INSTITUTE OF DIPLOMA STUDIES

NIRMA UNIVERSITY

MANDATORY DISCLOSURE

Submitted to

Directorate of Technical Education

Gandhinagar

Towards

VARIATION IN THE APPROVED INTAKE CAPACITY OF DIPLOMA COURSES IN ENGINEERING AND TECHNOLOGY

AND

CONTINUATION OF APPROVAL

FOR THE ACADEMIC YEAR 2010-11

MANDATORY DISCLOSURE

MANDATORY DISCLOSURE BY INSTITUTIONS RUNNING AICTE APPROVED ENGINEERING/TECHNOLOGY/PHARMACY PROGRAMMES TO BE INCLUDED IN THEIR RESPECTIVE INFORMATION BROCHURE, DISPLAYED ON THEIR WEBSITE AND TO BE SUBMITTED TO AICTE EVERY YEAR LATEST BY 30TH APRIL TOGETHER WITH ITS URL

The following information is to be given in the Information Brochure besides being hosted on the Institution's official Website.

"The information has been provided by the concerned institution and the onus of authenticity lies with the institution and not on AICTE."

1.1 NAME OF THE INSTITUTION

- Address including telephone, Fax, e-mail.

Name	**INSTITUTE OF DIPLOMA STUDIES, NIRMA UNIVERSITY**
	Sarkhej-Gandhinagar Highway
Village	Chharodi
District	Ahmedabad
Pin Code	382 481
State	Gujarat
Phone No.	02717- 241911-15
Fax No.	02717-241917
E-Mail:	principal.ids@nirmauni.ac.in
Web site	www.nirmauni.ac.in/ids
Nearest Rly Station	Ahmedabad – 25 kms.
Nearest Airport	Ahmedabad – 23 kms.

II. NAME & ADDRESS OF THE PRINCIPAL

- Address including telephone, Fax, e-mail.

Name	**Prof. Suresh Pareek**
Designation	Principal (In charge)
	Institute of Diploma Studies Nirma University Sarkhej-Gandhinagar Highway Ahmedabad 382 481, Gujarat
Phone No. (O)	02717- 241911-15
Fax No.	02717-241917
E-Mail:	principal.ids@nirmauni.ac.in
Website:	www.nirmauni.ac.in/ids

III. Name OF THE AFFILIATING UNIVERSITY

Name	**Nirma University ***		
Address	**Sarkhej-Gandhinagar Highway, Ahmedabad – 382481**		
Pin Code	**382481**	Period of Affiliation	**A constituent Unit**
STD Code	**02717**	Phone No.	**241911-15**
Fax No.	**02717-241917**		

* Nirma University is established under the Act No. 10 passed by the legislative assembly Government of Gujarat and has come in to existence w.e.f. 17.04.2003

IV. GOVERNANCE

1. **MEMBERS OF BOARD OF GOVERNORS OF UNIVERSITY**

Sr.	Name
1.	Dr K. K. Patel President, Nirma University
2.	Dr N. V. Vasani Director General, Nirma University
3.	Shri Hasmukhbhai Adhia, IAS Principal Secretary to the Govt. of Gujarat Dept. of Higher and Technical Education
4.	Shri Shrenikbhai Lalbhai Chairman & Managing Director Lalbhai Group
5.	Shri B. J. Divan Former Chief Justice Gujarat High Court
6.	Dr Ketan Kotecha Dean, Faculty of Technology & Engineering
7.	Dr C. Gopalkrishnan Dean, Faculty of Management
8.	Shri Purshottambhai A. Patel Expert Academician
9.	Shri J. P. Joshipara Expert Academician
10.	Shri Ambubhai M. Patel Expert Academician
11.	Shri R. D. Shah Eminent Chartered Accountant
12.	Shri Vipinbhai Parikh Advocate

13. Shri Hirenbhai K. Patel
Managing Director, Nirma Ltd.

14. Shri Indravadanbhai Modi
Chairman
Cadila Pharmaceuticals Limited

15. Dr P. N. Bhagwati
Chairman
Bhagwati Sphero Cast Limited

16. Shri D. P. Chhaya
Secretary and Executive Registrar

2. <u>MEMBERS OF ACADEMIC COUNCIL OF UNIVERSITY</u>

Sr.	Name
1.	Dr. N V Vasani Director General
2.	Prof. Dinesh K. Sharma Head, Dept. of Electrical Engineering Indian Institute of Technology, Mumbai
3.	Shri K. Thyagrajan Iyer Academician
4.	Dr K. S. Dasgupta Academician
5.	Dr. H V Trivedi Academician
6.	Dr. K Kotecha Dean, Faculty of Technology & Engineering
7.	Dr. C Gopalkrishnan Dean, Faculty of Management & Dean, Faculty of Doctoral Studies & Research
8.	Dr. G Naresh Kumar Dean, Faculty of Science
9.	Prof. N K Pathak Dean, Faculty of Law
10.	Dr. Avani Amin I/c Dean, Faculty of Pharmacy
11.	Shri A. P. Vyas Associate Professor and I/c Head Dept. of Chemical Engineering Institute of Technology

12 Shri V. R. Iyer
Professor and Head
Dept. of Mechanical Engineering
Institute of Technology

13. Dr. P. H. Shah
Professor and Head
Dept. of Civil Engineering
Institute of Technology

14. Shri U. A. Patel
Professor, Dept. of Electrical Engineering
Institute of Technology

15. Shri A. S. Ranade
Professor and Head
Dept. of EE/EC/IC/Phy
Institute of Technology

16. Dr. M. D. Desai
Professor, Dept. of IC Engineering
Institute of Technology

17. Shri D. J. Patel
Professor and Head
Dept. of CE/IT/MCA
Institute of Technology

18. Dr Anuradha Gajjar
Associate Professor and Head
Dept. of Pharmaceutical Chemistry
Institute of Pharmacy

19. Dr Tejal Shah
Associate Professor, Dept. of Pharmaceutics
Institute of Pharmacy

20. Dr Priti Mehta
Associate Professor and
Head, Dept. of Pharmaceutical Analysis
Institute of Pharmacy

21. Dr Sanjeev Acharya
Asst. Professor, Dept. of Pharmacognosy
Institute of Pharmacy

22. Shri V. V. Nath
Professor, Information Management area
Institute of Management

23. Dr. Bindi Mehta
Professor, Strategic Management & Entrepreneurship area
Institute of Management

24. Ms Harismita Trivedi
Professor, Organizational Behaviour & Human Resource Management
Institute of Management

25. Dr. Deepak Danak
Professor, Economics and Finance area
Institute of Management

26. Dr. Deepak Shrivastava
Associate Professor
General Management area
Institute of Management

27. Dr Prabhat Kumar Yadav
Associate Professor, Marketing area
Institute of Management

28. Dr Purvi Pokhariyal
Asst. Professor, Institute of Law

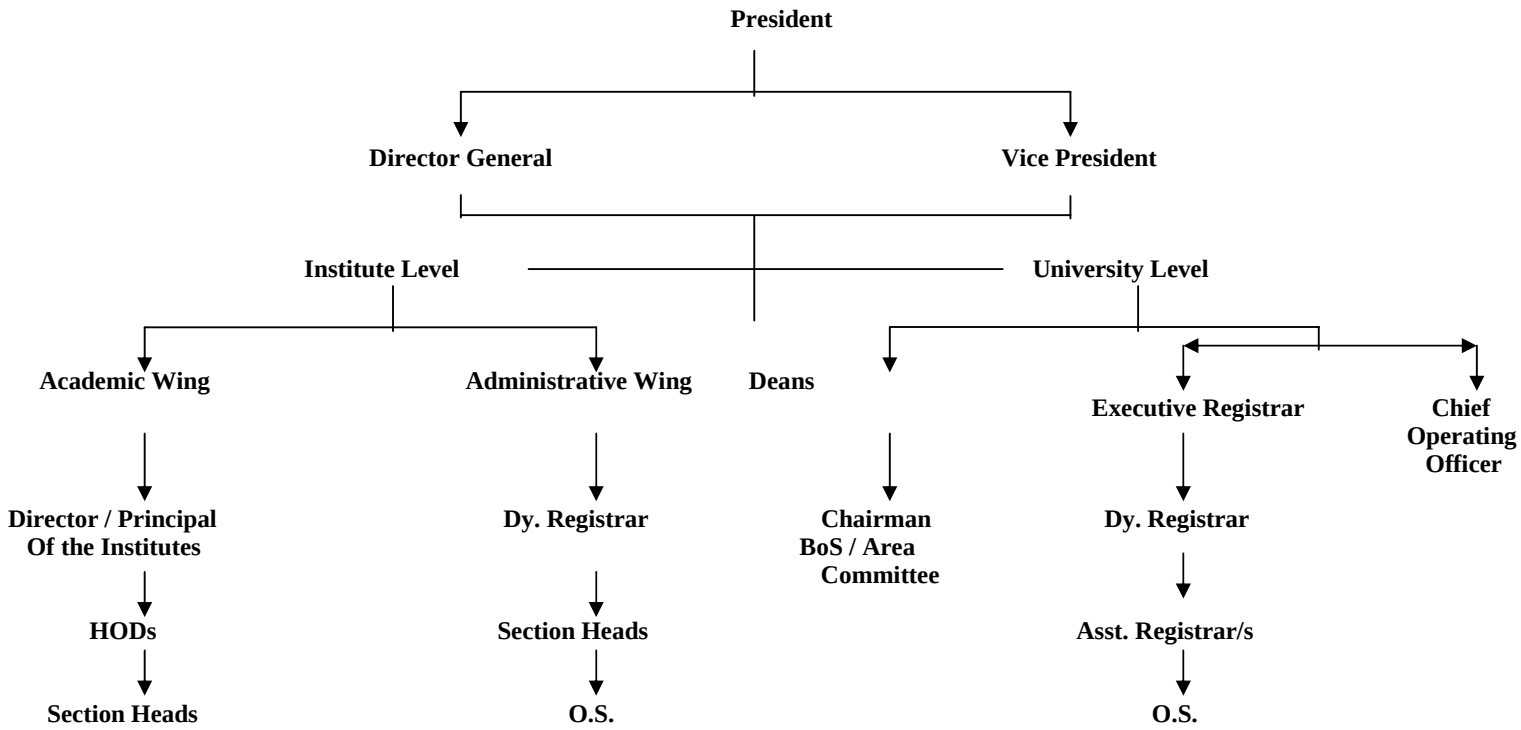
29. Shri D.P.Chhaya
Secretary and Executive Registrar

- Frequency of the Board Meetings and Academic Advisory Body

Board of Governors – *at least* twice in an academic year

Academic Council – *at least* twice in an academic year

Organizational chart and processes



Nature and Extent of involvement of faculty and students in academic affairs/ improvements

1. Weekly meeting of HODs of different departments are regularly conducted for planning, implementing, feedback and improvement of academic input to students & development of students.

2. Mission Statement of the Institute:

   Institute of Diploma Studies emphasizes on all round development of its students. It aims at not only producing good engineers, but also good and worthy citizens of a great country, aiding it in its overall progress and development.

   To treat every student as an individual, to recognize his / her potential and to ensure that he / she receives the best preparation and training to help one meet his / her career ambitions and life goals.

3. In order to achieve mission statement integrated efforts are made by students, faculty, Industry Institute Interaction Cell (III Cell) and all others. To achieve this approach to learning adopted is

   - Learning through Course work
   - Industry exposure
   - Group learning
   - Co-curricular activities- technical competition, exhibition, national events, etc.
   - Exposure to latest trends & developments

4. Student chapters/ societies of various professional bodies as well as departments are active for contribution to student development. Large numbers of activities are conducted through these forums.

5. Department level, faculty members participating in academic planning, purchase of equipments, library books, software, and proposals for R & D etc.

6. Institute Pedagogy and departments pedagogy meetings are regularly held, where constant feedback and improvements are discussed in addition to presentations by faculty.

7. Curriculum Design & Development are carried out by faculty involvement in various university bodies of Nirma University. Faculty regularly interacts with industry experts in respective areas for development / revision of curriculum of courses.

Mechanism / Norms & Procedure for democratic / Good Governance

The University emphasizes all round development of its students. It aims at not only producing good engineers, but also good and worthy citizens of this great country, aiding in its overall progress and development. The University has evolved a work environment suitable to its resources such that the desired goals are achieved as planned.

To fulfill the above policy, the University has adopted continuous evaluation system and only 35-40% component is for semester-end examinations. Right from its inception, the University has adopted grading system and for overall development, it has many programmes beyond curriculum, like that of supplementary courses, electives, etc. So that the students can get acquainted and gather knowledge beyond curriculum. For evaluation of course and faculty members, feedback from each of the student is also taken.

Commitment, proper monitoring & feedback mechanism are foremost requirements to achieve all round success at the University and its Institutions. This is also due to full clarity on the part of Management about the approach and efforts needed to achieve them. The Management is very receptive to all ideas and suggestions for improvement. Its representatives are easily accessible to all those who need help and guidance. The Heads of various Institutions of the University, the heads of department also adopt the same approach to the students, faculties and staff. So far as the academic governance is concerned, it has Board of Governors, Academic Council, Statutory Bodies, and Academic Faculties where participation from teachers and industry are also active & acute.

Student Feedback on Institutional Governance/faculty performance

Student feedback on faculty performance is taken online during every semester. Institute also takes regular informal feedbacks from the students about their day-to-day difficulties in teaching learning process including administrative services. In addition to this there is one suggestion box where student can give their suggestions pertaining to academic and administrative improvements. Institute responds on the feedbacks received and takes corrective action, if needed.

Grievance Redressal mechanism for faculty, staff and students

Students, staff and faculty are free to register their grievances through their respective Heads to the Head of the Institutions and University level depends on the case. Institution always tries to give proper solutions to the grievances of the students, staff and faculty if any. Regular HOD meeting, co-ordination meeting (between various Institutions) and various meetings of bodies at Institute and University level regularly visualize problems and solutions are also given accordingly.

V. PROGRAMMES

- Name of the Programmes approved by the AICTE

Diploma Programme	Sanctioned intake
1. Chemical Engineering	30
2. Mechanical Engineering	60
3. Plastic Engineering	30
4. Electrical Engineering	60
5. Electronics & Communication Engineering	120
6. Computer Engineering	120
7. Information Technology	60
Total	**480**

- Name of the Programmes accredited by the AICTE

  Nil. However, the Nirma University accreditation process by NAAC is completed. The outcome of evaluation is expected to be declared by 31st March 2010)

- For each Programme the following details are to be given:

Institute of Diploma Studies is a constituent institute of Nirma University. The university has approved the diploma level engineering programmes offered by the institute..

All programmes are offered to 10+ students depending upon seats available as per the resolution of Government of Gujarat. The duration of each programme is 4 years (8 semesters):

Diploma Programme	**No. of Seats**	**Fee**
1. Chemical Engineering	30	Rs.32000 p.a.
2. Mechanical Engineering	60	Rs.32000 p.a.
3. Plastic Engineering	30	Rs.32000 p.a.
4. Electrical Engineering	60	Rs.32000 p.a.
5. Electronics & Communication Eng.	120	Rs.32000 p.a.
6. Computer Engineering	120	Rs.32000 p.a.
7. Information Technology	60	Rs.32000 p.a.

