2, pp.2234-2240, June 2014	
	4	International Conference	Jigisha Patel, Neeta Chapatwala, Mrugesh Patel. "FFT based Sum Product Decoding Algorithm of LDPC coder for GF(q)",Emerging Technology Trends in Electronics, Communication and Networking (ET2ECN), 2014 2nd International Conference. ISBN : 978-1-4799-6985-2 , SVNIT Surat Dec 2014	
	5	International Conference	Pritesh Saxena, Mrugesh Patel, Gopal Agarwal, "RECENT TRENDS: CELL-PHONE POWER MANAGEMENT (HARDWARE PERSPECTIVE)" ,International Conference on: "Engineering: Issues, opportunities and Challenges for Development", ISBN: 978-81-929339-3-1	

No. of Books published with details	No. of Books published	Nil
	Details of Books	Nil

Name of the Teaching Staff	Prof.Bhaumik Vaidya
Date of Birth	
Unique id	1-2338981900

Education Qualifications					
	M.E	VLSI and Embedded Systems	Gujarat Technological University	9.28 CPI	2013
	B.E	Electronics and Communication	Dharamsinh Desai University	71%	2011

Work Experience (in years)	Teaching	Research	Industry	others
	3	Nil	Nil	Nil

Area of Specialization	VLSI and Embedded Systems

Courses taught at	Diploma Level	Nil
	Post Diploma Level	Nil
	Under Graduate Level	Basic Electronics, Digital Electronics CMOS VLSI design, ASIC chip design and Verification, Microcontroller and Microprocessor, Embedded Systems Computer Architecture, Real Time Operating Systems, Mobile Application Development, Semiconductor device modelling, Analog and Mixed Signal Design
	Post Graduate Level	Nil
	Post Graduate Diploma Level	Nil

Research guidance	No. of papers published in National/International Journals/Conferences	11
	Master	Nil
	Ph.D.	Nil

Projects Carried out	Nil

Patents	Nil

Technology Transfer	Nil

Research Publications	International Conference Publications [1] Bhaumik Vaidya and Chirag N. Paunwala, " Comparative analysis of motion based and feature based algorithms for object detection and tracking" IEEE International conference on soft computing and its Engineering and Applications, Gujarat, December 2017 [2] Bhaumik Vaidya, Harendra Panchal and Chirag N. Paunwala, " Silhouette Based Real Time Object Detection and Tracking", International Conference on Computer vision and Image Processing organized by IAPR (Int. Association of Pattern Recognition), Advances in Intelligent Systems and Computing, Springer Publications (Scopus Indexed), IIT Roorkee, September 2017 [3] Prof. Bhaumik Vaidya, Prof. Mustafa Surti, Parth Vaghasiya, Jay Bordiya, Jenish Jain," Hardware Acceleration of Image Processing Algorithms using Vivado high level synthesis tool",

International Conference on Intelligent Computing and Control Systems (ICICCS 2017), IEEE Computer Society, Madurai, TN, India, 15-16, June 2017.

[4] Prof. Bhaumik Vaidya, Ankit Patel,Anand Panchal, Parth Vaghasiya, Rangat Mehta, Krish Mehta,"Smart Home Automation with a unique door monitoring system for old age people using python, opencv and Raspberry Pi", International Conference on Intelligent Computing and Control Systems (ICICCS 2017), IEEE Computer Society, Madurai, TN, India, 15-16, June 2017.

[5] "Design of an efficient finite state machine for an implementation of AMBA AHB master", in International Conference on Research & Development in Engineering, Technology & Sciences-2013 (ICRD-ETS- 2013), ISBN: 978-81- 906220-8- 0, pp. 136-139

[6]"An Introduction to Universal Verification Methodology", in International Conference on Research & Development in Engineering, Technology & Sciences-2013 (ICRD-ETS- 2013), ISBN: 978-81- 906220-8- 0,pp. 34-37

[7] "A Study of different Finite state machine design and efficient coding techniques",in International Conference on Research & Development in Engineering, Technology& Sciences-2013 (ICRD-ETS- 2013), ISBN: 978-81- 906220-8- 0,pp. 144-147

International Journal Publications

[1] Bhaumik Vaidya and Chirag N. Paunwala, "Real time object detection and tracking strategies", Encyclopedia on Image Processing, Taylor and Francis Publications. (Accepted) [Book Chapter]

[2] Mustafa Surti, Chintan Panchal, Bhaumik Vaidya,"Comparative study on low power display technique based on LCD systems with back-light as LED", International Journal of Research in Advanced Engineering and Technology, Volume 3 Issue 1,ISSN: 2455-0876, RJIF 5.44, 01/07/2017

[3] "Design of AMBA AHB interface around OpenRISC 1200 processor and comparing the implementation with existing architecture", ISSN (ONLINE): 2321-0613, International Journal for Scientific research and development, Volume 1, Issue 2, April 2013

[4] "Design of a robust verification environment for AMBA AHB System in Universal Verification Methodology", International Journal of Research in Computer Engineering and Electronics. Page, ISSN 2319-376X, VOL :2 ISSUE : 2 (June: 2013)

[5] "Design and Simulation of 4-bit DAC Decoder Using Custom Designer", ISSN (ONLINE): 2321-0613, International Journal for Scientific research and development, Volume 1, Issue 2, April 2013

[6]"Home Automation and Monitoring System Using Raspberry Pi and Android ",International Journal of Engineering Development and Research, Volume 3, Issue 4 , ISSN: 2321-9939, pp. 885-892, 2015

No. of Books published with details	No. of Books published	1
	Details of Books	

Name of the Teaching Staff	Prof. Aarohi Vora
Date of Birth	22-08-1989
Unique id	1-2340764567
Education Qualifications	ME Electronics and Communication 83.1% 2014 BE Electronics and Communication 67.2% 2011

Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	4	Nil	Nil	Nil

Area of Specialization	Image Processing, Embedded System,

Courses taught at	**Diploma Level**	Nil
	Post Diploma Level	Nil
	Under Graduate Level	Basic electronics, Digital electronics, Analog Electronics, Power Electronics, Workshop Manufacturing Practice
	Post Graduate Level	Advance Communication Network, Statistical Signal Analysis
	Post Graduate Diploma Level	Nil

Research guidance	**No. of papers published in National/International Journals/Conferences**	9
	Master	Nil
	Ph.D.	Nil

Projects Carried out	Nil
Patents	Nil
Technology Transfer	Nil

Research Publications	[1] "Review on Hybrid metaheuristic approaches for optimization in multi-biometric authentication system", in Hybrid Metaheuristics: Research and Applications to be edited by Prof. (Dr) Siddhartha Bhattacharyya and published by World Scientific Publishing Co. Pte. Ltd., Singapore.
	[2] "Multi-Biometric Fusion and Template Protection Strategies" in Encyclopaedia of Image Processing to be edited by Dr. Phillip A. Laplante and published by Taylor and Francis.
	[3] Aarohi Vora, Chirag N. Paunwala, Mita Paunwala, "Review on Fusion Algorithms for Multimodal Authentication System", International Journal of Engineering Development and Research, Vol. 3 (2), pp: 911-917, 2015.
	[4] "Statistical analysis of various kernel parameters on SVM based multimodal fusion," Annual IEEE India Conference (INDICON), pp. 1-5, IEEE, Pune, 2014.
	[5] "Wavelet based Feature level Fusion Approach for Multi-Biometric Cryptosystem", presented in EAI International Conference on Future Internet Technologies and Trends, 2017.
	[6] Hybrid feature level approach for Multi-biometric Cryptosystem," International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET), pp. 1087-1092,IEEE, Chennai, 2016.
	[7] "Comparative analysis of 3D face recognition using 2D-PCA and 2D-LDA approaches," 5th Nirma University International Conference on Engineering (NUiCONE), pp. 1-5 ,IEEE, Ahmedabad, 2015.
	[8] "Nonlinear SVM Fusion of Multimodal Biometric System", International Conference on Communication and Computing track (ICCC), pp. 204-210, Elsevier, Bangalore, 2014.
	[9] "Improved weight assignment approach for multimodal fusion," International Conference on Circuits, Systems, Communication and Information Technology Applications (CSCITA), pp. 70-74, IEEE, Mumbai, 2014.

No. of Books published with details	No. of Books published	Nil
	Details of Books	Nil

Information Technology

Name of the Teaching Staff	Dr.Mita M. Parikh
Date of Birth	24/03/1978
Unique id	1-413847171
Education Qualifications	B.E.(Computer Engineering), M.E.(Computer Engineering), PhD (Computer Engineering)

Work Experience (in years)	Teaching	Research	Industry	others
	18 Years	~	1 Year	~

Area of Specialization	Artificial Intelligence, Machine Learning, Data Mining, Sentiment Analysis

Courses taught at	Diploma Level	~NA~
	Post Diploma Level	~NA~
	Under Graduate Level	Artificial Intelligence, Data Mining & Business Intelligence, Algorithm Design & Analysis, Software Engineering
	Post Graduate Level	~NA~
	Post Graduate Diploma Level	~NA~

Research guidance	No. of papers published in International Journals/Conferences	10
	Master	~
	Ph.D.	~

Projects Carried out	~NA~
Patents	~NA~
Technology Transfer	~NA~
Research Publications	International Journals [1] Mita K. Dalal, and Mukesh A. Zaveri, "Automatic Text Classification: A Technical Review," *International Journal of Computer Applications*, vol. 28, no. 2, pp. 37-40, Aug 2011. (ISSN : 0975 – 8887) [2] M. K. Dalal and M. A. Zaveri, "Automatic Classification of Unstructured Blog Text," *Journal of Intelligent Learning Systems*

	and Applications, vol. 5, no. 2, pp. 108-114, May 2013. (ISSN Print: 2150-8402; E-ISSN: 2150-8410) [3] M. K. Dalal and M. A. Zaveri, "Semisupervised Learning based Opinion Summarization and Classification for Online Product Reviews," *Applied Computational Intelligence and Soft Computing*, Article ID 910706, July 2013. Hindawi Journal (ISSN : 1687-9724; E-ISSN : 1687-9732) [4] M. K. Dalal and M. A. Zaveri, "Opinion Mining from Online User Reviews using Fuzzy Linguistic Hedges," *Applied Computational Intelligence and Soft Computing*, Article ID 735942, Feb. 2014. Hindawi Journal (ISSN : 1687-9724; E-ISSN : 1687-9732) [5] Mita K. Dalal, "Sentiment Mining from Text: A Technical Review," International Journal of Computer Applications, vol. 172, no. 4, pp. 19-24, Aug 2017. (ISSN: 0975-8887) [6] Mita K. Dalal, "Efficient Classification of Noisy Text", *Journal of Artificial Intelligence Research & Advances*, vol. 5, no. 1, pp. 56-61, 2018. (ISSN : 2395-6720) [7] Mita K. Dalal, "Opinion Mining from Customer Reviews for Effective Event Management", *International Journal of Computer Engineering & Technology*, vol. 9, no. 6, pp. 92-98, 2018. (ISSN: 0976-6375) <u>International Conferences</u> [1] M. K. Dalal, and M. A. Zaveri, "Automatic Text Summarization: A Technical Review," in *Proceedings of the International Conference on Intelligent Systems and Data Processing (ICISD 2011),* pp.40-43, Jan. 24-25, 2011, India. [2] M. K. Dalal, and M. A. Zaveri, "Heuristics based automatic text summarization of unstructured text," in *Proceedings of the ACM International Conference & Workshop on Emerging Trends in Technology (ICWET 2011),* pp. 690-693, Feb. 25-26, 2011, Mumbai, India. [3] M. K. Dalal and M. A. Zaveri, "Automatic text classification of sports blog data," in *Proceedings of the IEEE International Conference on Computing, Communications and Applications*, pp. 219-222, Jan. 11-13, 2012, Hongkong.*	

No. of Books published with details	No. of Books published	~NA~
	Details of Books	~NA~

Name of the Teaching Staff	Dr. Vivaksha Jayesh Jariwala
Date of Birth	23/11/1980
Unique id	1-3263901581
Education Qualifications	B.E.(Computer Engineering), M.Tech.(Computer Engineering), PhD (Computer Engineering)

Work Experience (in years)	Teaching	Research	Industry	others
	15 Years	~	1.5 Years	~

Area of Specialization	Information Security

Courses taught at	Diploma Level	~NA~
	Post Diploma Level	~NA~
	Under Graduate Level	Information and Network Security, Python Programming, Data Structures, Computer Networks, Object oriented programming with C++
	Post Graduate Level	~NA~
	Post Graduate Diploma Level	~NA~

Research guidance	No. of papers published in National/International Journals/Conferences	19
	Master	~
	Ph.D.	2 ongoing

Projects Carried out	~NA~
Patents	~NA~
Technology Transfer	~NA~

| **Research Publications** | ## International Journals

[1] Vivaksha Jariwala, Devesh Jinwala; "Evaluating Galois Counter Mode in Link Layer Security Architecture for Wireless Sensor Networks", in International Journal of Network Security and Its Applications (IJNSA), Vol.2, No.4, October 2010. pp. 55-65. |
|---|---|

[2] Vivaksha Jariwala, Devesh Jinwala, "Evaluating Homomorphic Encryption Algorithms for Privacy in Wireless Sensor Networks", International Journal of Advancements in Computing Technology, Vol. 3, No. 6, July 2011, pp. 215-223.

[3] Vivaksha Jariwala, Vishal Singh, Prafulla Kumar, Devesh C. Jinwala, "Investigating Approaches of Data Integrity Preservation for Secure Data Aggregation in Wireless Sensor Networks", Journal of Information Security, Scientific Research Publications, Vol. 5, No.1, January 2014 indexed at DBLP, pp. 1-11.

[4] Vivaksha Jariwala, Himanshu Patel, Parth Patel, Devesh C. Jinwala, "Integrity and Privacy Preserving Secure Data Aggregation in Wireless Sensor Networks." International Journal of Distributed Systems and Technologies (IJDST) 5.3, October2014, DBLP, pp.77-99.

[5] Vivaksha J Jariwala and Sankita Patel J, "An Improved Approach for Secure Data Aggregation in Wireless Sensor Networks", International Journal of Computer Applications 137(9):10-14, March 2016. Published by Foundation of Computer Science (FCS), NY, USA.

[6] Vivaksha Jariwala, Vishruti Desai, "Security Framework for Model Based and Fuzzing Testing in Mobile Application", International Journal of Engineering Research And Management (IJERM) ISSN : 2349- 2058, Volume-03, Issue-07, July 2016.

[7] Vivaksha Jariwala, "Privacy Preserving Secure Data Aggregation for Wireless Sensor Networks." Journal of Computers, vol. 13, no. 6, pp. 655-677, 2018.

International Conferences

[1]Vivaksha Jariwala, Sankita Patel, "Security in Wireless Sensor Network : A Survey",In the Proceeding of: International Conference on Sensors, Security, Software andIntelligent Systems 2009, Coimbatore, Tamilnadu, India pp. SN | 17 to SN | 21,January 8-10, 2009.

[2] Jariwala, V. J. and Jinwala, D. C, "A taxonomy of security attacks on the advancedencryption standard", In Proceedings of: 2nd international Conference on interactionSciences: information Technology, Culture and Human (Seoul, Korea, November 24- 26, 2009). ICIS '09, vol. 403. ACM, New York, NY, pp. 1302-1305, 2009, DBLP.

[3]Vivaksha Jariwala, SampathiraoMuralidhar, Panchal Rajan, Mihir Mishra," LocalizationTechniques for Wireless Sensor Networks: A Review", In Proceeding of:7th International Joint Conference on Computer Science and Software Engineering(JCSSE 2010), Bangkok, Thailand, May 12-14, 2010.

[4] Vivaksha Jariwala, Prafulla Kumar, DeveshJinwala, "A Novel Bloom Filter BasedVariant of Elliptic Curve Digital Signature Algorithm for Wireless Sensor Networks",In Proceedings of: 5th International Conference on Networks and

	Communications(NETCOM - 2013), Lecture Notes in Electrical Engineering, Springer-Verlag,Springer, Berlin Heidelberg, Volume 284, pp. 125-137, January, 2014. [5]Vivaksha J. Jariwala, Devesh C. Jinwala, "Privacy and Integrity Preserving SecureData Aggregation in Wireless Sensor Networks", In Proceedings of: 11th InternationalWorkshop on Security in Information Systems, by SciTePress, Lisbon, Portugal, pp.49-60, April, 2014, DBLP. [6]AjaysinhRathod, Vivaksha J. Jariwala, "Investigation of Privacy Issues in LocationBased Services", In Proceeding of Fifth International Conference on Advanced Computing,Networking and Informatics (ICACNI 2017), Recent Findings in IntelligentComputing Techniques, Advances in Intelligent Systems and Computing, Springer,Singapore, Volume 707, pp. 55-65, 2019. ## National Conferences [1] Vivaksha Jariwala, Vishruti Desai, "Quantum Cryptography : A Review ", in NationalLevel Symposium on Security and Soft Computing, SVNIT, Surat, 2007. [2] Vivaksha Jariwala, DeveshJinwala; "A Novel Approach for Secure Data Aggregationin Wireless Sensor Networks", Proceedings of the 10th National Workshop onCryptology, Cryptology Research Society of India and PSG Institute of Technology,Coimbatore, pp. 12-17, 2010. [3] Vivaksha Jariwala, Asha Munjpara, DeveshJinwala, Dhiren Patel, "ComparativeEvaluation of ECC Based Homomorphic Encryption Algorithms in TOSSIM forWireless Sensor Networks", Proceedings of the National Workshop on Cryptology,Cryptology Research Society of India and VIT, Vellore, TN, pp. 1-14, 2012. [4] Vivaksha J. Jariwala, Devesh C. Jinwala, "A New Framework for Privacy PreservingSecure Data Aggregation in Wireless Sensor Networks", Security and PrivacySymposium, IIT Kanpur and IIIT Delhi, IIT Kanpur, 2013. [5] Vivaksha J. Jariwala, Devesh C. Jinwala, "Investigating Approaches for SecureData Aggregation in Wireless Sensor Networks", Security and Privacy Symposium,Organized by IIT Kanpur, IIIT Delhi and BITS Hydrabad, IIT Kanpur, 2014. [6] Ajay Rathod, Vivaksha Jariwala, "Fusion Cryptographic Approach for PrivacyPreservation in Location Based Services", Proceedings of the 3rd National Conferenceon Computer and Communication Research, Vadodara Institute of Engineering,Vadodara, April 2018.		
No. of Books published with details	No. of Books published	-NA-	
	Details of Books	-NA-	

Name of the Teaching Staff	Prof. Hiren HaribhaiVavaiya

Date of Birth	24-12-1980

Unique id	1-413847175

Education Qualifications	M.Tech.(CSE), BE (IT)

Work Experience (in years)	Teaching	Research	Industry	others
	16			

Area of Specialization	Database, Network

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	DBMS, Operating Systems, Computer Networks, OOPC
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	~~
	Master	~~
	Ph.D.	~~

Projects Carried out	~~

Patents	~~

Technology Transfer	~~

Research Publications	~~

No. of Books published with details	No. of Books published	
	Details of Books	~~

Name of the Teaching Staff	Prof. Ashish P. Kharvar
Date of Birth	24-05-1983
Unique id	1-413847179
Education Qualifications	M.Tech (CS)

Work Experience (in years)	Teaching	Research	Industry	others
	13 years and 11 months			

Area of Specialization	Computer networking, network security

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Data Structures, Computer networks, Object oriented programming with c++,computer graphics
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	4
	Master	
	Ph.D.	

Projects Carried out	~
Patents	~
Technology Transfer	~
Research Publications	• STUDY ON CHALLENGES AND TECHNIQUES IN CONDUCTING CONCURRENT AUDIT OF INFORMATION SYSTEM, International Journal of Advanced Research in Engineering, Science & Management , Volume-I-Issue -4 • SYSTEM AUDITING THROUGH PENETRATION TESTING FOR ASSESSING SECURITY OF REMOTE SITE , International Journal of Advanced Research in Engineering, Science & Management , Volume-II-Issue -5 • WEB SERVICES: A PARADIGM SHIFT IN WEB DEVELOPMENT PROCESS , International Journal of Advanced Research in Engineering, Science & Management , Volume-II-Issue -6

No. of Books published with details	No. of Books published	0
	Details of Books	~

Name of the Teaching Staff	Prof.Tushar Gohil

Date of Birth	29/10/1981

Unique id	1-413847253

Education Qualifications	M.Tech (Computer Science & Engineering) B.E. (Computer)

Work Experience (in years)	Teaching	Research	Industry	others
	15 Years			

Area of Specialization	Java Programming, Cloud Computing

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Java Programming, Advance Java, Unified Modelling Language, Database Management Systems, Computer Networks, Advance Computer Networks, Mobile Computing
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	3
	Master	
	Ph.D.	

Projects Carried out	~~

Patents	~~

Technology Transfer	~~

Research Publications	1. Presented and Published a Paper on "Study of Routing Misbehavior in MANET"at Sarvajanik College of Engg. & Tech., Surat During 26th – 27th June 2008 2. Presented and Published a Paper on "Overview of Security Threats in Mobile Ad-hoc Network" G.H.Patel College of Engg. & Tech. VallabhVidyanagar During 12-13 December 2009 3. Published a Paper on "Overview of Security Threats in Mobile Ad-hoc Network" in the International "Journal of High Performance Communication Systems and Networking, Volume. 2 (1-2), January-December 2010, pp. 1–10 ISSN: 0975-6140 of Serial publications.

No. of Books published with details	No. of Books published	
	Details of Books	~~

Name of the Teaching Staff	Prof.Apurva Bharat Mandalaywala
Date of Birth	27th July 1978
Unique id	1-413847301
Education Qualifications	BE (Electronics), MBA(Marketing), MA(Economics), M.Tech(Communication Engineering)

Work Experience (in years)	Teaching	Research	Industry	others
	15 Years	NIL	NIL	NIL

Area of Specialization	Communication Engineering

Courses taught at	Diploma Level	NIL
	Post Diploma Level	NIL
	Under Graduate Level	Software Engineering, Mobile Computing & Wireless Communication, Computer Networks, Computer Organization, Computer Graphics
	Post Graduate Level	NIL
	Post Graduate Diploma Level	NIL

Research guidance	No. of papers published in National/International Journals/Conferences	NIL
	Master	NIL
	Ph.D.	NIL

Projects Carried out	NIL
Patents	NIL
Technology Transfer	NIL
Research Publications	NIL

No. of Books published with details	No. of Books published	NIL
	Details of Books	NIL

Name of the Teaching Staff	Prof.Dhruti P. Sharma

Date of Birth	20th Sept 1977

Unique id	1-413847305

Education Qualifications	B.E (Computer Engg.), M.Tech (Computer Engg.) , Pursuing Ph.D.(Computer Engg.)

Work Experience (in years)	Teaching	Research	Industry	others
	14 Years, 2 Months	~	~	~

Area of Specialization	Information Security

Courses taught at	Diploma Level	~
	Post Diploma Level	~
	Under Graduate Level	Data Structure, Database Management System, Data Compression, Mobile and Wireless Communication, Computer Organization and Architecture, Programming for Problem Solving, Computer Network, Digital Electronics
	Post Graduate Level	~
	Post Graduate Diploma Level	~

Research guidance	No. of papers published in National/International Journals/Conferences	03
	Master	~
	Ph.D.	~

Projects Carried out	~

Patents	~

Technology Transfer	~

Research Publications	1. Dhruti Sharma, Devesh C Jinwala. "Multi-User Searchable Encryption with Token Freshness Verification (MUSE-TFV)" In: Journal of Security and Communication Networks, Vol. 2017, Article ID 6435138, 16 pages, 2017. doi:10.1155/2017/6435138, Hindawi Publications (SCI Indexed). 2. Dhruti Sharma, Devesh C Jinwala. "Functional Encryption in IoT E-Health Care System" In: Proceedings of the 11th International Conference on Information Systems Security (ICISS 2015), Jadavpur University, Kolkata, Editors:

	SushilJajodia, ChandanMaazumdar, pp. 345-363, Lecture Notes in Computer Science 9478, Springer-Verlag, Springer, Berlin/Heidelberg, 2015 (LNCS). 3. Dhruti Sharma, DeveshJinwala, "Encrypted Data Ordering with Functional Encryption" In: Proceedings of the 4th IEEE International Conference on Recent Advances In Information Technology (RAIT-2018), Indian Institute of Technology (ISM), Dhanbad, Mar 15 (pp. 1-8). IEEE, 2018.	
No. of Books published with details	No. of Books published	~
	Details of Books	~

Name of the Teaching Staff	Prof.Bhumika Patel			
Date of Birth	29/01/1984			
Unique id	1-413847393			
Education Qualifications	M.Tech (Computer Engineering), B.E. (Information Technology)			
Work Experience (in years)	Teaching	Research	Industry	others
	13 years	~	~	~
Area of Specialization	Information Security			
Courses taught at	Diploma Level	~		
	Post Diploma Level	~		
	Under Graduate Level	Information and Network Security, Dotnet Technology, Web Technology, Java, Analysis and Design of Algorithms		
	Post Graduate Level	~		
	Post Graduate Diploma Level	~		
Research guidance	No. of papers published in National/International Journals/Conferences	2		
	Master	~		
	Ph.D.	~		
Projects Carried out	~			
Patents	~			
Technology Transfer	~			
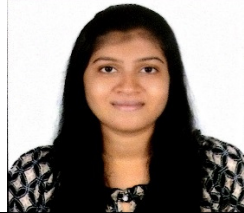
Research Publications	"Anonymity in Attribute-Based Group Signatures" at International conference ADCONS'11 held at NITK, Surathkal, Manglore. The Adcons-2011 proceedings are published by Springer in the Lecture Notes in Computer Science(LNCS) Volume No: 7135 - Publication of a Full Length Paper on 'A Survey of Attribute-Based Signature Systems' in the International Conference and Workshop on Advance Computing (ICWAC-2014) organized during February 28th and March 1st 2014 at Thakur College of Engineering and Technology, Mumbai.	
No. of Books published with details	No. of Books published	~
	Details of Books	~

Name of the Teaching Staff	Prof. Dhanalakshmi Manickaraj			
Date of Birth	13-06-1987			
Unique id	1-772946914			
Education Qualifications	M.E (Computer Engineering), B.Tech (Information Technology)			
Work Experience (in years)	Teaching	Research	Industry	others
	7 years 3 months			
Area of Specialization	Image Processing			
Courses taught at	Diploma Level	~		
	Post Diploma Level	~		
	Under Graduate Level	Wireless Communication and Mobile Programming, Big Data Analytics, Python Programming, Data Compression & Data Retrival.		
	Post Graduate Level	~		
	Post Graduate Diploma Level	~		
Research guidance	No. of papers published in National/International Journals/Conferences	~		
	Master	~		
	Ph.D.	~		
Projects Carried out	~			
Patents	~			
Technology Transfer	~			

Research Publications	~	
No. of Books published with details	No. of Books published	~
	Details of Books	~

Name of the Teaching Staff	Prof. Mukesh Patel			
Date of Birth	04/03/1977			
Unique id	1-1508129060			
Education Qualifications	BE. ME, PhD(Pursuing)			
Work Experience (in years)	Teaching	Research	Industry	others
	18	~~	~~~	~~~
Area of Specialization	Software Engineering			

Courses taught at	Diploma Level	~~~
	Post Diploma Level	~~~~
	Under Graduate Level	Artificial Intelligence, Data Mining & Business Intelligence, Software Engineering, Analysis & Design of Algorithms, System Programming, Object Oriented Programming with C++, Database Management System
	Post Graduate Level	~~~~
	Post Graduate Diploma Level	~~~~~
Research guidance	No. of papers published in National/International Journals/Conferences	10
	Master	~~~
	Ph.D.	~~~
Projects Carried out	~~~	
Patents	~~~	
Technology Transfer	~~~	
Research Publications	1. **Patel Mukesh** and Nilesh Modi "A comprehensive study on periodicity mining algorithms." In *Global Trends in Signal Processing, Information Computing and Communication (ICGTSPICC), 2016 International Conf. on*, pp. 567-575. IEEE, 2016.	