Cut-off Marks

Comparative statement of students admitted in the year 2006-07, 2007-08, 2008-09, 2009-10

Electronics & Communication

	Highest				Lowest			
Category	**2006-07**	**2007-08**	**2008-09**	**2009-10**	**2006-07**	**2007-08**	**2008-09**	**2009-10**
OPEN	92	88	91.6	**91.4**	79	82	87.8	**75.69**
SC	77	82	87.8	**69.2**	70	72	81.2	**53.54**
ST	60	65	78.6	**55.8**	52	57	44.8	**43.54**
SEBC	88	82	87.6	**74**	70	75	84.2	**53**

Mechanical Engineering

	Highest				Lowest			
Category	**2006-07**	**2007-08**	**2008-09**	**2009-10**	**2006-07**	**2007-08**	**2008-09**	**2009-10**
OPEN	87	84	91.6	**90.31**	75	78	85.8	**80.46**
SC	77	73	85.4	**79.23**	64	65	78	**70**
ST	--	75	67.4	**74**	--	43	49.6	**41.4**
SEBC	83	78	85.6	**80.80**	68	73	82.6	**63.4**

Electrical Engineering

	Highest				Lowest			
Category	**2006-07**	**2007-08**	**2008-09**	**2009-10**	**2006-07**	**2007-08**	**2008-09**	**2009-10**
OPEN	83	79	85.6	**83.8**	65	72	82.4	**54.14**
SC	64	67	76.4	**47.6**	59	62	75	**44.46**
ST	43	50	47.6	**62**	--	--	38.4	**55**
SEBC	69	72	81.4	**66.22**	62	65	76.4	**49**

Plastic Engineering

	Highest				Lowest			
Category	**2006-07**	**2007-08**	**2008-09**	**2009-10**	**2006-07**	**2007-08**	**2008-09**	**2009-10**
OPEN	68	84	84.8	**81.69**	42	62	75	**56.86**
SC	51	56	67	**-**	38	55	65	**-**
ST	--	--	--	**-**	--	--	--	**-**
SEBC	57	61	70.8	**49.08**	42	59	65.8	**49.08**

Computer Engineering

	Highest				Lowest			
Category	**2006-07**	**2007-08**	**2008-09**	**2009-10**	**2006-07**	**2007-08**	**2008-09**	**2009-10**
OPEN	87	89	92.6	**91.23**	76	80	86.6	**53.40**
SC	76	71	82.6	**68.15**	70	68	77.8	**61.17**
ST	47	73	81	**46.77**	--	40	44.6	**46.77**
SEBC	83	79	86.4	**71.69**	66	73	82.2	**46.77**

Information Technology

	Highest				Lowest			
Category	**2006-07**	**2007-08**	**2008-09**	**2009-10**	**2006-07**	**2007-08**	**2008-09**	**2009-10**
OPEN	89	93	91.4	**84.8**	76	79	85.6	**71.14**
SC	70	78	83	**62.64**	66	73	80	**61.4**
ST	--	--	70.4	**-**	--	--	48.4	**-**
SEBC	81	79	84.8	**66.61**	64	70	81.4	**58**

Chemical Engineering

	Highest				Lowest			
Category	**2006-07**	**2007-08**	**2008-09**	**2009-10**	**2006-07**	**2007-08**	**2008-09**	**2009-10**
OPEN	85	74	84.8	**81.69**	55	66	79.4	**70.77**
SC	58	61	77.8	**66.71**	44	59	73.6	**66.71**
ST	--	--		**-**	--	--	--	**-**
SEBC	59	65	78.2	**62**	40	61	72.6	**50.52**

- **Placement Facilities**

  Industry Institution Interaction Cell (III Cell) has been established to provide close links with industries. To achieve this goal, the cell continuously interacts with the industries. Moreover, it interacts with various industries for job placements. Many reputed industries have visited the campus and recruited the students

Batch 2007

Department/ Program	Number of students recruited	Average salary/ annum	Highest Salary offered/ annum
Chemical	11	138000	180000
Mechanical	20	116727	180000
Electrical	15	120000	180000
EC	No one is interested for JOB		
Information Technology			
Computer Engineering			
Plastic	6	72000	72000

Batch 2008

Department/ Program	Number of students recruited	Average salary/ annum	Highest Salary offered/ annum
Chemical	4	158853	257000
Mechanical	17	148541	257000
Electrical	18	149375	257000
EC	3	180000	180000
Information Technology	No one is interested for JOB		
Computer Engineering			
Plastic	1	144000	144000

Batch 2009

Department/ Program	Number of students recruited	Average salary/ annum	Highest Salary offered/ annum
Chemical	7	149750	257000
Mechanical	13	99000	120000
Electrical	20	93600	120000
EC	0	72000	72000
Information Technology	2	72000	72000
Computer Engineering	1	72000	72000
Plastic	5	92000	108000

Minimum , Maximum and Average Salary for Last 3 years

Year	Minimum Salary	Maximum Salary	Average Salary
2007	72000	180000	115286
2008	84000	257000	145059
2009	72000	257000	137200

(2009 Pass outs)

Sr. No.	Name of the Company	City	Chem	Mech	Ele	EC	Plastic	IT	CE	Total	Gross Salary Salary P.A / Stipend P.M
1	Solu Soft	Ahmedabad				0		2	1	3	72000
2	L & T Limited - ENC	Vadodara	1	1	2					4	120000
3	Mother Dairy	Gandhinagar					2			2	96000
4	Cema Lighting	Kheda		0	0					0	120000
5	Transpek - Silox	Vadodara	0	0	0	0				0	72000
6	Torrent Power AEC	Ahmedabad		1	2					3	120000
7	Uma Converter	Ahmedabad		0	1		1			2	72000
8	Shrirama Multitech	Kalol		4			2			6	108000
9	Alembic Limited	Vadodara		3						3	96000
10	HAZIRA LNG LTD [SHELL]	Surat	1							1	257000
11	L & T Limited -HZW	HAZIRA		2						2	120000
12	Reliance Industries Limited	Jamnagar	0							0	150000
13	Ultratech Cement Limited	Bhavnagar		2						2	120000
14	T & R Limited	Ahmedabad		0	4					4	360000
15	ESSAR GROUP	Surat	5		11					16	175000

Name and duration of programme(s) having affiliation/collaboration with Foreign University(s)/Institution(s) and being run in the same Campus along with status of their AICTE approval. If there is foreign collaboration, give the following details:

Not Applicable

- For each Collaborative/affiliated Programme give the following:

Not Applicable

- Whether the Collaborative Programme is approved by AICTE? If not whether the Domestic/Foreign Institution has applied to AICTE for approval as required under notification no. 37-3/Legal/2005 dated 16th May, 2005

Not Applicable

FACULTY:

Department : Plastic Engineering

No	Name	Designation	D.O.J.	Qualification
1	Ms. Mamata Saiyad	HOD	30/07/1998	M.E
2	Shri Vijay N. Patel	Asst.Professor	01/12/1997	M. E.
3	Shri Digant Mandavia	Asst.Professor	15/07/2000	M.TECH
4	Ms. Dharini Soni	Asst.Professor	22/11/2000	B. E.
5	Ms. Sapna S. Joshi	Asst.Professor	16/07/2007	B. E.
6	Shri G.K. Lalchandani	Asst.Professor (SG)	10/02/1999	B.SC(ELE.)

Department: Chemical Engineering

1	Shri Nimish R. Shah	H.O.D.	24/09/1999	M.E.
2	Ms.Ujvala Christian	Asst. Professor	09/08/2007	M.E.
3	Ms.Yamini S Patel	Asst. Professor	27/08/2007	M.E.
4	Shri Dharamashi V. Rabari	Asst. Professor	14/05/2008	M.Tech
5	Ms.Payal C. Patel	Asst. Professor	01/01/2009	M.Tech
6	Dr. Monika Swami	Asst. Prof (Chemistry)	01/09/2003	PH.D. (CHEM.)
7	Shri Ketan N. Acharya	Asst. Prof (Chemistry)	30/06/2005	M.SC.(CHEMISTRY)
8	Dr. Manish J. Solanki	Asst.Prof(Chemy)	01/07/2009	Ph.D,M.Sc.(Chem)
9	Dr.Pathik M. Shah	Asst.Prof (Chem)	09/07/2009	PH.D. (CHEMY)

Department: Mechanical Engineering

1	Shri Pareek Sureshkumar	I/c.Principal & HOD	20/08/1998	M.E.
2	Shri Arvind Sankhala	Asst.Professor	17/03/2007	BE
3	Shri Anand S. Patel	Asst.Professor	07/06/2001	B. E.
4	Shri Mitesh Soni	Asst.Professor	17/03/2007	B. E.
5	Shri P.J. Bagga	Asst.Professor	28/09/2000	B. E.
6	Shri Amar R. Shah	Asst.Professor	16/08/2005	B. E.
7	Ms. Hani L. Chotai	Asst.Professor	02/07/2007	B.E
8	Shri Dipak Saksena	Asst.Professor	17/08/2005	B. E.

9	Ms Deepa N. Yagnik	Asst.Professor	27/06/2009	B.E.
10	Ms.Sarita Kashyap	Asst.Professor	03/07/2009	B.E.
11	Shri Sumit S. Patel	Asst.Professor	07/08/2009	B.E.
12	Shri Gunjan B. Bhatt	Asst.Professor	12/08/2009	B.E.
13	Shri Darshan A. Vaishnav	Asst.Professor	08/02/2010	M.TECH

Department: Computer Engineering

1	Ms. Pravina Mehta	HOD	25/08/1998	M. Tech.
2	Shri Rahul B. Shrimali	Asst.Professor	11/07/2006	BE
3	Shri Ankit C. Patel	Asst.Professor	09/08/2004	B.E.
4	Shri Ajay M. Patel	Asst.Professor	27/07/2006	B.E.
5	Ms. Sudha B. Patel	Asst.Professor	11/06/2007	B.E.
6	Shri Prakash B. Patel	Asst.Professor	01/08/2007	B.E.
7	Ms.Jignasa M. Sondarva	Asst.Professor	23/06/2008	B.E.
8	Shri Manish Singh	Asst.Professor	10/11/2008	B.E.
9	Shri Hardik G. Upadhyay	Asst.Professor	17/11/2008	B.E.
10	Shri Pranavkumar J. Mehta	Asst.Professor	08/08/2009	B.E.

Department: Information Technology

1	Shri S.G. Desai	Asst.Professor	04/07/2002	M.Sc.,M.Phill
2	Ms. Nisha Khurana	Asst.Professor	20/10/2001	B.E.
3	Shri Jashvant R. Dave	Asst.Professor	14/08/2007	B.E.
4	Shri Ajay N. Upadhyaya	Asst.Professor	06/08/2007	BE
5	Ms. Zarana R. Shah	Asst.Professor	01/09/2007	BE
6	Ms. Agna Desai	Asst.Professor	05/11/2008	BE
7	Ms.Riddhi Passawala	Asst.Professor	10/11/2008	BE

Department: Electrical Engineering

1	Shri Hemang S. Pandya	I/c.HOD-Asst.Professor	11/10/2004	ME
2	Shri Jafarullakhan Pathan	Asst.Professor	28/09/2005	M.E.
3	Shri Dhiraj N. Khokhani	Asst.Professor	27/06/2005	M.TECH.
4	Shri Dhiren K. Rathod	Asst.Professor	12/09/2005	B.E.
5	Shri Umesh L. Kohle	Asst.Professor	20/10/2005	B.TECH.
6	Ms. Miral P. Shah	Asst.Professor	08/10/2007	B. E.
7	Ms. Astha D. Trivedi	Asst.Professor	23/10/2008	B.E.
8	Shri Tejas B. Gandhi	Asst.Professor	29/06/2009	B.E.

Department: Electronics & Communication Engineering

1	Shri Jayesh J. Patel	HOD	03/11/2001	M.Tech
2	Ms. Karuna A. Mahajan	Asst. Professor	05/02/2003	B.E.
3	Shri Ankit D. Shah	Asst. Professor	27/03/2003	ME
4	Ms. Rina S. Parikh	Asst. Professor	08/10/2003	B.E.
5	Shri Pritesh P. Shah	Asst. Professor	20/08/2002	B.E.
6	Ms. Dipmala J. Thakkar	Asst. Professor	08/08/2005	B.E.
7	Ms.Lipi Chhaya	Asst. Professor	09/08/2007	B.E.
8	Ms.Mittal R. Thakkar	Asst. Professor	17/01/2009	B.E.
9	Shri Alpesh M. Patel	Asst. Professor	22/06/2009	B.E.
10	Shri Nikita Ambasana	Asst. Professor	29/06/2009	B.E.
11	Ms. Jignasa H. Patel	Asst. Professor	03/08/2009	B.E.
12	Shri Nareshkumar P. Patel	Asst.Professor	05/03/2010	M.Tech

Department: General

1	Shri N. K. Joshi	HOD	30/06/2007	M.SC.
2	Ms. Anagha S. Thakur	Asst.Prof(Eng)	06/08/2002	M. A.(ENGLISH)
3	Shri Amit Mishra	Asst.Prof(Maths)	20/11/2000	M. SC. (MATHS)
4	Shri Ashvinsinh Chudasama	Asst.Prof(Maths)	12/07/2005	M.SC. (MATHS)
5	Ms. Nibha Thakore	Asst.Prof(Eng)	01/12/2005	M. A. (ENGLISH)
6	Ms. Payal Mehta	Asst.Prof(Civil)	03/09/2007	B.E.
7	Shri Bal Sabindersingh	Asst.Prof.(Maths)	26/10/2007	M. SC.(Maths)
8	Ms. Bindia S. Mecwan	Asst.Prof(Eng)	22/02/2008	M.A. English
9	Ms. Hiral M. Shah	Asst.Prof(Civil)	12/05/2008	B.E. (CIVIL)
10	Shri Rahul I. Shah	Asst.Prof (Civil)	19/05/2008	B.E. (CIVIL)
11	Ms.Chetna C. Chauhan	Asst.Prof(Phy)	02/11/2008	M.Sc.(Phy), B.Ed.
12	Shri Dharamvirsinh B. Parmar	Asst.Prof(Maths)	25/06/2009	M.Sc-Maths,M.Ph.
13	Ms. Pooja Podar	Asst.Prof(Civil)	29/06/2009	M.E.(civil)
14	Ms. Vaishali Bhavsar	Asst.Prof (Phy)	09/07/2009	M.Sc., M.Phil
15	Ms.Krishna Parikh	Asst.Prof (Eng)	29/06/2009	M.A.(Eng),
16	Shri Kirankumar F. Vaghela	Asst.Prof(Eng)	20/07/2009	M.A.(Eng), B.Ed.
17	Shri Pragnesh L. Thakkar	Asst.Prof(Maths)	22/07/2009	M.Sc.,M.Phil-mths
18	Shri Tarak Bhatt	Asst.Prof(Civil)	01/08/2009	M.E.- Civil
19	Shri Nirav D. Patel	Asst.Prof.(Maths)	01/09/2009	M.Sc.-Maths,B.Ed

- **Guest Faculty**
  Experts from R & D institutions, industries and academic institute are invited to supplement the course work.

- **Permanent Faculty: Student Ratio**

1. Ratio of Staff : Student - 1: 16.38 **(considering Regular & Visiting Faculty)**

2. Ratio of Staff : Student - 1: 18.92 **(Considering Regular & Ad hoc Faculty)**

1589 = 84 (Annual Intake) X 4 Years

(Total number of students on roll: 1589

Number of regular faculties: 84

Number of adhoc faculties: 3

Number of visiting faculties: 16)

❖ Number of faculty employed and left during the last three years

Number of Faculty Left the Institute : 32

Number of Faculty Appointed : 55

VI. PROFILE OF PRINCIPAL WITH QUALIFICATIONS, TOTAL EXPERIENCE, AGE AND DURATION OF EMPLOYMENT AT THE INSTITUTE CONCERNED

Name	:	Prof. Suresh Pareek
Date of Birth	:	March 24, 1975
Academic qualifications (with field of specialization)	:	M.E. (Mechanical) from S.V. National Institute of Technology, Surat (2004) B.E. (Mechanical) Jai Narayan Vyas University, Jodhpur (1997)
Date of the appointment in the present institution	:	August 20, 1998
Details of Experience (Academic / Industrial)	:	Academic: 11 Years and 7 months Industrial: 1 year

Prof. Pareek is working as Head of Mechanical Engineering Department since August 2005. Prior to this, he was working as Lecturer in Mechanical Engineering at this institute. He has also one year industrial Experience.

He had coordinated Faculty Induction Programme in September 2005. He had delivered various expert lectures at different forums. He has also attended national level seminar and presented papers. He had also coordinated a seminar on "SQC and Six Sigma – A pathway towards Excellence". He has also coordinated Orientation Programme for First year students at this institute.

Prof. Pareek is actively involved in the curriculum development of Mechanical Engineering Programme as member of Board of Studies, Mechanical Engineering Diploma Programme. He is also member of Faculty of Technology & Engineering, Nirma University. He is life member of Indian Society for Technical Education. He is currently associated with Alumni Association of this institute as President.

His areas of interest are Thermal Engineering, Turbo machinery, Fluid Mechanics, Machine Design and Material Technology.

He has received Charutar Vidya Mandal, Vallabh Vidhyanagar Gujarat Award for "Best Polytechnic Teacher in Gujarat State" for the year 2007 during 37th ISTE National Convention.

PROFILE OF FACULTIES WITH QUALIFICATIONS, TOTAL EXPERIENCE, AGE AND DURATION OF EMPLOYMENT AT THE INSTITUTE CONCERNED

(Please refer enclosures)

VII. FEE

- Details of fee, as approved by State fee Committee, for the Institution.

  Tuition fee: Rs.32,000/- per year

- Time schedule for payment of fee for the entire programme.

  Fees collected within 10 days from the commencement of the new semester

- No. of Fee waivers granted with amount and name of students.

  Not Applicable

- Number of scholarship offered by the institute, duration and amount

  Nirma University offers financial assistance by way of interest on loan as per following details to the needy students on the basis of merit

Family Income not exceeding	Assistance	No. of such Assistance
Rs.2 Lakh p.a.	100% interest on the loan obtained from schedule bank limited to the amount of tuition fees	5% of the sanctioned intake
Rs.4 Lakh p.a.	50% interest subsidy on the loan obtained from schedule bank limited to the amount of tuition fees	5% of the sanctioned intake

- Estimated cost of Boarding and Lodging in Hostels.

  Hostel facilities are available for girls. Private hostel facilities are also created nearby the institute. Institute has its own 32 buses to carry students from every corners of Ahmedabad and Gandhinagar.

VIII. ADMISSION

- Number of seats sanctioned with the year of approval.

Courses	**1st Year of approval by AICTE and Reference No.**	**Sanctioned Intake**

Chemical Eng.	740/1.1(E) ET/97 dt. 13/08/1997	30 (Revised in 2007)
Mechanical Engg.	740/1.1(E) ET/97 dt. 13/08/1997	60
Plastic Engg.	740/1.1(E) ET/97 dt. 13/08/1997	30 (Revised in 2007)
Electrical Engg.	740.87-039(E)/2C/95/1748 dt. 02/07/03	60
Electronics & Communication Eng.	418/Ext-Guj/ET/01 dt. 16/07/01	120 (Revised in 2009)
Computer Engg.	418/Ext-Guj/ET/01 dt. 16/07/01	120 (Revised in 2009)
Information Technology	418/Ext-Guj/ET/01 dt. 16/07/01	60

❖ Number of students admitted under various categories each year in the last three years.

Branch		2009-10					2008-09					2007-08				
		OP	SC	ST	SE BC	Total	OP	SC	ST	SE BC	Total	OP	SC	ST	SEB C	TOTAL
CH	BOYS	17	3	-	7	27	15	1	-	9	25	17	1	-	7	**25**
	GIRLS	2	-	-	1	3	4	1	-	-	5	4	1	-	1	**6**
ME	BOYS	36	3	6	15	60	31	5	4	20	60	30	4	6	20	**62**
	GIRLS	-	-	-	-	-	-	-	-	-	-	-			1	**1**
PL	BOYS	20	-	-	2	22	14	1	-	10	25	19	2	-	10	**31**
	GIRLS	-	-	-	-	-	3	-	-	2	5	1	-	-	-	**1**
EE	BOYS	37	3	4	14	58	33	4	4	16	57	34	3	1	16	**54**
	GIRLS	1	-	-	-	1	2	-	-	1	3	8	1	-	-	**9**
CE	BOYS	60	2	2	23	87	24	5	3	18	50	33	5	3	25	**66**
	GIRLS	27	2	-	4	33	29	2	2	7	40	15	3	1	9	**28**
EC	BOYS	36	26	5	27	94	27	5	7	21	60	36	7	1	32	**76**
	GIRLS	21	2	-	3	26	21	3	1	5	30	10	1	2	6	**19**
IT	BOYS	23	2	-	11	36	16	3	2	9	30	21	4	-	11	**36**
	GIRLS	22	-	-	2	24	22	1	1	6	30	16	2	-	9	**27**
TOTAL		302	43	17	109	**471**	241	31	24	124	**420**	244	34	14	147	**439**

❖ Number of applications received during last two years for admission under Management Quota and number admitted.

19 candidates are admitted under NRI category in the year 2009-10. The admission under NRI category were granted as per the guidelines of the Admission Committee for Professional Diploma Courses (ACPDC).

IX. ADMISSION PROCEDURE

- Mention the admission test being followed, name and address of the Test Agency and its URL (website):

The admissions to the Institute are given by the Admission Committee for Professional Diploma Courses constituted by the Government of Gujarat.

(For more details please visit www.cdacgujarat.org)

X. CRITERIA AND WEIGHTAGES FOR ADMISSION

- Describe each criteria with its respective weightages i.e. Admission Test, marks in qualifying examination etc.
- Mention the minimum level of acceptance, if any.
- Mention the cut-off levels of percentage & percentile scores 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.

Not Applicable

Item No I - X must be given in information brochure and must be hosted as fixed content in the website of the Institution.
The Website must be dynamically updated with regard to XI–XV.

XI. APPLICATION FORM

- Downloadable application form, with online submission possibilities.

Not Applicable

XII. LIST OF APPLICANTS

- List of candidates whose applications have been received along with percentile/percentage score for each of the qualifying examination in separate categories for open seats. List of candidates who have applied along with percentage and percentile score for Management quota seats.

(Please see Annexure - 1)

XIII. RESULTS OF ADMISSION UNDER MANAGEMENT SEATS/VACANT SEATS

- Composition of selection team for admission under Management Quota with the brief profiles of members (This information be made available in the public domain after the admission process is over)
- Score of the individual candidates admitted arranged in order of merit.
- List of candidates who have been offered admission
- Waiting list of the candidates in order of merit to be operative from the last date of joining of the first list candidates.
- List of the candidates who joined within the date, vacancy position in each category before operation of waiting list**. (Please see Annexure - 2)**

Not Applicable

XIV. INFORMATION ON INFRASTRUCTURE AND OTHER RESOURCES AVAILABLE LIBRARY:

- Number of Library books/Titles/Journals available (programme-wise)
- List of online National/International Journals subscribed.
- E-Library facilities

Number of Library Books, Volumes, Journals (Programme-wise) as on 31st Jan 2010

Sr. No	Course(s)	Books		Journals	
		Number of Titles	Number of Volumes	National	International
1	CE/IT	499	1276	14	3
2	Chemical	459	838	18	2
3	Chemistry	168	213	2	0
4	Civil	36	58	0	0
5	EC	410	986	9	1
6	Electrical	151	258	9	0
7	Eng/Eco	216	290	2	0
8	General	844	894	30	1
9	General Engineering	38	61	1	0
10	Mathematics	101	423	0	0
11	Mechanical	765	1436	19	1

12	Physical	60	96	0	0
13	Plastics	435	520	11	2
14	Proquest Science (Online Journals)				531
	Total	**4182**	**7349**	**115**	**541**

LIST OF NATIONAL PERIODICALS - 2010

Sr. No.	Name of Periodicals	Fre	Branch
1	Digit	M	CE
2	International Journal of Computer Science and Software Technology	BA	CE
3	International Journal of Computer Science and System Analysis	BA	CE
4	Journal of Hybrid Computing Research	BA	CE
5	Chemical Business	M	Chemical
6	Chemical World	BM	Chemical
7	Colourage	M	Chemical
8	Down to Earth	FN	Chemical
9	Indian Chemical Engineer	Q	Chemical
10	Journal of Environmental Science & Engineering	Q	Chemical
11	Indian Journal of Environmental Protection	M	Chemical
12	International Journal of Chemical Technology	BA	Chemical
13	Journal of Industrial Pollution Control	BA	Chemical
14	Modern Food Processing	BM	Chemical
15	Nandini Chemical Journal	M	Chemical
16	Soaps, Detergents & Toiletries Review	M	Chemical
17	Times Food Processing	BM	Chemical
18	Chemical Industry Digest	BM	Chemical
19	Chemical Product Finder	M	Chemical
20	Pollution Research	Q	Chemical
21	Ecology, Environment and Conservation	Q	Chemical
22	Industrial Safety Chronicles	Q	Chemical
23	Electronics Today	M	EC
24	IETE Journal of Research	BM	EC
25	IETE Technical Review	BM	EC
26	IETE Journal of Education	Q	EC
27	Int. Journal of Electronics and Communication Engineering	Q	EC
28	Int. Journal of Electronic Networks, Devices and Fields	Q	EC
29	Int. Journal of Microcircuits and Electronic	Q	EC
30	Int. Journal of Photonics	Q	EC
31	Int. Journal of Industrial Electronics and Control	Q	EC
32	Int. Journal of Electrical Engineering	Q	EE
33	Int. Journal of Electronic and Electrical Engineering	Q	EE
34	Int. Journal of Electrical and Computer Engineering	Q	EE
35	Journal of Electrical Engineering	M	EE

36	India Power	M	EE
37	IEEMA Journal	HY	EE
38	ELCINA Electronics Outlook	BM	EE
39	Power Line	M	EE
40	The ICFAI University Journal of Electrical & Electronics	Q	EE
41	The Journal of English Language Teaching	BM	Gen Engg
42	Engineering Advances	Q	Gen Engg
43	Asian Journal of Chemistry	Q	Gen Engg
44	Indian Literature	BM	Gen Engg
45	International Journal of Nanosystem and Theory	BA	Gen Engg
46	CSI Journal	Q	IT
47	CSI Communication	M	IT
48	Express Computer	W	IT
49	PC Quest	M	IT
50	Data Quest	M	IT
51	International Journal of Computers, Information Technology & Engg	HY	IT
52	International Journal of Computer Science & Information Technology	HY	IT
53	Journal of Software Engineering	HY	IT
54	International Journal of Emerging Technologies & Applications in Engineering, Technologies & Sciences	HY	IT
55	International Journals of Computer Applications in Engineering, Technology & Sciences	HY	IT
56	Science Reporter	M	Library
57	Annals of Library and Information Science	Q	Library
58	Vigyan Pragati (Hindi)	BM	Library
59	Tattvaloka	M	Library
60	Gandhi Marg	Q	Library
61	Indian Journal of Information Science and Services	Q	Library
62	Indian Journal of Engineering, Science and Technology	Q	Library
63	Research Digest	M	Library
64	Indian Journal of History of Science	Q	Library
65	Proceedings of INSA	Q	Library
66	Pratiyogita Darpan	M	Library
67	Success Mirror	M	Library
68	DESIDOC Bulletin of Information Technology	BM	Library
69	Prevention	M	Library
70	Travel Plus	M	Library
71	Mapana: Journal of Science	M	Library
72	Competition Science Vision	M	Library
73	Journal of IISC	Q	Library
74	Science, Technology and Society	HY	Library
75	Bulletin of Pure and Applied Sciences - Chemistry	HY	Library
76	Bulletin of Pure and Applied Sciences - Physics	HY	Library
77	Bulletin of Pure and Applied Sciences - Mathematics & Statistics	HY	Library

78	Library Progress	HY	Library
79	Sunday Indian	W	Library
80	GEO Magazine	M	Library
81	Vigyan Darshti	M	Library
82	World Digital Libraries	HY	Library
83	English Teaching Professionals	Q	Library
84	The ICFAI University Journals of Soft Skills	Q	Library
85	Discover	M	Library
86	Auto India	M	Mechanical
87	Indian Management	M	Mechanical
88	Industrial Engineering Journal	M	Mechanical
89	The Machinist	BM	Mechanical
90	Foundry	Q	Mechanical
91	Auto Monitor	FN	Mechanical
92	Search: the industrial sourcebook	M	Mechanical
93	Overdrive	M	Mechanical
94	Cooling India	BM	Mechanical
95	International Journal of Manufacturing Science & Technology	HY	Mechanical
96	International Journal of Mechanical Engineering	HY	Mechanical
97	International Journal of Materials Research	HY	Mechanical
98	Machinery and Engineering World	M	Mechanical
99	Commercial Vehicle	M	Mechanical
100	The ICFAI University Journals of Mechanical Engineering	Q	Mechanical
101	Solar Quarterly	Q	Mechanical
102	Urjavaran	BM	Mechanical
103	Disaster and Development	HY	Mechanical
104	IAPQR Transactions	BA	Mechanical
105	Medical Plastics Data Service	M	Plastics
106	Modern Plastics and Polymers	BM	Plastics
107	Popular Plastics and Packaging	M	Plastics
108	The ET Polymers	BM	Plastics
109	Plastic News	M	Plastics
110	Plastics Planet International	M	Plastics
111	Modern Plastics India	M	Plastics
112	Injection Molding World	M	Plastics
113	International Journal of Plastics Technology	BA	Plastics
114	Plastics For You	M	Plastics
115	Entrepreneur	M	Plastics

LIST OF INTERNATIONAL PERIODICALS - 2010

Sr. No.	Name of Periodicals	Fre	Branch
1	Chemical Product and Process Modelling	BM	Chemical
2	International Journal of Chemical Reactor Engineering	BM	Chemical
3	PC Magazine	M	CE
4	PC World	M	CE
5	SQL Server	M	CE
6	Everyday with Practical Electronics	M	EC
7	Alive	M	Library
8	Popular Mechanics	M	Mechanical
9	Modern Plastics Worldwide	M	Plastics
10	Injection Molding Magazine	M	Plastics

LIST OF ONLINE JOURNALS – PROQUEST SCIENCE

Sr. No.	Name of Periodicals
1	AACE International Transactions
2	ACI Materials Journal
3	ACI Structural Journal
4	AI Magazine
5	AIDS Education and Prevention
6	ASHRAE Transactions
7	Acta Meteorologica Sinica
8	Adhesives & Sealants Industry
9	Adolescent Psychiatry
10	Advanced Packaging
11	Aggregates & Roadbuilding
12	Agricultural Research
13	Agriculture Business Week
14	Agriculture Week
15	Agronomy Journal
16	Air & Space Power Journal
17	Air Power History
18	Aircraft Engineering and Aerospace Technology
19	Alcohol Research and Health
20	Alternative Therapies in Health and Medicine
21	Alternatives Journal
22	Ambio
23	American Annals of the Deaf
24	American Anthropologist
25	American Biology Teacher, The
26	American City & County, The
27	American Family Physician
28	American Forests
29	American Journal of Audiology
30	American Journal of Law and Medicine
31	American Journal of Psychiatry, The
32	American Journal of Psychotherapy
33	American Journal of Public Health
34	American Journal of Respiratory Cell and Molecular Biology
35	American Journal of Speech - Language Pathology