	2. **Patel Mukesh**, Nilesh Modi, and KalpdrumPassi. "An Effective Approach for Mining Weighted Sequential Patterns." In *International Conference on Smart Trends for Information Technology and Computer Communications*, pp. 904-915. Springer, Singapore, 2016.
	3. Parmar, Dhyanesh K., and **Mukesh M. Patel**. "Profit based modified I-Prefixspan algorithm." In *Computational Intelligence and Computing Research (ICCIC), 2014 IEEE International Conference on*, pp. 1-4. IEEE, 2014.
	4. ChandniNaik, Ankit Kharwar and **Mukesh Patel**. "Knowledge Discovery of Weighted RFM Sequential Patterns With Multi Time Interval From Customer Sequence Database" in IEEE International Conference on Data Mining and Intelligent Computing, September 2014, Delhi.
	5. Gandhi Monali, Khushali Mistry, and **Mukesh Patel**. "A Novel Approach towards Tourism Recommendation System with Collaborative Filtering and Association Rule Mining." International Journal of Computer Applications 95.26 (2014).
	6. Gandhi Monali, Khushali Mistry, and **Mukesh Patel**. "A Modified Approach towards Tourism Recommendation System with Collaborative Filtering and Association Rule Mining." International Journal of Computer Applications 91.6 (2014).
	7. ParmarDhyanesh, YagnikRathod, and **Mukesh Patel**. "A Survey on high utility oriented sequential pattern mining" in Computational Intelligence and Computing Research (ICCIC), 2013 IEEE International Conference on. IEEE, 2013
	8. **MukeshPatel**andNilesh Modi "A Review On Time-Interval Based Sequential Pattern Mining Approaches" in National Journal of Computer Science & Technology (NJCST) Volume: 5 Issue: 1&2 for January- December 2013.
	9. **Mukesh Patel**, "Solving N-Queen Problem using Genetic Algorithm, NN and GA-NN," published in International Journal of Emerging Technologies and Applications in Engineering, Technology And Sciences (IJ-ETA-ETS) ISSN: 0974-3588.
	10. **Patel Mukesh M.**, Dhwani Jain, Vinita Pamnani and Namrata Patel. "A novel Gesture to Voice System using Neural Network." National Conference on "Recent Trends in Computer and Communication Technology" RTCCT'16.

No. of Books published with details	No. of Books published	~~~
	Details of Books	~~~

Name of the Teaching Staff	Ms. Patel Twisha Anilkumar
Date of Birth	12-06-1993
Unique id	1-4497464911

Education Qualifications	B.Tech (Information Technology) ME (Computer Engineering)			
Work Experience (in years)	Teaching	Research	Industry	others
	1 year	~	4 months	~
Area of Specialization	Image Processing, Soft computing			
Courses taught at	Diploma Level			
	Post Diploma Level			
	Under Graduate Level	Under Graduate Level		
	Post Graduate Level			
	Post Graduate Diploma Level			
Research guidance	No. of papers published in National/International Journals/Conferences	1		
	Master	~		
	Ph.D.	~		
Projects Carried out	~			
Patents	~			
Technology Transfer	~			
Research Publications	"A survey on Facial Feature extraction Techniques for Automatic Face Annotation" , IEEE- International conference on Innovative Mechanisms for Industry Applications(ICIMIA-2017), Dayananda Sagar College of Engineering, Bengaluru, February 21-23, 2017.			
	No. of Books published	~		
	Details of Books	~		

Name of the Teaching Staff	Mr. Rohan Desai		
Date of Birth	16/08/1991		
Unique id	1-3369262713		
Education Qualifications	BE (Information Technology) M.Tech (Information Technology)		
Work Experience (in years)	Teaching	Research	Industry	others
	2 years	~	~	~

Area of Specialization	Android Programming, Java	
Courses taught at	Diploma Level	~
	Post Diploma Level	~
	Under Graduate Level	Computer Organization, DOT NET technology, Web Technology, System Programming, Big Data Analytic, Data Compression and Data Retrieval, Computer Programming and Utilization
	Post Graduate Level	~
	Post Graduate Diploma Level	~
Research guidance	No. of papers published in National/International Journals/Conferences	NIL
	Master	NIL
	Ph.D.	N.A
Projects Carried out	NIL	
Patents	NIL	
Technology Transfer	NIL	
Research Publications	NIL	
No. of Books published with details	No. of Books published	NIL
	Details of Books	NIL

Instrumentation and Control

Name of the Teaching Staff	Dr. Utpal T. Pandya			
Date of Birth	25/07/1973			
Unique id	1-455858991			
Education Qualifications	B.E. – I & C, M. Tech.- BME IIT Bombay, Ph. D.- IIT bombay			
Work Experience (in years)	Teaching	Research	Industry	others
	20 years		4 years	
Area of Specialization	Embedded system design, Medical Instrumentation, Signal processing, Automation			

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	DCS-SCADA, Building Automation, Bio-potential Instrumentation, Project Engineering & Management
	Post Graduate Level	Programmable Logic Controller, industrial Automation
	Post Graduate Diploma Level	
Research guidance	No. of papers published in National/International Journals/Conferences	13
	Master	~
	Ph.D.	~ 5 (ongoing)
Projects Carried out	04	
Patents	01 (provisional)	
Technology Transfer	~	
Research Publications	- A research paper entitled "Feasibility Study of Filtering Algorithms for Low Cost wireless Physiological Monitoring System" is available on ***IEEE Explorer Print ISBN: 978-1-4577-0786-5 INSPEC accession number: 12094576 DOI – 10.1109/WIRELESSVITAE.2011.5940914*** - A research paper entitled "A Novel Algorithm for Bluetooth ECG", ***IEEE Transaction on Biomedical Engineering, Vol. 59, pp 3148-3154, November 2012(ISSN0018-924)*** - A research paper entitled **"**Bluetooth Electrocardiogram - Its Evaluation in Hospital Environment", ***IEEE Pulse magazine, Vol. 4, Issue 3, pp 35-40, May 2013 (ISSN 2154-2287)***Remove this and paste the details of your publication 3 - A research paper entitled "Realization of Bluetooth Piconet for Real Time Monitoring of Multiple Parameters", **Springer Biomedical Engineering Letters**, *Vol. 3, Issue 2, pp 95-101, June 2013 (ISSN 2093-9868)* - A research paper entitled "Control Analysis Using Tuning Methods for a Designed, Developed and Modelled Cross Flow Water Tube Heat Exchanger", ***Int. Journal of Mechanical, Aerospace, Industrial and Mechatronics Engineering, Vol. 8, No 12, pp 1811-1816, 2014*** - A research paper entitled "Implementation of Bluetooth Piconet for Real Time Monitoring", is **presented** at ***International conference on Instrumentation, Communication, Control and Automation (ICICCA 2013) at Kalasalingam University, Nr. Madurai, Tamilnadu, 3rd Jan. to 5th Jan. 2013***- - A paper on " Boiler Instrumentation & Controls – Control issues & Simulation software" during **SteamTech -2017, 10th International conference on Boiler & steam systems** held at J.B. auditorium, AMA, Ahmedabad, during **February 17th -18th 2017** organized by SAKET projects Ltd. - A research paper entitled "R peak Detection for Wireless ECG using DWT and Entropy of coefficients", accepted for publication in

	International Journal of Biomedical Engineering and Technology, *DOI: 10.1504/IJBET.2017.10013949* - A research paper entitled "Simultaneous Monitoring of Motion ECG of Two Subjects Using Bluetooth Piconet and Baseline Drift", published in Biomedical Engineering Letters, **Springer Biomedical Engineering Letters, *Vol. 8, Issue 4, pp 365-371, July 2018,*** DOI: 10.1007/s13534-018-0081-4. *(ISSN 2093-9868)* - A research paper entitled "R-peak Extraction for Wireless ECG Monitoring System", published in **IEEE International Conference on Advances in Computing, Communications and Informatics (ICACCI), Bangalore, India, 2018**, pp.995-999. DOI: 10.1109/ICACCI, 2018, 8554750. (Available at IEEEExplore)
No. of Books published with details	No. of Books published ~

Name of the Teaching Staff	Brijesh B Naik
Date of Birth	December 23, 1977
Unique id	1-455858998
Education Qualifications	BE (Instrumentation) from North Maharashtra University, M.Tech (Systems & Control) from Indian Institute of Technology, Bombay, Ph.D. from Gujarat Technological University, Ahmedabad.

Work Experience (in years)	Teaching	Research	Industry	others
	17	4	0	0

Area of Specialization	Control Systems, process control, embedded systems programming, micro controllers, power electronics, ARM Cortex programming, LaTeX, Instrumentation, digital systems

Courses taught at		
	Diploma Level	
	Post Diploma Level	~
	Under Graduate Level	Yes(Industrial Drives & Control, Process Control, Advance Control, Power ELectronics)
	Post Graduate Level	Yes (Programmable Logic Controllers, Instrumentation)
	Post Graduate Diploma Level	~

Research guidance		
	No. of papers published in National/International Journals/Conferences	5
	Master	~

	Ph.D.	~
Projects Carried out	25	
Patents	• 01(DC-DC buck converter with prescribed convergence law of second order sliding mode control, patent application publication, the official journal of patent office, India, Application No.:201821004088 A, publication date 16/02/2018.)	
Technology Transfer	~	
Research Publications	• Tracking Control of UAV with Robust Discrete Time Sliding Mode Control, at National Systems Conference at NIT (Surathkal), Mangalore by Systems Society of India, 2010. • Sliding mode controller with modified sliding function for DC-DC Buck Converter, ISA Transactions, Elsevier, vol. 70, pp. 279- 287 (impact factor: 3.394), September 2017., ISSN: 0019- 0578. • DC DC Buck Converter with Second Order Sliding Mode Control: Analysis Design and Implementation , International journal of power electronics, Inderscience, (accepted for publication), May 2018. • Adaptive sliding mode controller with modified sliding function for DC-DC boost converter, Power Electronics, Drives and Energy Systems (PEDES), 2014 IEEE International Conference on, IIT Bombay, (available online on IEEExplore). (Electronic ISBN: 978-1- 4799-6373-7 Print ISBN: 978-1- 4799-6372-0, DOI: 10.1109/PEDES.2014.7042009). • Sliding mode controller with modified sliding function for buck type converters, Industrial Electronics (ISIE), 2013 IEEE International Symposium on, Taipei, Taiwan (available online on IEEExplore). Electronic ISBN: 978-1-4673-5193-5 ,Print ISBN: 978-1- 4673-5194-2, Electronic ISSN: 2163- 5145,Print ISSN: 2163-5137, DOI: 10.1109/ISIE.2013.6563679). • Robust tracking control of unmanned aerial vehicle with sliding mode control systems A Multirate Output Feedback Approach, International Conference on Signals, Systems and Automation (ICSSA 2009), Anand, India. (ISBN-13: 9781599428697 available online (http://www.universalpublishers.com/book.php?method=ISBN&book=1599428695). • DC-DC buck converter with prescribed convergence law of second order sliding mode control, patent application publication, the official journal of patent office, India, Application No. : 201821004088 A, publication date 16/02/2018.	
No. of Books published with details	No. of Books published	01
	Details of Books	Sliding Mode Controllers for Power Electronic Converters(Volume 534 of Lecture Notes in Electrical Engineering Publisher Springer Singapore, 2019 ISBN 9811331510, 9789811331510

Name of the Teaching Staff	Tejal Joshi		
Date of Birth	03/08/1976		
Unique id	1-468304951		
Education Qualifications	BE(Instrumentation and Control) ME(Applied Instrumentation)		
Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	17 yrs			1.5 yrs
Area of Specialization	Instrumentation and Control		

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Control System Design, Process Control, Programmable Logic Controller, MicroController and Interfacing, Industrial measurement
	Post Graduate Level	Programmable Logic controller
	Post Graduate Diploma Level	

Research guidance		7
		2
		4

Projects Carried out	
Patents	
Technology Transfer	

Research Publications	"Robust Controller Design using QFT" 2nd International Conference on Signals, Systems & Automation-ICSSA 2011,ISBN-978-6123-3002-0,January-2011 "QFT controller for Industrial Plant Emulator", International Conference on Innovative Science &Engi. Technology, ICISECT-2011, ISBN-978-81-906377-5-6,April 2011 "Application of Fuzzy Logic in Mobile Robot Navigation" at DDU in ISCAR ,2010 held on 9□10th Jan,2010 . "R peak detection for wireless ECG using DWT and entropy of coefficients",Int. J. Biomedical Engineering and Technology , (in press), DOI: 10.1504/IJBET.2017.10013949. (Inder science , SCOPUS Indexed)

	• "Simultaneous monitoring of motion ECG of two subjects using Bluetooth Piconet and baseline drift", Biomedical Engineering Letters, 8(4), 365-371, DOI :10.1007/s13534-018-0081-4. (SPRINGER , SCOPUS Indexed) • ."R-peak Extraction for Wireless ECG Monitoring System," IEEE International Conference on Advances in Computing, Communications and Informatics (ICACCI), Bangalore, India, 2018, pp.995-999. DOI: 10.1109/ICACCI.2018.8554750. (Available at IEEE Explore) • "A review on Wireless Patient Monitoring System", ISA sponsored National Conference on Biomedical and Instrumentation Engineering ,2016,15-16,Sep,16.

No. of Books published with details	No. of Books published	
	Details of Books	No

Name of the Teaching Staff	Jayana S. Rana

Date of Birth	19-7-1981

Unique id	1-468228831

Education Qualifications	B.E.(Instrumentaion & Control) M.Tech.(Power Electronics & Drives)

Work Experience (in years)	Teaching	Research	Industry	others
	12			

Area of Specialization	Power Electronics, Mictrocontroller

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Power Electronics, Microcontroller & interfacing,Digital Signal Proceesing, Robotics,Control System
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	02
	Master	
	Ph.D.	

Projects Carried out	

Patents	

Technology Transfer	
Research Publications	- Published paper on "Sampling frequency adaptive algorithmf or reducing spectral leakage" in International Journal of Engineering and Innovative Technology, ISSN: 2277-3754,Volume 1, Issue 2, February 2012. - Published paper on "Automatic car washing system using PLC" in International Journal Of Innovative Research In Technology ISSN No.2349 – 6002 Volume 3 Issue 9 February 2017.

No. of Books published with details	No. of Books published	
	Details of Books	

Name of the Teaching Staff	Nandkishor Joshi		
Date of Birth	2-9-1976		
Unique id	1-466089085		
Education Qualifications	M.E. - Digital Electronics, B.E. - Instrumentation		

Work Experience (in years)	Teaching	Research	Industry	others
	19 years		1.5 years	

Area of Specialization	Digital Logic Circuits

Courses taught at	Diploma Level	Digital circuits, instrumentation and control system
	Post Diploma Level	Not Applicable
	Under Graduate Level	DLC, EDC, ACT, Robotics, ADC
	Post Graduate Level	MCA
	Post Graduate Diploma Level	Not Applicable

Research guidance	No. of papers published in National/International Journals/Conferences	2 papers published in international Journals
	Master	0
	Ph.D.	0

Projects Carried out	NIL

Patents	NIL

Technology Transfer	NIL	
Research Publications		
No. of Books published with details	No. of Books published	0
	Details of Books	NIL

Name of the Teaching Staff	Dinesh Lathiya			
Date of Birth	20-10-1983			
Unique id	1-455978325			
Education Qualifications	M.Tech- Industrial Electronics			
Work Experience (in years)	Teaching	Research	Industry	others
	7.5	nil	nil	
Area of Specialization				
Courses taught at	Diploma Level			
	Post Diploma Level			
	Under Graduate Level	2nd year:Analog Signal Processing , circuit and Network 3rd year: Micro controller and Interfacing, Control System Design, power electronics 4th year: Motion Control, industrial data communication		
	Post Graduate Level	PLC		
	Post Graduate Diploma Level			
Research guidance	No. of papers published in National/International Journals/Conferences	nil		
	Master			
	Ph.D.			
Projects Carried out	nil			
Patents	nil			
Technology Transfer	nil			
Research Publications				

No. of Books published with details	No. of Books published	
	Details of Books	

Name of the Teaching Staff	MOHAN n. PATEL			
Date of Birth	22/09/1965			
Unique id	1-2685207682			
Education Qualifications	ME (INSTRUMENTATION)			
Work Experience (in years)	Teaching	Research	Industry	others
	27 Years		3 Years	
Area of Specialization	PLC, SCADA, DCS, Process Measurement, control and Instrumentation			
Courses taught at	Diploma Level			
	Post Diploma Level			
	Under Graduate Level	PLC, SCADA, DCS		
	Post Graduate Level	PLC		
	Post Graduate Diploma Level			
Research guidance	No. of papers published in National/International Journals/Conferences	Nil		
	Master	Nil		
	Ph.D.	Nil		
Projects Carried out	Nil			
Patents	Nil			
Technology Transfer	Nil			
Research Publications	Nil			
No. of Books published with details	No. of Books published			
	Details of Books	Nil		

Name of the Teaching Staff	Bhavina Jamnadas Patel
Date of Birth	24/12/1984
Unique id	1-460942706
Education Qualifications	M.E.I.C. And pursuing Ph.D.

Work Experience (in years)	Teaching	Research	Industry	others
	10	3		

Area of Specialization	

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	yes
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	6
	Master	1
	Ph.D.	3

Projects Carried out	Two projects at every academic year
Patents	0
Technology Transfer	0
Research Publications	1) Publish a paper on "Review and Comparative Study of Motion Estimation Techniques to Reduce Complexity in Video Compression" in International Journal Of Advance Research In Electrical, Electronics And Instrumentation Engineering. Volume2,Issue 8.2013,ISSN (Print) : 2320 – 3765 ISSN (Online): 2278 – 8875 2) Publish a paper on "Advance model based control strategy for dynamic dose of propofol ",International Journal of control theory and applications, 2016,vol.9;55-62. 3) Bhavina J. Patel and Hiren G. Patel, "Intravenous Anesthesia Automation with Internal and Instrumental Delay", IEEE International Conference on Industrial and Information Systems, Sri Lanka, 2017.

• Bhavina patel,Hiren patel,"Adaptive smith predictor controller for total intravenous anesthesia automation",Biomedical Engineering Letters,December 2018, • Publish a paper on" FPGA based Pico blaze embedded control system used for temperature controlling application", in ICACCT-2010 4th IEEE international conference on Advanced computing and communication technologies, October 30, 2010, Haryana, Panipat. • Publish a paper on "To implement Cryptographic model for secure communication on FPGA using 32-bit ALU unit", ICSIP-2010 international conference on signal and image processing 2010, 15-17 December 2010, Chennai. • Publish a paper on" Pico blaze embedded control system used for DC motor and Temperature controlling application based on FPGA",in ICSSA-20112nd international conference on signal ,System and Automation 2011,24-25 January 2011,GECT ValbhVidyanagar. 8) Publish a paper on "Authentication on presentation layer using Cryptographic model for secure communication on FPGA using 32-bit arithmetic logic unit and minimized hardware requirement in Encryption algorithm" in 2011 2ndWorld Congress on Computer Science and Information Engineering CSIE to be held from 17 – 19 June 2011, Changchun, China. 9) Publish a paper on ""Microcontroller based gesture recognition system for the handicap people" 8th Aug. in 2011 International Journal of Advanced Engineering Technology Journal of Engineering Research and Studies ISSN number: 0976-7916 (JERS)ERS/Vol. II/ Issue IV JERS 154 TJO/JERS/2011/1147. 10) Publish a paper on "CPLD based stepper motor control application "in 1st sep.2011 International Journal of Advanced Engineering Technology Journal of Engineering Research and Studies ISSN number: 0976-7916 (JERS)ERS/Vol. II/ Issue IV JERS 185,TJO/JERS/2011/1188	

Name of the Teaching Staff	PANKTI HARDIK DESAI
Date of Birth	12/081983
Unique id	1-460942701
Education Qualifications	M.Tech(electrical), BE-Instrumentation & Control, PhD(pursuing)

Work Experience (in years)	Teaching	Research	Industry	others
	10		5	

Area of Specialization	PLC,INSTRUMENTATION,AUTOMATION

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Programmable logic controller, Distributed control system, Building Automation, Bio-Potential instrumentation, Control System Components, Instrument measurement
	Post Graduate Level	Programmable logic controller (ME-ELECTRICAL)
	Post Graduate Diploma Level	
Research guidance	No. of papers published in National/International Journals/Conferences	
	Master	
	Ph.D.	
Projects Carried out		
Patents		
Technology Transfer		
Research Publications		
No. of Books published with details		

Name of the Teaching Staff	Prof. Nidhi Bhatia			
Date of Birth	12/10/1991			
Unique id	1-2941131395			
Education Qualifications	B.E Instrumentation & Control, SCET,Surat & M.Tech Project Management, VJTI, Mumbai.			
Work Experience (in years)	Teaching	Research	Industry	others
	3.6			
Area of Specialization	Project Engineering and Management, Instrumentation & Control			
Courses taught at	Diploma Level			
	Post Diploma Level			
	Under Graduate Level	Project Engineering and Management, Cyber Security,Industrial Drives & Control, Measurements & Instruments , Simulation		

		& Design Tool, Electronic Devices and Circuits.
	Post Graduate Level	
	Post Graduate Diploma Level	
Research guidance	No. of papers published in National/International Journals/Conferences	NA
	Master	
	Ph.D.	
Projects Carried out	NA	
Patents	NA	
Technology Transfer	NA	
Research Publications	• Presented paper on "Productivity improvement of small and medium scale software industry" at Project Management Institute Research & Academic 2015 Conference. • Journal paper publication in IJEMR on "Success Factors for New Product Development in Industries" • Journal paper publication on "Automatic car washing system using PLC" in International Journal Of Innovative Research In Technology ISSN No.2349 – 6002 Volume 3 Issue 9 February 2017.	
No. of Books published with details	No. of Books published	
	Details of Books	NA

Name of the Teaching Staff	Prof. (Parmar			
Date of Birth	28-12-1991			
Unique id				
Education Qualifications	M.E. (Electronics & Communication Engineering) B.E. (Electronics & Communication Engineering)			
Work Experience (in years)	Teaching	Research	Industry	others
	2.5			
Area of Specialization	Communication, Signal Processing, Image Processing, Circuits & Network			

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	Basic Electronics, Electrical & Electronics Workshop, Digital Electronics, Image Processing, Analog and Digital Communication
	Post Graduate Level	
	Post Graduate Diploma Level	
Research guidance	No. of papers published in National/International Journals/Conferences	2
	Master	
	Ph.D.	
Projects Carried out		
Patents		
Technology Transfer		
Research Publications	• Parmar Priyank, Pathak Ketki, "Error Concealment Algorithm for H.264 Decoder: A Review", National Conference on Recent Trends in Information Technology, February 2015 • Parmar Chirag, Parmar Priyank, Jay Patel, "Speed Control of DC motor using PI, PID and Fuzzy Logic Controller" National Conference on Recent Trends in Information Technology, February 2015	
No. of Books published with details	No. of Books published	
	Details of Books	

Textile Technology

Name of the Teaching Staff	Prof.(Dr.) Prakashchandra A. Khatwani
Date of Birth	05/01/1964
Unique id	1-412652159
Education Qualifications	B. Text. (Engg.) [GOLD MEDALIST] M. Text. (Engg.)

	Ph. D. (Textile Engineering)			
Work Experience (in years)	Teaching	Research	Industry	others
	26	20	7	20 (Administrative)
Area of Specialization	Textile Engineering/Technology			
Courses taught at	Diploma Level			
	Post Diploma Level			
	Under Graduate Level	Textile Engineering/Technology		
	Post Graduate Level			
	Post Graduate Diploma Level			
Research guidance	No. of papers published in National/International Journals/Conferences	51		
	Master	More than 45 (UG Level)		
	Ph.D.	02 Degree Awarded (07 in progress)		

Projects Carried out	1. **Technical Research Advisor (Textiles)** to one of the leading companies at Surat, M/s. Sahajanand Technologies Pvt. Ltd., Surat on annual contract @ Rs. 15,000/- p.m. Involved actively in developments of devices useful for textile machinery. (December,2002 to September,2004 Total Amount Received : Rs. 3,30,000/-).
	 Developed :
	   1 Electronic Pick Counter for shuttle looms.
	   2 Designing of Electronic Dobby (Partly).
	2. Developed special variety of Nylon/Viscose blended yarn for local Industrialist. Received Rs.1000/- towards consultancy charges. (January, 2005)
	3. Designed and developed fast reed warp protector motion for a shuttle loom manufactured by M/s. Diamond Looms, Sachin, Surat. Development of the said motion had helped in inclusion of the shuttle loom in the list of machineries entitled for getting the subsidy/ grant from the Government of India under TUF scheme (Technology Upgradation Fund Scheme). Received Rs. 20,000/- for the same. (March - April, 2005)
	4. Invited by M/s Banswara Syntex Ltd., Banswara to carry out systems analysis work towards development of ERP solutions for entire unit. Rs. 20,000/- have been received for system analysis work. (May, 2005 to July, 2005)
	5. Project Consultant to M/s. Techno Fabrics, a sister concern of M/s. Bhagwati Prints, on initial contract for a period of 5 months @ Rs. 10,000/- p.m. Involved actively in selection of machineries, commissioning of machineries and development of speciality fabrics. (August, 2005 to December, 2005 Total Amount Received : Rs. 50,000/-)
	6. Project work from M/s. Indian Rayons, Surat to develop a weaving unit as a Bench-mark Unit (as far as Quality & Quantity are concerned) for weavers using viscose rayon yarns during weaving process during November, 2005 to December, 2005 @ Rs. 12,000/- per unit.
	7. Technical Opinion/ Guidelines provided to M/s. Kiran Industries Ltd., Udhna, Surat on Twisting/Drawing/Texturing processes in the month of December, 2005. Received Rs. 1000/- for the same.
	8. Provided services as a Project Developer to one of the leading			

	companies of Surat, M/s. Farmex, Surat. Actively involved in development of different departments, recruitment of suitable man power for the said departments to lead the company for achieving the ISO certification. 9. Implementation of 4-Point Quality System for Inspection of Grey Fabric at M/s. Ravi Exports ltd., Vareli, Surat (A Govt. recognized export house & manufacturer, exporter & importer of fabrics, Surat) (March-April, 2006). 10. Carried out Process Analysis for M/s. Manish Packaging Pvt. Ltd., Maroli, which is manufacturing PVC films used for packaging, on 22/11/2008. Received Rs.5000/- towards consultancy charges for the same. 11. Projects of Valuation of Textile Units were undertaken during 2001 to 2004. 12. Chief Co-ordinator (For all 3 courses – Mechanical, Chemical and Textile Technology) & Course Co-ordinator (Textile Technology-Up to 31/03/2008), Reliance Diploma Engineering Level Programme. It was the diploma programme designed for the employees of Reliance Industries Ltd., Hazira in 3 branches of engineering viz. chemical, mechanical and textile for the duration of 2 years on part-time basis – every Saturday & Sunday. The total Project Cost was about Rs. 80 lacs. (Rs. 2304000.00 exclusive of Service Tax @ 12% and Cess @3% for Textile Course) (September, 2007 to August, 2009) 13. Principal Investigator in a Project on E-pick counter for power looms which has been approved by the Department of Science & Technology, Government of India, New Delhi for the duration of 2 years started from October 1, 2011 and completed on November 30, 2013. The financial support received for the said project would be ` 14.13 lacs. Development of – 1. E-Pick Counter 2. E-Production cum Defect Analyzer
Patents	1. Filed patent on "E-Production cum Defect Analyser" – A DST Project work, provisionally on 08/07/2013 with application no. 2301/MUM/2013. It is expired on 23/09/2016. Fresh application is to be filed for the same. 2. Filed patent on "Fabric Quality Monitoring Device" – A Ph. D. work of Prof. K. S. Desai, provisionally on 22/04/2016 with application no. 201621014065 and transaction ID of N - 0000172722.
Technology Transfer	Technologies of products developed under the DST Project were transferred to M/s. Vraj Texparts Pvt. Ltd., Ahmedabad.
Research Publications	**INTERNATIONAL:** 1. "Recent Developments in Medical Textiles" in TEXTILE ASIA, p.23-24, April 2002. ISSN 0049-3554 2. "Conductive Fabrics and their Applications" in TEXTILE ASIA, p.29-32, December 2011. ISSN 0049-3554 3. "Influence of GSM material and fabric type on the properties of Non woven fabrics" is online in technicaltextiles.net from 2012. Click the link to view- http://www.technicaltextile.net/articles/nonwoven-textiles/detail.aspx?articleid=4294. 4. "ERP Modules for Industry-Institute Interaction, Training and Placement, and Alumni Management" Chapter

published in a Book titled "Enterprise resource planning models for the education sector : applications and methodologies" , p.178-184, October, 2012 [ISBN 978-1-4666-2193-0 (hardcover) -- ISBN 978-1-4666-2194-7 (e book) -- ISBN 978-1-4666-2195-4 (print & perpetual access)]. The book is published in the United States of America by Information Science Reference (an imprint of IGI Global) 701 E. Chocolate Avenue Hershey PA 17033.