36 American Machinist
37 American Midland Naturalist, The
38 American Scientist
39 American Sociological Review
40 American Surgeon, The
41 American Water Works Association. Journal
42 Anaesthesia and Intensive Care
43 Analog Science Fiction & Fact
44 Annals of Dyslexia
45 Annals of Otology, Rhinology & Laryngology, The
46 Anthropological Quarterly
47 Anthropology and Education Quarterly
48 Anti - Corrosion Methods and Materials
49 Appropriate Technology
50 Aquatic Mammals
51 Archives of Environmental & Occupational Health
52 Archives of Pathology & Laboratory Medicine
53 Assembly
54 Astronomy
55 Australasian Physical & Engineering Sciences in Medicine
56 Australasian Science
57 Australian Journal of Anthropology, The
58 Australian Journal of Crop Science
59 Automotive Engineer
60 Automotive Industries
61 Behavioral Disorders
62 Behavioral Medicine
63 BioCycle
64 Biological Bulletin, The
65 Biopharm International
66 Bioscience
67 Biotechnologie, Agronomie, Société et Environnement
68 Bird Study
69 British Journal for the History of Science
70 British Journal of Biomedical Science
71 British Journal of Photography, The
72 Broadcast Engineering; World edition
73 Building Design & Construction
74 Bulletin of the American Meteorological Society
75 Bulletin of the History of Medicine
76 Business of Global Warming, The
77 California CPA
78 Canadian Geographic
79 Canadian Journal of Administrative Sciences
80 Canadian Journal of Dietetic Practice and Research
81 Canadian Journal of Experimental Psychology
82 Canadian Medical Association. Journal; CMAJ
83 Canadian Wood Products
84 Chemical Engineering
85 Chemical Engineering Progress
86 Chemical Week
87 Chemicals & Chemistry
88 Chemicals & Chemistry Business
89 Circuit World

90 Clinical Chemistry
91 Clinical Diabetes
92 Clinical Laboratory Science
93 Clinical and Investigative Medicine (Online)
94 Collection of Czechoslovak Chemical Communications
95 Compel
96 Compost Science & Utilization
97 Computer Business Week
98 Computer Graphics World
99 Computer Technology Journal
100 Computer Weekly News
101 Computers, Networks & Communications
102 Computerworld
103 Concrete International
104 Connector Specifier
105 Control Engineering
106 Corrosion
107 Corrosion Engineering, Science, and Technology
108 Crop Science
109 Cultural Anthropology
110 Current Science
111 Daedalus
112 Defense & Aerospace Business
113 Defense & Aerospace Week
114 Demography
115 Dermatology Times
116 Design News
117 Developmental Medicine and Child Neurology
118 Diabetes
119 Diabetes Care
120 Diabetes Forecast
121 Diabetes Spectrum
122 Diagnostic Imaging
123 Dr. Dobb's Journal
124 Drug Information Journal
12 E : the Environmental Magazine

EC & M; Electrical Construction and Maintenance

EContent

EDN

Ecology, Environment & Conservation

Ecology, Environment & Conservation Business

Electric Light and Power

Electronic Design

Electronics Business Journal

Electronics Newsweekly

Endangered Species Update

Energy & Ecology

Energy & Ecology Business

Energy Business Journal

Energy Engineering

Energy Risk

Energy Weekly News

Engineer

Engineer, The

Engineered Systems

Engineering Business Journal

Engineering Computations

Engineering Management Journal; EMJ

Engineering and Mining Journal

Engineering, Construction and Architectural Management

Environment

Environmental Design + Construction

Environmental Engineering

Environmental History

Environmental Practice

Environmental Reviews

Environmental Toxicology and Chemistry

6	
15	
7	Ethics & Medicine
15	
8	European Journal of Control
15	
9	Facilities
16	
0	Focus on Autism and Other Developmental Disabilities
16	
1	Folia Zoologica
16	
2	Food & Farm Week
16	
3	Food Business Week
16	
4	Food Engineering
16	
5	Food Weekly Focus
16	
6	Food Weekly News
16	
7	Food and Beverage Close - Up
16	
8	Forest Science
16	
9	Futurist, The
17	
0	Genetics
17	
1	Geodinamica Acta
17	
2	Geographical Journal, The
17	
3	Geographical Review
17	
4	Geolines
17	
5	Germanic Review, The
17	
6	Gerontologist, The
17	
7	Global Warming Focus
17	
8	Gulf Construction
17	
9	HVAC&R Research
18	
0	Hastings Center Report, The
18	
1	Health Data Management
18	
2	Heating/Piping/Air Conditioning Engineering : HPAC
18	
3	Human Biology
18	
4	Human Ecology; Ithaca
18	
5	Human Events
18	
6	Human Life Review
18	Humanitas

Hydraulics & Pneumatics

Hydrocarbon Processing

IBM Systems Journal

ISHN

In Vitro Cellular & Developmental Biology; Animal

In Vitro Cellular & Developmental Biology; Plant

InTech

Indian Journal of Human Genetics

Industrial Engineer

Industrial Environment

Industrial Robot, The

Information Technology Business

Information Technology Newsweekly

InformationWeek

Institute of Transportation Engineers. ITE Journal

Integrated Environmental Assessment and Management

Interfaces

International Angiology

International Journal of Astrobiology

International Journal of Clothing Science and Technology

International Journal of Communication Networks and Information Security

International Journal of Communications, Network and System Sciences

International Journal of Electrical Engineering Education

International Journal of Energy Sector Management

International Journal of Engine Research

International Journal of Forming Processes

International Journal of Intelligent Computing and Cybernetics

International Journal of Mathematical Combinatorics

International Journal of Mechanical Engineering Education

International Journal of Modelling & Simulation

International Journal of Numerical Methods for Heat & Fluid Flow

International Journal of Occupational and Environmental Health

International Journal of Power & Energy Systems

International Journal of Robotics & Automation

International News on Fats, Oils and Related Materials : INFORM

Internet Business Newsweekly

Internet Networks & Communications

Internet Weekly News

Issues in Innovation

Issues in Science and Technology

JAOCS, Journal of the American Oil Chemists' Society

JITTA : Journal of Information Technology Theory and Application

JOM

Journal of Air Transportation

Journal of Alcohol and Drug Education

Journal of Applied Meteorology and Climatology

Journal of Applied Non - Classical Logics

Journal of Architectural Coatings

Journal of Atmospheric and Oceanic Technology

Journal of Biomedical Science and Engineering

Journal of Building Appraisal

Journal of Climate

Journal of Coastal Research

Journal of Commercial Biotechnology

Journal of Computational Finance, The

Journal of Computer Information Systems, The

Journal of Computers in Mathematics and Science Teaching, The

Journal of Decision Systems

Journal of Drug Issues

Journal of Electrocardiology

Journal of Electromagnetic Analysis and Applications

Journal of Electronic Defense

Journal of Energy Markets, The
Journal of Engineering
Journal of Engineering Education
Journal of Engineering Technology
Journal of Environmental Education, The
Journal of Environmental Health
Journal of Environmental Quality
Journal of Farming
Journal of Forestry
Journal of General Psychology, The
Journal of Genetic Psychology, The
Journal of Geoscience Education
Journal of Geosciences
Journal of Laryngology and Otology, The
Journal of Mammalogy
Journal of Mathematics
Journal of Mental Health Counseling
Journal of Motor Behavior
Journal of Natural Resources and Life Sciences Education
Journal of Navigation, The
Journal of Neurologic Physical Therapy
Journal of Neuropathology and Experimental Neurology
Journal of Nuclear Medicine Technology
Journal of Nuclear Medicine, The
Journal of Nutrition, The
Journal of Orthopaedic Surgery
Journal of Paleontology
Journal of Parapsychology, The
Journal of Pediatric Ophthalmology and Strabismus
Journal of Personality Disorders
Journal of Physical Oceanography

Journal of Physics Research
Journal of Protective Coatings & Linings
Journal of Psychiatry & Neuroscience : JPN
Journal of Psychoactive Drugs
Journal of Psychology, The
Journal of Quality Technology
Journal of Quality in Maintenance Engineering
Journal of Rehabilitation
Journal of Rehabilitation Research and Development
Journal of Research of the National Institute of Standards and Technology
Journal of Robotics & Machine Learning
Journal of STEM Education : Innovations and Research
Journal of Service Science and Management
Journal of Social Psychology, The
Journal of Social and Clinical Psychology
Journal of Software Engineering and Applications
Journal of Speech, Language, and Hearing Research
Journal of Sports Medicine and Physical Fitness
Journal of Strain Analysis for Engineering Design, The
Journal of Strength and Conditioning Research
Journal of Surfactants and Detergents
Journal of Systemic Therapies
Journal of Technology
Journal of Technology & Science
Journal of Technology Management in China
Journal of Transportation
Journal of Vinyl & Additive Technology
Journal of Water Resource and Protection
Journal of Wildlife Management
Journal of the Air & Waste Management Association
Journal of the American Academy of Psychoanalysis and Dynamic Psychiatry

Journal of the American Water Resources Association

Journal of the Atmospheric Sciences

Journal of the Geological Society

Journal of the National Medical Association

Journal of the Torrey Botanical Society

Journals of Gerontology, The; Series A; Biological sciences and medical sciences

Journals of Gerontology, The; Series B; Psychological sciences and social sciences

Lancet, The

Laser Focus World

Learning & Behavior

Lighting Design + Application

Lightwave Europe

Machine Design

Management Science and Engineering

Manufacturing Business Technology

Manufacturing Close - Up

Manufacturing Engineering

Marine Technology and SNAME News

Mass Transit

Material Handling Management

Materials Performance

Materials Science and Technology; MST

Materials World

Mathematics Week

Mayo Clinic Proceedings

Mechanical Engineering

Medical Anthropology Quarterly

Metallurgical and Materials Transactions; A; Physical Metallurgy and Materials Science

Metallurgical and Materials Transactions; B; Process Metallurgy and Materials Processing Science

Microelectronics International

Microwave Journal; International ed.

Microwaves & RF

Midcontinental Journal of Archaeology, MCJA

Middle East Interiors

Military Medicine

Minerals & Metallurgical Processing

Mining & Minerals

Mining & Minerals Business

Mining Engineering

Modern Casting

Modern Machine Shop

Modern Materials Handling; Warehousing Management Edition

Monthly Weather Review

Mountain Research and Development

NFPA Journal

Nanotechnology Business Journal

Nanotechnology Weekly

National Parks

Natural History

Nature

Near Eastern Archaeology

Network Business Weekly

Network Weekly News

Network World Middle East

Neural Network World; International Journal on Neural and Mass - Parallel Computing and Information Systems

New England Journal of Medicine, The

New York State Conservationist

News of Science

NewsRx Health

NewsRx Health & Science

NewsRx Science

Nuclear Plant Journal

OTJR; Occupation, Participation and Health

Ocean Dynamics

Ocean News & Technology

Oceanus

Offshore

Oil & Gas Journal

Oil & Gas News

Ophthalmic Surgery, Lasers and Imaging

Ophthalmology Times

Orthopedics (Online)

PC World

PT; Magazine of Physical Therapy

Pacific Science

Paper, Film and Foil Converter

Pediatric Annals

Penton's Welding Magazine

Personal Computer World

Perspectives in Biology and Medicine

Perspectives in Psychiatric Care

Petroleum Accounting and Financial Management Journal

Pharmaceutical Technology

Photochemistry and Photobiology

Phycologia

Physical Therapy

Physics Week

Pigment & Resin Technology

Pipeline & Gas Journal

Plant Cell

Plant Engineering

Plant Omics

Plant Physiology

4	
40	
5	Plastics Engineering
40	
6	Plastics Technology
40	
7	Polar Record, The
40	
8	Pollution Engineering
40	
9	Polymer Composites
41	
0	Polymer Engineering and Science
41	
1	Popular Science
41	
2	Portable Design
41	
3	Powder Metallurgy
41	
4	Power
41	
5	Power Engineering
41	
6	Power Engineering International
41	
7	Prehospital Emergency Care
41	
8	Prevention
41	
9	Primus : Problems, Resources, and Issues in Mathematics Undergraduate Studies
42	Proceedings of the Institution of Mechanical Engineers; Part E; Journal of Process Mechanical
0	Engineering
42	
1	Proceedings of the Institution of Mechanical Engineers; Part F; Journal of Rail and Rapid Transit
42	
2	Proceedings of the Institution of Mechanical Engineers; Part H; Journal of Engineering in Medicine
42	Proceedings of the Institution of Mechanical Engineers; Part I; Journal of Systems and Control
3	Engineering
42	
4	Proceedings of the Institution of Mechanical Engineers; Part J; Journal of Engineering Tribiology
42	
5	Proceedings of the Institution of Mechanical Engineers; Part K; Journal of Multi - Body Dynamics
42	Proceedings of the Institution of Mechanical Engineers; Part M; Journal of Engineering for the
6	Maritime Environment
42	Proceedings of the Institution of Mechanical Engineers; Part N; Journal of Nanoengineering and
7	Nanosystems
42	
8	Proceedings of the Institution of Mechanical Engineers; Part O; Journal of Risk and Reliability
42	
9	Process Engineering
43	
0	Professional Animal Scientist
43	
1	Professional Engineering
43	
2	Professional Safety
43	
3	Progress in Physics
43	
4	Psychiatric Annals
43	Psychiatry

Psychoanalytic Review
Psychological Record, The
Psychology Science
Psychology Today
Psychosomatics
Public Roads
QST
Quality Progress
Quarterly Journal of Nuclear Medicine and Molecular Imaging, The
Quarterly Reviews of Biophysics
Real Analysis Exchange
Regional Anesthesia and Pain Medicine
Rehabilitation Oncology
Research Quarterly for Exercise and Sport
Research Technology Management
Research in Phenomenology
Reseaux
Resource Week
Review of Metaphysics, The
Revista Cartográfica
Risk Management; Basingstoke
Road Materials and Pavement Design
Robotics & Machine Learning
Rock Products
Rocks and Minerals
Rural Sociology
SC Magazine
SMT
Safety & Health Practitioner, The
Science & Society
Science Activities

Science News

Science World

Scientia Magna

Scientific Bulletin Series C : Fascicle Mechanics, Tribology, Machine Manufacturing Technology

Scientist, The

Scitech Book News

Sea Technology

Security Journal

Semiconductor International

Sensor Review

Sensors & Transducers

Skeptic

Social Behavior and Personality

Social Psychology Quarterly

Social Research

Sociological Methodology

Sociological Theory

Soil Science Society of America Journal

Soldering & Surface Mount Technology

Solid State Technology

Sound and Vibration

South African Journal of Industrial Engineering

Southern Journal of Applied Forestry

Spectroscopy

Stapp Car Crash Journal

Structural Survey

T + D

TechTrends

TechWeb

Technology & Business Journal

Technology News Focus

Technology Review
Technology and Culture
Technometrics
Telecommunications Business
Telecommunications Weekly
Test & Measurement World
Textile Research Journal
Textile World
Theoretical and Empirical Researches in Urban Management
Tooling & Production
Total Health
Transforming Anthropology
Transportation Business Journal
Transportation Science
Tribology & Lubrication Technology
Tribology Transactions
Turbomachinery International
UMTRI Research Review, The
Undersea & Hyperbaric Medicine
Veterinary Medicine
Veterinary Research Week
Veterinary Week
Visible Language
Vision Systems Design
WEF Highlights
Wall Street & Technology
Water Environment Research
Weatherwise
Wilson Journal of Ornithology, The
Wired
Wireless Sensor Network