5. "Developments in the use of nonwovens in building and construction" Chapter published in a Book titled "Advances in Technical Nonwovens", p. 386-401, June, 2016, ISBN 978-0-08-100575-0. The book is published by Woodhead Publishing (Woodhead Publishing series in Textiles) and edited by Dr. George Kellie.

6. "Mashru Fabrics : Its Production Technology and Scope for Further Development" – paper published in International Journal of Science Technology & Management (IJSTM), Volume 06, Issue 05, May,2017, 413-416. Impact Factor : 2.012, ISSN(Print) : 2394 – 1529, ISSN(Online) : 2394 – 1537.

7. "The Heritage of India : Indian Traditional Textile" – paper published in International Journal of Science Technology & Management (IJSTM), Volume 06, Issue 06, June, 2017. Impact Factor : 2.012, ISSN(Print) : 2394 – 1529, ISSN(Online) : 2394 – 1537.

8. "Natural Dyes : Types, Sources & Scope of Work" – paper published in International Journal of Scientific Review and Research in Engineering and Technology (IJSRRET), May-June, Volume (2), Issue (4), 2017. Impact Factor : 0.621(2015), 1.105(2016), ISSN(Online) : 2455 – 3603.

9. "Influence of Properties of Commonly Used Textile Fibres in Various Civil Applications – A Review" – paper published in International Journal of Creative Research Thoughts (IJCRT), April 2018, Volume 6, Issue 2. Impact Factor: 5.97, ISSN: 2320 – 2882.

10. "Automatic Defect Monitoring of Spunbond Nonwoven Fabrics & it's Analysis & Grading using Image Processing Techniques" – paper published in International Journal of Advance Engineering and Research Development (IJAERD), April 2018, Volume 5, Issue 4. Impact Factor: 5.97, e-ISSN: 2348 – 4470, p-ISSN:2348 - 6406.

11. "Review On The Study Of Structure Of Polypropylene For Development Of Different Textile Based Products For Packaging Industries" – paper published in International Journal of Research and Analytical Reviews (IJRAR), January 2019, Volume 6, Issue 1. Impact Factor: 5.75, e-ISSN: 2348 – 1269, p-ISSN:2349 - 5138.

NATIONAL:

1. "Elucidation of the Influence of Yarn Speed and Guide on Yarn Frictional Properties" in Fibre to Finish Journal, p.46, Vol.XXXI, 1993.

2. "Polypropylene Fabrics - Ring Spun and Rotor Spun" in The Indian Textile Journal, p.44, Vol.No.CIV, No.8, May, 1994. ISSN 0019-6436

3. "An Approach of Predicting Staple Yarn Strength from the Physical Properties of Fibres" in Journal of the Institution of Engineers (India), P.1, Volume 76, April, 1995. ISSN 0257-4438

		MERIT AWARD was given to this paper for Best Article of the year.

4. "Control of Hard Waste on Winding Machine" in Textile Industry of India, p.31, Jan. 1995.
5. "Polypropylene Staple Fibres -- On Rotor Spinning System" in Journal of the Maharaja Sayajirao University of Baroda, p.215-222, Vol.XLI (1994), No. 3.
6. "Polypropylene Fabrics from Ring Spun and Rotor Spun Yarns" in Journal of The Textile Association, p. 107-110, Vol.55, September, 1994. ISSN 0368-4636
7. "Testing and Bale Management" in The Indian Textile Journal, p.114, Vol.No. CV, No.9, June, 1995. ISSN 0019-6436
8. "Dynamic Properties of Nylon Monofilament on Instron Tensile Strength Tester" in Indian Journal of Fibre and Textile Research, p.1-7, Vol.23, March, 1998 .
9. "Fatigue Test on 20D Nylon" in The Indian Textile Journal, p.38-41, May, 1998. ISSN 0019-6436
10. "Knitting: Past Present and Future" in the Journal of The Textile Association, p. 109-11, September-October, 2000. ISSN 0368-4636
11. "ERP SOLUTIONS: A Need for Today's Small/Large Textile Sectors" in the Journal of The Textile Association, p.267-270, VOL.61, March-April, 2001. ISSN 0368-4636
12. "Influence of Number of Feeders & Type of Yarn on Knitted Fabric Properties" in the TEXTILE INDUSTRY & TRADE JOURNAL, p.15-18, March-April, 2001. ISSN 0040-4993
13. "Comparison of the Effect of using False Twist Textured Yarn & Air-jet Textured Yarn (as Weft) on Fabric Properties" in New Cloth Market, p.13-15, May, 2001.
14. "Are Tertiary Blends Better Than Binary Blends ?" in the Indian Textile Journal, p.19-25, July, 2001. ISSN 0019-6436
15. "A Study on Polyurethane Coated Fabrics" in New Cloth Market, p.89-91, August, 2001.
16. "Production of Fancy Yarns on Ring Frame" in The Textile Magazine, p.25-29, March, 2002. ISSN 0040-5078
17. "Developments in Warping" in the Journal of the Textile Association, p.201-202, January-February, 2002. ISSN 0368-4636
18. "ERP for effective co-ordination among different departments" in The Textile Magazine, p.41-46, May, 2002. ISSN 0040-5078
19. "Traverse Aids for Maintaining Air Flow" in New Cloth Market, p.17-20, May, 2002
20. "Developments in Warping – II" in the Journal of the Textile Association, p.239-242, January-February, 2003. ISSN 0368-4636
21. "New device to transfer concept in mind to fabric in minutes" in The Textile Magazine, p.81-83, March, 2003. ISSN 0040-5078
22. "Comparative Study of Properties of Draw Textured Yarns Produced with 1.5 & 2.0 Mt. Length of Primary Heater on HDS-VX2 Draw Texturing Machine" in the TEXTILE INDUSTRY & TRADE JOURNAL , p.63-68,September-October, 2003. ISSN 0040-4993
23. "Bicomponent Fibres : Fibres of Modern Era" in Man-Made Textiles in India, p.19- 23, December, 2003.
24. "Growth in Indian Textiles : An Overview" in Samruddhi, published by The Chamber of Commerce & Industry, Surat , p.32-34, January, 2004.

25. "e-Solutions For Weaving" in the Journal of the Textile Association, p.5-9, May-June, 2004. ISSN 0368-4636
26. "Bright Prospects Ahead in Textile Degree Courses" published in YUVA, a publication by Evidhya Group, Surat, p. 16-17, January, 2005.
27. "Application of CAD/CAM in Garment Industry" in Textile Review, P. 24-27, Volume 2 Issue 1 January 2007.
28. "Selection of Fabric for Different Areas of Fashion Designing" in the TEXTILE INDUSTRY & TRADE JOURNAL, p.41- 48, May-June, 2007. ISSN 0040-4993
29. "Control of Water quality and its influence on performance of Water-jet Looms" in Textile Review, P. 24-27, Volume 2 Issue 1 January 2007.
30. "Influence of Properties of Back-Up Fabrics on Properties of Synthetic Leather" in Journal of the Textile Association. May-June, 2014, Vol. No. 75 No. 1 pg.39. ISSN 0368-4636
31. "A Review of Detection of Structural Variability in Textiles using Image Processing and Computer Vision" – paper published in Journal for Research e-journal Volume 1 Issue 12 Feb 2016. ISSN : 2395 – 7549.
32. "A Review On Use Of Polypropylene Spun Bond Non-Woven Fabrics For Crop Covering & Wind Protection In Agro Textiles" – paper published in the Proceedings of National Conference on "Innovations with Technical Textiles" held during 25-17 March, 2017 at Department of Textile Technology, SCET, Surat. ISBN : 978 – 81 – 933591 – 6 – 7.
33. "Innovations In Packaging Textiles" – paper published in the Proceedings of National Conference on "Innovations with Technical Textiles" held during 25-17 March, 2017 at Department of Textile Technology, SCET, Surat. ISBN : 978 – 81 – 933591 – 6 – 7.
34. "Different Methods For Producing Nano Fibers And It's Application" – paper published in the Proceedings of National Conference on "Innovations with Technical Textiles" held during 25-17 March, 2017 at Department of Textile Technology, SCET, Surat. ISBN : 978 – 81 – 933591 – 6 – 7.

PAPERS PRESENTED:

1. "Multiphase and Circular Weaving Machines" - paper presented at NCUTE-Extension programme on "Weaving - II Shuttleless Looms" held at S.S.M College of Engineering, Komarapalayam (Tamilnadu) on 17th-18th August, 2000. Professors/Scientists from Research Institutes/Technical Personnels from Industries had participated in the said programme.
2. "Quality of Fabric in Grey State"- paper presented at Half Day Seminar organized by the Textile Association of India-Baroda Unit on 24th February, 2001.
3. "Development of ERP Solution for Textile Industry"- paper presented at Half Day Seminar organized by the Textile Association of India-Baroda Unit on 15th August,2005.
4. "Mechanisms of Air-jet Weaving Machines"- paper presented at Half Day Seminar organized by Southern Gujarat Chamber of Commerce & Industry, Surat on 09/01/2006 during UDYOG'06 (6-10, January,2006). Over 600 participants had attended the said seminar.
5. "Fabric Grading, Defects & Inspection Systems" – paper presented at Half Day Seminar on "Save Lubricants Through

	Education & Innovation" organized by Petrolium Conservation Research Association (PCRA)-New Delhi, The Bombay Textile Research Association, Mumbai & Powerloom Service Centre (Textile Commissioner's Office) –Surat on 15/02/2006. About 80 industrialist had attended the seminar.

6. "Nonwoven fabrics : Production Technologies"- paper presented at Half Day Seminar organized by the Textile Association of India-Baroda Unit on 15th December, 2006.

7. "IT Solutions for Textile Industry"- paper presented at Half Day Seminar organized by Southern Gujarat Chamber of Commerce & Industry, Surat on 08/01/2008 during UDYOG'08 (4-8, January,2008). Over 500 participants had attended the said seminar.

8. "Trends in Woven Fabric Structures"- lecture delivered on March 10, 2008 at 2.00 pm in the Department of Clothing and Textiles, Faculty of Family and Community Sciences, The Maharaja Sayajirao University of Baroda, Vadodara under Extra Mural Scheme. About 300 UG & PG students as well as faculties had attended the programme.

9. "Multi Phase Weaving"- paper presented at Half Day Seminar organized by Southern Gujarat Chamber of Commerce & Industry, Surat on 20/02/2009 during Vyapar-2009 (20-22, February,2009). Over 400 participants had attended the said seminar.

10. "Use of Intelligent Systems in Textiles" – paper presented at the Conference on Value Addition in Textiles : A Future Growth Perspective organized by Confederation of Indian Industry (CII), Gujarat at Hotel Park Inn , Surat on 25/04/2009.

11. "Scenario of Textile Industry of Surat in 2012"- paper presented at the Seminar organized by Southern Gujarat Chamber of Commerce & Industry, Surat on 29/01/2012 during UDYOG'12 (27-30, January,2012). Over 600 participants from Surat and other places had attended the said seminar.

12. "Fabric Quality Inspection Systems"- paper presented during the interactive session of Fabric Technical Experts organized jointly by Southern Gujarat Chamber of Commerce & Industry (SGCCI) and Global Fabric Resource & Research Centre (GFRRC) on 05/04/20016 at Samruddhi, Nanpura, Surat from 6.00 pm onwards.

13. Expert Lecture on "Positioning of Girl Students in Industry" delivered at Girls Polytechnic, Surat on 03/02/2017 organized by Equal Opportunity Cell of the institute working under Rashtriya Uchchatar Shiksha Abhiyan (RUSA).

14. Invited as a Guest of Honour and delivered a Guest Lecture on "Nonwoven Fabrics : Better Options for Applications in Technical Textiles" during NEXTILES -18, a National Conference on "Technical Textiles : Recent Innovations in Fibre to Fashion" organized by Department of Costume Design & Fashion, Dr. N.G. P. Arts and Science College (Autonomous), Re-accredited by NAAC with 'A' Grade, Kalapatti Road, Coimbatore – 641048 on 02/03/2018.

15. Invited as a Chief Guest and delivered a key note address on "Nonwovens : Materials, Production Technologies and Applications" during National Seminar cum Workshop organized by Department of Costume Design & Fashion, Dr. N.G. P. Arts and Science College (Autonomous), Re-accredited by NAAC with 'A' Grade, Kalapatti Road, Coimbatore – 641048 on 14/12/2018. Over 200+ students and faculties of nearby institutes had attended the workshop.

No. of Books published with details	No. of Books published	16 (Development of Course Materials)
	Details of Books	1. Proceedings of NCUTE - Pilot Programme on "Weaving-I Shuttle Looms" available as Reference Material for students of various Institutes of India. (September, 1999)
		2. Proceedings of NCUTE - Pilot Programme on "Weaving-II Shuttleless Looms" available as Reference Material for various Institutes of India. (October, 1999)
		3. Proceedings of NCUTE - HRD Programme on "Filament Weaving" available as Reference Material for students of various Institutes of India. (February, 2000)
		4. Proceedings of ISTE-AICTE approved Short Term Training Programme on "Modern Developments in Weaving & Processing Techniques for Cotton, Blends & Manmades" available as Reference Material for students of various Institutes of India. (July, 2001)
		5. Proceedings of NCUTE Pilot Programme on "Information Technology in Production & Trading of Textiles" available as Reference Material for students of various Institutes of India. (September, 2001)
		6. Proceedings of NCUTE Pilot Programme on "Technical Textiles" available as Reference Material for students of various Institutes of India. (February, 2002)
		7. Proceedings of ISTE-AICTE approved Short Term Training Programme on "Developments in Production & Processing Techniques for Textured Yarns & Fabrics" available as Reference Material for students of various Institutes of India. (June, 2002)
		8. Proceedings of NCUTE Programme on "Latest Developments in Textile Machinery" available as Reference Material for students of various Institutes of India. (March, 2004)
		9. Proceedings of ISTE-AICTE approved Short Term Training

			Programme on "Recent Developments in Polymeric Materials" available as Reference Material for students of various Institutes of India. (July, 2005)
			10. Proceedings of All India Seminar approved by Institutions of Engineers (India), Kolkata on "Non woven Fabrics: Raw Materials, Production Technologies & Applications" available as Reference Material for students of various Institutes of India. (27 – 28 September, 2005)
			11. Proceedings of ISTE-AICTE approved Short Term Training Programme on "Production Technologies of High Performance Fibres and Their Applications" available as Reference Material for students of various Institutes of India. (December, 2006)
			12. Proceedings of All India Seminar approved by Institutions of Engineers (India), Kolkata on "Medical Textiles : Production Technologies & Applications " available as Reference Material for students of various Institutes of India. (October, 2007)
			13. Proceedings of National Seminar approved by Institutions of Engineers (India), Kolkata on "TEXTILES : PROSPECTS & GROWTH BEYOND 2020 " available as Reference Material for students of various Institutes of India. (February, 2009)
			14. Proceedings of 3 Day Workshop approved by Anchor Institute (Textile Sector), M. S. University, Baroda on "RAW MATERIALS & MANUFACTURING TECHNOLOGIES OF TECHNICAL TEXTILES FOR DOMESTIC TEXTILE INDUSTRIES" available as reference book. (April, 2012)
			15. Conference Souvenir of "11th International & 69th All India Textile Conference" organized by The Textile Association (India), South Gujarat Unit during 20-21 December, 2013 at The Gateway (Taj), Surat. (20 – 21 December, 2013)
			16. Proceedings of National Conference on "Innovations with Technical Textiles" organized

		during 25-26 March, 2017 with ISBN 978-81-933591-6-7.
		17. [FIRST 3 BOOKS ARE INCLUDED IN THE LIST OF REFERENCE BOOKS IN THE CURRICULUM DEVELOPED BY AICTE (ALL INDIA COUNCIL FOR TECHNICAL EDUCATION) FOR TEXTILE TECHNOLOGY DEGREE COURSES]
		18. DEVELOPMENT OF AUDIO-VISUAL LEARNING MATERIAL: 12
		19. Ordinary Warping Machine
		20. Single-end Sizing Machine
		21. Swivel Loom
		22. Lappet Loom
		23. Ruti-C Cop Change Loom
		24. Shuttle Change Loom
		25. Air-jet Loom
		26. Rapier Loom
		27. Projectile Loom
		28. Circular Loom
		29. Latest developments in Shuttleless Looms exhibited at ITMA 2003
		30. CBT Package on Mechanics of Automatic Shuttle Looms

Name of the Teaching Staff	Dr.Chitra N. Joshi			
Date of Birth	19.10.1967			
Unique id	1-412652343			
Education Qualifications	Diploma Textile Technology, B.Text Tech, M. Text (Engg.), PhD			
Work Experience (in years)	Teaching	Research	Industry	others
	23			
Area of Specialization	Textile Technology			
Courses taught at	Diploma Level			
	Post Diploma Level			
	Under Graduate Level	√		
	Post Graduate Level			

	Post Graduate Diploma Level	
Research guidance	No. of papers published in National/International Journals/Conferences	60
	Master	
	Ph.D.	
Projects Carried out	Nil	
Patents	Nil	
Technology Transfer	Nil	
Research Publications	"Mathematical Model of Optimally Designed Sun Protective Workwear Fabric", International Journal of Engineering Research and Development, e-ISSN: 2278-067X, p-ISSN: 2278-800X, Volume 11, Issue 11 (November 2015). "Research of UV shielding properties of Polyester/Viscose woven fabric", International Journal of Textile and Fashion Technology (IJTFT) ISSN 2250-2378, Vol. 5, Issue 6, Dec 2015.	
No. of Books published with details	No. of Books published	01
	Details of Books	"DEVELOPMENTS IN TEXTILE PRODUCTION TECHNOLOGY AND MEDICAL TEXTILES (2010), Published by Mahajan Publishers Pvt. Ltd., AHMEDABAD, co-authored with Prof.Jitendra R. Ajmeri. - Written 02 chapters co-authored with Prof.Jitendra R. Ajmeri in Book entitled "Medical textiles and biomaterials for healthcare", published by Woodhead Publishing Limited, Cambridge, England, 2006. - Written 01 chapter co-authored with Prof.Jitendra R. Ajmeri, entitled, "Nonwoven personal hygiene materials and products" in the book titled "Applications of nonwovens in technical textiles", edited by R.A.Chapman, UK published by Woodhead Publishing Limited, Cambridge England in association with The Textile Institute, 2010. - Written 01 chapter co-authored with Prof.Jitendra R. Ajmeri, entitled, "Nonwoven materials and technologies for medical applications", in

		"Handbook of Medical textiles", edited by Dr.Volkmar T. Bartels, Germany published by Woodhead Publishing Limited, Cambridge England in association with The Textile Institute, August 2011.
		• Written 04 chapters co-authored with Prof,Jitendra R. Ajmeri, entitled: 1. "Developments in Nonwoven materials for medical applications", pp.227-249. 2. "Developments in Nonwoven as geotextiles", pp. 339-364. 3. "Developments in Nonwoven as agrotextiles", pp. 365-384. 4. "Developments in the use of Nonwovens for disposable hygiene products, pp.473-496. in "Advances in Technical Nonwovens", edited by Dr. G Kellie published by Woodhead Publishing Limited in association with The Textile Institute, Cambridge, England, June 2016, ISBN: 978-0-08-100575-0.

Name of the Teaching Staff	Sudhir Sureshchandra Yardi			
Date of Birth	30-10-1972			
Unique id	1-412652511			
Education Qualifications	B.Text.(Engg) , M.Text (Engg)			
Work Experience (in years)	Teaching	Research	Industry	others
	Over 21 Years		1 Year	
Area of Specialization	Textile Technology			
Courses taught at	Diploma Level			

	Post Diploma Level	
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	Under Graduate Level	√ BE – Textile Technology
	Post Graduate Level	
	Post Graduate Diploma Level	
Research guidance	No. of papers published in National/International Journals/Conferences	10
	Master	~
	Ph.D.	~
Projects Carried out	Guided BE Final Projects.	
Patents	~~~	
Technology Transfer	~~~	
Research Publications	1. Knitting : "Past Present and Future" ~ Journal of Textile Association , Sept ~Oct 2000 , Pg. 109~111. (ISSN 0368 ~ 4636) 2. Are Tertiary better than Binary blends ?~ The Indian Textile Journal,July 2001, Page 19~25. (ISSN 0019 ~ 6436) 3. "Introduction to Technical Textiles" in Proceedings of NCUTE Pilot Programme on "Technical Textiles" held on 02 ~ 03rd February , 2002 at Department of Textile Technology , Sarvajanik College of Engg. & Tech., Surat Pg~ 01 –12Remove this and paste the details of your publication 4 4. "Bicomponent Fibres : Fibres of Modern Era" ~ Manmade Textiles in India , SASMIRA December 2003 (ISSN 0377~ 7537) 5. Seam puckering in Readymade Garments:Causes & remedies ~ The Textile Magazine, March 2005,Page 86~ 87(ISSN:0040~5078) 6. Embroidery Machines : A unique combination of Art & Technology – The Textile Magazine , December 2007, Page – 132 ~136 7. Control of Water quality and its influence on performance of Water Jet looms – Textile Review , January 2008 , Page 23~27. (ISSN No 0974~2530) 8. An Overview of Compact Spinning Technology – Spinning Textiles Sept~Oct 2008, Page 68 – 74 9. "Industrial Fabrics used in Conveyor & Power Transmission Belts" – paper published in the Proceedings of 6th International Conference on "Advances in Textiles, Machinery, Nonwovens and Technical Textiles" held during 7th ~9th of December 2009 at Bannari Amman Institute of Tech., Sathyamangalam, Erode District, Tamilnadu, India. 10. 'Organic Textiles' – Paper presented at International Conference on Environmental Research – ICER 2011 held at SVNIT – Surat during 15 – 17 December 2011	
No. of Books published with details	No. of Books published	
	Details of Books	Proceedings of NCUTE HRD Programme on "FILAMENT WEAVING" ~ published

in book form by NCUTE, IIT Delhi.(Nodal Centre for Upgradation of Textile Education , IIT Delhi ,Under Ministry of Textiles ,Govt. Of India) Proceedings of NCUTE Pilot Programme on "Technical Textiles " - published in book form by NCUTE, IIT Delhi.(Nodal Centre for Upgradation of Textile Education , IIT Delhi ,Under Ministry of Textiles ,Govt. Of India)		

Name of the Teaching Staff	Dr.Jitendra R. Ajmeri			
Date of Birth	11.11.1971			
Unique id	1-401941231			
Education Qualifications	Ph.D., M.Text. Engg, B.Text.Tech			
Work Experience (in years)	Teaching	Research	Industry	others
	20		03	
Area of Specialization	Textiles			
Courses taught at	Diploma Level			
	Post Diploma Level			
	Under Graduate Level	√		
	Post Graduate Level			
	Post Graduate Diploma Level			
Research guidance	No. of papers published in National/International Journals/Conferences	83		
	Master			
	Ph.D.			
Projects Carried out	Nil			
Patents	Nil			
Technology Transfer	Nil			
Research Publications	• "Influence of feeder & type of yarn on knitted fabric properties" in Textile Industry & Trade Journal, March-April,2001, vol.40, no.5-6, 67-74, ISSN – 0040-4993.Remove this and paste the details of your publication 2			

	"Experimental Evaluation of Splice" in Textile Industry & Trade Journal, Nov.-Dec.,2001 Annual Number, vol.39, no.11-12, 51-58. "Influence of Type of Feed Yarn on Properties of Tubular Knitted Fabrics" In Textile Industry & Trade Journal, May-June 2002. "Production of Bishrinkage Yarn & their Influence on fabric properties" in Textile Industry & Trade Journal. March-April, 2004, 41-50. "Improvement in Yarn Quality – A Successful Case Study" Proceedings of 2nd National Technical Convention on "Present Scenario of Spinning Segment of Textile Industries", held at Institute of Labour Development during at Jaipur during Jan 19-20, 2003. - Comparative study of properties of yarn and fabric manufactured from regenerated man-made cellulosic fibre", Proceedings of 5th International Conference on " Advances in Textiles, Machinery, Nonwoven and Technical Textiles ATNT – 2008", jointly organized by Department of Textiles and Clothing, Avinashilingam University for Women, Coimbatore and The Institute of Environmental and Human Health, Texas Tech University, Lubbock, USA, during July 14-16, 2008. "Factors Affecting Air Permeability of Viscose & Excel Single Jersey Fabric", International Journal of Engineering Research and Development, e-ISSN: 2278-067X, p-ISSN: 2278-800X, Volume 5, Issue 7 (January 2012), 48-54. "Comparative Analysis of the thermal comfort properties of knitted fabrics made of cotton and modal fibres", International Journal of Textile and Fashion Technology (IJTFT), ISSN 2250-2378, Volume 6, Issue 12 (May 2013),1-06. "Investigation of Air Permeability of Cotton & Modal Knitted Fabrics", International Journal of Engineering Research and Development, e-ISSN: 2278-067X, p-ISSN: 2278-800X, Volume 5, Issue 7 (January 2012), 48-54. "Air Permeability of Knitted fabrics made from Regenerated Cellulosic fibres", International Journal of Engineering Research and Development, e-ISSN: 2278-067X, p-ISSN: 2278-800X., Volume 10, Issue 7, (July 2014), 16-22. "Nanofibrils are the key to the performance of Excel – Moisture management", co-authored with Prof.(Dr.)S.S.Bhattacharya, in Proceedings of THREE DAYS INTERNATIONAL SEMINAR On "Application of Nano-Particles in Textile" organized by ANCHOR INSTITUTE (TEXTILE SECTOR), DEPARTMENT OF TEXTILE ENGINEERING, FACULTY OF TECHNOLOGY & ENGINEERING, THE M.S.UNIVERSITY OF BARODA, April 23, 2015. "Excel single jersey fabrics are suitable for warmer climate" in Textile Asia, October 2015, 41-45. "Viscose pique fabrics are the best for winter climate" in Textile Asia, Jan-Feb 2016. **"Single Jersey Modal Fabrics-Better Choice for Sportswear Applications",** Journal of Textile Engineering & Fashion Technology, Volume 2 Issue 6 – 2017.

		• "Relationship between tightness factor and moisture management properties of single jersey cotton fabrics", Technical Textiles, Vol. 61 Issue1/2018, ISSN 0323-3243, 33-35. • "Relationship between tightness factor and moisture management properties of single jersey cotton fabrics", Melliand International, 1/2018, 33-35, ISSN: 0947-9163. • "Agrotextiles – Offering Farm Productivity Solutions", International Conference on "Emerging global situation: Impact on Trade & Agribusiness in India" during September 28-29, 2018, jointly organized by BJVM & AERC, V.V.Nagar.
No. of Books published with details	No. of Books published	
	Details of Books	• "DEVELOPMENTS IN TEXTILE PRODUCTION TECHNOLOGY AND MEDICAL TEXTILES (2010), Published by Mahajan Publishers Pvt. Ltd., AHMEDABAD, co-authored with Prof.ChitraN.Joshi. • Written02 chapters co-authored with Prof.ChitraN.Joshi in Book entitled "Medical textiles and biomaterials for healthcare", published by Woodhead Publishing Limited, Cambridge, England, 2006. • Written01 chapter co-authored with Prof.ChitraN.Joshi, entitled, "Nonwoven personal hygiene materials and products" in the book titled "Applications of nonwovens in technical textiles", edited by R.A.Chapman, UK published by Woodhead Publishing Limited, Cambridge Englandin association with The Textile Institute, 2010. ISBN 978-1-84569-437-1. • Written 01 chapter co-authored with Prof.ChitraN.Joshi, entitled, "Nonwoven materials and technologies for medical applications", in "Handbook of Medical textiles", edited by Dr.Volkmar T. Bartels, Germany published by Woodhead Publishing Limited, Cambridge Englandin association with The Textile Institute, August 2011. P. 106-131.ISBN 978-1-84569-691-7. • Written 04 chaptersco-authored with Prof. Chitra N. Joshi, entitled:

1. Developments in Nonwoven materials for medical applications", pp.227-249.	
2. Developments in Nonwoven as geotextiles", pp. 339-364.	
3. Developments in Nonwoven as agrotextiles", pp. 365-384.	
4. Developments in the use of Nonwovens for disposable hygiene products, pp.473-496.	
• in "Advances in Technical Nonwovens", edited by Dr.G Kellie published by Woodhead Publishing Limited in association with The Textile Institute, Cambridge, England, June 2016, ISBN: 978-0-08-100575-0.	

Name of the Teaching Staff	Dr. Krishma Desai
Date of Birth	22/08/1976
Unique id	1-412744351
Education Qualifications	B. Text (Tech.) with Dist. PhD (Textile Engg.)

Work Experience (in years)	Teaching	Research	Industry	others
	20 years 8 months		1 year	

Area of Specialization	Textile Engineering

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	√ Textile Technology
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	26
	Master	
	Ph.D.	

Projects Carried out	01

Patents	Filed-02
Technology Transfer	01
Research Publications	INTERNATIONAL:

<div style="margin-left:2em">

INTERNATIONAL:

1. **"Quality Parameters for Medical Textiles and Their Assessment"** - paper published in the Proceedings of MEDITEX-2014 International Conference on "Current Trends in Medical Textile Research" organized by Centre of Excellence In Medical Textiles, The South India Textile Research Association, Coimbatore, Tamil Nadu, India and sponsored by Office of the Textile Commissioner, Ministry of Textiles, Government of India on 1st March, 2014.

2. **"Quality Parameters for Baby Diapers and Their Assessment"** - paper published in the Proceedings of INDO – CZECH INTERNATIONAL CONFERENCE on "Advancements in Specialty Textiles and their Applications in Material Engineering and Medical Sciences (ICIC 2014) " organized jointly by Department of Textile Technology / Department of Fashion Technology, Kumaraguru College of Technology, Coimbatore and Technical University of Liberec, Faculty of Textile Engineering, Czech Republic during 29th-30th April, 2014.

3. **"Development of Eco Friendly and Cost Effective Solutions for Packaging Industries"**- paper published in the Proceedings of International Conference on "Technical Textiles and Nonwovens" organized by IIT Delhi during 6-8 November, 2014 at IIT Delhi.

4. **"Quality Requirements For Woven Fabrics Used As Functional Textiles"** - paper published in the Proceedings of theGlobal Textile Congress organized by The Textile Association (India) in association with Thailand Convention & Exhibition Centre, ThailandTheme :"Global Textile – Opportunities & Challenges in an Integrated Word"** during 13-15 February, 2015 at Ambassador Hotel (Convention Hall), Bangkok, Thailand. Speakers from India and abroad had shared their views on different areas of textiles. Over 400 delegates from across the globe had participated in the said conference.

5. **"High Performance Nonwovens for Infrastructural Developments in India"** – paper published in the Proceedings of theSecond International Conference on Nonwovens for High Performance Applications organized by the International Newsletters Ltd., UK during 4-5 March, 2015 at Novotel Hotel, Cannes, France.** Speakers from across the globe had shared their views on different areas of applications of nonwovens and other related textiles. Over 65 technocrats from the reputed industries, organizations and universities across the globe had participated in the said conference.

6. **"Development of Conductive Fabrics and their Applications in Textiles"** – in TEXTILE ASIA, p.29-32, Dec. 2011.

7. **"Developments in the use of nonwovens in building and construction"** Chapter published in a Book titled "Advances in Technical Nonwovens", edited by Dr.G Kellie published by Woodhead Publishing Limited in association with The Textile Institute, Cambridge, England, June 2016. p. 385-401, ISBN: 978-0-08-100575-0 (print), SBN: 978-0-08-100584-2 (online)

8. **"Automatic Defect Monitoring of Spunbond Nonwoven Fabrics & it's Analysis & Grading using Image Processing Techniques"** in International Journal of Advance Engineering and Research

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Development Volume 5, Issue 04, April -2018.

NATIONAL:

9. "**Enterprise Resource Planning – A Solution For Today's Textile Industry**" paper presented at NCUTE Pilot Programme on "Information Technology in Production & Trading of Textiles" held during 14-16 Sept., 2001 at Dept. of Textile Tech., Sarvajanik College of Engg. & Tech., Surat.

10. "**Application of ERP-Solutions for Spinning Industry**" paper published & presented at NCUTE Training Programme held at Anuradha Engineering College, Chikli, during 20-22 April, 2002

11. "**e-Solutions For Weaving**" in the Journal of the Textile Association, p.5-9, May-June, 2004.

No. of Books published with details	No. of Books published	01
	Details of Books	1. Proceedings of NCUTE Pilot Programme on "Information Technology in Production & Trading of Textiles" available as Reference Material for students of various Institutes of India.

Name of the Teaching Staff	AMIN HIRENBHAI NAVINBHAI			
Date of Birth	04/12/2010			
Unique id	1-412744355			
Education Qualifications	B.E. (Textile Technology) M.E. (Textile Engineering) Ph.D. (Textile Engineering), P.G.D.B.M.			
Work Experience (in years)	Teaching	Research	Industry	others
	08	-	06	-
Area of Specialization	Textile Engineering (Man Made Textiles)			
Courses taught at	Diploma Level			
	Post Diploma Level			
	Under Graduate Level	B.E. (Textile Technology)		
	Post Graduate Level			
	Post Graduate Diploma Level			
Research guidance	No. of papers published in National/International Journals/Conferences	16		
	Master			

	Ph.D.	
Projects Carried out	nil	
Patents	nil	
Technology Transfer	nil	
Research Publications	1. Textile Asia (Nov. 2012) - "Fibre reinforced polymer products for restoration of columns and piles" [ISSN : 0049-3554] 2. Textile Asia (April 2013) - "High functional textile garments for electrostatic discharge control" [ISSN : 0049-3554] 3. Asian Textile Journal (June 2013) - "Compact spinning systems" [ISSN 0971 3425] 4. International Journal of Advance Engineering and Research Development (IJAERD) (Feb 2015) - "Classimat Yarn Faults" [ISSN(O): 2348-4470] 5. International Journal of Advance Engineering and Research Development (IJAERD) (Nov 2015) - "Class wise - Classimate faults and their physical properties" [ISSN(O): 2348-4470] 6. International Journal of Advance Engineering and Research Development (IJAERD)(Nov 2015) - "Analysis of dielectric strength of laminates made from conductive knitted fabrics" [ISSN(O): 2348-4470] 7. International Journal of Advance Engineering and Research Development (IJAERD)(Nov 2015) - "Analysis of surface resistivity and volume resistivity of laminates made from conductive knitted fabrics" [ISSN(O): 2348-4470] 8. International Journal of Advance Engineering and Research Development (IJAERD)(Nov 2015) - "Study on different methodologies to impart conductive characteristics in textiles for ESD/radiation protection" [ISSN(O): 2348-4470] 9. International Journal of Advance Engineering and Research Development (IJAERD)(Nov 2015) - "Study of conductive textile laminates by direct examination SEM method" [ISSN(O): 2348-4470] 10. International Journal of Advance Engineering and Research Development (IJAERD)(Nov 2015) - "Study different parameters for energy conservation in lighting at technical textile production units" [ISSN(O): 2348-4470] 11. International Journal of Engineering Science and Futuristic Technology [IJESFT](Dec, 2015) - "Study Nano scale applications of Inherently electrically conductive polymers (ICP's) for ESD control in Textiles" [ISSN : 2454-1338(O)] 12. International Journal of Engineering Science and Futuristic Technology [IJESFT](Dec, 2015) - "Application of Nano material to enhance acoustic properties" [ISSN : 2454-1338(O)] 13. International Journal of Engineering Science and Futuristic Technology [IJESFT](Dec, 2015) - "Adverse health implications of Nanotechnolgy textile applications" [ISSN : 2454-1338(O)] 14. International Journal of Engineering Science and Futuristic Technology [IJESFT](Dec, 2015) - "Type wise - Classimat faults and their physical properties" [ISSN : 2454-1338(O)] 15. International Research Journal of Engineering and Technology (IRJET)(Dec, 2015) - "Analysis of Surface resistivity behavior of conductive woven fabrics made from Copper Jari & SS/Polyester yarns for ESD Control" [ISSN: 2395-0056]	

	16. International Journal of Advance Engineering and Research Development (IJAERD) (Jan 2016) - "Analysis of Surface resistivity behavior of conductive woven fabrics made from Pure Metal Wires and Cu Jari for ESD Control" [ISSN(O): 2348-4470]
No. of Books published with details	**No. of Books published**	
	Details of Books	

Name of the Teaching Staff	Prof. Shweta J. Doctor
Date of Birth	23/04/1985
Unique id	1-435424841
Education Qualifications	B.E. (Textile Processing), M.E. (Textile Chemistry), Ph.D. pursuing (Textile Engineering)

Work Experience (in years)	Teaching	Research	Industry	others
	10	01	~~	~~

Area of Specialization	Textile Technology & Textile Processing

Courses taught at	Diploma Level	~~
	Post Diploma Level	~~
	Under Graduate Level	√
	Post Graduate Level	~~
	Post Graduate Diploma Level	~~

Research guidance	No. of papers published in National/International Journals/Conferences	03
	Master	~~
	Ph.D.	~~

Projects Carried out	~~~
Patents	~~~
Technology Transfer	~~~
Research Publications	• Published a paper on "3-Dimentional Solid Woven Architectures and Manufacturing" in the national level "Journal of the Textile Association" as co-author in Jan-Feb 2013
• Published a paper on "Synthesis of Reactive Fragranced Entities and Its Application to Cotton Textiles" in the international level

	journal of "Textiles & Light Industrial Science & Technology" in April 2013 • Published a paper on "Synthesis of Fragranced Dyes and Their Application to Cotton Textiles" in the international level "Journal of Textile and Apparel, Technology and Management" in August 2013		
No. of Books published with details	No. of Books published		
	Details of Books	~~~	

Name of the Teaching Staff	DR. MILIND S. INAMDAR

Date of Birth	13 AUGUST 1962

Unique id	1-434091460

Education Qualifications				
	SR. NO.	DEGREE	BOARD/UNIVERSITY	YEAR OF PASSING
	01.	PH. D.	THE M .S. UNIVERSITY OF BARODA, VADODARA	2014
	02.	M.SC. (TECH.) (TEXTILE CHEMISTRY)	THE M. S. UNIVERSITY OF BARODA, VDODARA	2004
	03.	B. SC. (TECH.) (TEXTILE CHEMISTRY)	THE M. S. UNIVERSITY OF BARODA, VDODARA	1986
	04.	B. SC. (CHEMISTRY)	KARNATAK UNIVERSITY, DHARWAD	1983

Work Experience (in years)	Teaching	Research	Industry	others
	22	~	8.5	~

Area of Specialization	Textile Processing

Courses taught at	Diploma Level	~
	Post Diploma Level	~
	Under Graduate Level	~
	Post Graduate Level	Textile Fibres, Fibre Physics, SQC, Environmental Science
	Post Graduate Diploma Level	~

Research guidance	No. of papers published in National/International Journals/Conferences	16

	Master	~
	Ph.D.	~
Projects Carried out	~	
Patents	~	
Technology Transfer	~	
Research Publications	- Studies on the Properties of Chitosan Treated Cotton Fabric, Asian Dyer, Vol 6, No 5, Oct (2009) 43-53. ISSN 0972:9488 - Aqueous Behaviour of Chitosan, International Journal of Polymer Science, Vol 2010, (2010) 1-7.ISSN: 1687-9422, e-ISSN: 1687-9430. - Studies on synthesis, characterization and viscosity behaviour of nano chitosan, Research Journal of Engineering Sciences, Vol. 1(4) October (2012) 9-15. ISSN 2278 – 9472 - Improvement in the properties of cotton fabric through synthesized nano chitosan application, Indian Journal of Fibre & Textile Research, Vol.38, March (2013) 14-21 ISSN 0971:0426 - Application of chitosan and its derivatives in removal of Cu(II) ions from water used in textile wet processing", Textile Research Journal, Vol.84 (14), (2014) 1539-1448, ISSN Print: 0040-5175; Online: 1746-7748 - Studies on the Synthesis and Application of N,N,N-Trimethyl Chitosan Chloride (TMCHT) on Cotton Fabric", Journal of Natural Fibers, Vol. 12 (4), (2015) 341-356, ISSN: 1544-0478 (Print), 1544-046X (Online)	
No. of Books published with details	No. of Books published	1
	Details of Books	D. P. Chattopadhyay and M. S. Inamdar, Ch 19, "Chitosan and nano chitosan: properties & application to textiles", Handbook of Sustainable Polymers: Processing and Applications, Edited by Vijay Kumar Thakur and Manju Kumari Thakur, (2016) Pg 659-742, Pub. Pan Stanford Publishing, Danvers, USA, 2016, www.panstanford.com, ISBN 978-981-4613-53-8 (Hardcover), 978-981-4613-54-5 (eBook)

Name of the Teaching Staff	Khan Javed Sultan

Date of Birth	04061961

Unique id	1-435391101

Education Qualifications	M.E (Textile Process Engineering)

Work Experience (in years)	Teaching	Research	Industry	others
	20	~	15	~

Area of Specialization	Textile Processing

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	B.E.(Textile Technology)
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	04
	Master	
	Ph.D.	

Projects Carried out	nil

Patents	nil

Technology Transfer	nil

Research Publications	

No. of Books published with details	No. of Books published
	Details of Books

Mechanical Engineering

Name of the Teaching Staff	Vibhakar Nitinkumar Navinchandra		
Date of Birth	04/06/1967		
Unique id	1-455848421		
Education Qualifications	B.E.(Mech), M.E.(Mech), Ph.D.		
Work Experience (in years)	Teaching	Research	Industry	others
	23	0	5	~
Area of Specialization	Design of Turbo-machines		

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	3
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	13
	Master	11
	Ph.D.	

Projects Carried out	Not Applicable
Patents	Not Applicable
Technology Transfer	Not Applicable
Research Publications	• Not Applicable

No. of Books published with details	No. of Books published	0
	Details of Books	• Not Applicable

Name of the Teaching Staff	Gohil Pankajkumar Paragbhai			
Date of Birth	27/08/1979			
Unique id	1-455848426			
Education Qualifications	B.E.(Mech), M.Tech.(Mech), Ph.D.			
Work Experience (in years)	Teaching	Research	Industry	others
	15	0	0	0
Area of Specialization	Hydro turbo machinery, Alternate source of energy			

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	4
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	18
	Master	
	Ph.D.	

Projects Carried out	Not Applicable
Patents	1
Technology Transfer	Not Applicable
Research Publications	• Pankaj Gohil and Amit Mehta, "A Feasibility Study of Human Bicycle Pedal Power Generation", International Journal of Emerging Technology and Advanced Engineering, (ISSN: 2250 – 2459)

No. of Books published with details	No. of Books published	0
	Details of Books	• Not Applicable

Name of the Teaching Staff	Mehta Amit Umeshbhai
Date of Birth	19/10/1986
Unique id	1-455989249

Education Qualifications	B.E.(Mech), M.Tech.(TSD)			
Work Experience (in years)	Teaching	Research	Industry	others
	8	0	0	0
Area of Specialization	Thermal Engineering			

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	4
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	4
	Master	
	Ph.D.	

Projects Carried out	Not Applicable
Patents	Not Applicable
Technology Transfer	Not Applicable

Research Publications	• Pankaj Gohil and Amit Mehta, "A Feasibility Study of Human Bicycle Pedal Power Generation", International Journal of Emerging Technology and Advanced Engineering, (ISSN: 2250 – 2459) • Dhruvin L. Shukla, Amit U. Mehta and Kalpesh V. Modi, "Dynamic Overset 2D CFD Numerical Simulation of a Small Vertical Axis Wind Turbine", International Journal of Ambient Energy (Taylor & Francis Publication House) (2018) 1-8.

No. of Books published with details	No. of Books published	0
	Details of Books	• Not Applicable

Name of the Teaching Staff	Shah Bhumi Ankit
Date of Birth	15/06/1984
Unique id	1-1506945293
Education Qualifications	B.E.(Mech), M.Tech.(IPED)

Work Experience (in years)	Teaching	Research	Industry	others
	8	0	0	0
Area of Specialization	Design and dynamics			

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	3
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	8
	Master	
	Ph.D.	

Projects Carried out	Not Applicable

Patents	Not Applicable

Technology Transfer	Not Applicable

Research Publications	• Bhumi Shah, "Online condition monitoring for detection of crack in the shaft using vibration analysis method", International Journal - Industrial Lubrication and Tribology, (ISSN: 0036 – 8792)

No. of Books published with details	No. of Books published	0
	Details of Books	• Not Applicable

Name of the Teaching Staff	Dokiparti Satish

Date of Birth	03/12/1987

Unique id	1-2685207263

Education Qualifications	M.Tech (Mechanical, Specialization – Turbomachines), B.E (Mechanical)

Work Experience (in years)	Teaching	Research	Industry	others
	6	0	1	0

Area of Specialization	Hydro-Turbomachines

Courses taught at	Diploma Level
	Post Diploma Level

	Under Graduate Level	4
	Post Graduate Level	
	Post Graduate Diploma Level	
Research guidance	No. of papers published in National/International Journals/Conferences	04
	Master	
	Ph.D.	
Projects Carried out	Not Applicable	
Patents	Not Applicable	
Technology Transfer	Not Applicable	
Research Publications	• Research Paper titled – "Burr Formation Mechanism in Machining – A Review" in National Conference on Progress, Research and Innovation in Mechanical Engineering (PRIME) organized by Mechanical Engineering Department, Sarvajanik College Engineering & Technology, Surat; during 25th – 26th March, 2017.	
No. of Books published with details	No. of Books published	0
	Details of Books	• Not Applicable

Name of the Teaching Staff	Gajjar Umang Dasarathbhai			
Date of Birth	01/05/1986			
Unique id	1-2941130853			
Education Qualifications	B.E.(Mech), M.E.(IC & AE)			
Work Experience (in years)	Teaching	Research	Industry	others
	7	0	0	0
Area of Specialization	Internal Combustion Engine			
Courses taught at	Diploma Level			
	Post Diploma Level			
	Under Graduate Level	4		
	Post Graduate Level			
	Post Graduate Diploma Level			

Research guidance	No. of papers published in National/International Journals/Conferences	3
	Master	
	Ph.D.	

Projects Carried out	Not Applicable

Patents	Not Applicable

Technology Transfer	Not Applicable

Research Publications	• Not Applicable

No. of Books published with details	No. of Books published	0
	Details of Books	• Not Applicable

Name of the Teaching Staff	Desai Mit Dharmeshbhai

Date of Birth	04/01/1991

Unique id	1-1505258109

Education Qualifications	B.E.(Mech), M.S.(Energy Systems Engineering)

Work Experience (in years)	Teaching	Research	Industry	others
	4	0	1	0

Area of Specialization	Renewable Energy, HVAC Systems

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	4
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	1
	Master	
	Ph.D.	

Projects Carried out	Not Applicable

Patents	Not Applicable

Technology Transfer	Not Applicable	
Research Publications	• Not Applicable	
No. of Books published with details	No. of Books published	0
	Details of Books	• Not Applicable

Name of the Teaching Staff	Patel Nilesh Natvarbhai			
Date of Birth	06/01/1989			
Unique id	1-3559171353			
Education Qualifications	B.E.(Mech), M.E.			
Work Experience (in years)	Teaching	Research	Industry	others
	6	0	1.2	0
Area of Specialization	Internal Combustion Engine			

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	3
	Post Graduate Level	
	Post Graduate Diploma Level	
Research guidance	No. of papers published in National/International Journals/Conferences	3
	Master	
	Ph.D.	
Projects Carried out	Not Applicable	
Patents	Not Applicable	
Technology Transfer	Not Applicable	
Research Publications	• Not Applicable	
No. of Books published with details	No. of Books published	0
	Details of Books	• Not Applicable

Name of the Teaching Staff	Shukla Dhruvin Laxyeshkumar		
Date of Birth	13/07/1992		
Unique id	1-3553891203		
Education Qualifications	B.E.(Mech), M.E.(Energy Engineering)		

Work Experience (in years)	Teaching	Research	Industry	others
	3	0	0	0

Area of Specialization	Renewable Energy (Solar Energy)	

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	3
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	7
	Master	7
	Ph.D.	

Projects Carried out	Not Applicable

Patents	Not Applicable

Technology Transfer	Not Applicable

Research Publications	- Kalpesh V. Modi, Dhruvin L. Shukla and Dipak B. Ankoliya, "A comparative performance study of double basin single slope solar still with and without using water nanoparticles", Journal of Solar Energy Engineering: Including Wind Energy and Building Energy (ASME) 141 (3) (2018) 031008-1-10. - Dhruvin L. Shukla, Amit U. Mehta and Kalpesh V. Modi, "Dynamic Overset 2D CFD Numerical Simulation of a Small Vertical Axis Wind Turbine", International Journal of Ambient Energy (Taylor & Francis) (2018) 1-8. - Kalpesh V. Modi, Dipak B. Ankoliya and Dhruvin L. Shukla, "An approach to optimization of double basin single slope solar still water depth for maximum distilled water output",

	Journal of Renewable and Sustainable Energy (AIP) 10 (4) (2018) 043708.		
	• Kalpesh V. Modi and Dhruvin L. Shukla, "Regeneration of liquid desiccant for solar air-conditioning and desalination using hybrid solar still", Energy Conversion and Management (Elsevier) 171 (2018) 1598-1616.		
No. of Books published with details	No. of Books published	0	
	Details of Books	• Not Applicable	

Name of the Teaching Staff	Tandel Aniket Kishanbhai
Date of Birth	21/05/1993
Unique id	1-4500106032
Education Qualifications	M.Tech(Automobile), B.E.(Mechanical)

Work Experience (in years)	Teaching	Research	Industry	others
	1.5	0	0	5 (Rangbhumi/Drama)

Area of Specialization	Automobile Design, Maintenance.

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	4
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	0
	Master	
	Ph.D.	

Projects Carried out	• Self-Balancing two wheel human transporter, • Fault Detection and Diagnosis of Diesel engine Valve Train (real time condition Monitoring) • Sphere Tyre modelling • Solar Vehicle **(Recorded in Gujarat book of records as the first vehicle running on solely on solar energy.)** • Tadpole Designed Vehicle. • Quadra-cycle.

	• Remote controlled six wheeler off-road robot car.
Patents	**"Electromagnet Device for Vehicle Auto Balancing." (Provisional)**
Technology Transfer	Not Applicable
Research Publications	• Not Applicable
No. of Books published with details	**No. of Books published** — 0
	Details of Books — • Not Applicable

Name of the Teaching Staff	Chhowala Mehul Brijlal			
Date of Birth	17/06/1991			
Unique id	78736			
Education Qualifications	B.E.(Mech), M.Tech.(Thermal Engineering)			
Work Experience (in years)	**Teaching**	**Research**	**Industry**	**others**
	4	0	0	0
Area of Specialization	Thermal Engineering			

Courses taught at	Diploma Level	
	Post Diploma Level	
	Under Graduate Level	3
	Post Graduate Level	
	Post Graduate Diploma Level	

Research guidance	No. of papers published in National/International Journals/Conferences	1
	Master	
	Ph.D.	

Projects Carried out	Not Applicable
Patents	Not Applicable
Technology Transfer	Not Applicable
Research Publications	• Research Paper published in "5th National Conference on emerging vistas of Technology in 21st century" organized by

	Parul Institute of Engineering and Technology on "Thermo-compressor-Design and CFD Analysis for sugar factory", Vadodara.ISBN-9789383842322.	
No. of Books published with details	No. of Books published	~~
	Details of Books	~~

Master of Computer Application

Name of the Teaching Staff	Prof. Gayatri Kapadia
Date of Birth	02-Nov-1984
Unique id	1-440302841
Education Qualifications	BCA, MCA, M.Phil. (Comp. Sci.)

Work Experience (in years)	Teaching	Research	Industry	others
	10 Years 4 Months		11 Months	

Area of Specialization	Data Structures, Mobile Computing (Android), Cloud Computing, Search Engine Optimization

Courses taught at	Diploma Level	Not Applicable
	Post Diploma Level	Not Applicable
	Under Graduate Level	Not Applicable
	Post Graduate Level	MCA
	Post Graduate Diploma Level	Not Applicable

Research guidance	No. of papers published in National/International Journals/Conferences	0
	Master	0
	Ph.D.	0

Projects Carried out	NIL
Patents	NIL
Technology Transfer	NIL
Research Publications	List of Paper Publications in Journal:

	1. Gayatri S. Kapadia, Ravi Gulati, "Loss of Control Over Data in Cloud Computing" presented in National Seminar on National Language Processing and Data Mining (NLPDM – 2015) held on March 3-4, 2015 at Department of Computer Science , Veer Narmad South Gujarat University, Udhana Magdalla Road, Surat – 395007 (ISSN:0975-5446). 2. Gayatri S. Kapadia, Ravi Gulati, "Security Concern For Virtualization In Cloud Computing" published in International Journal of Computer Science Engineering and Information Technology Research (IJCSEITR) ISSN(P): 2249-6831; ISSN(E): 2249-7943 Vol. 4, Issue 5, Oct 2014, pp. 107-116. 3. Kapadia Gayatri S., Morena Rustom D., "Comparative Study of Role Based Access Control in Cloud Databases and NoSQL Databases" published in International Journal of Advanced Research in Computer Science (IJARCS), ISSN: 0976-5697; Vol. 8 Issue 5, May-June 2017, pp. 51-57. 4. Jayana Ahuja, Gayatri Kapadia, "Analytical Study and Evaluation of Database Optimization Techniques", published in International Journal of Recent and Innovation Trends in Computing and Communication (IJRITCC) Volume 5, Issue 6, June 2017. 5. Gayatri S. Kapadia, Dr. R. D. Morena, "An innovative Term Weighting method for Indexing in Elasticsearch Document Retrieval", International Journal of Research in Electronics and Computer Engineering (IJRECE) Vol. 6 Issue 4 October-December, 2018. ISSN: 2348-2281 (Online) ISSN: 2393-9028 (Print)		

No. of Books published with details	No. of Books published	0
	Details of Books	NIL

Name of the Teaching Staff	Prof. Kaushika Pal			
Date of Birth	20-April-1980			
Unique id	1-462547093			
Education Qualifications	Bsc Mathematics, MCA			
Work Experience (in years)	Teaching	Research	Industry	others
	13 years 7 months	0	0	0
Area of Specialization	Machine Learning, Software Testing, Database technologies, cloud Computing			
Courses taught at	Diploma Level	Not Applicable		
	Post Diploma Level	Not Applicable		

	Under Graduate Level	Not Applicable
	Post Graduate Level	MCA
	Post Graduate Diploma Level	Not Applicable
Research guidance	No. of papers published in National/International Journals/Conferences	0
	Master	0
	Ph.D.	0
Projects Carried out	NIL	
Patents	NIL	
Technology Transfer	NIL	
Research Publications	1. Presented Paper at National Conference on Technology Driven Society titled as "Student Attendance System using Fingerprint recognition Technique", published in Proceeding of conference ISSN: 978-93-81248-00-3 PP. 237-241 February 2011 2. Published paper in International Journal of Education Administration titled as "Total Quality Management in Education and Information Technology", ISSN :- 0976 - 5883, pp. 9 -18, Volume 3 Number 1, February 2011 3. Presented paper at National Conference on Emerging Trends in Information &. Communication Technology, and published in International Journal of Advanced Networking Applications (IJANA) titled as "A Study of Current State of Work and Challenges in Mining Big Data", ISSN No. : 0975-0290 PP 73-76, November 2014 4. Published Paper in International Journal of Scientific Research in Science and Technology titled as " A Study of Current State of work done for classification in Indian Languages", Print ISSN: 2395-6011 Online ISSN: 2395-602X, , Vol.3 Issue 7, PP. September 2017	
No. of Books published with details	No. of Books published	0
	Details of Books	NIL

Name of the Teaching Staff	Prof. Prashant Keswani		
Date of Birth	30-Jan-1978		
Unique id	1-800497739		

Education Qualifications	MCA, BSc Maths			
Work Experience (in years)	Teaching	Research	Industry	others
	7	0	10	0

Area of Specialization	Object Oriented Programming	

Courses taught at	Diploma Level	Not Applicable
	Post Diploma Level	Not Applicable
	Under Graduate Level	Not Applicable
	Post Graduate Level	MCA
	Post Graduate Diploma Level	Not Applicable

Research guidance	No. of papers published in National/International Journals/Conferences	0
	Master	0
	Ph.D.	0

Projects Carried out	0

Patents	0

Technology Transfer	0

Research Publications	• Paper on "Review Analysis of Automated Mobile Application Testing" published in International Journal on Recent and Innovation Trends in Computing and Communication having ISSN: 2321-8169

No. of Books published with details	No. of Books published	0
	Details of Books	NIL

Name of the Teaching Staff	Prof. Alpa Shah			
Date of Birth	17-Jun-1982			
Unique id	1-772886036			
Education Qualifications	M.C.A., B.C.A.			
Work Experience (in years)	Teaching	Research	Industry	others
	8	0	0.5	0