8 52 World Oil

9 53 World Watch

0 53 Worldwide Biotech

1

e-library

The front end of the e-library of the Institute of Diploma Studies is the web portal of the University. The portal is available online 24X7 at

http://library (Intranet) http://library.nirmauni.ac.in (Internet)

The library portal facilitates access to digital resources like journals, magazines, videos, CDs, Exam Papers, etc and also provides all relevant and useful information about the library in addition to linking the Central Library Resource Center of the University. The user friendly access to all web resources through the portal is IP authenticated. The Online Public Access Catalogue (OPAC) link on the portal provides facility to search the books database of the library and indicates the availability of the resource. The OPAC is also available in web based module providing remote access to the books database. The Web OPAC is available online 24X7 at

http://10.1.11.223 (intranet) http://webopac.nirmauni.ac.in (Internet)

1. Online Journals
   The library subscribes to a number of full text online journals in the filed of science and technology. These important journals are accessible within Nirma University Campus

   - Proquest Science (530 online Journals)

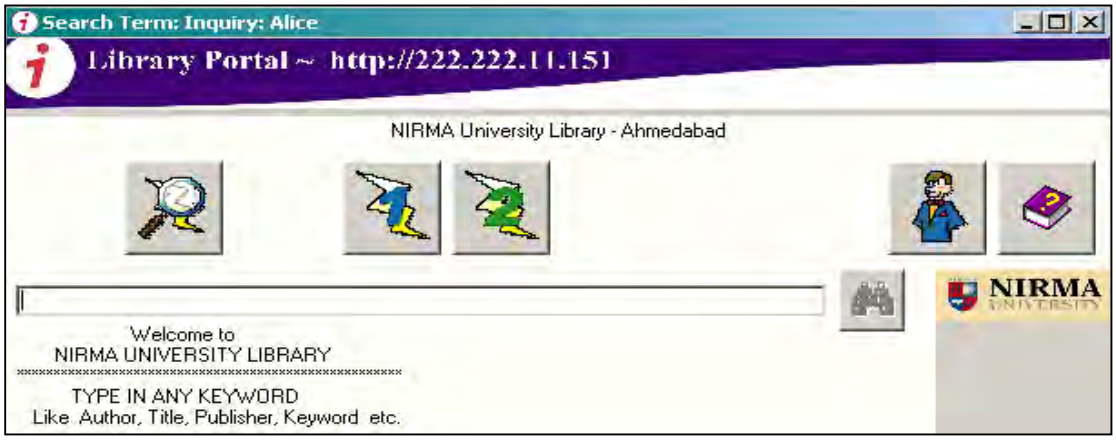
2. CD ROM Library
   The CD Rom received along with books/journals/conference proceedings is available in the reference section and the facility can be availed from 9.00 am to 6.00 pm on all working days. All purchased CDs can be accessed through our server

3. Videocassettes (VCDs)
   All Videocassettes are available in digital form and can be accessed through our server on the library portal.

Digital Library

Keeping in tune the global developments we are creating an institutional repository using DSpace Software (Digital Library Software). We are inputting institutional information like, exam papers, faculty articles, thesis, and dissertation in PDF format, photo albums at DSpace. Students can access these digital information any where in the campus through our server.

Library Software – Alice for Windows



The Institute of Technology Library is fully computerized with user-friendly library software called **Alice for Windows (AfW)**. The system consists of modules on book Acquisition Circulation, Periodical, OPAC etc. In addition to this the software facilitates biometric identification of users, provided efficient resource management system and generates useful management information for effective decision making

Apart from this, the center has also adopted latest information technology mediums like CD, DVD, Multimedia Kits, Bar-Code Scanners, Text as well as Graphic Scanners and biometric readers for the convenience of the participants.

University Libraries Integration

As most of the information and processes are automated and available digitally the Library portal has been integrated with the other libraries on campus like the Technology, Management, Pharmacy, and Law. The digital resources subscribed by these libraries are also available to the students of the Institute of Diploma Studies.

LABORATORY:

Chemical Engineering

Sr. No.	Name of the Course	Major equipment
1.	Chemical Process Technology – I & II	Ion Exchanger (Softer), Spectro photometer, Batch Reactor, Glass ware for experiments, Heating mantle oven, Muffler furnace
2.	Fluid Flow Operation	Piping system, Friction Factor evaluation, Pumps, Compressors, Flow measuring devices, Agitator & mixers.
3.	Mechanical Operation	Particle size analysis – sieve shaker, Size reducers – Jaw crusher & Roll crusher, Ball mill, Plate & Frame filter press, Leaf filter, Solid-Solid mixer. Vacuum Nutch , cyclone separator, etc
4.	Heat Transfer	Insulation & lagging study apparatus (Insulating powder), Various Heat Exchangers like Spiral Tube Heat Exchanger, shell & tube Heat Exchanger, Countercurrent and Co current Flow Heat Exchanger, Study of Conduction through composite wall, metal rod, etc & Free and Forced Convection through a cylinder, Emmisivity measurement, etc
5.	Mass Transfer – I & II	Apparatus for the measurement of gas and liquid diffusivities, Wetted wall Column, Adsorption on solids, Gas absorption in packed tower, Vapor Liquid Equilibria apparatus, Batch distillation, Continuous distillation, Dryers, Crystallizes & Packed column Liquid-Liquid Extraction.
6.	Chemical Process Control & Instrumentation	Response of different orders system to step input & impulse input,, Interacting & Non-interacting system, Temperature measurement by RTD, thermocouople, thermistor,etc., Control valve etc.
7.	Petroleum Refining& Petrochemicals	ASTM distillation, Flash point , Fire point, Cloud point & pour point ,smoke point apparatus, Viscometer, & Penetration index etc.
8.	Pollution Control and Waste Disposal	DO Analyzer, BOD incubator, COD apparatus, Air sampling train, Hi-Volume Air Sampler, Lab Scale ETP.

Mechanical Engineering

S.No	Name of Course	Name of the laboratory / Workshop	Total area of lab/workshop(sq m.)	Major equipment
1	Metrology & Quality Control	Metrology & Quality Control	1287	Dial Gauge Calibration Tester, Surface Roughness Tester, Profile Projector, Slip Gauges block set (112 pcs.), Tool Maker's Microscope, Electronic Comparator, Digimatic Caliper, Lever type dial indicator
2	Materials Technology	Materials Technology (W Block)		Metallurgical Microscopes with CCTV, Ultrasonic Flaw Detector, Hardness Tester and Muffle Furnace
3	Manufacturing Process – I, II, III	Manufacturing Process – I, II, III (W Block)		Milling Machine, Planing Machine, Automatic Lathe, Radial Drilling Machine, Electric Discharge Machine, Shaping Machines (2 Nos.), A.C. and D. C. Arc Welding setup, Spot and Butt Welding Machine, Universal Woodworking Machine, MIG/MAG welding setup, Sand Testing Equipments, Engine Lathes - Kirloskar make (13Nos.), Pillar Type Drilling Machines (3 Nos.), Capstan Lathe, Starturn HMT CNC Lathe, PC with Master CAM software
4	Advance Manufacturing Tech.	Advance Manufacturing Lab.		
5	CAD/CAM	CAD/CAM Lab.		NT Server, 33 Terminals, 20 Licenses of Pro/ENGINEER software with 73 modules, 20 Licenses of AutoCAD software, 5 Licenses of ANSYS software, 1 License of IDEAS software, Video projector (LCD)
6	Thermal Engineering I & II	Thermal Engineering I & II Lab.	162	Models of Lancashire, Cornish, Cochran and Babcock & Wilcox Boiler, Models of two stroke and four stroke petrol and diesel engines, Cut section of 4-cylinder Engine with Pump and Injectors, Multi Cylinder Petrol Engine Test Bench, Two Stroke Petrol Engine Test Bench, Four Stroke Diesel Engine Test Set Up, Kirloskar Diesel Genset with Test Set Up, Shriram Honda Portable Genset with Test Set Up, Chassis of Premier Fiat Car, Steering Gear box and Braking Assemblies and Fuel Pumps, Air Compressor and Bomb Calorimeter
7	Mechanism	Mechanism Lab.	81	Dynamic Balancing Machine, Motorized Gyroscope, Universal Governor Apparatus, Cam Analysis Apparatus, Universal Vibration Apparatus
8	F.M.H.M.	F.M.H.M. Lab	324	Centrifugal Pump Test Rig, Francis Turbine, Gear Oil Pump Test Rig, Dead Weight Pressure Gauge Tester, Pelton Wheel Test Rig, Reynolds Apparatus, Plunger pump test ring

9	Strength of Materials	Strength of Materials Lab.	162	Universal Testing m/c., Brinell Hardness Testing m/c., Rockwell Hardness Testing m/c., Vicker Hardness Testing m/c., Izod Impact Testing m/c.
10	E.M.E.I.	E.M.E.I. Lab.	162	Function Generators, Digital Cathode Ray Oscilloscope, Various DC Machines (3HP,230V,1500rpm), 3-phase Induction Motor (3HP,400V,1500rpm), 1-phase Transformers (1.5KVA, 230/115V), Single phase Auto Transformers(230V, 8A-15A)
		Total area (sqm.)	2178	

Plastic Engineering Department

Sr. No.	Name of Course	Name of Laboratory/Workshop	Total Area of lab/workshop	Major Equipments
1	Plastic Processing Technology – I	Plastic Processing Lab.	243	Injection molding machine 2 Polymech Machine Pvt. Ltd., Baroda, Gujarat
2	Plastic Processing Technology – II			Injection molding machine 1, DGP Windsor (I) Ltd., Chhatral, Gujarat
3	Plastic Processing Technology – III			Kolsite Extrusion, Kolsite Machines Fabric Ltd. , Nani daman, Gujarat, India
4	Maintenance of Plastic Processing Equipments			Blow molding machine, Ahura Industrial Engineers, Mumbai
				Ultrasonic welding machine Roop Telsonic Ultrasonic Limited, Gandhinagar
				Rotational molding machine Jay Yogeshver Industries, Kalol, Ahmedabad
5	Polymer Chemistry – II	Plastic Testing Laboratory	81	Density column, Deepak Electronics Pvt. Ltd., Ahmedabad, Gujarat
6	Technology of Plastics			Tensile test Equipment, Dutron Products
7	Testing of Plastic Materials			HDT-VSP testing Machine, Deepak Electronics Pvt. Ltd., Ahmedabad, Gujarat
				Izod impact Tester, Vee Tex Polyurethane products, Ahmedabad
8	Hydraulics & Pneumatics	Plastic Hydraulic Laboratory	81	Hydraulic Trainer, Bosch Rexroth (I) Ltd., Ahmedabad, Gujarat
				Auto desk Software, Roshani Computer Services
9	Polymer Chemistry – I	Chemical Laboratory	81	
10	Computer Programming	Computer Laboratory	32	
11	Auto CAD			
12	Computer Application			
13	Computer Aided Mould Design	CAD/CAM Laboratory W-Block	144	

Electrical Engineering

Sr.No.	Name of Course	Name of Laboratory/ Work shop	Total Area of Lab(Sq M)	Major equipments
1	1EEB02 Fundamentals of Electrical Engineering	Elements of Electrical Engg.Lab (D-101)	81	• Function Generators • Digital Cathode Ray Oscilloscope • Basic circuit Theory Trainer kits • Electrical Wiring Demonstration Kits • Digital Insulation Tester • Oil Test Set • Rod Gap Apparatus • Grounding Rods • Generator Protection Relay • Transformer Relay • Over Current, Differential, over voltage Relay • Motor protection relay • Over current relay test set (Type CFB MK II) • Current Transformers • C.T. test Bench • Maxwell's Bridge • Wein Bridge • Anderson Bridge • Desauty's Bridge • Power Factor Meter • Various DC Machines (3HP,230V,1500rpm) • Various 1-phase Motors • 3-phase Induction Motor (3HP,400V,1500rpm) • Alternators (3HP,400V,1500rpm) • Synchronous Motors(3HP,415V,1500rpm) • Synchronisation Panel for parallel operation • 1-phase Transformers (1.5KVA, 230/115V) • 3-phase Transformers (5KVA, 400/230V) • Single phase Auto Transformers(230V, 8A-15A) • 3-phase Auto Transformers (400V,15A) • Oil cooled Transformers (6.93KVA, 8.3KVA) • 3 phase load • 1 phase load electrical motor checker wire wound rheostat
2	1EEB03 A.C. Fundamentals & Circuits			
3	EEB07 Generation, Transmission & Distribution Of Electrical Power			
4	1EEA01 Switchgear & Protection			
5	1EEA07 Electrical Estimating, Costing & Contracting			
6	1EEB04 Electrical Measurement and Measuring Instruments	Electrical Measurement & Network Lab (D-102)	81	
7	1EEA05 Power Electronic Devices & circuits			
8	1EEB10 Electrical Engineering Material & Components			
9	1EEB05 Electrical Machine – I	Electrical Machine Lab (D-104)	243	
10	1EEB06 Electrical Machine– II			
11	1EEB08 Basic Electronics	ElectronicsLab (D-201)	81	
12	1EEA02 Industrial Instrumentation & Control	Instrumentation and Control Lab (D-109)	81	
13	1EEA06 Digital Electronics & Microprocessor	Hardware Lab (D-207)	81	
14	1CEH06 Computer Programming	Computer Lab (C-111)	162	156 computer
15	1EEB09 Computer Aided Electrical Drawing, Drafting & Simulation			

COMPUTER ENGINEERING & INFORMATION TECHNOLOGY

Sr. No	Name of the Course	Name of the Laboratory/ Workshop	Total area of Lab. / Workshop	Major Equipments

1.	1. Computer Application 2. Internet Application 3. Auto CAD (EMDC) 4. Comp. Programming 5. CA ED DS 6. Programming Methodology 7. ITP 8. Web Technology 9. RDBMS 10. MIS 11. Operating Systems 12. CST 13. SNA 14. OOPS 15. DSA 16. Com. Fundamental 17. Java 18. CSAI 19. Project Work 20. TCP / IP Network 21. E-com, E-Business 22. SAD 23. Data Communication	C-1111 C-1112 C-1113 C-1114 C-1115 ** Each of 20 students capacity	18 X 9 – 162 Sq. Mtr	**Hardware:** 54 P-IV Computers 56 Core To Duo Computers 3 Dual Processor Servers 4 Dot Matrix Printers 2 Network Switch 7 Network Hub 1 Nortel Switch with Fiber option 1 D-Link websmart switch DES-1228 28 Port **Software:** Windows 2003 Server Windows 2000 Windows 7 Windows XP Linux Fedora Borland C, C++ Oracle 8i Java j2sdk1.4 Visual Studio 6.0 Visual Studio2005 PHP,Mysql Office XP Flash Photoshop FrontPage 2003 Autodesk AutoCAD 2009 Electrical AutoCAD 2009 Mechanical
2.	1. English 2. Computer Application 3. Comp. Programming 4. Project and Web technology	C-201-C C-201-D C-201E ** Each of 20 students capacity	108 Square Meaters	**Hardware:** Core 2 Duo 22, 30 P-IVComputers 16 P-III Computers 3 Network Switches **Software:** Windows XP Windows 7 Windows 98 English Software Clarity Borland C, C++ Office XP Visual Studio 6.0 Visual Studio 2005 PHP, MySql Java j2sdk1.4

Equipment required in Laboratory of COA.

1. Logic Trainer-5
2. IC's
   - Basic Gates : 7400, 7402, 7408,7432,7486,7404}20
   - Flip. Flops : 71112 & 7474}10
   - Shift Register : 74194 } 10
   - Parallel Binary Address: 7483 } 10
   - Multiplexer : 74151}10
3. Connecting Wires.

ELECTRONICS AND COMMUNICATIONS

S.No	Name of Course	Name of the laboratory/ Workshop	Total area of lab / Wksp (sqm.)	Major equipment
*1	Electronics Device & Circuits	Analog Lab	162	C.R.O., Digital Multimeter, Volt Meter, Ammeter LCR Tester, Meter, Function generator, Boards for study all type of Transistor & Amplifier characteristic, Different Circuits boars for Bridges & Multi vibrator, CRO demonstration kit
*2	Linear Integrated Electronics			
*3	Electronics Instruments & Measurements			
*4	Project work			
*5	Digital Electronics	Digital Lab	81	Bread Board, Trainer board, Digital Oscilloscope, Digital IC Tester
*6	Microprocessor Architecture & Interfacing	Microprocessor Lab	81	Microprocessor 8085 Kits, Interfacing Kits – 8255, 8253, ADC 0808 Kits, EPROM Programmer
*7	Fiber Optics Communication	Fiber Electronics Lab	81	Fiber Optic Trainer Kit, Fiber Optic Spcilic
*8	Television Engineering	T.V. & Audio Lab	81	Black & White Television Trainer, Colour TV Pattern Generator, Wobbulloscope, Separate sections of colour & Black-White TV Trainers for practicals
*9	Communication Engineering – I & II	Communication Engineering Lab	162	Spectrum Analyzer, Digital Communication System trainer, All type of Modulation & Demodulation System Trainer, All type of Transmitter & Receiver Trainer, Antenna System Trainers, Microwave Engineering, All type of Microwave Benches
10	Antenna & Microwave Engineering			
11	Advance Communication Technology			
*12	Industrial Electronics	Power Electronics Lab	81	CRO, Power Supply and & special trainers kits for practical based on SCR, TRIAC, DIAC, IGBT, MOSFET, Boards for SCR characteristics, UJT as a relaxation oscillator
13	Power Electronics			
*14	Electronics Workshop	Electronics Workshop	81	Trainer Boards, CRO, Function Generator, Digital Multi meter
#15	Computer Network	Computer Lab	162	Computers, Hubs, Switches
		Total area (sqm.)	**1053**	

* On sharing basis with Institute of Technology, Nirma University

LIST OF EXPERIMENTAL SET UP:

CHEMICAL ENGINEERING

1) Chemical Process Technology- I

1. Volumetric method of Analysis- I
2. Estimation of Na_2CO_3 content in washing soda
3. Preparation of Caustic Soda
4. Raw Water Analysis- Determination of Hardness
5. $CaCO_3$ Content in limestone
6. Cement analysis – estimation of ion.
7. Proximate analysis of coal.
8. Available chlorine in bleaching powder.
9. Analysis of Gamaxin powder
10. Determination of total solids

2) Chemical Process Technology- II

1. Saponification value of oil
2. Acid value of oil.
3. Iodine value of oil
4. Preparation of azo dye
5. Preparation of aspirine
6. Preparation of Soap
7. Active content of detergent
8. Analysis of sugar
9. Preparation of Salicylic acid.
10. Analysis of Soap

3) Pollution Control and waste Disposal

1. To calculate dissolved oxygen in waste water sample
2. To calculate BOD in waste water sample
3. To calculate COD in waste water sample
4. Determine the PH of an effluent water
5. To determine Hardness of effluent water
6. To determine chlorine content in an effluent sample
7. To determine Noise level
8. To determine sulphate content in effluent sample
9. To find turbidity in waste water sample.
10. To calculate acidity and alkalinity of waste water sample.

4) Mass Transfer -I

1. Diffusivity of Benzene in Air
2. Temperature Dependency of Diffusivity of Benzene in Air
3. Mass Transfer Coefficient
4. Study of Sublimation of Naphthalene in Air
5. Wetted Wall Column
6. Humidification Operations
7. Study of Operation and Characteristics of Sieve Tray
8. Study of Operation and Characteristics of Packed Column
9. Interfacial Mass Transfer for a non reacting system
10. Diffusion coefficient of Acetic acid in water

5) Mass Transfer- II

1. Differential Distillation
2. Steam distillation
3. Crystallization of benzoic acid
4. Crystallization of Alumn (with seeding)
5. Extraction of Benzoic Acid

6. Single Stage Extraction
7. Single Stage Leaching
8. Atmospheric Dryer
9. Freundlich Isotherm (Ordinary Temperature)
10. Freundlich Isotherm (Elevated Temperature)

6) Mechanical Operation

1. Sieve Shaker
2. Jaw Crusher
3. Roll Crusher
4. Ball Mill
5. Sigma Mixer
6. Ribbon Blender
7. Filter Press
8. Sedimentation
9. Floatation
10. Cyclone Separator

7) Heat Transfer Operation

1. Heat Transfer through Two slab guarded plate
2. Heat Transfer through Composite Wall
3. Heat Transfer through Metal rod
4. Heat Transfer through Insulating Powder
5. Heat Transfer by Forced Convection through Cylinder
6. Heat Transfer by Natural Convection on Cylinder
7. Heat Transfer by Radiation through Discs
8. Parallel and Counter flow Heat Exchanger
9. Shell and Tube Heat Exchanger
10. Study of Stefan Boltzmann Law
11. Derive Heat Transfer Coeff. In Acralic Shell & Tube Heat Exchanger

8) Chemical Process Control & Instrumentation

1. Study of response of thermocouple
2. Study of resistance temperature detector (RTD)
3. Study of first order dynamic response Of thermometer.
4. Calibration of thermistor.
5. To determine the time constant of first order system. (thermometer)
6. To study level measurement by air purge method
7. First order mixing process
8. Non - interacting system
9. LIQUID LEVEL SYSTEM
10. Measure linear displacement using L.V.D.T.

9) Fluid Flow Operations

1. U-tube manometer
2. Reynolds apparatus
3. Bernoulli's equation
4. Venturimeter
5. Orificemeter
6. Rotameter
7. Triangular notch
8. Redwood viscometer
9. Determination of minor losses, Friction in close conduit

Mechanical Engineering Department

1. Materials Technology

2. Manufacturing Process – I

3. Manufacturing Process – II

4. Manufacturing Process – III

5. Advance Manufacturing Technology

6. Metrology & Quality Control

7. Thermal Engineering I & II and IC Engineering

8. Fluid Mechanics and Hydraulic Machines.

9. Shop Skills

10. Fundamentals of Maintenance Engineering

PLASTIC ENGINEERING

1. Plastic Processing Laboratory:

List of Major Equipment/Facilities:

- Injection molding machine ,Polymech Machine Pvt. Ltd., Baroda, Gujarat
- Injection molding machine 1,DGP Windsor (I) Ltd., Chhatral, Gujarat
- Kolsite Extrusion, Kolsite Machines Fabric Ltd. , Nani daman, Gujarat, India
- Blow molding machine, Ahura Industrial Engineers, Mumbai
- Ultrasonic welding machine, Roop Telsonic Ultrasonic Limited, Gandhinagar
- Rotational molding machine, Jay Yogeshver Industries, Kalol, Ahmedabad

List of Experimental Setup:

- Construction and working of a reciprocating screw type injection molding machine.
- Basics construction of Extruder.
- Loading & unloading of mold on injection molding machine
- Extrusions die.
- Carry out the production of blown film and to determine the rate of production.
- Manufacturing of PVC pipe by extrusion process
- To study Thermoforming technique
- Construction of AHURA Blow moulding machine
- Operation of blow moulding machine
- Construction of Rotational Moulding machine
- To study the effect of process parameters on pipe production
- Operation of rotational moulding machine
- Maintenance of the Extruder.
- Effect of process parameters on blown film
- Fabrication of FRP sheet by Hand lay up technique
- Hot stamping operation
- Compression moulding process
- Screen Printing
- Construction & operation of Ultrasonic welding machine
- Welding techniques for plastic products

2. Plastic Testing Laboratory:

List of Major Equipment/Facilities:

- Density column, Deepak Electronics Pvt. Ltd., Ahmedabad, Gujarat
- Tensile test Equipment, Dutron Products
- HDT-VSP testing Machine, Deepak Electronics Pvt. Ltd., Ahmedabad, Gujarat
- Izod impact Tester, Vee Tex Polyurethane products, Ahmedabad
- Muffle furnace, Vindish Associates, Ahmedabad
- Melt flow Index, Deepak Electronics Pvt. Ltd., Ahmedabad
- Environmental Stress Cracking Resistant, Nova Instruments, Ahmedabad
- Carbon Black Content, Deepak Electronics Pvt. Ltd., Ahmedabad

- Taber Abrasion, Impex Instruments, Ahmedabad
- Co-efficient of Friction Deepak Electronics Pvt. Ltd., Ahmedabad,
- Gloss meter, Vindish Associates, Ahmedabad
- Carbon Black Dispersion, Deepak Electronics Pvt. Ltd., Ahmedabad
- Opacity tester, student project
- Dart Impact Tester, student project

List of Experimental Setup:

- Softening range and melting point of a given plastic material..
- Determining Ash content in plastic material.
- Determining the Melt Flow Index (Melt flow Rate) of given plastic material
- Measuring the water absorption in plastic material
- Measuring Tensile strength of given plastic material
- Measuring Opacity of plastic material.
- Measuring Gloss of plastic material.
- Determine Density of plastic material.
- Determine Abrasion resistance of plastic material.
- Determine Heat deflection Temperature & vicat Softening Point.
- To measure co-efficient of friction of plastic film.
- To determine Izod Impact strength of plastic material.
- Determining Environmental Stress Cracking Resistance of Plastic.

3. Plastic Hydraulic Laboratory:

List of Major Equipment/Facilities

- Hydraulic Trainer
  Bosch Rexroth (I) Ltd., Ahmedabad, gujarat
- Auto desk Software
  Roshani Computer Services

List of Experimental Setup:

- Graphical symbols.
- Terminology used in hydraulic circuit.
- Pump characteristic curve.
- Meter in & Meter out actuators
- Working of Hydro motor
- Working of Accumulator
- Proportional Hydraulic Circuits
- Regenerated Circuits

COMPUTER ENGINEERING

1CEH09 Computer Applications

Computer Fundamentals
Computer Operating Systems
Introduction about Microsoft word 2000
Microsoft word- Format Menu
Microsoft word- Bullets and Numbering
Microsoft word – Table Menu-1
Microsoft word – Table Menu-2
Microsoft word- Mail Merge
Microsoft word- Print Layout
Introduction to Microsoft Excel
0
Microsoft Excel- Formatting and Function
1
Microsoft Excel- Developing of Chart
2
Introduction to Microsoft PowerPoint
3

Microsoft PowerPoint- Create and Edit Presentation

4 Microsoft PowerPoint- Auto Layout

5 Microsoft PowerPoint- Animation

6 Microsoft PowerPoint- Organization of Chart

7 Microsoft PowerPoint- Drawing Tools

8 Internet Application – Computer Networking

9 Internet Application- Mailing and Searching

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SEMESTER-III

1CEB02-Computer Organization & Architecture

1. To verify truth tables of basic gates and to realize all basic gates using NAND or NOR gates only.
2. Verification of truth table of R-S, J-K and D Flip-Flop.
3. To study Universal shift register.
4. To study the design of a Binary Counter.
5. To realize binary half adder, full adder, half subtractor.
6. Design of Parallel Binary Adder.
7. To study the working of Multiplexer.
8. Study of Memory elements
9. Study of Input/Output devices
10. To design a binary synchronous up counter.
11. To design a binary sequence detector.

1ITH04 Programming Methodology

1. Introduction to C Programming.
2. Introduction to Variables & Data Types in C.
3. Introduction to Operators and data input/output functions.
4. Introduction to Control statement and looping.
5. Introduction to arrays in C.
6. Introduction to string in C.
7. Introduction to Functions in C.
8. Introduction to structure in C.
9. Introduction to Pointer in C.
10. Introduction to FILE in C.

SEMESTER-IV

1CEA02 Data Communication and Network Technology

1. To write a C program to convert a character into its equivalent binary codes and vice versa.
2. To understand the concept of VRC (Vertical Redundancy Check) and make programs for odd and even parity bits.
3. To implement VRC over files.
4. To understand the concept of LRC (Longitudinal Redundancy Check) and make programs for odd and even parity bytes.
5. To implement LRC over files.
6. To implement Checksum generator for 3 characters.
7. To implement program for transpositional and substitution encryption.
8. To install client server and peer network over windows
9. Installation of TCP/IP on Windows 2000 and configuration of the computer for network.
10. The implementation of NETSIM: BOSON

1CEB05 Data Structure and Algorithms

1. To develop a program for PUSH and POP operations on stack
2. To develop a program for INSERT and DELETE operations on queue
3. To develop a program for various string operations
4. To develop a program for singly linked list.
5. To develop a program for Bubble Sort and Selection Sort
6. To develop a program for Insertion Sort
7. To develop a program for Quick Sort
8. To develop a program for PUSH and POP operations on stack
9. To develop a program for sequential search

10. To develop a program for binary search
11. To develop program for tree traversal methods

1CEB04-OOPS

1. Basic Concepts of C++ Programming
2. Introduction of Class and Object
3. Introduction of call by value and call by reference
4. Introducing inline functions, Default arguments and Function overloading
5. Implementation of Friend functions, Constructors and Destructors
6. Implementation of Console I/O Operations
7. Implementation of Operator Overloading
8. Implementation of Inhertiance
9. Implementation of Virtual Functions
10. Implementation of File Handling

SEMESTER-V

1ITA01 Web Technology

1. Introduction to HTML.
2. To study different formatting and list tags
3. To study various Table tags.
4. To study Form Tags.
5. To study Frame Tags.
6. To study about Image maps and Style sheets.
7. Introduction to Java Script.
8. To study functions and event handling using Java Script.
9. An introduction of VBScript and Active server pages.
10. Working with database using ASP.

1CEB09Internet Technology and Protocols

1. Comparison between TCP/IP and OSI model.
2. Installation of TCP/IP on Windows 2000 and configuration of the computer for network.
3. configure windows-2000 operating system for domain.
4. Study of IP Addressing.
5. Subnets and Subnet mask.
6. TCP/IP Utilities and Services.
7. FTP commands.
8. The PING (Packet Internet Groper) utility.
9. Trace Route Utility.
10. Socket programming.

1ITA03 Relational Data Base Management Systems

1. To get familiarize with Oracle concepts & How to create a table?
2. To Insert, Update & Display the records in a table
3. To Alter and drop the structure of a table
4. To perform join operation using at least two tables
5. Use of different types of functions to manipulate the data items
6. Applying constraints using two tables
7. To perform sub queries and correlated queries
8. To create Synonym, Sequence, Index and Views
9. How to create the PL/SQL blocks, procedures and functions

SEMESTER-VII

1CEA06 Computer System Troubleshooting

1. To Study and Demonstrate various components of a Computer.
2. To Study and Demonstrate various components of a Motherboard.
3. Installation of a Sound Card.
4. To study different components such as Resistors, Capacitors, Rheostate (POT), Inductors or Choke, Flexible Wires & Hook-up Wires.
5. Study of Measuring Instruments
6. Installation of a CD-ROM Drive
7. Installation of a Hard Disk Drive
8. Installation of a Modem
9. Installation of a Floppy Disk Drive
10. Installation of a Network Interface Card

1CED06 Advance Programming Technology

1. To make student familiar with Basic Concepts of Java Programming.
2. To make student understand about Language Building Blocks of Java Programming.
3. To study various Control Statements of Java.
4. To make a student familiar about basic concept of classes
5. To make a student familiar about Packages and Interface.
6. To Study Java Exception & Threats.
7. To make a student familiar with Java input and output.
8. To study about Applets and Graphics.
9. To study Basic Concept of Servlets and JSP in JAVA.
10. To study Networking through JAVA.