Area of Specialization	Data Mining, Data Structures, Web Technologies	
Courses taught at	Diploma Level	Not Applicable
	Post Diploma Level	Not Applicable
	Under Graduate Level	Not Applicable
	Post Graduate Level	MCA
	Post Graduate Diploma Level	Not Applicable
Research guidance	No. of papers published in National/International Journals/Conferences	0
	Master	0
	Ph.D.	0
Projects Carried out	0	
Patents	0	
Technology Transfer	0	
Research Publications	**List of Journal Publications** 1. Alpa Shah and Ravi Gulati (2016), "Privacy Preserving Data Mining: Techniques, Classification and Implications - A Survey", International Journal of Computer Applications, Vol 137, No 12, March 2016, pp 40-46, Published by Foundation of Computer Science (FCS), NY, USA. DOI: 10.5120/ijca2016909006 2. A. Shah and R. Gulati (2015), "Privacy, Collaboration and Security - Imperative Existence in Data Mining" July 2015, V.N.S.G.U. Journal of Science and Technology, Vol 4, No 1, July 2015, pp 44-49 3. Alpa Shah (2012), "State-of-art in Statistical Anonymization Techniques for Privacy Preserving Data Mining" International Journal of Computer Science & Engineering Technology (IJCSET) ISSN 2229-3345 Vol. 3 No. 7 July 2012.pg 258-262 4. Alpa Shah (2012), "A Survey on Cryptographic Techniques for Privacy Preserving Data Mining" 2012 IFRSA International Journal of Data Warehousing & Mining (IIJDWM) ISSN 2249 –2186 Vol 2 Issue1 Feb 2012 Pg 8-12 **List of Conference Proceedings** 1. Shah A. K., Gulati R. (2018) "Himod-Pert: Histogram Modification Based Perturbation Approach for Privacy Preserving Data Mining" In: Patel Z., Gupta S. (eds) Future Internet Technologies and Trends. ICFITT 2017. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, Vol 220. pp-28-36, Springer, Cham 2. A. Shah and R. Gulati (2016), "Evaluating Applicability of Perturbation Techniques For Privacy Preserving Data Mining By Descriptive Statistics" International Conference on Advances in Computing, Communications and Informatics (ICACCI), Jaipur, 2016, pp. 607-613.DOI: 10.1109/ICACCI.2016.7732113.URL:	

http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7732113
&isnumber=7732013

3. A. Shah and R. Gulati (2015), "Privacy-Leveled Perturbation Model for Privacy Preserving Collaborative Data Mining" International Conference on ICT for Sustainable Development (ICT4SD 2015), Advances in Intelligent Systems and Computing, pp. 233-240. DOI:10.1007/978-981-10-0135-2_22   URL: https://www.springer.com/in/book/9789811001338

4. A. Shah and R. Gulati (2015), "Contemporary Trends in Privacy Preserving Collaborative Data Mining- A Survey" International Conference on Electrical, Electronics, Signals, Communication and Optimization (EESCO), Visakhapatnam, 2015, pp. 1-4.   DOI: 10.1109/EESCO.2015.7254044   URL: http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7254044
&isnumber=7253613

5. Alpa Shah (2014), "Applications of Anonymization Techniques for Privacy Preserving in E-Governance" International Conference of Corporate Governance (ICGS 2014) Ahmedabad. Conference Proceedings published in "Corporate Governance: Contemporary Issues & Challenges in Indian Economic Environment" (ISBN: 978-93-5122-000-8) , Pg 362-368

| No. of Books published with details | No. of Books published | 0 |
| | Details of Books | NIL |

Name of the Teaching Staff	Prof. Sapana Desai

Date of Birth	01-May-1981

Unique id	1-1507022880

Education Qualifications	MCA, BSc (Chemistry)

Work Experience (in years)	Teaching	Research	Industry	others
	11 Years	0	0	0

Area of Specialization	Networking, Software Testing

Courses taught at	Diploma Level	Not Applicable
	Post Diploma Level	Not Applicable
	Under Graduate Level	Not Applicable
	Post Graduate Level	MCA
	Post Graduate Diploma Level	Not Applicable

Research guidance	No. of papers published in National/International Journals/Conferences	0
	Master	0
	Ph.D.	0
Projects Carried out	0	
Patents	0	
Technology Transfer	0	
Research Publications	Paper on "Review Analysis of Automated Mobile Application Testing" published in International Journal on Recent and Innovation Trends in Computing and Communication having ISSN: 2321-8169	
No. of Books published with details	No. of Books published	0
	Details of Books	0

Name of the Teaching Staff	Prof. Rashmi Chouhan			
Date of Birth	14-April-1987			
Unique id	1-2685321724			
Education Qualifications	BCA, MCA			
Work Experience (in years)	Teaching	Research	Industry	others
	6 years 7 months	0	1	0
Area of Specialization	Computer Science			
Courses taught at	Diploma Level	Not Applicable		
	Post Diploma Level	Not Applicable		
	Under Graduate Level	Not Applicable		
	Post Graduate Level	Yes		
	Post Graduate Diploma Level	Not Applicable		
Research guidance	No. of papers published in National/International Journals/Conferences	NIL		
	Master	NIL		
	Ph.D.	NIL		

Projects Carried out	NIL
Patents	NIL
Technology Transfer	NIL
Research Publications	*A Preface on Android Malware: Taxonomy, Techniques and Tools*", June 17 Volume 5 Issue 6 , International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), ISSN: 2321-8169, PP: 1111 – 1117

No. of Books published with details	No. of Books published	0
	Details of Books	0

Name of the Teaching Staff	Prof. Zankhana Vaishnav
Date of Birth	13-Dec-1983
Unique id	1-461361643
Education Qualifications	MCA, B. Sc. (Computer Science), (Ph. D. Pursuing)

Work Experience (in years)	Teaching	Research	Industry	others
	9 years	-	-	-

Area of Specialization	Computer Application

Courses taught at	Diploma Level	Not Applicable
	Post Diploma Level	Not Applicable
	Under Graduate Level	Not Applicable
	Post Graduate Level	YES (Master of Computer Application)
	Post Graduate Diploma Level	Not Applicable

Research guidance	No. of papers published in National/International Journals/Conferences	0
	Master	0
	Ph.D.	0

Projects Carried out	0
Patents	0
Technology Transfer	0

Research Publications	"Gujarati Word Sense Disambiguation using Genetic Algorithm", International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), ISSN: 2321-8169, 635 – 639 http://www.ijritcc.org/download/browse/Volume_5_Issues/June_17_Volume_5_Issue_6/1498032217_21-06-2017.pdf	
No. of Books published with details	No. of Books published	0
	Details of Books	0

Name of the Teaching Staff	Prof. Jayana Ahuja

Date of Birth	05-January-1984

Unique id	1-3266357960

Education Qualifications	B.SC(Maths) , Master of Computer Application

Work Experience (in years)	Teaching	Research	Industry	others
	5Years, 7Months	0	4	0

Area of Specialization	Database Management System , ERP System , Numerical Methods , Operating System

Courses taught at	Diploma Level	Not Applicable
	Post Diploma Level	Not Applicable
	Under Graduate Level	Not Applicable
	Post Graduate Level	Yes(Master of Computer Application)
	Post Graduate Diploma Level	Not Applicable

Research guidance	No. of papers published in National/International Journals/Conferences	NIL
	Master	NIL
	Ph.D.	NIL

Projects Carried out	NIL

Patents	NIL

Technology Transfer	NIL

Research Publications	"A Comparative Analysis on ERP Systems: On-Premise Vs On-Cloud," 10-11,May-2016 , National Conference on Recent Trends in

Computer and Communication Technology (RTCCT 2016) ISBN: 978-93-5258-824-4

"Analyatical Study and Evaluation of Database Optimization Techniques", June 17 Volume 5 Issue 6 , International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), ISSN: 2321-8169, PP: 1271 – 1274

No. of Books published with details	No. of Books published	0
	Details of Books	NIL

Name of the Teaching Staff	Prof. Manpreet Kaur

Date of Birth	11-April-1987

Unique id	1-2340764144

Education Qualifications	B.Sc. (IT), PGDCA, Master of Computer Application

Work Experience (in years)	Teaching	Research	Industry	others
	4 Years, 10 Months	0	11 Months	0

Area of Specialization	Computer Application

Courses taught at	Diploma Level	Not Applicable
	Post Diploma Level	Not Applicable
	Under Graduate Level	Not Applicable
	Post Graduate Level	Yes (Master of Computer Application)
	Post Graduate Diploma Level	Not Applicable

Research guidance	No. of papers published in National/International Journals/Conferences	Nil
	Master	Nil
	Ph.D.	Nil

Projects Carried out	Nil

Patents	Nil

Technology Transfer	Nil

Research Publications	1. A Novel Framework for Big Data Security Infrastructure Components, June 17 Volume 5 Issue 6 , International Journal

	on Recent and Innovation Trends in Computing and Communication (IJRITCC), ISSN:ISSN: 2321-8169, Page No.: 1083 – 1088 2. Challenges and Security Threats in Mobiles and Cloud Computing: A Preface, National Conference on Recent Trends in Computer and Communication Technology (RTCCT 2016), 10-11,May-2016	
No. of Books published with details	No. of Books published	0
	Details of Books	Nil

9. Fee

Details of fee, as approved by State Fee Committee, for the Institution	As per ANNEXURE – 9 BE – 118000 ME – 142000 MCA – 86000
Time schedule for payment of fee for the entire programme	ODD SEM – JULY TO AUGUST EVEN SEM – DECEMBER TO JANUARY
No. of Fee waivers granted with amount and name of students	Total No of students 05 total Rs. 1,05,000/- Mr. Harsh khabhata First year IT Branch Rs. 40,000 Mr. Adit Gandhi Third year IC Branch RS. 25,000 Ms. Hetasvi Patel Fourth year EC Branch Rs. 10,000 Mr. Jay Prajapati Third Year Civil Branch Rs. 10,000 Mr. Abhay Rangoonwala Third Year Civil Branch Rs. 20,000
Number of scholarship offered by the Institution, duration and amount	SHARE & CARE LOAN SCHOLARSHIP NO OF STUDENTS – 03 AMT RS. 2,83,000
Criteria for fee waivers/scholarship	DONOR'S FREESHIP
Estimated cost of Boarding and Lodging in Hostels	Rs. 60,000 per year

10. Admission

Number of seats sanctioned with the year of approval	As per ANNEXURE – 10
Number of Students admitted under various categories each year in the last three years	As per ANNEXURE – 11
Number of applications received during last two years for admission under Management Quota and number admitted	As per guidelines of Admission committee for Professional Courses (ACPC).

11. Admission Procedure

Mention the admission test being followed, name and address of the Test Agency and its URL (website)	As per guidelines of Admission committee for Professional Courses (ACPC).	
Number of seats allotted to different Test Qualified candidate separately (AIEEE/ CET (State conducted test/ University tests/ CMAT/ GPAT)/ Association conducted test)	As per guidelines of Admission committee for Professional Courses (ACPC).	
Calendar for admission against Management/vacant seats:	Last date of request for applications	As per guidelines of Admission committee for Professional Courses (ACPC).
	Last date of submission of applications	
	Dates for announcing final results	
	Release of admission list (main list and waiting list shall be announced on the same day)	
	Date for acceptance by the candidate (time given shall in no case be less than 15 days)	
	Last date for closing of admission	
	Starting of the Academic session	
	The waiting list shall be activated only on the expiry of date of main list	
	The policy of refund of the fee, in case of withdrawal, shall be clearly notified	

12. Criteria and Weightages for Admission

Describe each criterian with its respective weightages i.e. Admission Test, marks in qualifying examination etc.	As per guidelines of Admission committee for Professional Courses (ACPC).
Mention the minimum level of acceptance, if any	
Mention the cut-off levels of percentage and percentile score of the candidates in the admission test for the last three years	
Display marks scored in Test etc. and in aggregate for all candidates who were admitted	

13.　List of Applicants

List of candidate whose applications have been received along with percentile/percentage score for each of the qualifying examination in separate categories for open seats. List of candidate who have applied along with percentage and percentile score for Management quota seats	As per guidelines of Admission committee for Professional Courses (ACPC).

14.　Results of Admission Under Management seats/Vacant seats

Composition of selection team for admission under Management Quota with the brief profile of members (This information be made available in the public domain after the admission process is over)	As per guidelines of Admission committee for Professional Courses (ACPC).
Score of the individual candidate admitted arranged in order or merit	
List of candidate who have been offered admission	
Waiting list of the candidate in order of merit to be operative from the last date of joining of the first list candidate	
List of the candidate who joined within the date, vacancy position in each category before operation of waiting list	

15.　Information of Infrastructure and Other Resources Available

Information of Infrastructure and Other Resources Available

Number of Class Rooms and size of each	Sr. No.	Room No.	Size (Sq. Mt.)
	1	C201	87.88
	2	C202	89.91
	3	C203	87.88
	4	C204	75.13
	5	C205 ~ PG	43.51
	6	C301	88.46
	7	C302	91.99
	8	C303	88.46
	9	C304	73.53
	10	C305 ~ PG	43.51
	11	E106 ~ PG	58.04
	12	E201	88.78
	13	E202	88.1
	14	E203	88.78
	15	E204	62.41
	16	F106 ~ PG	58.04
	17	F201	88.78
	18	F202	88.1
	19	F203	88.78

	20	F204	62.41
	21	G104	62.41
	22	G201	88.78
	23	G202	88.1
	24	G203	88.78
	25	G204	62.41
	26	J201	88.78
	27	J202	88.1
	28	J203	88.78
	29	J204	62.41
	30	K201	88.78
	31	K202	88.1
	32	K203	88.78
	33	K204	66.41
	34	L103	62.1
	35	L104	51.94
	36	L105	48.37
	37	L106	58.04
	38	L203	88.78
	39	L204	62.41
	40	T101 ~ PG	35
	41	T102-PG	54
	42	T103-PG	30
	43	T104-PG	30
	44	T105-PG	56.12
	45	T106A-PG	30
	46	T106B-PG	30
	47	T301-PG	43.82
	48	L201~MCA	88.78
	49	L202~MCA	88.1
	50	K106~MCA	58.04
Number of Tutorial rooms and size of each	Sr. No.	Room No.	Size (Sq. Mt.)
	1	D301A	30.5
	2	F105	58.04
	3	TU02	40.89
	4	TU03	40.89
	5	TU101	83.18
	6	TU102	83.18
	7	TU103	94.05
	8	L102 ~ MCA	48.56
Number of Laboratories and size of each	Sr. No.	Room No.	Size (Sq. Mt.)
	1	A204A	69
	2	A204B	69
	3	C01	84.58
	4	C02	94.21
	5	C03	73.94
	6	C04	47.09
	7	C05	73.43
	8	C06	73.43
	9	C102AP	62.17
	10	C102AU	62.17
	11	C102B	51.75
	12	C102C	10.93
	13	C102D	11.17
	14	C102E	112.51

	15	C104P – PG	75.13
	16	C104U	75.13
	17	C105P – PG	69.93
	18	C105U	69.93
	19	C106P – PG	56.26
	20	C106U	56.26
	21	C306 – PG	43.51
	22	E01	85.46
	23	E02	92.87
	24	E03	92.61
	25	E04	92.87
	26	E05	92.87
	27	E101P – PG	88.54
	28	E101U	88.54
	29	E103	113.67
	30	E104 ~ PG	62.41
	31	F01	92.87
	32	F02	61.62
	33	F03P – PG	80.34
	34	F03U	80.34
	35	F04	61.15
	36	F05	92.87
	37	F06P – PG	61.62
	38	F06U	61.62
	39	F104 ~ PG	62.41
	40	G01	81.05
	41	G02	92.63
	42	G03	85.46
	43	G04	60.41
	44	G05A	60.41
	45	G05B	61.03
	46	G101	113.67
	47	G105	58.04
	48	G106U	58.04
	49	H101A	92.34
	50	H101B	116.68
	51	H201U	93.92
	52	J01	92.87
	53	J02	93.42
	54	J03	61.15
	55	J04	92.87
	56	J05	92.63
	57	J103	113.67
	58	J104	61.62
	59	K01	92.63
	60	K02	92.47
	61	K03	186.91
	62	K04	92.47
	63	K102	112.5
	64	L01	44.49
	65	L02	186.83
	66	L03	147.82
	67	L04	118.68
	68	L108	58.04
	69	T201	38.54
	70	T203 – PG	58
	71	T203A	98.22

	72	T204	86.45
	73	T205A - PG	100
	74	T205B	100
Number of Drawing Halls with capacity of each	Sr. No.	Room No.	Size (Sq. Mt.)
	1	K101	113.61
	2	K103	112.5
Number of Computer Centres with capacity of each	Sr. No.	Room No.	Size
	1	C102A	62.17
	2	C102B	51.75
	3	C102C	10.93
	4	C102D	11.17
	5	C102E	112.51
Central Examination Facility, Number of rooms and capacity of each	Sr. No.	Room No.	Size (Sq. Mt.)
	01	GTU	21.5
	02	GTU	9.75
Barrier Free Built Environment for disabled and elderly persons	The Building has the Lift and Ramps. Also, wheel chair is available for transit in campus. All wings of building are connected by corridors.		
Occupancy Certificate	S. W. Zone / Out 7238 dated 17/10/2003 – As per ANNEXURE – 12		
Fire and Safety Certificate	FES / NOC / Outward / No. 1492 – As per ANNEXURE –13		
Hostel Facilities	Boys Hostel: Capacity – 240 Nos. (Area = 6894.50 Sq. Mt.)		
	Girls Hostel: Capacity – 106 Nos. (Area = 477.39 Sq. Mt.)		

Library

Number of Library books/Titles/ Journals available (program-wise)	Civil	Number of Library books	3795
		Number of Titles	502
		Number of Journals	06
	Chemical	Number of Library books	6378
		Number of Titles	2380
		Number of Journals	06
	Computer	Number of Library books	6505
		Number of Titles	2345
		Number of Journals	5
	Electrical	Number of Library books	6753
		Number of Titles	1550
		Number of Journals	9
	Electronics & Comm.	Number of Library books	6136
		Number of Titles	2835
		Number of Journals	6
	Instrumentation & Control	Number of Library books	3879
		Number of Titles	1102
		Number of Journals	6
	Information Tech.	Number of Library books	5012
		Number of Titles	2002
		Number of Journals	6
	Textile Tech.	Number of Library books	3375

		Number of Titles	965
		Number of Journals	7
	MCA	Number of Library books	4506
		Number of Titles	453
		Number of Journals	10
	Electrical (PG)	Number of Library books	902
		Number of Titles	402
		Number of Journals	6
	Electronics & Comm. (PG)	Number of Library books	903
		Number of Titles	404
		Number of Journals	5
	Civil (PG) Environmental	Number of Library books	803
		Number of Titles	258
		Number of Journals	6
	Computer (PG)	Number of Library books	704
		Number of Titles	254
		Number of Journals	6
	Civil (PG) Town& Planning	Number of Library books	725
		Number of Titles	307
		Number of Journals	6
	Civil (PG) Structure	Number of Library books	4
		Number of Titles	2
		Number of Journals	5
List of online National/ International Journals subscribed	1. ASCE 2. SPRINGER 3. J –GATE 4. SCIENCE DIRECT(Engineering + Computer Science) 5. SCIENCE DIRECT(CHEMICAL ENGINEERING) 6. McGraw Hill 7. ASTM DIGITAL LIBRARY		
E- Library facilities	NPTEL Courses		

Laboratory and Workshop

Applied Science and Humanities

List of Major Equipment/Facilities in each Laboratory/Workshop	**Physical Chemistry:** Spectrophotometer, Potentiometer, Conductivity Meter, pH Meter, Polarography, Refractometer, Colorimeter, TDS Meter. **Organic/Inorganic Chemistry:** Stirrer, Hotplate, Oven **Physics lab:** He-Ne Lasers, Travelling Microscopes, Spectrometers and Optical bench, CRO and Regulated power supplies, Sonometer, Optical Fiber communication training kit, Four probe methods set up, Half wave / Full wave rectifier kit. **Language Lab :** Computer System- 36, New 16, Old- 20
List of Experimental Setup in each Laboratory/Workshop	As per ANNEXURE – 14

Chemical Engineering

Name of Laboratory	List of Equipments
Fluid Flow Operation	Reynolds Apparatus
	Bernoulli's Theorem Apparatus
	Orifice meter Assembly
	Packed Bed Assembly
	V-Notch Assembly
	Centrifugal Pump Assembly
	Venturimeter & Rotameter Apparatus
	Fluidization Bed Apparatus
	Free forced vortices apparatus
Mechanical Operation	AIMIL make Sieve shaker for sieve analysis
	Cyclone Separator
	Pulverizer
	AIMIL make Jaw Crusher
	Ball Mill
	REMI Basket Centrifuge
	Gyatory make Sieve Shaker
	Roll Crusher
	Rotary Vacuum Filteration unit
	Forth Floatation Unit
Process Heat Transfer	Composite Walls Apparatus
	Lagged Pipe Apparatus
	Critical Heat Flux Apparatus
	Emmisivity Measurement Apparatus
	Heat Transfer In Natural Convection Apparatus
	Unsteady State Conduction Apparatus
	Shell & Tube Heat Exchanger
	Assembly to Study Heat Transfer In Agitated Vessel
	Plate type Heat Exchanger
	Drop wise condensation unit
Chemical Process Industries I & II, Petro. Refining & Petro. Processes (PRPC)	Penetrometer
	Carbon Residue Apparatus
	Drop Point Apparatus
	Pensky Marten's Flash And Fire Point Apparatus
	Cloud & Pour Point Apparatus
	Ring And Ball Apparatus
	Orsat Apparatus For Gas Analysis
	Bomb Calorimeter
	ASTM Distillation Apparatus
	Reid Vapor Pressure Test apparatus
	Polarimeter
Mass Transfer Operation Lab. I & II	Air Oven Drying Unit
	Diffusion through Moving Air Unit
	Assembly to Study Absorption With Chemical Reaction
	Assembly To Study Liquid – Liquid Extraction
	Assembly to Study Vapor – Liquid Equilibrium
	Assembly To Study Adsorption In Packed Bed
	Fractionation & Rectification Columns (Sieve plate)
	Soxhelet Extractor
	Forced Draught Cooling tower
Chemical Reaction Engg. I & II	RTD in Single Stirred Tank Reactor
Instrumentation & Process Control	Single Limb Mercury Manometer Along With Mercury And Selfstand
	Flow Measurement System

	Muffle Furnace -02 nos.
	Infrared thermometer
	Pitot Tube
	Assembly for level measurement using capacitive sensor
	Mixing Process Assembly For First Order System
	Interacting System Assembly For Second Order System
Safety & Waste Management	Colorimeter (Microprocessor based)
	COD Digestor With 15 Reaction Bottle And Air Condensers
	Digital Turbidity meter
	Digital Conductivity meter
	pH meter With Electrodes And All Standard Accessories
	Hot Air Oven
	BOD Incubator With Stabilizer
	High Volume Respirable Dust Sampler, Air Sampler For Gaseous Sampling – 02nos.
	BPL Refrigerator (185 lit)
	Electronic Weighing Scale
	Fully Automatic Microprocessor Based Stack Monitoring System – 02 nos.
	Sound Level Meter
	Microprocessor Based Scanning visible Spectrophotometer
	Water Quality Analyzer
	Yash make Respirable Dust sampler & StacK Monitoring kit
	Yash PM 2.5 Respirable dust sampler
	CAS make Electronic weighing scale (0.01/0.1mg)
	Vayubodhan make Stack Handy Sampler
CAD in Chemical Engg. (CAD, PMSO)	Aspen Plus licence software
	ChemCAD 4 + ChemCAD Therm 10 User Network Version
	Lenovo make Pentium Duel core Desktop Computers
	HCL make note book (Laptop)
	ACER make Note Book (Laptop)
	HCL & Acer make Desktop computers
	HCL make entry class server
	Desktop Hp Computers -10nos.
Advanced Separation Techniques	Pilot plant Membrane separation Techniques (Reverse Osmosis)
R & D Lab.	AutoClave Vertical type 22lt. Capacity
	REMI make Centrifuge
	High pressure Autoclave Reactor stirred 250ml

Civil Engineering

List of Major Equipment/Facilities in each Laboratory/Workshop	1. Strength of Materials Lab.
	    a. Universal testing Machine.
	    b. Compression testing Machine
	    c. Brinell cum Hardness tester
	    d. Torsion Testing Machine

	2. Geo Tech Engineering Lab
	    a. Compaction Test Apparatus
	    b. Sample Extractor (Hand Operator)
	    c. Direct Shear Apparatus
	    d. Unconfined & Confined Compression Testing Machine

	3. Concrete Technology Lab.
	    a. Coarse Sieve
	    b. Pycnometer
	    c. Slump Test Apparatus
	    d. Vee Bee Consistometer

	e. Cube Mould
	f. Concrete Mixture Machine
	g. UPV Testing Machine
	h. Rebound Hammer
	i. Vibration Machine
	j. Fine Sieve Set

	4. Mechanics Of Solids Lab.
	    a. Universal force table
	    b. Parallel force apparatus
	    c. Young modulus apparatus
	    d. Flywheel apparatus

	5. ECE / Surveying / Advance Surveying Lab.
	    a. Quick set Dumpy level
	    b. Auto level
	    c. Transit Varnier Theodolite
	    d. Folding Levelling Staff 4 meter
	    e. Wooden Staff
	    f. Prismatic Compass
	    g. Metalic chain
	    h. Plane Table
	    i. Clinometer
	    j. Theodolite
	    k. Planimeter
	    l. Automatic Level
	    m. GPS Receiver
	    n. Total Station

	6. Highway Engineering Lab.
	    a. Laboratory C.B.R. Apparatus.
	    b. Aggregate Impact tester
	    c. Los Angeles Abrasion Testing Machine
	    d. Marshal Stability Testing Apparatus
	    e. Specific Gravity Apparatus
	    f. Ductility Machine

	7. Computer Lab
	    a. 30-Desk top Computers
	    b. 1-Server,
	    c. Software-City Engine Window, Midas Gen, E tabs, SAP2000, Bently Select Academic, IBM SPSS, RCDC.

Computer Engineering

Name of Laboratory	List of Equipments
Lab - CO-Ph-I	Lenovo (core i3, 4 GB, 500 GB Hdd) : 18, Acer AIO (core i5, 8 GB, 500 Hdd) : 10, ACER (core i5, 8 GB, 500 GB Hdd) : 2, HCL (core i3, 3 GB, 320 GB Hdd) : 5 Total Desktop :- 35
Lab - CO-Ph-II	ACER (core i5, 8 GB, 500 GB Hdd) : 17, HP (core i5, 8 GB, 500 GB Hdd) : 17, HCL (core i3, 3 GB, 320 GB Hdd) : 3 Total Desktop :- 37
Lab - CO-Ph-III	ACER (core i3, 4 GB, 500 GB Hdd), lenovo (dual core,160 GB HDD,1GB RAM) : 1 Total Desktop :- 38
Lab - CO-Ph-IV	HCL (core i3, 3 GB, 320 GB Hdd) Total Desktop :- 37
Lab - Research Lab	HP (core i5, 8 GB, 500 GB): 30, Lenovo (core i3, 4 GB, 500 GB): 1, lenovo (dual core,160 GB HDD,1GB RAM) : 1Total Desktop :- 32
Hardware Lab	"Dynalog" make 8085 based microprocessor-7, "Hal-Tech Plus" make digital IC Trainer-9
List of Experimental Setup in each Laboratory/Workshop	
Lab - CO-Ph-I	CPU, DS, AAD, DM, PROJECT

Lab - CO-Ph-II	DBMS, JAVA, SP, DM
Lab - CO-Ph-III	CPU, DS, WC, MCWC, IS, SP
Lab - CO-Ph-IV	DS, WC, NM, CD, CS, IS, PROJECT
Lab - Research Lab	RS, IP, CC, AI, CA, SP, CD, IS
Hardware Lab	DE, MI

Electrical Engineering

List of Major Equipment/Facilities in each Laboratory/Workshop	
PG RESEARCH LAB	Tektronix make DSO with 4 isolated channel (TPS 2014) Tektronix make DSO with 2 channel (TDS 2002), Tektronix make Current Prob, Power measurement Application package, High Voltage differential probe. Semikron make IGBT based 3 phase Inverters with driver & protection 25 KVA Power Electronics Kit. VI Micro make Brushless DC motor along with Power module & DSP Controller kit.VI Micro make 3 Phase multilevel Inverter. VI Micro make 3 phase Matrix Converter. VI Micro make PMSM motor along with Power module and DSP Controller. VI Micro make FPGA based MOSFET Forward Converter, Buck - Boost Converter, Fly Back Converter. DSP kit model: DSK TMS320/TMS320F28335, JTAG Emulator for 28335, Three phase Brushless DC Motor. NITECH make Advance 8051 Microcontroller kit, Advance ARM Microcontroller trainer kit. TATA BP Solar make PV Panels, Micro/SMD/SMT/ soldering Rework station.National make ARM Controller 32 bit based on STM32F407VGT6ARM Cortex M4 processor, PMSM motor, Series Resonant DC-DC Converter, Static Var - Thyristor controlled series capacitor, TMS 320F2812 based signal conditioner module, DSPACE(ACE1104-CLP_USB) Advance control Education kit-1104, Edutech make PWM Isolator Kit, LEM Current Transducer, LEM Voltage Transducer, ACE_MLBX_1302T Advance control kit Micro Lab Box DS1202, Three Phase Power Analyzer(435-II) FLUKE make, DELTA make Programmable DC Power supply, Fuel Cell FCS-C100W.
PROJECT LAB	Testronix make Power supply. SCIENTIFIC make 30 MHZ Dual Trace Oscilloscope & 3 MHZ Function Generator - Hemang make DSO and Micro controller based analog CRO. Adtron make component development Trainer kit, IC tester, Edutech make DSP Kit. Stepper Motor. AC Servo motor. DC servo motor. DC tachogenerator. Kusam meco make digital Power meter Energy Analyser & demand controller with software. DMM & Calmp on meter. Scientific make LCR- Q meter & Oscilloscope. YAKOGOWA make digital power meter. SIEMENS make SIMATC S7 200 base PLC system. TATA BP Solar make Photovoltaic module. Testronix make Oscilloscope model TDS2002B & TDS2004B, Testronix make AC/DC Current Probe. Edutech make DSP Trainer

	Kit Model: TMS320F2812EPB-21812 with ASK 21 General Purpose Board.
MICROPROCESSOR LAB	Dynalog make 8085,8086 project development kits, ADC/DAC card, stepper motor control board with stepper motor, SPIC make ADC/DAC card, RTC / EPROM card. 8051 Microcontroller Trainer Kit. 3 Phase Inverter card, H-Bridge driver card, Thyristor firing card. Advance 8051 Microcontroller trainer kit. 20 Mhz 2 mv dual trace Oscilloscope. DMS Universal EPROM Programmer & Eraser, 32 bit ARM MicroController Trainer kit. Single board Computer / Evolution board for PHILIPS LPC 214X series. Model: ESA KEIL MCB 2140.PIC , 16F876base Micro controller trainer , Model: ESA-SAR-PIC 02, RS-485, RS-232C full duplex Converter. KEIL- PK-51-ED Software(51 Professional development kit, Version 8.0 Educational Licence.C Compiler for 89C61 ARM Microcontroller. PIICEnterprise Software : Hi-Tech C Cross compiler For Micro chip PIC Micro Enterprise packages. Software: KEIL MDK-ARM-ED Real view microcontroller Development kit Education licence. Universal programmer Make: VPL Madel: UPROG-VX. Edutech make DSP kit Educational Practice board for TMS320F28335, ASK08Basic Input/Output Module, JTAG Emulatorfor T12000 platform compitible DSP kit. National make STM ARM CORTEX M4 32 bit Microcontroller kit. Nitech make 3 phase IGBT Card. NITECH make three phase Hall effect Voltage sensor card. Nitech make 3 phase IGBT Card. NITECH make three phase Hall effect Current sensor card.
UG COMPUTER LAB	MATLAB software with accessory compiler simulink etc. - Desktop- computers with server - Laptops Brother make Laser jet Printer 3 in1, Segate Make Internal Hard disk 320GB Tamkor make DDR-II RAM 1GB
POWER ELECTRONICS LAB	Anshuman make Semicoductor & Power Semiconductor Device , application panel, Coverter/ Inverter panel. Omega make study of SCR Charactoristic, traac Characteristic , MOSFET Charactoristic, SCR & AC phase control. Triac & AC phase control Kit.Oscilloscope . Anshuman make 3 phase Thyrist Control electronics Trainer. Hem make Set up chopper, Chopper circuit using power MOSFET, D.C.Drive Trainer using Dual Converter, 3 phase Induction motor Controlles using V/F scheme,Different type of Studying characterstic of different types of power semi conductor devices like SCR, TRIAC, DIAC, MOSFET, IGBT, Etc., Three Phase rectifier Trainer , Chopper Trainer, Three phase inverter trainer, Three phase high voltage Thyrister control trainer
ELECTRO TECHNIQUE LAB	Rectifire-50Amp.,Rheostate, Single & Three Phase Chock Coil, Capacitors, Various ranges of Watt meters (UPF & LPF) , Digital Multi Meters , Various ranges of AC / DC Volt Meter & Ammeters Meters, etc Single & Three Phase

	Load Trolley, Various ranges of Watt meters (UPF & LPF) , Digital Multi Meters , Various ranges of AC / DC Volt Meter & Ammeters Meters, Dc Regulated Power supply etc.
ELECTRICAL MEASUREMENT LAB	Level measurement using Air Purge system Data Acquisition demonstrator Vaiseshika make Kelvin cum Wheatstone bridge Vaiseshika make High Amp range DC source Vaiseshika make DC Potentiometer Standard Cells Strain guage kit Temperature Measurement kit Zaran make Current Transformer Test Set Capacitive Transducer Kit (Digital) ADTRON " Make Wein Bridge Trainer Kit Hi- Po " make Potential Transformer Hay's Bridge CRO, Meters, Power supply, DSO Scientific make Osci LCR meter Digital Multimeter DC Regulated Power supply Decade Resistance box Decade Condenser Box Variable self Inductor
CONTROL SYSTEM LAB	Magnetic Amplifier kit, Analog Simulation to study Effect of Compensation, Study of synchro devices, Stepper motor study, AC servo motor study, DC Position control, DC motor study, process control Simulator study,Study of first & second order system, Potentiometer error detector, Digital multimeters.
POWER SYSTEM PROTECTION LAB	Alsthom Over-current relay, Solid state over current relay, IDMT relay, Earth fault relay, Differential relay, & ABB make single pole Instantaneous under voltage relay, Instantaneous Over current relay Different types of Protective Relays - Meco V make Current transformers & Telemecanique make contactor. Rheostates of different ranges. BENN make Induction motor Coupled with Alternator. AE make 3 phase Air-cooled double wound transformer. Premier make Relay testing kit. Premier make Current transformer testing kit, Making Earth Pit, L & T Make 800 Amp. Air Circuit Breaker Numerical Feeder Protection Relay Testing Set Numerical Motor Protection Relay Testing set Differential Percentage Biased Relay testing Kit with Electromech make differential Relay
ELECTRICAL MACHINE LAB	Three Phase Induction Motor , Single Phase Induction Motor , Various A.C. / D.C. Motor –Generator Set , Various A.C / D.C. Motor with Mechanical Loading. Single Phase /Three Phase Transformer, ARM CORTEX M4 32 bit Microcontroller kit, 5 KVA Three phase rectifier and Inverter module with protection, keysight make 4 channel 70 MHz Digital Storage Oscilloscope,

	Digital Multi Meters Various ranges of AC / DC Volt Meter & Ammeters , Rheostats, etc Single & Three Phase Load Trolley, Single & Three Phase Chock Coil, Various ranges of Watt meters (UPF & LPF) , Digital Multi Meters, Techo Meters, Various ranges of AC / DC Volt Meter & Ammeters Meters

HIGH VOLTAGE LAB	AC/DC Test Set
	  -Suitable all interlocking system with indicator to prevent from malfunctioning of equipment.
	 - Provide suitable RMS value measuring meter which can measure I/P voltage, DC voltage, Current readings.
	 - Push button type switches with the indicator for the operation of the equipment.
	 - Corona elimination type metal parts should be used.
	  Anti tracking paint to be used to avoid corona.
	  Supply & Installation of 300 X 300 X 3 mm copper plate type Earthing
	  Insulation Tester

PG COMPUTATION LAB	stability, free programmable blocks,Dynamics stability, voltage instability,Network reduction, Harmonics Analysis,,HP make Laser-jet Printer Model:-LJ1007 D-Link make 24 port network Ethernet switch Model:-DEs1026,HCL Make, Processor Intel core I3 2GB RAM, DDR3 ,Acer Lenovo Laptop -Acer core I7-500U-8GB, DDR3-1, TB-15.6"-DOS,1333MHZ,320GB SATA 7200RPM HDD, DVD-WRIT SATA18.5"HCL LED wide Model:MA350,HCL Make, Processor Intel core I3 2GB RAM, DDR3 1333MHZ,320GB SATA 7200RPM HDD, DVD-WRIT SATA18.5"HCL LED wide Model:MA350. LENOVO Make, Processor Intel core I3 4GB RAM, DDR3 1333MHZ,500GB SATA 7200RPM HDD, DVD-WRIT SATA18.5"lenovo LCD TFT screenwide Model:M72eCU7, PSIM Basic 5 user network Digital Control Module Motor drive Module Simcoupler Module Thermal Module
ELECTRICAL DRIVES LAB	"Keysight " Make Digital Storage Oscilloscope Model : DSO X 2004 A 4 channel 70 Mhz - 01 No. " Ni-Tech " Make Three Phase Induction Motor Drive , Model : NIAD01-01 No. " Ni-Tech " Make Three Phase IGBT Card , Model : NIC 15-03 No. " Ni-Tech " Make Chopper Fed. Separately Excited D.C Drive, Model : NIAD 05-01 No. " Ni-Tech " Make Controlled Rectifier Fed. Separately Excited D.C Drive , Model : NIAD05-01No.
List of Experimental Setup in each Laboratory/Workshop	Electrical Drives Lab: 1) Obtain speed – torque characteristics of DC separately excited motor using MATLAB.(with MATLAB DC motor model).

	2) To Study the Modelling of DC Machine using MATLAB. 3) Two quadrant operation of DC Drive using full Converter using MATLAB. 4) First quadrant operation of DC Drive using semi Converter using MATLAB. 5) 1st and 4th quadrant operation of DC motor drive using chopper. 6) Three phase controlled rectifier fed DC drive. 7) Four quadrant operation of DC motor drive using chopper. 8) Three-phase AC voltage controller fed three-phase induction machine. 9) Open loop v/f control of three-phase induction motor. 10) Close loop control of three-phase induction motor. **Electro technique Lab** 1) To study the Laboratory apparatus. To establish & Verify the relationship when resistances are connected in (a) series combination (b) parallel combination 2) To measure (I) High resistance by using voltmeter & ammeter. (II) Low resistance by using voltmeter & ammeter. 3) To study various wiring schemes. 4) To establish three phase star connection of resistance & to convert it in to equivalent delta connection & vice versa. 5) To find out the power consumed in (a) entire R-L series circuit. (b) in a choke coil (Inductance). 6) To find out power consumed in R-C series circuit. 7) To study the relationship between phase & line quantities of voltage & current for (I) Star connected load, (II) Delta connected load. 8) To measure Active & Reactive powers in 3-phase circuit with balance load. **Microcontroller & Microprocessor Lab:** 1) Study of Block diagram and pin diagram of 8051 Microcontroller. 2) Introduction to KEIL µVISION4 IDE, software development and debugging (simulation) process. Introduction to assembler directives. 3) a) Assembly language programming for block data transfer between internal and external memory including overlapping blocks. b) Occurrence of Washing Machine & TV code from set of data. c) Separation of Odd/Even, +ve/-ve numbers from set of data 4)a) Assembly language programming for addition, b) Assembly language programming for Separating BCD digits of 8-bit binary number.

	c) Assembly language programming for Binary to ASCII conversion. 5) Assembly language programming for Timers in different modes. (a) Blink LED's connected with port-1 using software delay. (b) Blink LED's connected with port-1 using timer-0. (c) Generate square wave using timer in polling mode. (d) Generate square wave using timer interrupt. (e) Emergency Alarming System (Use of Timer and External Interrupt). 6) Introduction to Embedded C programming and I/O port programming in embedded C. (a) Program that makes LED ON when switch-1 is pressed and LED OFF when switch-2 is pressed. (b) Switching Pulse generation for Voltage Source Inverter operating in 120 degree conduction mode. 7) Timers and Counters programming in embedded C for time delay. (a) Program that starts generating square wave when switch-1 is pressed and stop generating square wave when switch-2 is pressed. (b) Frequency Measurement and display. 8.) Programming using 7- segment display in embedded C. 9.) Programming of LCD in embedded C. (a) Display SCET-EED on LCD Display. (b) Update and display Real Time Clock data on LCD display. 10.) Programming of keyboard in embedded C. 11.) Serial communication and UART programming in Embedded C. 12.) Programming of parallel ADC in embedded C. 13.) Programming of parallel DAC in embedded C. **High Voltage Lab:** 1) Testing of Transformer Oil 2) To study Horn Gap Apparatus. 3) To study Corona formation at HVAC transmission line. 4) To perform the breakdown test of different Dielectric material. 5) High Voltage AC generation through cascade connection of transformer. 6) High Voltage DC generation through cascade connection of transformer. 7)To perform (i) High voltage DC Measurement through Resistor Divider (ii) High Voltage Measurement through Capacitor Divider . 8) To determine the breakdown characteristics of air as a dielectric medium, under different types of electrode configurations, such as: (i) Gap between two uniform spherical electrodes. (ii) Gap between two uniform pointed non uniform electrodes 9) To plot equipotential field lines to calculate the capacitance and energy for a given (a) parallel plate and (b) Coaxial cable capacitor model electrode configuration. 10) High voltage DC generation through half wave and full wave rectifier circuit using MATLAB simulink model.

11) High voltage DC generation through voltage doubler circuit using MATLAB simulink model
12) Lightning Impulse voltage generation through single stage circuit using MATLAB simulink model.

Power Electronics Lab:
1) Introduction to SCR characteristics.
a) D.C gate control characteristics.
b) Anode current characteristics.
c) Measurement of holding current and latching current.
2) To study MOSFET characteristics.
3) To study the firing scheme for SCR
a) R-C triggering scheme
b) UJT triggering scheme
3) To study 1Φ (single phase) semi converter and full converter.
a) 1Φ semi converter with R load
b) 1Φ semi converter with R-L load
c) 1Φ semi converter with R-L load and FD
d) 1Φ full converter with R load
e) 1Φ full converter with R-L load
f) 1Φ full converter with R-L load and FD
4) To study TRIAC characteristics.
a) Mode identification of TRIAC.
b) Speed control of fan using TRIAC.
5) To study step down chopper.
6) To study performance of diode and thyristor rectifier using MATLAB simulink
7) To study performance of step down chopper using MATLAB simulink
8) SCR based 1-phase ac voltage controller
9) SCR based 3-phase ac voltage controller (star connected load with neutral)
10) SCR based 3-phase ac voltage controller (star connected load without neutral)
11) SCR based 1-phase cycloconverter
SCR based 3-phase to 1- phase cycloconverter
12) 1-phase bridge inverter with resistive load
13) To simulate the half wave inverter in MATLAB
14) To simulate the full wave inverter in MATLAB
15) To simulate 1-phase ac regulator in MATLAB
16) To simulate 3-phase ac regulator in MATLAB (star connected load with neutral)
17) To simulate 3-phase inverter in 120 degree conduction mode in MATLAB
18) To simulate 3-phase inverter in 180 degree conduction mode in MATLAB

Electrical Machine Lab:
1) Equivalent circuit and circle diagram of 3 – ph. Induction motor
2) Load test on 3-phase induction motor
3) Speed control of 3-phase induction motor
4) Equivalent circuit of single phase induction motor
5) Zero power factor method
6) Synchronous impedance method
7) Measurement of xd and xq
8) 'v' and inverted 'v' curves of synchronous motor
9) To study about the starters of 3-phase induction motor

10) To study about the speed control methods for 3-phase induction motor

11)To study/perform about the synchronization of two three phase alternators (or one alternator with grid) using different methods. (a) lamps dark method (b) two bright one dark method (c) synchroscope

12) To study and compare the performance of three phase induction motor with vvvf drive.

13) Open circuit and short circuit test on single phase transformer.

14) Sumpner's Test on two identical single phase Transformer.

15) Performance of 3-phase transformer in Open Delta connection

16) Scott connection of two single phase transformers.

17) Parallel operation of two Single Phase transformers.

18) Study of different vector groups of three phase transformers.

19) Speed Control of D.C. Shunt Motor.

20) Swinburne's Test of D.C. Shunt Motor.

21) N-T Characteristics of D. C. Shunt Motor.

22) N-T Characteristics of D. C. Series Motor.

23) Characteristic of Separately Excited DC Shunt Generator.

24) Characteristic of Self Excited DC Shunt Generator.

25) To Study different starters of DC motor

Control system engineering:

1.To obtain the Speed Torque Characteristic and to derive the transfer function of electrically loaded AC Servo Motor and hence obtain mechanical parameters.

2.To obtain the Speed Torque Characteristic and to derive the transfer function of mechanically loaded AC Servo Motor and hence obtain Time Constants of motor.

3.To obtain the Speed Torque Characteristic and to derive the transfer function of electrically loaded DC Servo Motor and hence obtain mechanical parameters.

4. To study D.C. Servo Position Control System.

5.Study of Amplifier, Integrator, Sign changer, First order system & Second order systems (Analog Simulation).

6.To study the Process Control simulation and effect of different controllers on system performance.

7. MATLAB Simulation for Transient Response Analysis

8. MATLAB Simulation for Root locus plots

9. MATLAB Simulation for Bode plots

10. MATLAB Simulation for Nyquist plots

Electrical Measurement Lab:

1. Measurement of resistance using Wheatstone's Bridge.

2. Measurement of resistance using Kelvin Double bridge.

3. Measurement of displacement using LVDT

4. Measurement of inductance by Hay''s bridge

5. Measurement of capacitance by Schering bridge

6. Measurement of voltage, current and resistance using dc potentiometer.

7. Extension of range of ammeter using CT.

	8. Measurement of physical quantities like strain using strain gauge.
	9. Calibration of single phase energy meter by phantom loading.
	10. Measurement of temperature by RTD method
	11. To measure weight with the help of strain gauge.
	12. To measure displacement with the help of LVDT.
	13. To measure temperature with the help of RTD and thermister.
	14. To measure angular position of shaft using synchros.
	15. To measure liquid level with the help of capacitive transducer.
	16. To study DAC 0808.
	17. To measure flow with the help of Orifice plate.
	18. To study multiplexer.
	19. To measure flow with the help of Venturi tube.
	20. To measure liquid level using air purge system
	21. To study recorder.
	Power system protection
	1.Study the effect of floating star point (neutral) on 3 phase distribution system.
	2. Current transformer polarity test
	3. Study transformer differential protection scheme
	4. Testing of relay by secondary injection relay testing kit
	5. Testing of current transformer by C.T testing kit.
	6. Study radial feeder and ring main feeder protection scheme
	7. Study over current and earth fault protection scheme of 3 phase induction motor.
	8. Study of under voltage relay
	9. Study of thermal relay

Electronics & Communication Engineering

List of Major Equipment/Facilities in each Laboratory/Workshop	**Basic Electronics Lab :** DSO, CRO, Function Generators, Trainer kit, Basic Electronics Experiment kit setups
	Digital Lab : 8085 Microprocessor kits, 8051 Microcontroller kits, AVR, PIC Microncontroller kits, Ardunio Kits, Raspberry PI boards, ARM Microprocessor kits, DSP Kits, Embedded System Development kits, FPGA-CPLD Kits, Robotics Modules, Robotic Arm, Zigbee -GPS-Bluetooth Modules, DSO-CRO, Function Generator, Trainer Boards
	Research and Project Lab : 16 Channel logic Analyzer, MICA Wireless Sensor kits, Antenna Experiment kit setup, TV/LED experiment kit, 89C51 development kits, DSO-CRO, Function Generator, Trainer Boards
	Communication Lab : Analog Modulation/demodulation Experiment kits, Digital Modulation/demodulation experiment kit, Optical Fiber Experiment kit setup, Microwave bench, Microwave experiment kit setup, Microstrip components and experiment kit setup, DSO, CRO, Function Generator
	Computer Lab (UG) : Desktop PC (Qty : 129), Laptop (Qty :13), Printer (Qty :2), Manage and Unmanaged Switches (Qty :28), UPS 1 KVA, Storage Devices

	Computer Lab (PG) : Desktop PC (Qty : 43), Laptop (Qty :4), Printer (Qty :2), Manage Switches (Qty :2), UPS 1 KVA (Qty: 2), Storage Devices **Power Lab :** SMPS Kits, UJT/ FET/ TRIAC/DIAC/Power MOSFET Experiment kit setup, DSO/CRO, Function Generator, Trainer
List of Experimental Setup in each Laboratory/Workshop	As per ANNEXURE – 15

Information Technology

- List of Major Equipment/Facilities in each Laboratory/ Workshop

Name Of Laboratory	Major Equipment Name
Information Technology Department Lab - 1	Computers : Acer Corei3 – 33 HCL Core2Duo – 05 AC 2 Tone Split AC - 3 Switch D-Link Unmanaged (24 port) - 4 Stabilizer - 2 UPS(Numeric) -1 Printer (Laser) - 2
Information Technology Department Lab - 2	Computers : HP Corei5 - 17 HCL Core2 Duo – 23 AC 2 Tone Split AC – 2 Switch D-Link Unmanaged (24 port) – 2 Stabilizer - 2
Information Technology Department Lab - 3	Computers : HCL Core i3 – 31 HCL Core2Duo - 10 AC 2 Tone Split AC - 2 Switch D-Link Unmanaged (24 port) - 2

- List of Experimental Setup in each Laboratory/Workshop

Name Of Laboratory	Major Equipment Name
Information Technology Department Lab - 1	Computers : Acer Corei3 – 33 HCL Core2Duo – 05 Software : Visual Studio 2015, Android studio, NetBeans, Java, oracle 10 g, python , Matlab, Rational Rose, Sql Server 2012, Weka , WampServer,Turbo C , Prolog.
Information Technology Department Lab - 2	Computers : HP Corei5 - 17 HCL Core2 Duo – 23 Software: Software : Visual Studio 2015, Android studio, NetBeans, Java, Oracle 10 g, python , Matlab, Rational Rose, Sql Server 2012, Weka , WampServer,Turbo C , Prolog,
Information Technology Department Lab - 3	Computers : HCL Core i3 – 31 HCL Core2Duo - 10 Software: Software : Visual Studio 2015, Android studio, NetBeans, Java, oracle 10 g, python , Matlab, Rational Rose, Sql Server 2012, Weka , WampServer,Turbo C , Prolog,

Instrumentation and Control

List of Major Equipment/Facilities in each Laboratory/Workshop	1).Advance control lab: 1). Siemens Make S7-200 Smart PLC with I/O card, Software and power supply.

	2).MIRANO make (M3400 PLC system with I/O modules and Software. 3).Allen Bradley make PLC system with I/O modules. 4).Wonderware Intouch 64 tag Development + runtime SCADA software. **2).Advance Instrumentation lab:** 1).Fouji make Aircompressor unit with standard accessories. 2).Flow Control Trainer. 3).Level Control Trainer. 4). Arbitrary waveform generator. Caddo -4210 **3).Transducers And signal processing lab:** 1). ARE make motorised Gyroscope. 2).Control Valve trainer. 3). Digital signal oscilloscope-70 MHz. 4). YOKOGAWA make DP, GP transmitter. **4).Project lab:** 1).YASAKAWA make AC Drives With panel & motor. 2).Flow meter Test Rig. 3).Flopper Nozzle System. 4).Control trainer / DC servo motor controller. **5).Embeded System lab:** 1).Acer make PC. Qty: 26 nos. 2).NI-Labview software (5 user) 3).NI-Mutisim software (3 user) 4).DATA Acquisition Card **6).Motion control lab:** 1).Simulation software- Heat exchanger,Multi effect evaporator, Three element boiler control,Binary distillation.(1 instructor + 10 operator) 2).e-Yantra make various Robots (Qty-25) 3).Quanser Qube servo workstation with Quarc software.- single user.

List of Experimental Setup in each Laboratory/Workshop	**1).Advance control lab:**
	   1). Desktop PC- Qty: 33
	   2). PLC trainer (Siemens) (2- set)
	   3). ADAM card (08 nos)
	   4). Woderware Scada software with hardware lock.
	2).Advance Instrumentation lab:
	   1). Bread board trainer, CRO, Function generator,power supply setup. (8 - set)
	   2). Power electronics kits .
	   3). Maxwell bridge, Anderson bridge, heys bridge, Kelvin bridge setup.
	3).Transducers And signal processing lab:
	   1). Bread board trainer, CRO, Function generator,power supply setup. (6 - set)
	   2). Dead weight tester setup
	   3). Comparision test pump
	   4). Temperature measurement setup.(2 -set)
	   5). PID controller, Bar graph indicator, simulators.
	   6). Transducers & signal processing kits. (12 set)
	4).Project lab:
	   1). Control Valve Trainer
	   2). Flow meter Test Rig.
	   3). Flopper Nozzle System.
	   4). Level measurement loop.
	   5). Flow measurement loop.
	   6). Field instruments.

	5).Embeded System lab:
	1). PC. Qty: 36 nos.
	2). NI-Labview software (5 user)
	3). NI-Mutisim software (3 user)
	4). DATA Acquisition Card
	5). MIRANO make (M3400 PLC system with I/O modules and Software.
	6). Allen Bradley make PLC system with I/O modules.
	7). Simulation software- Heat exchanger,Multi effect evaporator, Three element boiler control,Binary distillation.(1 instructor + 10 operator)
	6).Motion control lab:
	1). Control trainer / DC servo motor controller.
	2). e-Yantra make various Robots (Qty-25)
	3). Quanser Qube servo workstation with Quarc software.- single user.
	4). YASAKAWA make AC Drives With panel & motor.