1CEA09 Operating System

1. vi editor.
2. UNIX file commands-I.
3. UNIX files commands-II.
4. Basics of Shell programming.
5. Shell programming-I.
6. Shell programming-II.
7. Shell programming using control structures.
8. Process handling commands in UNIX.
9. Shell Programming-III.
10. Compiler and Linker-Loader.

1CED02 System Analysis and Design

1. Selection of Topic and Information Gathering
2. Requirement Determination
3. Data Flow Diagram
4. ER Diagram
5. Data Discretionary
6. Prototyping
7. Study of second system
8. Study of second system (Continue)
9. Study of third system
10. Study of third system (Continue)

1CEA07 System and Network Administrator

1. Installing Windows 2000 Server
2. Modifying the startup list
3. Installing DNS
4. Installing Active Directory
5. Creating Organization Units and Users
6. Installing a client computer
7. Viewing computers in Active Directory
8. Delegating Management of users
9. Creating and applying group policies
10. Creating and sharing resources

ELECTRONICS & COMMUNICATION ENGINEERING

List of Experimental set up

Course code: **1ECB01**

Course Name: **Electronics Devices and Circuits.**

Sr.No.	Title
1.	Study of electronics instruments used in laboratory
2.	Study of electronic components
3	Study of CRO and understand its various applications
4	Characteristics of semiconductor diode and zener diode
5	Study of rectifiers with and without filter
6	Characteristics of transistor in CE configuration
7	Characteristics of Field Effect Transistor
8	Transistor as common emitter amplifier
9	Op-amp as an inverting & non-inverting amplifier
10	Astable multivibrator using 555IC

Course code: 1ECB08

Course Name: Basic Electronics Circuits.

1. Study of electronics instruments used in laboratory
2. Study of electronic components
3. Study of CRO and understand its various applications
4. Characteristics of semiconductor diode and zener diode
5. Study of rectifiers with and without filter
6. Characteristics of transistor in CE configuration
7. Characteristics of Field Effect Transistor
8. Study Load regulation and line regulation characteristics of voltage regulator
9. Op-amp as an inverting & non-inverting amplifier
10. Astable multivibrator using 555IC

Course code: 1ECH08
Course Name: Consumer Electronics

1. Study of different types of microphone.
2. Frequency response of microphone.
3. Directional characteristics of Loudspeaker.
4. To build and find the Frequency response of Audio power amplifier using IC TBA 810.
5. Study and troubleshooting of public address system.
6. Study and troubleshooting of stereo cassette player.
7. Study of different types of EPABX system kit.
8. Study of switching mechanism between subscriber.
9. Project-1
10. Project-2

Course code: **1ECB02**
Course Name: **Linear Integrated Electronics.**

1 Measurement of op amp parameters
2 Op amp as inverting and non inverting amplifier
3 Op amp as adder subtractor and differential amplifier.
4 Op amp as integrator differentiator and comparator
5 Op amp as high pass filter
6 Op amp as low pass filter
7 IC-555 (Timer) as astable and monostable multivibrator
8 Op amp as precision rectifier
9 Study of Phase Lock Loop(PLL)
10 Load and line regulation of 3 pin voltage regulator.
11 Project

Course code: 1ECB04
Course Name: DIGITAL ELECTRONICS

1. Verification of basic logic gates.
2. Construction of all basic gates using only NAND / NOR gates
3. To construct binary half-adder & full adder.
4. To construct half-subtractor and full subtractor.
5. To build up and realize 3-bit binary to gray code converter & 3-bit gray to binary code converter
6. To construct 4-bit binary parallel adder
7. Realization of Boolean function using multiplexer.
8. Verification of truth tables of R-S, J-K, D and T flip-flops.
9. To construct and realize 3-bit (modulo -16) ripple counter (Asynchronous counter)
10. To construct and realize 3-bit (modulo -16) binary synchronous counter.
11. To perform parallel –in data, left-shift and right-shift data operation using universal shift register.
12. To design BCD to seven segment LED display circuit.

Course code: 1ECA03
Course Name: INDUSTRIAL ELECTRONICS

1. To plot the characteristics of SCR.
2. To plot the response of the Resistance and Resistance-capacitance triggering circuit for SCR.
3. To observe the response of a Uni-Junctional Transistor (UJT) as a Relaxation Oscillator.
4. To observe the response of half controlled rectifier with R and RL load.
5. To plot the waveforms of TRIAC in different modes.
6. To observe the response of DIAC and Phase control of TRIAC by light-Dimmer control.
7. To observe the response of the class-A and class-B Turn off circuits.
8. To observe the response of the class-C turn off circuit.
9. To study and perform 3-bit sequential counter.
10. To study speed control of D.C. Shunt motor using Thyristor.

Course Code: 1ECB03
Course Name: Electronics Instruments Measurements

1. To find the unknown resistance using Wheatstone Bridge
2. To find the unknown Inductance using Maxwell's Bridge
3. To find the unknown Inductance using Hay's Bridge
4. To find the unknown capacitance using Schering Bridge
5. To do the Range Extension of Voltmeter and Ammeter
6. To study the characteristics of LVDT
7. To study the characteristics of Thermister
8. To study the CRO demonstration kit
9. Study of Q – Meter
10. Study of Spectrum Analyzer

Course code: 1ECB05
Course Name: MICROPROCESSOR ARCHITECTURE & INTERFACING

1. Familiarization with Microprocessor DMS-85 kit and its working with a specimen program.
2. Programs related to the application of DATA transfer instructions like MOV, MVI, OUT, LXI, IN, LDAX, LDA, STAX, STA etc.
3. Programs related to the application of ARITHMETIC instructions like ADD, ADI, SUB, SUI, INR, DCR, DCX, INX etc.
4. Programs related to the application of LOGICAL instructions like ANA, ANI, ORA, ORI, XRA, XRI, CMA, RLC, RAL, RRC, RAR, CMP, CPI etc.
5. Programs related to the application of BRANCH instructions like JMP, JZ, JNZ, JC, JNC, etc.
6. Programs using subroutines. Programs for conversion of BCD to Binary & vice-versa .
7. Programs related to different modes of 8255.
8. Programs related to different modes of 8253.
9. Programs related to Interrupt.
10. Programs related to Analog to Digital Conversion (ADC).
11. Project (Program for any microprocessor based application)

Course code: 1ECB07
Course Name: MICROPROCESSORS PROGRAMMING & INTERFACING

1. Familiarization with Microprocessor DMS-85 kit and its working with a specimen program.
2. Study of DATA Transfer Instructions with specimen program and also develop program related to data transfer instructions.
3. Study of ARITHMETIC Instructions with specimen program and also develop program related to arithmetic instructions.
4. Study of LOGICAL Instructions with specimen program and also develop program related to arithmetic instructions.
5. Study of BRANCH Instructions with specimen program and also develop program related to the application of BRANCH instructions like JMP, JZ, JNZ, JC, JNC, etc.
6. Study concept of Subroutine and Stack. Program based on Subroutine.
7. Study of Programmable Peripheral Interfacing (PPI) IC and program related to IC-8255.
8. Study of Programmable Interval Timer / Counter (PIT) IC and program related to IC-8253 / 54.
9. Study of Programmable Interrupt Controller (PIC) IC and program related to Interrupt (VI Key).
10. Study Interfacing of Analog to Digital Converter (ADC) and program related to Analog to Digital Conversion.

Course code: 1ECA01
Course Name: COMMUNICATION ENGINEERING-I

1. To generate Amplitude Modulated signal by modulating with audio signal generator and measure the modulation index.
2. To demodulate Amplitude Modulated signal by diode Detector.
3. To modulate & demodulate audio signal by Frequency Modulation and Demodulation Techniques
4. To modulate and demodulate audio signal by Double Sideband Suppressed Carrier technique. (DSBSC)
5. To modulate and demodulate audio signal by Single Sideband Suppressed Carrier Technique. (SSBSC)
6. To study Super heterodyne Receiver.
7. To study the Tuner (Frequency converter stage).

8. To perform the frequency response of intermediate frequency (IF) stage.
9. To study the Detector and Automatic Gain Control (AGC).
10. To study the Audio Driver and the output stage.

Course code: 1ECA04
Course Name: FIBER OPTICS COMMUNICATION

1. To Set up fiber optic Analog link
2. To study Numerical Aperture of the optical fiber
3. Setting up Of fiber Optics digital link
4. To study the Time Division Multiplexing (TDM) using optical fiber link
5. Study Of Pulse Amplitude Modulation techniques using Optical fiber link
6. Study Of Pulse Width Modulation and Demodulation
7. Study Of Pulse Position Modulation
8. Study Of losses in optical fiber
9. Study Of framing in TDM
10. Study Of Manchester coding and decoding

Course code: 1ECA02
Course Name: COMMUNICATION ENGINEERING-II

1. To study & perform sampling and reconstruction of signal.
2. To study & perform pulse amplitude modulation system
3. To study & perform pulse amplitude demodulation system.
4. To study & perform pulse width modulation system.
5. To study & perform pulse width demodulation system.
6. To study & perform pulse position modulation system.
7. To study & perform pulse position demodulation system.
8. To study & perform Delta modulation and demodulation system.
9. To study & perform adaptive delta modulation and demodulation system.
10. To study earth station used for satellite communication.
11. To study and perform ASK, FSK & PSK.

Course code: 1ECA05
Course Name: TELEVISION ENGINEERING

1. Study of block diagram of Monochrome television receiver.
2. Study of composite video signal.
3. Study of sync separator and horizontal oscillator section.
4. Study and alignment of sound IF section
5. Study vertical oscillator section.
6. Study of different controls of color TV receiver.
   Study of deflection yoke
7. To study the complete circuit of color TV receiver in various blocks.
8. To trace & study the functions of chroma decoder
9. Fault finding of color TV
10. Study of SMPS

Course code: 1ECA06
Course Name: ANTENNA & MICROWAVE ENGINEERING

1. To study the polarization of horizontal and vertical antenna
2. To plot the radiation pattern of Half Wave Dipole antenna
3. To plot the radiation pattern of Ferrite rod antenna.
4. To plot the radiation pattern of Folded Dipole antenna

5. To plot the radiation pattern of Yagi-Uda antenna array
6. To plot the radiation pattern of Stacking methods of Yagi antennas
7. To plot the radiation pattern of Circular antenna
8. To plot the radiation pattern of End-fire and Broadside antenna
9. To plot the radiation pattern of Rhombic and Log-periodic antenna
10. To plot the radiation pattern of Slot antenna

Course code: 1ECD02
Course Name: POWER ELECTRONICS

1. To Study the Characteristics of Power MOSFET
2. To Study the Characteristics of IGBT
3. To study the line and load characteristics of series inverter
4. To study the characteristics of Chopper
5. To study the AC voltage Controller
6. To study the SMPS
7. To study the characteristics of Series Inverter
8. To study the characteristics of Parellal Inverter
9. Study of Cycloconverter
10. Study of AC drive system

Course code: 1ECD05
Course Name: BIO ELECTRONICS

1. To Study various biomedical electrodes.
2. To Study respiration rate meter.
3. To study blood pressure monitor.
4. To study digital heart rate indicator.
5. To study phonocardiography.
6. To study electrocardiogram.
7. To study pace maker.
8. To study therapeutic unit.
9. To Study electroencephalogram.
10. To Study electromyogram.

INFORMATION TECHNOLOGY
1CEH09 Computer Applications

1 Computer Fundamentals
2 Computer Operating Systems
3 Introduction about Microsoft word 2000
4 Microsoft word- Format Menu
5 Microsoft word- Bullets and Numbering
6 Microsoft word – Table Menu-1
7 Microsoft word – Table Menu-2
8 Microsoft word- Mail Merge
9 Microsoft word- Print Layout
10 Introduction to Microsoft Excel
11 Microsoft Excel- Formatting and Function
12 Microsoft Excel- Developing of Chart
13 Introduction to Microsoft PowerPoint
14 Microsoft PowerPoint- Create and Edit Presentation
15 Microsoft PowerPoint- Auto Layout
16 Microsoft PowerPoint- Animation
17 Microsoft PowerPoint- Organization of Chart
18 Microsoft PowerPoint- Drawing Tolls
19 Internet Application – Computer Networking
20 Internet Application- Mailing and Searching

SEMESTER-III

1ITH04 Programming Methodology

1 Introduction to C Programming.
2 Introduction to Variables & Data Types in C.
3 Introduction to Operators and data input/output functions.
4 Introduction to Control statement and looping.

5 Introduction to arrays in C.
6 Introduction to string in C.
7 Introduction to Functions in C.
8 Introduction to structure in C.
9 Introduction to Pointer in C.
10 Introduction to FILE in C.
11 Astable multivibrator using IC-555

1CEB02-Computer Organization & Architecture

1 To verify truth tables of basic gates and to realize all basic gates using NAND gates only.
2 Verification of truth table of R-S, J-K and D Flip-Flop.
3 To study Universal shift register.
4 To study the design of a Binary Counter.
5 To realize binary half adder, full adder, half subtractor.
6 Design of Parallel Binary Adder.
7 To study the working of Multiplexer.
8 Study of Memory elements
9 Study of Input/Output devices
10 To design a binary synchronous up counter.
11 To design a binary sequence detector.

SEMESTER-IV

1CEA02 Data Communication and Network Technology

1. To write a C program to convert a character into its equivalent binary codes and vice versa.
2. To understand the concept of VRC (Vertical Redundancy Check) and make programs for odd and even parity bits.
3. To implement VRC over files.
4. To understand the concept of LRC (Longitudinal Redundancy Check) and make programs for odd and even parity bytes.
5. To implement LRC over files.
6. To implement Checksum generator for 3 characters.
7. To implement program for transpositional and substitution encryption.
8. To install client server and peer network over windows
9. Installation of TCP/IP on Windows 2000 and configuration of the computer for network.
10. The implementation of NETSIM: BOSON

1CEB04-Object Oriented Programming and Systems

1. Basic Concepts of C++ Programming
2. Introduction of Class and Object
3. Introduction of call by value and call by reference
4. Introducing inline functions, Default arguments and Function overloading
5. Implementation of Friend functions, Constructors and Destructors
6. Implementation of Console I/O Operations
7. Implementation of Operator Overloading
8. Implementation of Inhertiance
9. Implementation of Virtual Functions
10. Implementation of File Handling

1CEB05 Data Structure and Algorithms

1. To develop a program for PUSH and POP operations on stack
2. To develop a program for INSERT and DELETE operations on queue
3. To develop a program for various string operations
4. To develop a program for singly linked list.
5. To develop a program for Bubble Sort and Selection Sort
6. To develop a program for Insertion Sort
7. To develop a program for Quick Sort
8. To develop a program for sequential search
9. To develop a program for binary search

10. To develop program for tree traversal methods

1ITA01 Web Technology

1. Introduction to HTML.
2. To study different formatting and list tags.
3. To study various Table tags.
4. To study Form Tags.
5. To study Frame Tags.
6. To study about Image maps and Style sheets.
7. Introduction to Java Script.
8. To study functions and event handling using Java Script.
9. An introduction of VBScript and Active server pages.
10. Working with database using ASP.