Textile Technology

List of Major Equipment/Facilities in each Laboratory/Workshop

Spinning Lab.	1.Minature Card2.Tairo Drawing Frame3.Tairo Flyer frame
	4.Builder and Differential Mechanism5.Tairo make 6-spindle Ring
	frame with 4 spindle Doubling Frame6. Tairo Blow Room
	7.Tairo Rotor Spinning
Y.P. & Weaving Lab.	1.Ruti "C" Automatic loom2. Cone/Cheese Winder m/c
	3. Miniature Sizing M/C4.Automatic Voltage Corrector
	5.Alpha make Motor6.Pirn winding machine7.Plain Power Loom
	8.Electronic Yarn clearer9.Becon Benchvice10.Cross boarder dobby
	11.Single cylinder dobby12.Plat form for Jacquard
	13. T.F.O. Twister machine14.Bobbin Winding machine
	15.Flexible Rapier WeavingMachine16.Air-jet loom
	17.Raschel warp knitting machine18.Sinker body knitting machine
	19.Two ply yarn splicer
Textile Testing Lab.	1.Trash Analyser 2.Wrap reel3.Wrap block 4.Hygrometer(3)
	5.Fibre Fineness Tester6.Pilling Tester7.Hot Air Oven 8.Brusting
	Strength Tester 9.Abrasion Tester 10.Yarn Appearance Examining
	Machine. 11.Nepemplets 12.Lea Strength Tester 13.Tearing
	Strength Tester14.Digital Stroboscope 15.Fully Automatic Twist
	Tester16.Digital Yarn Tension Meter17.Quadarant Scale for GSM
	18.Crease Recovery Tester19.Stiffness Tester 20.DrapeMeter 21.
	Densimeter22.Package Hardness Tester23.Crimp Tester
Cad/Cam Lab	1.Cadvantage win dobby2.Cadvantage win Jacquard3.Cadvantage

	win Printex & CCM4.Semi automatic card puching machine5.Umax
	5600 astra scanner6.Lan switch 1024R (24 port)7.Compaq presario
	laptop-18.Infocus multimedia projectorIN 24+(1)9.Laptop IBM
	thinkpad 10.IN24+(1) 11. Lenovo think centrePC(8)12.Acer
	Laptop(3)14.HCL PC15.Printer HP 1020 Laser jet16.Lenovo PC
	17.Laser Printer 2300d18.LCDProjector 19.Tanya Software
	20.Upgradation of Dobby master software Jacquard Master
	Softwareand print Master software,software kit,hardware lock
	noph1005,pendrive,software manual 21.Acer
	ProjectorX1263N(1)22.Acer PC(17)23.Dom Hikvision CCTV(2)
	24.DVR 4CH Hikvision(1)5.HDD 2TB(1)25.Printer HP-m132 NW laser
	Sr. no VNC4P0078326.Paramount colour matching cabinet
Fabric Structure Lab.	1.Hand loom(2)
SOFA Lab	1.Single head Sequence machine
List of Experimental Setup in each Laboratory/Workshop	**Weaving Laboratory:-** WEAVING TECHNOLOGY I SUBJECT CODE: 2142902 List of Experiments: 1. To study the layout of weaving Lab. P. S Metler Winding Machine 2. To study the passage of yarn through P. S Metler Winding Machine. 3. To study the creel package holder (Cone/ Cheese), Groove drum of winder. 4. To study different types of yarn clearers and Tensioners used on Machine. 5. To study different types of yarn clearers and Tensioners used on latest winding machine. 6. To study drive to drum shaft, speedometer and Rocking shaft. 7. Calculation of speed and surface speed of different parts of winding machine. 8. To study Thread stop motion on winding machine. 9. To study the operation of thread stop motion for different counts and material. 10. To study anti patterning device on P.S Metler winding machine. 11. To find the production of Winding machine. 12. To study the features of latest winding machine. Pirn Winding Machine 13. To study yarn path through pirn winder. 14. To study different parts of pirn winding machine. 15. To study gearing diagram of pirn winding machine. 16. To study Traverse Mechanism on Pirn winding machine. 17. To study the traverse advancement on pirn winding machine. 18. To study diameter control mechanism on the machine. 19. Calculate speed and surface speed of Pirn winding machine. 20. Calculate the production of pirn winding machine. Direct warping machine 21. To study the yarn path through Direct warping machine. 22. To study the yarn path through Sectional warping machine

	23. To study the gearing diagram of Direct and Sectional warping machine.
	24. To study the features of latest warping machine.
	25. Calculation for warping machine.
	Two Cylinder Slasher Sizing Machine
	26. To study yarn path through sizing machine.
	27. To study different parts of sizing machine.
	28. To study gearing diagram arrangement of sizing machine.
	29. Calculate speed and surface speed of sizing machine.
	30. To study sizing machine used for cotton, blend and synthetic material.
	31. Preparation of size recipe for different material.
	WEAVING TECHNOLOGY II
	SUBJECT CODE: 2152908
	List of Experiments:
	Plain Power Loom Machine
	Passage of material through different parts of plain power loom.
	To select the proper reed and heald for a weaver's beam keeping in mind the beam, loom size and fabric construction.
	Study of shedding mechanism of shuttle loom and cam positioning with respect to loom cycle.
	Study of picking mechanism. Picker movement in relation with crank shaft rotation and calculation of average velocity of shuttle.
	Study of beat-up motion, construction and calculation of sley eccentricity.
	Study of let-off motion, construction and settings.
	Study of take up motion and calculation of loom take up constant.
	Study of Warp protection motion (both loose reed and fast reed).
	Study of warp stop motion.
	Study of temple motions.
	Study of side/centre weft fork mechanism.
	Study of multiple box motion.
	Study of different types of dobbies and their important settings.
	WEAVING TECHNOLOGY-III
	SUBJECT CODE: 2162907
	List of Experiments:
	1. General study of auto loom. Passage of warp threads through different parts of automatic weaving machine.
	2. Study of weft feelers and important settings.
	3. Study of cop change mechanism and important settings.
	4. Study of shuttle change loom and important settings
	5. Study of let-off motion & important settings.
	6. Study of take up motion, important settings and calculation of loom take up constant.
	7. Study of Warp protection motion(both loose reed and fast reed).
	8. Study of centre weft fork mechanism and important settings.
	9. Study of warp stop motion on various looms and setting of Ruti warp stop motion.
	10. Study of Single lift single cylinder Jacquard.
	11. Study of Double lift Single cylinder & Double cylinder Jacquard.
	12. Study of Cross- Border Jacquard.

13. Study of All Over Jacquard and card cutting & Lacing for the same.
14. Study of Double Cloth & Leno Jacquard.
15. Practice of Drawing-in on Jacquard loom and card cutting.

MODERN WEAVING TECHNOLOGY
SUBJECT CODE: 2172902
List of Experiments:

(A) AIRJET LOOM
1. Study of warp yarn passage through loom.
2. Study of different parts of loom.
3. Study of Shedding motion.
4. Study of Picking mechanism.
5. Study of Beat-up motion.
6. Study of let-off mechanism.
7. Study of Cloth take-up mechanism.
8. Study of air supply system to the loom.
9. Study of Stop motions on loom.
10. Study of Weft accumulator.

(B) RAPIER LOOM
1. Study of warp yarn passage through loom.
2. Study of different parts of loom.
3. Study of Shedding motion.
4. Study of Picking mechanism.
5. Study of Beat-up motion.
6. Study of let-off mechanism.
7. Study of Cloth take-up mechanism.

(C) SULZER PROJECTILE LOOM
1. Study of warp yarn passage through loom.
2. Study of different parts of loom.
3. Study of Shedding motion.
4. Study of Picking mechanism.
5. Study of Beat-up motion.
6. Study of let-off mechanism.
7. Study of Cloth take-up mechanism.

(D) Calculations pertaining to above looms.
(E) Fabric formation on above looms.

Textile Processing Laboratory:-
TEXTILE PROCESSING II
SUBJECT CODE: 2142903
B.E.-II SEMESTER IV

List of experiments:
1. 1. To create "bandhani" effect using tie & die style of printing on cotton fabric using cold brand reactive dyes.
2. 2. To create vein like effect on cotton fabric by batik style of printing using cold brand reactive dyes.
3. 3. To produce tone in tone effect on cotton fabric using hot brand reactive dye.
4. 4. To carry out direct style of printing on cotton fabric using cold brand reactive dye.
5. 5. To carry out direct style of printing on cotton fabric using hot brand reactive dye.
6. 6. To carry out printing of polyester fabric by direct style with disperse dyes.
7. 7. To carry out white & colour discharge printing on polyester fabric.
8. 8. To impart temporary and permanent stiff finish to the cotton fabric using suitable stiffening agents.

	9. 9. To carry out softening of cotton fabrics using various types of softeners.
	10. 10. To impart crease resistant and durable press finish to cotton fabrics.
	11. 11. To carry out delustering of lustrous material.
	12. 12. To impart water repellant finish on textiles using aluminum soap.
	TEXTILE PROCESSING I SUBJECT CODE: 2132904 B.E.-II SEMESTER III
	List of Experiments:
	13. 1. To carry out Acid and enzymatic Desizing of cotton fabric.
	14. 2. To carry out Oxidative Desizing of cotton fabric.
	15. 3. To carry out scouring of desized cotton fabric. (Open Bath)
	16. 4. To carry out scouring of desized cotton fabric. (Kier Scouring)
	17. 5. To carry out bleaching of scoured cotton fabric using sodium hypochlorite.
	18. 6. To carry out bleaching of scoured cotton fabric using hydrogen peroxide.
	19. 7. To carry out dyeing of cotton fabric using direct dye.
	20. 8. To carry out dyeing of cotton fabric using reactive dye.
	21. 9. To carry out dyeing of cotton fabric using vat dye.
	22. 10. To carry out dyeing of Nylon fabric using acid dye.
	23. 11. To carry out dyeing of polyester fabric using disperse dye.
	24. 12. To carry out dyeing of acrylic yarn using basic dye.
	Textile Testing Laboratory:- Physical Testing-I Subject Code:-2152906
	List of Experiments:
	• 1. Gravimetric Fineness of Manmade fibre
	• 2. Gravimetric Fineness of cellulosic Fibres
	• 3. Fibre Length By Fibrograph Method
	• 4. Determination of Trash content in cotton.
	• 5. Determination of Fibre Fineness using Air Flow Method.
	• 6. Determination of fibre bundle strength using Pressley Tester
	• 7. Determination of fibe bundle strength Using Stelometer
	• 8. Determination of various fiber properties using HVI and AFIS
	• 9. Yarn Grading By Visual Examination
	• 10. Yarn Count By Gravimetric Method
	• 11. Yarn count using Knowles balance.
	• 12. Measurement of Twist by manual and electronic method.

- 13. Determination of Lea Strength of Given Yarn Using Lea Tester
- 14. Determination of Thread Strength of The Given Yarn Using UTM
- 15. Measurement of Hairiness of the spun yarns.
- 16. Measurement of Evenness of Sliver and roving using evenness tester
- 17. Measurement of Ballistic strength of lea using impact strength tester.
- 18. Crimp rigidity measurement for filament yarn.
- 19. Measurement of snarling using snarl indicator.

PHYSICAL TESTING - II
SUBJECT CODE: 2162903

List of Experiments:

1. Determination of threads per inch of the given fabric using densi meter
2. Determination of threads per inch of the given fabric using pick glass
3. Calculate threads per inch of double cloth
4. Determination of thickness of given fabric using thickness gauge
5. Determination of GSM of the given sample using quadrant balance
6. Determination of GSM of the given sample using gravimetric method
7. Determination of crimp percentage of given fabric using crimp tester
8. Determination of flexural rigidity and bending modulus of the given fabric using stiffness tester
9. Determination of drape of the given fabric using drape tester
10. Determination of crease recovery angle of the given fabric using crease recovery tester
11. Determination of pilling resistance of the given fabric by pill box method
12. Determination of pilling resistance of the given fabric by the abrasion method
13. Determination of abrasion resistance of the given fabric using abrasion tester
14. Determination of fabric strength of the given fabric using UTM
15. Determination of bursting strength of the given fabric using bursting tester
16. Determination of tearing strength of the given fabric using KMI tearing tester

Spinning Laboratory:-
YARN MANUFACTURING I
SUBJECT CODE: 2132902
  List of Practicals:
Ginning & Blow Room Machine
   1. Lay out of spinning Lab
   2. Study of various methods of transferring motion from one shaft to another shaft.
   3. Introduction to Ginning machines.

| | 4. Introduction, objects of Blow room and lay out of Blowroom line.
5. Study of Bypass arrangement.
6. Passage of material through Blow room.
7. Study of construction details of all parts.
8. Study of driving arrangement.
9. Study of Piano Feed Mechanism.
10. Study of Full Lap Stop Motion and Doffing Arrangement.
11. Calculations:-
    (a.) Surface speeds (b.) Blows/inch (c.) Production.
12. Exercise based on Blow room.
Carding Machine
13. Study of passage of material through Carding Machine.
14. Study of different parts of Carding Machine.
15. To study settings of different parts of Carding Machine.
16. Study of drive to different parts of the Carding Machine.
17. Calculations regarding to surface speeds of different parts of Carding Machine.
18. Calculations:-
    (a.) Draft calculation (b.) TPI calculation.
19. Production of sliver on Carding Machine.
20. Exercise based on card.

YARN MANUFACTURING II
SUBJECT CODE: 2142901
List of Practicals:
Draw Frame Machine
1. To study objects of draw frame.
2. To study passage on draw frame.
3. To study drive to different parts on draw frame.
4. Calculate RPM and surface speed of different parts on draw frame.
5. Calculation: Production, TPI of sliver.
6. Study of drafting system according to fibre variety.
7. Comparison of features of TAIRO draw frame and Modern Draw frame.
8. Study of maintenance schedule of Draw frame.
9. Defects and remedies of draw frame sliver.
10. Study of norms of Draw frame sliver.
11. Performance and parameters for performance assessment.
Sliver Lap & Ribbon Lap Machine
12. To study the objects of sliver lap former.
13. To study the passage of material on sliver lap former machine.
14. To study drive to different parts on machine.
15. To calculate RPM and surface speed of different parts on machine.
16. To study the objects of ribbon lap former.
17. To study the passage of material on ribbon lap former machine.
18. To study drive to different parts on machine.
19. To calculate RPM and surface speed of different parts on machine.
Comber Machine
20. To study the objects of comber.
21. To study the passage of material on comber.
22. To study drive to different parts on machine. |

23. To calculate RPM and surface speed of different parts on machine.
24. To calculate draft and production on comber.
25. To study combing cycle.
26. To study different gauges for comber.
27. Study the important settings on comber.

Speed Frame Machine
28. To study the passage of material through speed frame.
29. To study flyer, flyer assembly and drafting system.
30. To study drive to different parts of machine.
31. To study the movement of bobbin rail.
32. To study differential motion.
33. To study builder motion.
34. Calculation of draft & Tpi.
35. Calculation of lay of roving.
36. Production calculation.

YARN MANUFACTURING III
SUBJECT CODE: 2152901
List of Practicals:
Ring Frame Machine
   1. To study the passage of yarn through different parts of ring spinning machine.
   2. To study the drafting, twisting and winding zone in ring frame.
   3. To study the building motion in ring frame.
   4. Calculation of draft constants, twist constant, coils per inch and production of ring frame.
   5. To ascertain the effect of break draft and total draft on yarn unevenness and strength (mill based study).
   6. Estimation of spinning tension as a function of traveller weight, yarn count and balloon height (mill based study).
   7. To perform various settings and maintenance operation on ring frame such as:
        a. ♦ Ring rail levelling
        b. ♦ Spindle gauging
        c. ♦ Spindle eccentricity
        d. ♦ Lappet eccentricity 8. To study the influence of spindle speed and traveller weight on hairiness.
   8. Ring frame settings – Spindle gauging, lappet guide centring, spindle centring, etc.
   9. Measurement of various parameters related to spinning geometry of different ring frames.
Doubler Machine
   10. Study of Ring-doublers – passage, gearing, calculation related to twist, speed and production.
   11. Study of TFO – passage, gearing, calculations related to twist, speed, production.
   12. Manufacture of multi-twist and multi-count yarn.
   13. Production of slub yarns and other fancy yarns by using Fancy yarn making device.

Sofa Laboratory:-

SUBJECT NAME: GARMENT TECHNOLOGY
SUBJECT CODE: 2172906

List of Experiments:
1. Study of yarn passage through machine.
2. Study of marker method.
3. Study of different spreading devices.
4. Study of various cutting systems.
5. Study of different types of seams.
6. Study of various feed mechanisms.
7. Study of different types of stitches.
8. Study of various sorts of needles.
9. Preparation of samples of different types of seams.
10. Study of modern sewing methods.
11. Study of different types of sewing beds

DEPARTMENT ELECTIVE – III: SURFACE ORNAMENTATION & FASHION ART
SUBJECT CODE: 2182905

List of Experiments:

1. To Study Stitches and Work Style.
   a. Stitches for Hand Type of Work Style. (Samples and Charts)
   b. Stitches for Machine Embroidery. (Samples and Charts)
   c. Stitches for different Work Style. (Samples and Charts)
2. To Study Computerised Embroidery Machine.
   a. Passage of thread through machine.
   b. Construction of different parts of machine.
   c. Mechanism for control of fabric and stitching.
   d. Creeling and re-creeling.
   e. Drive to different parts.
3. To prepare charts on basis of Selection of material for different types of embroidery work and for different article.
4. To Study features for embroidery software.
5. To study methods for design development for embroidery.
6. To Study methods for embroidery of developed designs on machine.
7. To Study special types of embroidery machines and its applications.
8. To Study the traditional costumes of India.
9. To Study the different traditional handloom fabrics of India.
10. To Study the basics of Sketching & Drawing w.r.t Fashion
11. To Study the designs incorporated by Indian fashion designers.
12. To Study the designs incorporated by international fashion designer.

SUBJECT NAME: PRODUCTION PLANNING & MAINTENANCE
SUBJECT CODE: 2172903

List of Tutorial Work:
1. To prepare spin plan for cotton spinnig unit.
2. To prepare spin plan for blend spinning unit.
3. To prepare spin plan for polyester spinning unit.
4. To prepare weave plan for weaving unit having plain powe looms.
5. To prepare weave plan for weaving unit having automatic looms
6. To prepare weave plan for weaving unit having shuttleless looms.
7. To prepare layout of spinning unit

| | 8. To prepare layout of yarn preparatory unit.
9. To prepare layout of weaving unit having plain power looms
10. To prepare layout of weaving unit having automatic looms.
11. To prepare layout of weaving unit having shuttleless looms.
12. To prepare plan and layout for a composite unit.
13. To calculate cost of yarn and fabric

Knitting Laboratory:-
KNITTING TECHNOLOGY
SUBJECT CODE: 2162909
B.E. 6th SEMESTER

List of Experiments:
1. 1. To study the path of yarn through plain knitting machine.
2. 2. To study the different knitting elements including the cam system.
3. 3. To study the driving mechanism of plain knitting m/c.
4. 4. To study the cloth take-up mechanism of plain knitting m/c.
5. 5. To study the rib knitting m/c including arrangement of dial and cylinder needles, cam system and driving mechanism.
6. 6. To study the Interlock knitting m/c including arrangement of dial and cylinder needles,
7. cam system and driving mechanism.
8. 7. To study cam system of V - bed rib knitting m/c.
9. 8. To study driving mechanism of V - bed rib knitting m/c.
10. 9. Preparation of Fabric sample (rib, circular, half cardigan and full cardigan) in V-bed rib
11. knitting machine.
12. 10. To study the effect on loop length with the change in cam setting in flat knitting machine.
13. 11. To study the effect of variation in yarn input tension on the loop length in V-bed rib flat
14. knitting machine.
15. 12. To study plain, rib and Interlock knitted fabrics (course per inch, wales per inch, loop
16. length etc.)
17. 13. Knitted fabric analysis.

Fabric Structure Laboratory:-

FABRIC STRUCTURE-I
SUBJECT CODE:2152903

List of Practical:
1. 1.Samples analysis of Basic Structures.
2. 2.Weaving Samples of Basic Weaves on Hand Loom.

FABRIC STRUCTURE-II
SUBJECT CODE:2162906

List of Experiments
3. 1.Samples analysis of compound structures.
4. 2.Weaving samples of compound weaves on handloom.

Cad Laboratory:- |

STATISTICAL QUALITY CONTROL & TEXTILE COSTING
SUBJECT CODE: 2142905

List of Tutorial Exercise:
1. Preparation of Flow Chart for History of Quality Control
2. Preparation of chart for different Quality Systems and Standards
3. Preparation of chart for The DMAIC process.
4. Numerical based on Mean, Median, Mode
5. Numerical based on Range, Mean Range, Percentage Mean Range
6. Numerical based on Mean Deviation, Percentage Mean Deviation
7. Numerical based on Standard Deviation, Coefficient of Variation, Variance
8. Numerical based on Normal Distribution, Binomial Distribution etc.
9. Numerical based on Variable Control Charts
10. Numerical based on Attribute Control Charts
11. To design the experiment for given factor and level combinations by different using different DOE methods.
12. Numerical based on one way ANOVA.
13. Numerical based on two way ANOVA.
14. Numerical based on Karl Pearson's coefficient of correlation, Rank correlation coefficient and lines of regression.
15. Numerical based on probability.
16. Product calculation related to textile mill.

CYBER SECURITY SUBJECT CODE:-2150002
B.E.-III SEM:- 5TH

List of Experiments:

1. TCP scanning using NMAP
2. Port scanning using NMAP
3. TCP / UDP connectivity using Netcat
4. Network vulnerability using OpenVAS
5. Web application testing using DVWA
6. Manual SQL injection using DVWA
7. XSS using DVWA
8. Automated SQL injection with SqlMap

GUJARAT TECHNOLOGICAL UNIVERSITY
TEXTILE TECHNOLOGY DEPARTMENT
CYBER SECURITY SUBJECT CODE:-2150002
B.E.-III SEM:- 5TH

List of Experiments:

1. TCP scanning using NMAP
2. Port scanning using NMAP
3. TCP / UDP connectivity using Netcat
4. Network vulnerability using OpenVAS
5. Web application testing using DVWA
6. Manual SQL injection using DVWA
7. XSS using DVWA
8. Automated SQL injection with SqlMap

Mechanical Engineering

- **Mechanical workshop**

Sr. No.	Name of Equipment	Specifications
1	Shearing machine	Perfect make hand shearing m/c (18x1x10), Plate per sheet = 3MM/MS, 2MM/SS, 350 mm Blade length
2	Grinding Machine	Bench Grinder M/C (1.5 HP, 2880 RPM)
3	Hackshaw Machine	Hacksaw Machine with accessories (150 mm round bar and 125 mm square bar cutting, 80 stroke per min with 350 mm blade size)
4	Welding Machine	Welding Machine
5	Wood Working Machine	JAI make wood working M/C (48" length of surface table, 4000 RPM cutter block speed, 2 HP Motor)
6	Belt Roller Machine	Belt Roller Machine (6" belt width, 48" belt length, 9" disc dia., 960 RPM belt pulley speed)
7	Shearing Machine	Hand Sheering Machine
8	Roller Machine	Bending Roller Machine (2" dia roller, length 24")
9	All gear lathe machine	Vasu light duty all geared lathe m/c model-AGL-165,Taper turning attachmnet , Steady rest, Face plate, follow rest , dig chuck 8",revolving centre mt-3,complete set of turning ,boring,facing, driving plate,drill chuck,true chuck,electrical all with switch and belt
10	Pully drive lathe machine with norten gear box	Vasu light duty pulley drive lathe m/c model-165 with norten gear box,complete set of turning,facing,parting,threading tools, Face plate,key way attachment,revolving centre mt-3,drill chuck 13mm with arbor,true chuck,electrical all with switch and belt
11	Pully drive lathe machine	Vasu light duty pulley drive lathe m/c , true chuck 160mm - 3 jaw ,electrical all with switch and belt
12	Universal milling machine	Sunrise Milling machine SG-1 Table size 900*200 , dividing head 4.5" with all access universal milling vice 4",adaptor ISO 30,collet chuck, 5to 25 mm collets ,true chuck6"-3jaw,rack cutting attachment,vertical milling attachment,rotary table 8",coolant assembly,electrical all with switch and belt

13	Shaper machine	Run up Shaping m/c Stroke 14",Shaping vice 150mm,motor pulley ,handle,safety cover , v belt automatic lubrication system, motor bracket electrical all with switch
14	Radial drilling machine	KMT radial drilling m/c 25mm,electrical motor 1hp and 0.5hp drill chuck 13mm with arbor, v belt 2pc,drill vice 6",box table coolant pump with assembly,morse taper sleeves
15	Vernier calliper	China Vernier Calliper
16	Vice	Becon Branel Bench vice (19x8)
17	Furnace	Cold Fixed Smithy Furnace
18	Blower	Air Blower 1HP
19	Surafce Plate	Stand for surface plate (24x24x4)
20	Angle Plate	Angle plate CI (5" x 5")
21	Motor	Alpha make Electri motor for drilling M/C 0.75 HP
22	Vice	Becone Drill vice (7x3.5)
23	Vice	Carpetry Vices (8x4)
24	Swage Block	Swage Block
25	Grinding Machine	Venus Bench Grinder M/C (1.5 HP, 2880 RPM)
26	Anvil	Anvil 43 kg
27	Anvil	Anvil 49.5 kg
28	Motor	Electric motor (1.5 HP, 2880 RPM)
29	Vernier calliper	6"(150 mm) - Insize make
30	Vernier calliper (dial)	6"(150 mm) - Insize make
31	Vernier calliper (digimatic)	6"(150 mm) - Insize make
32	Micrometer	(0-25 mm) - Insize make
33	Micrometer digital	(0-25 mm) - Insize make
34	Dial Indicator	2046-S Dial indicator
35	Megnetic Stand	Megnetic Stand 1615

- **Basic Mechanical Engineering**

Sr. No.	Name of Equipment
1	Cochran
2	Lancashire
3	Babcock Wilcox
4	Locomotive
5	Lever Safety Valve
6	Spring Loaded Safety Valve
7	Dead Weight Safety Valve
8	Water Level Indicator
9	Pressure Gauge
10	Stop Valve Hopkinson
11	Feed Check Valve
12	Steam Injector
13	Reducing Valve
14	Fusible Plug
15	Anti Priming Pipe
16	Greens Economizer
17	Sudgen's Super heater

	18	Blow Off Cock	
	19	Expansion Steam Trap	
	20	Two Stroke Petrol E/E	
	21	Four Stroke Petrol E/E	
	22	Two Stroke Diesel E/E	
	23	Four Stroke Diesel E/E	
	24	Ignition System Of An Automobile	
	25	Fuel Supply System Of A Petrol E/E	
	26	Fuel Supply System Of A Diesel E/E	
	27	Lubricating System Of An Automobile	
	28	Cooling System Of An Automobile	
	29	High Steam & Low Water Safety Valve	
	30	Two Stroke Diesel E/E	
	31	Two Stroke Petrol E/E	
	32	Four Stroke Diesel E/E	
	33	Four Stroke Petrol E/E	
	34	Thrust Bearing	
	35	Bush Bearing	
	36	Taper Bearing	
	37	Roller Bearing	
	38	Belt Drive, Loose & Fast Pulley- Open Belt Drive	
	39	Geneva Drive	
	40	Internal Gear Pinion Drive	
	41	Belt Drive Single Speed	
	42	Kinematic Pairs	
	43	Inversion of 4 bar chain	
	44	Reciprocating Engine Mechanism	
	45	Oscillating Cylinder Mechanism	
	46	Whitworth Quick Return Mechanism	
	47	Kinematics Of Gears	
	48	Band & Block Brake	
	49	Double Shoe Bake	
	50	Internal Expanding Brake	
	51	Multi Plate Clutch	
	52	Centrifugal Clutch	
	53	Plate Cam With Flat Face Reciprocating Follower	
	54	Cylindrical Cam With Translating Follower	
	55	End Cam With Translating Follower	
	56	Tangent Cam With Roller Oscillating Follower	
	57	Translating Cam With Reciprocating Knife Edge Follower	

List of Experimental Setup in each Laboratory/Workshop	Not applicable

Master of Computer Application

• List of Major Equipment/Facilities in each Laboratory/Workshop		
MCA Lab-1 & 2 Computers: (65)	"Acer" make Desktop Computers [Model: Q-8200] Intel Core to Quad: Q 8200	15
	ACER Veriton Intel core i3 2129 processor, Intel 3.30 GHz / 4 GB DDR III 500 GB SATA HDD	10

	HCL Desktop: Infiniti L A350 PRO Intel core i3/3 GB/320 GB	16
	HP Desktop MT280G3 - 7th Generation I5 – 1HM24AV (3.2 Ghz)/500 GB/8GB	24
	Switch: DLINK make 24 port unmanaged	2
	AC: Llyod 2 ton Split AC	4
	Multi Media Projector: BENQ make MMP	1
MCA Project Lab Computers: (18)	"Acer" make Desktop Computers [Model: Q-8200] Intel Core to Quad: Q 8200	17
	ACER Veriton Intel core i3 2129 processor, Intel 3.30 GHz / 4 GB DDR III 500 GB SATA HDD	1
MCA Staff Room	Computers: (10) ACER Veriton Intel core i3 2129 processor, Intel 3.30 GHz / 4 GB /500 GB	10
	Printer HP M1005	1
	Printer HP Laserjet 1108	1
	Switch: DLINK make 24 port unmanaged	1
MCA Server Room / MCA Lab -3	[Server Class Machine: (2)] • IBM X3400M3 tower server • HP Proliant - 110 - server Xeon G7 E3-1220 CPU Computers:	2
	Laptops: (7) "Acer" make Core 2 Duo (1) HCL ME (1) HP make i3 (2) ACER-E1-571 i3 (1) HP Laptop Probook (2)	7
	Printer: "Brother" make Printer DCP 7030	1
	AC: Voltas 1 ton Split AC	1
	External HDD – 500 GB	1
	USB Web Cameras	2
	Smasung Tablets	2
	Multimedia Projector	4
	Multimedia Projector	1
	Capture card	1
	Router	2
	USB External HDD – 1 TB	1
	Head Phone	3
	Head Phone	5
	IP Camera – wireless	1
	IP Camera – wired	2
	CCTV DOM Camera in classrooms with DVR and HDD	3
• List of Experimental Setup in each Laboratory/Workshop : Not Applicable		

Computing Facilities

Internet Bandwidth	120 Mbps
Number and configuration of System	Lenovo (core 2 duo,, 1 GB, 160 GB Hdd): 70+ Lenovo (core i3, 4 GB, 500 GB Hdd) : 50+ ACER (Quad Core, 4 GB RAM, 320 GB HDD) : 60+

	Acer AIO (core i5, 8 GB, 500 Hdd) : 10 ACER (core i5, 8 GB, 500 GB Hdd): 45+ ACER (core i3, 4 GB, 500 GB Hdd) :180+ HCL (core i3, 3 GB, 320 GB Hdd) : 150+ HP (core i5, 8 GB, 500 GB): 111+ HCL C2D, 2 GB RAM,320 GB HDD : 60+
Total number of system connected by LAN	1030
Total number of system connected by WAN	3
Major software packages available	Netsim, Windows Server OS, Oracle 11g, MS office, Autodesk AutoCAD, MIDAS GEN PLUS (1 Stand allone & 20 Web Licence), Bentley Academic Water & Waste Water, 3D CAD Design and Modeling, Building Information Modeling (5-User), IBM - SPSS Amos, SPSS Statistics Base (2 - User), Chem CAD IV + Chem CAD Therm -10 user Network version, AspenOne R Engg. software , IBM Rational Rose , PLC (Siemens make) with software, Embedded Developement Software KEIL, KEIL MDK ARM ED REAL VIEW MICRO CONTROLLER SOFTWARE, MatLab and various tool box, Simulink, Micosoft Dreamspark, Wonderware In touch 64 tag Development runtime SCADA Software, National Instruments Labview Software Academic site licencewith all the modules and tool kits, National Instruments Multisim And Ultiboard user bundle, Process simulation Modules Heat Exchanger, Process simulation Modules Multi Effect Evaporator, Process simulation Modules Three Element Boiler Control, Process simulation Modules Binary Distilattion For Benezene, Computer Aided designing Software from Wonder Weaves.
Special purpose facilities available	Google G Suite for the institute,

Innovation Cell

Intellectual Property Right (IPR) Cell

Sarvajanik College of Engineering & Technology (SCET) recognizes the importance of generation of intellectual property by its teachers and students. IPR Cell is formed in SCET with a vision to promote and support the intellectual property interests of all faculty members and students who wish to translate their creative works into intellectual property (IP).The main objective of this IPR cell is to create awareness and provide guidance to academic and non-academic staff of institute including students on the practices i.e. various forms of IPR, and the rules and regulation of intellectual property rights (IPRs) especially patent filing. Cell has endeavor to create understanding about general IPRs like Trademarks, Patents, Copyrights and Designs among the stakeholders.

Coordinator
Prof.(Dr.) Dipali Kasat
E-mail - dipali.kasat@scet.ac.in

Major Activities of IPR cell

Workshops organized for IPR awareness among the students

1) One Day Workshop on IPR (Patent, Copyright, Trademark) for the students (PG-main targeted audience and BE-students preferable if HoD/Faculty recommend) of all the departments on 19th July 2017 at N J Seminar Hall,SCET

2) IPR (Patent, Copyright and Trademark) awareness drive for the BE IV students of all the departments on 9th August 2017 at Taramoti hall , P.T Science. The aim was to guide the participants on thinking their projects and creativity in the direction of intellectual rights and properties. (The analysis of the feedback collected at the end clearly state that on an average 82% students liked the training event and wish to avail the free helpline service of IPR cell at SCET for their project related IPR queries)

Patents Filed

1) Title : An efficient system for the early detection of autoimmune diseases using a non-invasive methodology.
   Inventors : Ms Roshni Solanki, Prof.(Dr.) Dipali Kasat

2) Title : An efficient system for recognizing the texture of the object in the virtual reality using a hap-tic device.
   Inventors : Sohail Chamadia , Karan Gajjar, Jay Pachhigar, Vatsal GotaWala , Prof. Dhatri Pandya

Patents Published

1) Title : Multitasking Energy Efficient Protocol For Wireless Sensor Network
   Inventors : Prof.(Dr.) Pranav Lapsiwala , Dr. R. V. Kshirsagar

Copyrights Filed

1) Diary number : 15925/2017-CO/L
   Category   : Literary/Artistic
   Author   : Dr. Vaishali Mungurwadi

2) Diary number : 11517/2017-CO/L
   Category   : Literary/Artistic
   Author   : Prof.(Dr.) Dipali Kasat

Social Media Cell

– Not Applicable

Compliance of the National Academic Depository (NAD), applicable to PGCM/PGDM Institutions and University Departments

– Not Applicable

List of facilities available

Games and Sports Facilities	As per ANNEXURE – 16
Extra-Curricular Activities	As per ANNEXURE – 17
Soft Skill Development Facilities	1. Seminar Hall 2. Computer labs 3. Books of personality development in Library 4. Regular seminars on soft skill development of students by Training and placement department 5. Soft Skill Development cell formed under Student Activity and Welfare

Teaching Learning Process

Curricula and syllabus for each of the programmes as approved by the University	Chemical Engineering - As per ANNEXURE – 18 Civil Engineering - As per ANNEXURE – 19 Computer Engineering - As per ANNEXURE – 20 Electrical Engineering - As per ANNEXURE – 21 Electronics & Communication Engineering – As per https://www.gtu.ac.in/searchpages.aspx Information Technology - As per ANNEXURE – 22 Instrumentation and Control - As per ANNEXURE – 23 Textile Technology – As per ANNEXURE – 24 Mechanical Engineering - As per ANNEXURE – 25
Academic Calendar of the University	As per ANNEXURE – 26
Academic Time Table with the name of the Faculty members handling the Course	Chemical Engineering - As per ANNEXURE – 27 Civil Engineering - As per ANNEXURE – 28 Computer Engineering - As per ANNEXURE – 29 Electrical Engineering - As per ANNEXURE – 30 Electronics & Communication Engineering - As per ANNEXURE – 31 Information Technology - As per ANNEXURE – 32 Instrumentation and Control - As per ANNEXURE – 33 Textile Technology - As per ANNEXURE – 34 Mechanical Engineering - As per ANNEXURE – 35
Teaching Load of each Faculty	Chemical Engineering - As per ANNEXURE – 36 Civil Engineering - As per ANNEXURE – 37 Computer Engineering - As per ANNEXURE – 38 Electrical Engineering - As per ANNEXURE – 39 Electronics & Communication Engineering - As per ANNEXURE – 40 Information Technology - As per ANNEXURE – 41 Instrumentation and Control - As per ANNEXURE – 42 Textile Technology - As per ANNEXURE – 43 Mechanical Engineering - As per ANNEXURE – 44
Internal Continuous Evaluation System and place	Internal continuous evaluation is being done as per Gujarat technological university guidelines and curriculum specification. 30% weightage is typically given to internal

	evaluation out of total 100 marks for theory courses. Internal evaluation is done through components like mid-semester test, assignments, quiz, Open ended problems, mini projects, group activities etc. Subject faculties are given autonomy to decide these modules within limit and scope given by university. Such evaluation is submitted to university finally for deciding grade of students.
Student's assessment of Faculty, System in place	As per ANNEXURE – 45

For each Post Graduate Courses give the following:

Civil Engineering

Title of the Post Graduate Course	M.E. ENVIRONMENTAL ENGINEERING
Curricula and Syllabi	As per ANNEXURE – 46
Laboratory facilities exclusive to the Post Graduate Course	We have laboratory equipped with high volume sampler (inclusive of PM10 + PM2.5), stack monitoring kit, sound level meter, required chemicals and apparatus to conduct experiments for ANPC (Air & Noise Pollution Control), TPDD (Treatment Process Design and Drawing), IWWT (Industrial Waste Water Treatment), FWWT (Fundamentals of Water and Wastewater Technology) etc.

Title of the Post Graduate Course	M.E. TOWN AND COUNTRY PLANNING
Curricula and Syllabi	As per ANNEXURE – 47
Laboratory facilities exclusive to the Post Graduate Course	We provide various online courses to learn software as well during lab hours. Students are performing practical exercises on prepare of neighbourhood planning, prepare town planning scheme, Development Plan and Regional Plan with considering GDCR, TCPO Guideline, Gujarat Town Planning and Urban Development Act – 1976, URDPFI standards. We also provide practices of various software's (Bentley, Arc GIS, SPSS, City Engine) which will help full them in their dissertation work.

Title of the Post Graduate Course	M.E. CIVIL (STRUCTURAL ENGINEERING)
Curricula and Syllabi	As per ANNEXURE – 48
Laboratory facilities exclusive to the Post Graduate Course	We provides various fibres (steel fibres, polypropylene fibres, polyester fibres, glass fibres) to conduct experiments for TACC (Theory and application of cement composites) course. We also proved various software's (Etab, SAP, RCDC, Midas) as computational tool for modelling, analysing & designing structures using relevant codes.

Computer Engineering

Title of the Post Graduate Course	Computer Engineering

Curricula and Syllabi	As per ANNEXURE – 49
Laboratory facilities exclusive to the Post Graduate Course	Research lab having state of the art infrastructure

Electrical Engineering

Title of the Postgraduate Course	Electrical Engineering
Curricula and Syllabi	As per GTU Curriculum, Detailed Syllabus: https://www.gtu.ac.in/searchpages.aspx As per ANNEXURE – 50
Laboratory facilities exclusive to the Post Graduate Course	PG Computer Centre Research Laboratory

Electronics & Communication Engineering

Title of the Postgraduate Course	Communication Systems Engineering
Curricula and Syllabi	https://www.gtu.ac.in/searchpages.aspx
Laboratory facilities exclusive to the Post Graduate Course	Digital Make FPGA Trainer Board Device Xilinx Sparten series FPGA Device with 500k gate with Fx2 Hiros Connector with each Board Digital make FPGA Trainer Board Device. Xlinx Spartans series FPGA Device with 1200k gates HCL make Desktop Model MA350 core i3, Intel 3.06 Ghz 3GB, DDR3 RAM, 320 GB SATA HDD, USB KBD, Optical Mouse, LAN HCL Laptop Model HCLME57 Series Intel core i3, 226GHz, HM55 Chipset, 3 GB DDR3 RAM, 320 GB Sata Hdd, LAN, Blue tooth, Finger Print reader, touchpad Matlab Toolbox- Signal Processing Image Processing Neural Network Fuzzy Logic Communication Tool Digilent make FPGA Trainer Board for DSP Application Spartan-6 Acer Make Desktop M200-H61,Intel core i3 2100 processor. 4GB DDR , 500 GB SATA HDD, DVD-RW, LCD LAN

	Raspbrry PI, Model B 512 MB RAM
	ARM11 Tiny 6410 Single Board Computer (NR Arm11 – Tiny 6410)
	ACER Make PC M200-H81 model, I5, 4GB RAM, 500 GB HDD, No DVD, 18.2 LED
	Software Define Radio Unit : Tunable Tea From 90 Mhz NI-USRP-2901

Master of Computer Application

Title of the Post GraduateCourse	Master of Computer Applications
Curricula and Syllabi	As per ANNEXURE – 51
Laboratory facilities exclusive to the Post Graduate Course	All facilities are for PG course only.

Special Purpose

Software, all design tools in case	Not Applicable
Academic Calendar and frame work	Not Applicable

16.   Enrollment of students in the last 3 years

Enrollment of students in the last 3 years	As per ANNEXURE – 11

17.   List of Research Projects/Consultancy Works

Applied Science and Humanities

Number of Projects carried out, funding agency, Grant received	Project Title: Environment Audit Work Funding Agency: Different Industries allotted by GPCB Grant Received: Rs. 29,74,547/-
Publications (if any) out of research in last three years out of masters projects	NIL
Industry Linkage	NIL
MoUs with Industries	NIL

Chemical Engineering

Number of Projects carried out, funding agency, Grant received	Consultancy work as per Environmental audit cell, TIFAC-Chemical Engineering, SCET, Surat.
Publications (if any) out of research in last three years out of masters projects	NIL
Industry Linkage	NIL
MoUs with Industries	1. Green India Technological Alliance for Advances and Research (GITAAR),which is a training,Testing and R & D Centre, handled by Mahavir Synthesis Pvt. Ltd., Block no.304 B, 305,GIDC Sachin,Surat Sharing of the knowledge between the Institutes and Industry for establishment of a vibrant academic collaboration, by undertaking joint activities in their respective fields of research, as below (hereinafter referred to "Activities"). Activities: 1. Research facility (analytical and experimental) 2. Industrial problems (for students) 3. Employees' training with course development (ITI and Diploma) 4. Product development facility from academic and Industry 5. Research experts/knowledge sharing 6. Consultancy (cleaner production, alternative process intensification)

Civil Engineering

	Consultancy Work : Structural Proof Checking & Testing
Number of Projects carried out, funding agency, Grant received	1. Providing Structural Proof Checking Consultancy for The Construction of 24 MLD Sewage Pumping Station (SPS) at Palanpore Gam in Drainage Department, Surat Municipal Corporation. Consultancy Fees : Rs. 69165.59
	2. Providing Structural Proof Checking Consultancy for The Construction of Shelter for Urban Homeless People located at T.P.S. No. 21 (Bhestan), F.P. No. – 2 Paikee in South Zone (Udhna) Surat. Surat Municipal Corporation. Consultancy Fees : Rs. 196461.72
	3. Providing Structural Proof Checking Consultancy for The Construction of Sewage Pumping Station (SPS) for Phase - 1 of Dream City Limited, Khajod, Surat. Surat Municipal Corporation. Consultancy Fees : Rs. 80574.00

Publications (if any) out of research in last three years out of masters projects	Not Applicable
Industry Linkage	Not Applicable
MoUs with Industries	Not Applicable

Computer Engineering

Number of Projects carried out, funding agency, Grant received	NA
Publications (if any) out of research in last three years out of masters projects	As per ANNEXURE – 52
Industry Linkage	Website for Balaji Industry (Textiles)
MoUs with Industries	Student Management System for GMC - Civil (2018) Staff Management System for GMC - Civil (2018)

Electrical Engineering

Number of Projects carried out, funding agency, Grant received	project title:Development of an efficient power electronic converter to act as fuel cell emulator, funding agency:GUJCOST, Grant received(sanctioned) :Rs. 4,10,000.
Publications (if any) out of research in last three years out of masters projects	1. Aditya A Patel, Hardik P Desai and Hiren H Patel, "Evaluation of various DC-DC converters for fuel cell emulator design" in International Conference on Recent Trends in Energy Storage and Hydrogen Energy, Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal, April 2017. 2. J. J. Patel, H.H. Patel, H.P. Desai, "Evaluation of different strategies for controlling the DC/DC converter as a PEM fuel cell emulator", International Journal of Electronics, Electrical and Computational System (IJEECS ISSN 2348-117X) Volume 7, Issue 4 , April 2018, pp. 222- 230.
Industry Linkage	--
MoUs with Industries	--

Electronics & Communication Engineering

Number of Projects carried out, funding agency, Grant received	Project Title : Object Detection & Recognition Funding Agency : Nvidia, USA

	Grant Received : Rs. 1,25,000
Publications (if any) out of research in last three years out of masters projects	25
Industry Linkage	In order to improve Industrial interactions, department has taken various initiatives as follows: **(a) Signed MOUs with various industries** The said detail is shared separately earlier. **(b) Entrepreneur Development Cell** (EDC) under this banner greater industrial interaction is sought. Since inception in September 2014 at college level, it has been playing a vital role in mentoring & advising young & first-time entrepreneurs. Till Dec 2018, it has organized 30 motivational introductory lectures, 18 guest lectures, 26 industrial visits, 05 workshops and 06 Entrepreneurship Awareness camp, 05 Institute visit to motivate the students, 01 Elocution Competition, 02 Faculty Development Programme (FDP), 01 Industrial Training, 01 Entrepreneurship Development Programme, 04 Skill Development programme for entrepreneurs. Total 3995 students have been sensitized, 390 faculty members and 52 entrepreneurs have undergone training under aegis of EDC. Collaborating on a host of projects with renowned names in the area of Entrepreneurship such as Centre for Entrepreneurship Development (CED)-Gandhinagar, Entrepreneurship Development Institute of India (EDII), Gandhinagar, The Southern Gujarat Chamber of Commerce & Industry (SGCCI), Surat, The South Gujarat Productivity Council, and Surat Smart City EDC looks at sustainability and marries form with functionality. And this philosophy has led it to a number of recognition. We have Business Counseling Cell supported by The Centre for Entrepreneurship Development, Gandhinagar. Recently we've been awarded Nodal Centre in Information & Communication Technology Sector (ICT) by Centre for Entrepreneurship Development, Gandhinagar. Details about EDC and its activities are available at : https://scet.ac.in/scet_committees/scet_committees_ic (under Entrepreneur Development Cell) **(c) Industrial Visits** Industry visits are organized every semester for students of all departments to bridge gap between academics and industries. Local and Inter-state Industry visits are also organized time to time for all the students to enhance the technical and personal skills Students have visited many companies and sites for last three years. **(d) Liaison with Institutes and Industries:** SCET as an institute has a good liaison with the various Organizations / Industries for teacher training programs, Expert Lectures, Industry visits, student's summer training, and industry oriented projects and external examiners. Indian Institute of Technologies (IITs), National Institute of Technologies (NITs) and reputed institutes for teacher and students training programs. Faculties from the Department delivered expert lectures to various programs like International Workshops / FDPs / STTPs / Workshops / Seminars etc. Faculty members of institute are members/office bearers of various professional bodies like Surat municipal

	corporation (e.g.. Smart Cities Project- Surat Municipal Corporation (SMC)-Surat), South Gujarat Chamber of Commerce (e.g. Industry 4.0 committee of SGCCI-Surat), Computer Society of India (CSI), Institution of Engineers-India (IE-I), Institute of Electronics and Telecomm. Engineering (IETE), Indian Society for Technical education (ISTE) etc. **(i) AICTE / GUJCOST grants received :** Details of grants received are given separately **(ii) Remote center activities for National Mission of Education through Information and Communication Technology (NMEICT) project:** SCET has joined NMEICT project coordinated by IIT, Bombay and IIT, Kharagpur since beginning. **(iii) SSIP project:** College is working with Gujarat technological university for this project. **(iv) Nodal Center, E-YANTRA:** Details of participation for E-YANTRA project coordinated by IIT, Bombay are given in **appendix : E-YANTRA projec**t details. **(v) Professional Societies' associations** a) **Computer Society of India (CSI) Surat Chapter and CSI, Surat student Branch**.- CSI Surat chapter is active from more than two decades and present official address is SCET premise only. SCET faculty members and students actively organizes various events throughout the year. Details are available at https://scet.ac.in/campus-life/sc b) **Institute Electrical and Electronics Engineers (IEEE) -SCET Student Branch** (under Gujarat Section)- SCET runs IEEE Student branch since Dec 2009 and actively organizes many events each year including 4 IEEE DL talks in as many years. Details are available at https://scet.ac.in/campus-life/ieee **c) Indian Society for Technical education (ISTE)-SCET chapter** **d)Institute of Electronics and Telecommunication Engineering (IETE) - Institute Student Forum (ISF)**
MoUs with Industries	● Saher Technologies, Surat

Information Technology

Number of Projects carried out, funding agency, Grant received	Received computing equipment worth Rs. 3,05,000 as research grant from ASUS India Pvt. Ltd.
Publications (if any) out of research in last three years out of masters projects	~~
	~~
Industry Linkage	~~
	~~
MoUs with Industries	~~

Instrumentation and Control

Number of Projects carried out, funding agency, Grant received	~~

Publications (if any) out of research in last three years out of masters projects	Not Applicable
Industry Linkage	Carried out academic projects at SUMUL Dairy, Godrej Ind., SSM Infotech Surat, Got licences from Codesys(Germany), Sugar Factory(Chalthan).
MoUs with Industries	Done MOU with Schneider Electric USA. Got 50 licences of Indusoft SCADA software for academic purposes.

Textile Technology

Number of Projects carried out, funding agency, Grant received	NIL
Publications (if any) out of research in last three years out of masters projects	NIL
Industry Linkage	NIL
MoUs with Industries	GLOBAL FABRIC RESOURCE & RESEARCH CENTRE -GFRRC (AN INITIATIVE OF THE SOUTHERN GUJARAT CHAMBER OF COMMERCE & INDUSTRY) SAMRUDDHI, NANPURA, SURAT

Master of Computer Application

Number of Projects carried out, funding agency, Grant received	NIL
Publications (if any) out of research in last three years out of masters projects	NIL

Industry Linkage	2018-Odd Semester
	    1. Visit to Sahajanand (STPL)
	2018-Even Semester
	    1. Visit to Adani Port
	    2. Tout to Go cheese Factory(Pune)
	2017-Odd Semester
	    1. Visit to Adani Port
	2017-Even Semester
	    1. Tour to Pune
	    2. Visit to ISRO-Ahmedabad
	2016-Odd Semester
	    1. Visit to BSNL (Surat)
	2016-Even Semester
	    1. Tout to Pune
	    2. Visit to Sahajanand (STPL)

	6th Semester Project is done in industries and many students do get stipend and continue doing job in those industries.
MoUs with Industries	1. Essar Steel India LTD (Surat) 2. 6OMVI (Michigan – USA)

18. LoA and subsequent EoA till the current Academic Year

LoA	As per ANNEXURE – 53
EoA	

19. Accounted audited statement for the last three years

‒ As per ANNEXURE – 54

20. Best Practices adopted, if any

Applied Science and Humanities

Extra lectures	In Mathematics we use to conduct extra lectures for the Diploma Students and late admission students. Even several other section of the ASH dept use to conduct extra lectures.
Difficulty Solving	Faculties were instructed to resolve the issue of students related to their subject any time during college hours and on mail.
Orientation/Induction Programme	Several faculties of ASH dept were involved in AICTE mandatory course Induction programme for Engg. Students. They use to bring some new ideas every time to orient the student and make them well equipped mentally and physically to adopt the real environment of engg studies.
Soft skill development programme	Some students of Engineering seems to be weak as they are having the background of Gujarati medium the Ash dept has developed the programme to develop their soft skill in language especially English.

Chemical Engineering

1. 4 weeks compulsory training after 6th sem for all students (T and P representatives give presentation for proper training)
2. Industrial visit one for each class per semester
3. Moderation system for Midterm exam.
4. Periodic Project review
5. Safety precautions at each lab by students and staffs. (Apron, safety shoes etc.)
6. Industry-institute contacts for BE IV project students for sample collection, conducting experiments, sophisticated analysis, guidance, plant visit for better understanding.
7. Leave system: Leave register at department level & online system (recently introduced) and Load adjustment policy
8. Class conduction report system
9. Expert lectures at least 2 per sem for all classes

Civil Engineering

- Department is equipped with many software and emphasizing on the usage of same apart from the curriculum.
- Emphasizing on usage of Virtual Laboratory
- Arranging Industrial / Site Visits Frequently in various subjects so that students can link practical aspects with theoretical aspects
- Arrangement the expert talks under various subjects where industry experts share the field oriented knowledge with faculty members and students.
- Emphasizing UG students to work on Industry Defined Projects
- Arranging site visit for students where they get involved in live measurement on site
- Students have been exposed to varieties of field oriented knowledge through NPTEL Courses
- Department has the system of Class Teachers and Mentors where students can approach the faculty for their issues as well as faculty can execute counselling process
- Department has Female Counselling Cell
- Department has an Advisory Board which consists of Faculty Members of Reputed Institutes, Officials of Government Bodies and Consultant.
- Frequently, department arranges alumni meets under the banner of "Share What I Gain" where alumni of department share their experiences with students.

Computer Engineering

Academic practices

1. Usage of virtual lab and spoken tutorial for excellence in particular subject.
2. A very active CSI student chapter, which organizes many seminars/workshops for 1st year to 4th year students.
3. Adequate (neither more nor less) industrial visits arranged every year.
4. Guidance of external mentors (such as Dr. Vithal Kamath, Managing Director, Baroda Electric meters limited, Anand; Dr. Arnav Bhavsar, Asst. Prof., IIT Mandi) for final year student's projects.
5. Project: Progress review presentation and midterm submission on allocated machines only (individual laptops are strictly not allowed).
6. Financial support for student's publications/project competition/Hackathon etc. With very Fare deal (from SCETAA and SAWC fund).
7. Alumni involvement through the "Share what I gain" program.
8. We encourage students to expose their hidden skills, talents, and creativity via providing them platform to participate in co-curricular and extracurricular activities. (events like CO Creo, CO Olympics, Updates etc...).

Administrative Practices

1. Implemented and successful using Online leave management application using Google Script which comprises of following functionality :
   a. Online leave application
   b. Online load adjustment form
   c. Immediate notification e-mail to the applicant and HoD about leave applied
   d. Immediate e-mail to the applicant having filled leave form (automatic) which needs to be taken as a print and to submit to the establishment section, SCET after signing

  e. Automatic e-mail to the department group e-mail (e.g. costaff@scet.ac.in) every day in the morning at 7:30 a.m. which contains list of staff members who are on leave today along with

  f. their load adjustment details (Reminders for load adjustment on the day of conduct) Automatic e-

  g. mail to the applicant on the day of alternate load taking day, to remind him/her about the load to take. This load was exchanged with someone on the day of leave of applicant

  h. Facility to view status of all leave enjoyed in the current year.

2. Maintaining Class Conduction report.
3. Minutes of meeting and action plan after every departmental meeting.
4. CCTV camera monitoring every day.
5. I-card for all staff & student is mandatory (and it is ensured that all wear the I-card).
6. Asking for contribution of faculty involved in various committee at end of every semester which helps individual to do self assessment.

Electrical Engineering

Frequent industrial visits, workshop, etc. are arranged.	This helps in overall development of students besides curricular.
Frequent expert talks are arranged from industries and renowned institutions on various topics	This helps students know recent advancements and practices in industries and research and development trends in institutions.

Electronics & Communication Engineering

Creation of department wise committee structure and Maintenance of Strong, dynamic and fruitful Intranet facility of the department:

For around two decades Department is utilizing administrative structure comprising of committee members and committee wide functionalities are well defined. The structure, roles and members are changed periodically.

With a single click at Electronics Home page, streams of information related to academics, lecture notes, T&P, career advancement, project development and so on could be availed before the students for their overall grooming and productive outcome.

Provision of practical knowledge to the students community beyond curriculum:

Inclusion of state or art practices in courses being taught, at

undergraduate and graduate level by preparing 1) presentations on best 10 companies in field of course area 2) Details of best flagship product of one of such company. It gives opportunities to student examining , industrial practice related to subject they are studying. Various sessions, industry personal talks, and workshops conducted by the faculties and senior students for their juniors/peers provides proper moulding of the students to sell themselves before real world.

Teaching with utilization of higher Cognitive Levels: Higher cognitive levels like Analysis, creation and evaluation of engineering concepts are focused in class with peer learning (think-pair and share). Visualization of the concepts could be developed leading to effective conceptual learning.

Maintenance of Academic Audit of Students and Faculties: Strict attendance system, cumulative evaluation in Lab based courses, course feedback and identification of weak and strong students for moulding as per the requirements. Faculties maintain LDPP, adjustment of load whenever absent, feedback from students and extra guidance to weak

students help overall development and symbiotic relationship between faculty and students.faculty weekly reports are managed for the last more than 6 years. After conducting class, each faculty signs in weekly report.

<u>Mechanism to help academically weak student</u> : Recently, Department has set up two tier set up where academically weak students are identified and proper counseling , mentoring and teaching is be done to improve performance and clear backlogs.

Information Technology

Active Learning Assignments	Faculty members give assignments to students in the form of ALA (active learning assignments). The ALA assignments are given individually or in small group-size of 3-4 students. Students are encouraged to explore study material beyond their curriculum, work effectively in a team, give presentation etc.
Techfest	I.T. Dept. Annually organizes the 'Converse'Techfest which gives students the opportunity to participate in technical quiz, programming contests, theme-based poster design, interview preparation etc.
Workshops and Seminars	In order to upgrade the knowledge and skills of faculty and students, the I.T. Dept. regularly organizes workshops and seminars throughout the seminar.
Interaction with Alumni	The I.T. Dept. organizes interaction of students with alumni where they can share their experiences and motivate students for setting their goals.

Instrumentation and Control

1. Online learning and guidance and digital library for the students.
2. use of modern tools in teaching i.e. teaching through demonstration , animations and other tools involving IOT.
3. Feedback from students
4. Parents meeting
5. Extra classes for students
6. Guidance for competitive examinations
7. Local chapter of International Society of Automation(ISA)
8. Workshop for students
9. Continuous improvements in laboratory practices
10. teaching topics beyond syllabus

Textile Technology

Academic activities	Exhaustive training of students in Industry
	Close interaction with SGCCI-GFRRC for running technical training programs for textile entrepreneurs jointly with Entrepreneurship Development Cell.

Mechanical Engineering

- All Mechanical staff members are committed and ensure to teach full GTU syllabus during the semester by taking extra classes whenever required.

- All database and action plan related budget, purchase, dead stock records, faculty time tables and staff details or available for all in shared online files for easy access and transparency.
- Mechanical Engineering Department had organized an industrial visit to Adani Port Pvt. Ltd. (Hazira) as a part of first year induction programme to get detailed insight of business activities for first year students.
- Our department is actively involved in co-curricular and extracurricular student activities like SAWC, NSS, Blood donation etc.

Master of Computer Application

ISO Course File Format followed by faculties
Regular implementation of Lesson Delivery and Progress Report by faculties
Ensuring 100% Syllabus Completion in each Semester for all the subjects
Development of Mini Projects of Subjects like Android, Web Technologies and UML
For Sem. 6 Project Documentation, we follow IEEE bibliography format and Progress ReportContinuous Evaluation of the students by Assignments, Class Tests and Lab Quizzes