1ITA11 Database Management System-1

1. Create tables for the following information and solve the listed query.salespeople (snum number(4), sname char(20), city char(15), commission number(5,2) customers (cnum number(4), cname char(20), city char(10), rating number(4), snum(4))orders (onum number(4), amt number(6,2), odate date, cnum(4) Write a select command that produces the order number, amount and date for all rows in the orders table.
2. Write a query that produces all rows from the customers table for which the salespeople's number is 1001.Write a query that produces the salespeople table with the columns in the following order: city, sname, snum, commission.
3. Write a select command that produces the rating followed by the name of each customer in Ahmedabad.Write a query that will give you all orders for more than Rs. 1000/-.
4. Write a query that will give you names of all salespeople in London with a commission above Rs. 500/-.Write a query on the customers table whose output exclude all customers with a rating <= 100, they are located in Ahmedabad.
5. Write two queries that will produce all orders on October 3, 2006 and October 4, 2006. Now develop single query to get both outputs.Write a query that selects all the customers handled by Mr. ABC or Mr. XYZ respectively.
6. Write a query that selects all customers names begin with P.Write a query that selects all orders with zeroes or NULL in the amt field.
7. Write a query that counts all orders for January 14, 2007.Write a query that selects each customer's highest value order.
8. Write a query that selects the first customer, in alphabetical order, whose name begins with G. Write a query that selects the highest rating in each city
9. Write a query that lists customers in descending order of rating. Output rating field first, followed by the customer's name and number.Write a query that produces the name and cities of all customers with the same rating as Hoffman.
0. Write a command that increases the rating of all customers in Rome by 100.Write a command that deletes all customers with no current orders.
10. Create a view that shows the number of salespeople in each city.Give rights to JIMMY to change the ratings of the customers.
11. Take away the INSERT privilege on salespeople from Claris.Allow DESAI to query the customers table, but restrict all other access to this table
12. Create Orders table making sure that no NULL in any of its fields.Find the duplicate rows in orders table having same values in onum field.

SEMESTER-V

1ITA10 Management Information System

1 Draw an organization chart for any TWO of the followings: A Bank, A Hospital, and An University.
2 Give THREE functions of a manufacturing firm, show how MIS could help integrate these functions.
3 Make a list of management reports that the MIS might provide to ensure control within the organization.
4 Prepare an interview plan containing list of questions you would like to ask during the meeting with user department to understand their information needs.
5 Draw the management levels in an organization. Explain reporting structure.
6 Describe structure of management and explain the general management system through its diagram.
7 Describe various models for representing systems; draw PFD (Process Flow diagram) for HR system.
8 Draw the different steps in decision processes with the effect of human factors.
9 Draw context diagram of FAS system and SALES system.
10 Draw DFD of SALES system and PURCHASE system.
11 Draw context diagram of PURCHASE system and STORES system.
12 Draw DFD of STORES system and FAS system.
13 Create Orders table making sure that no NULL in any of its fields.Find the duplicate rows in orders table having same values in onum field.

1CEB03 Modern Operating System Software.

1 VI editor.
2 UNIX file commands-I.
3 UNIX files commands-II.
4 Basics of Shell programming.

5 To study about the UNIX file commands-III.
6 Shell programming-I.
7 Shell programming-II.
8 Shell programming using control structures.
9 Process handling commands in UNIX.
10 To study administration of WIN-NT OS.

1ITA12 Data Base Management System-II

1 Write a program to understand the basic structure of PL/SQL.
2 Write a program to use the conditional control statement in PL/SQL.
3 Write a program to use the Iterative control statement in PL/SQL.
4 Write a program to use the Sequential control statement in PL/SQL.
5 Write a program to use the Implicit Cursor in PL/SQL.
6 Write a program to use the Explicit Cursor in PL/SQL.
7 Write a program to use the Exception Handler in PL/SQL.
8 Write a program to use the Procedure and Function in PL/SQL.
9 Write a program to use the Package in PL/SQL.
10 Write a program to use the Trigger in PL/SQL.

1ITAI3 Internet Programming

1 Basic Concepts of JAVA Programming
2 Building Blocks of JAVA Programming language
3 JAVA Operator & Expression
4 Control Statements in JAVA
5 Basic concepts of classes in JAVA
6 Basic concepts of Inheritance
7 Basic concepts Packages and Interface
8 Study of JAVA Exceptions and threads
9 JAVA input and output
10 JAVA applets

SEMESTER-VII

1ITA07-Client Server Architecture and Interfacing

1 Get familiarize with the Visual Basic IDE, label, text box and command button controls and create first windows application.
2 Use of Image, Option button, checkbox, frame and combobox controls using applications.
3 Dynamic use of Image control, Timer and vertical scrollbar control using applications.
4 Get familiarize with the different events of the keyboard & Mouse controls. Tab setting Drivelistbox, Dirlistbox, Filelistbox, Line and Shape controls
5 Use of Listbox control, horizontal scrollbar and familiarize with its properties and methods.
6 Get familiarize with Pull down menus, ActiveX controls like ImageList and toolbar and status bar control.
7 Use of different ActiveX controls like Common Dialog control and RichTextBox control.
8 Create database application using data control and Familiarize with different properties of data control.
9 Create database application using data control. Get Familiarize with different Methods of data control.
10 Create database application using ADO control and get familiarize with different Methods of ADO control.

1ITA09 TCP/IP and Network Programming

1 Study of TCP/IP reference model and comparing it with OSI reference model.
2 To install TCP/IP on Windows 2000 and configure the computer for network
3 To configure windows-2000 operating system for domain.
4 Study of IP Addressing.
5 Study of Subnets and Subnet Mask.
6 To study TCP/IP Utilities and Services.
7 UNIX Network Programming – I Creating Child Processes & IPC (Interprocess Communication) via Pipes – One way communication
8 Unix Network Programming – II IPC (Interprocess Communication) via Pipes – Two way communication
9 To study Java Network Programming (TCP).
10 To study Java Network Programming (UDP).

1CED04 Computer Graphics

1 Basic Computer Graphics Concepts
2 DDA Line Drawing Algorithm
3 Bresenham's Line Drawing Algorithm
4 Mid Point Circle Algorithm
5 Boundary Fill Algorithm
6 Flood Fill Algorithm
7 2D Translation
8 2D Scaling
9 2D Rotation
10 Clipping

1ITD03 Distributed Databases

1 Understanding the concept of LOCALIZED database access using MS Access. Create 2 masters and 1 Transaction table.
2 Understanding the concept of CENTRALIZED database access using ORACLE. (Single-User Centralized Access).
3 Understanding the concept of CENTRALIZED database access using ORACLE. (Multi-User Centralized Access using common log-in).
4 Understanding the concept of DE-CENTRALIZED database access using ORACLE.
5 Understanding the concept of DISTRIBUTED database access using ORACLE.
6 Understanding the concept of creating relationships between the master and transaction tables. Develop a program to understand the effects of creating relations.
7 Understanding the concept of LOCALIZED database access using MS ACCESS. Create 2 masters and 1 transaction table. Insert, Retrieve and Modify records.
8 Create a database Library in MS ACCESS with following tables:
BOOK (book_id, bname, author, cost, stock)
STUDENT (stud_id, sname, class, dt_of_join)
ISSUE (book_id, stud_id, dt_of_issue, fine)
Place appropriate primary keys, create relations and practice all the queries done in previous labs.
9 After completing this experiment students will be able to See the impact of different database architectures in real world situations. Know the benefits of different database technology.
10 Define database structure of a Software company. Develop query program in ORACLE that will find details as below:
Find software companies located in Ahmedabad.
Find software companies located in Gujarat/India.
11 Define database structure of a Software company. Develop query program in ORACLE that will find details as below:
Find software companies located in Ahmedabad offering development work in specified technology. Given a Name or telephone number, identify and get all details of software company.
12 Create following two tables in MS-Access.
Company (cid, cname)
Qsales (cid, year, qnum, qdate, sval, com)
Define appropriate PK and FK. Calculate com as 10% of sval.
13 Do experiment No. 12 in ORACLE.

GENERAL DEPARTMENT

- **List of Experimental Setup**

Physics Laboratory

1. Use of Varnier Calliper
2. Use of Micrometer Screw
3. Measurement of acceleration due to gravity ‘g’ by simple pendulum method.
4. Determination of Viscosity of lubricating oil by Stoke’s method.
5. Measurement of thermal conductivity
6. Measurement of frequency of vibration of stretched string.
7. Verification of Ohm’s law
8. Measurement of specific resistance of a conductor.
9. Measurement of Young’s modulus ‘Y’ of given metallic wire.
10. Determination of Joule’s constant (J) by electric method.
11. V-I Characteristics of semiconductor diode.
12. V-I Characteristics of Zener diode.

Chemistry Laboratory

1. Determination of specific gravity of given oil.
2. Measurement of volume by different methods.
3. Measurement of concentrations of different solutions.
4. Measurement of melting point and boiling point of organic compounds.
5. Measurement of density of solids and liquids.
6. Measurement of hardness of water.
7. Measurement of chloride content in a given sample of water.
8. Measurement of pH of a given solution.
9. Measurement of corrosion of metal in acid and alkaline media.
10. Measurement of acid value of lubricating oil.
11. Preparation of Urea Formaldehyde Resin.

Language Laboratory

1. Tense Buster – Elementary Level
2. Tense Buster – Lower Level
3. Tense Buster – Upper Level
4. Tense Buster – Intermediate Level
5. Tense Buster – Advance Level

Applied Mechanics Laboratory

1. Law of Polygon of Forces
2. Graphical method of Law of Polygon of Forces
3. Law of Parallelogram of Forces.
4. Graphical method of Law of Parallelogram of Forces
5. Equilibrium of Coplanar, Non-Concurrent Force System
6. Equilibrium of Colpanar, Non-Concurrent Force System : Lami's Theorem
7. Equilibrium of Coplanar Parallel Force System
8. Coefficient of Static Fiction.
9. Wheel and Differential Axle
10. Simple Screw Jack

Strength of Material Laboratory

1. Brinell Hardness Test
2. Rockwell Hardness Test
3. Vicker's Hardness Test
4. Compression Test on Timber
5. Compression Test on Metals.
6. Tension Test
7. Shear Test
8. Izod impact Test

COMPUTING FACILITIES:

- Number and Configuration of Systems

Location	Computer Systems						Servers	Printers		
	Core 2 Duo	P – IV	P – III	P-II	P – 1	Total		Inkjet	Dotmatrix	Laser jet
C- Block, Nirma University	135	212	18	-	-	365	2	7	4	2

(* on sharing basis with the Institute of Technology)

- Total number of systems connected by LAN: All Terminals are on LAN
- Total number of systems connected to WAN: All Terminals are on LAN
- Internet bandwidth: 8 MBPS lease line thought Fiber optic connection for campus for 24 Hrs.
- Major software packages available

a)	Operating System for Network (UNIX / LINUX / WINDOWS NT)	Windows 2003 server, Fedora 11,
b)	Operating System for Desktop (DOS/LINUX/WINDOWS-95/98/2000/XP)	Windows XP, Windows 7,Windows 98, Fedora 11, Windows 2000

c)	List of application Software and compilers available	MS OFFIC PRODEESSIONAL CIRCUIT MAKER 2.2 MICROSOFT OFFICE 2000 MS Office XP Prosessional AutoCAD R-13 and R-2002, R-2004 & R-2007 (Elect & Mech) Macro media Director 8.0 Adobe Indesign 1.5 Adobe premiere 6.0 Adobe After Effects 5.0 Adobe Web collection MS Front-Page 98 & 2000 System Design software: POPKIN SOFTWARE 2001 (System Architecture) Rational Rose with 10 users license MSDN Professional MSDN Universal MSDN Acedamic Alience MICROSOFT PUBLISHER MICROSOFT PROJECT Strar office 6.0 RT Linux DK4 Design Suit MUltiSim 9.0 Liquefy Pro 5.0 Net.z1.1 (Lan trainner s/W.) Compilers/Languages: MICROSOFT VISUAL BASIC 4.0 MICROSOFT VISUAL C++ 4.0 BORLND DBASE FOR DOS BORLAND C++ 3.1

		C++Builder 6 COBOL – 85 /DOS 1.003 MICROSOFT VISUAL STUDIO 6.0 (Visual Basic, VFP, VC C++) MICROSOFT VISUAL STUDIO .NET SYBASE- POWERBUILDER (31 Set) MICROSOFT JBUILDER Lex & Yacc for windows LPA Prolog DATABASE MANAGEMENT SOFTWARE: ORACLE 8 FOR WINDOWS-NT (CLIENT SERVER) ORACLE 8I FOR WINDOWS-NT (CLIENT SERVER) ORACEL 10G (UNLIMITTED USER LIC.) ANTI VIRUS SOFTWARE: PROTECTURE PLUS 2.6 NORTON ANTI VIRUS 2001 MCAFEE VIRUS SCAN HYSYS (CHEMICAL DEPT.) 20 USER LIC. PRO-ENGINEER 500 USER LIC. (MECH. DEPT.) AUTODESK INVERTER

- Special purpose facilities available

WORKSHOP:

- List of facilities available. (As per encloses)

Games and Sports Facilities

Three Volleyball courts
One Badminton courts
One Football grounds
One Hockey grounds
Two Cricket grounds with pitches
Athletic track of 400 mtrs.
Athletic field
Table tennis room
Basket ball court
Lawn tennis court
Gymnasium
Chess, Carrom room

Extra Curricular Activities

1. Republic day celebration - 26th January
2. Independence day celebration - 15th August
3. Cultural Festival – Organized every year
4. Foundation Day Celebrations – 14th September
5. Annual Sports Day – Organised every year
6. RAMZAT – Annual Ras Garba

6. Student Organizations' Activity

Each department have strong and active students' organization. They publish their newsletters regularly. Some of the activities organized by the organization are as under:

- Poster Making Competition
- One Minute Game Show
- Kite flying competition
- Know your C Skills
- Quiz Competition
- Essay Competition
- Cricket Tournament
- Public Speaking
- Project/ Model Competition
- Workshops
- TECH FEST – a state-level; competitive event held every year

Soft Skill Development Facilities

The Institute organizes various activities to develop the soft skills of the students.

Number of Classrooms and size of each
Number of Tutorial rooms and size of each
Number of laboratories and size of each
Number of drawing halls and size of each
Number of Computer Centres with capacity of each
Central Examination Facility, Number of rooms and capacity of each:

Sr. No.	Particulars	Number	Approx. Area of Each (in Sqm.)	As per AICTE norms (in Sqm.)	Available Area (Sq.m.)	Seating Capacity
1.	Classroom	19	81	60	1539	80
2.	Tutorials Room	12+3*	35 / 81	33	999	30
3.	Seminar Hall/ Conf. room	3+1*	50+225+162	75X2	537	35+300+200
4.	Drawing Hall	4	81	80	324	20 per hall
5.	Laboratories	7+38*	81 / 162	80	4419	25 per lab
6.	Workshop	1*	1287	4 to 8 sq.m. per student	1287	200
7.	Others– Computer Lab	2	162+100	--	262	100+60
				Total Area (in Sqm.)	9367	

(*Some of the laboratories and workshop are shared with Institute of Technology, Nirma University)

TEACHING LEARNING PROCESS

- Curricula and syllabi for each of the programmes as approved by the University.
  Appendix – A

- Academic Calendar of the University
  Appendix – B

- Academic Time Table
  Appendix – C

- Teaching Load of each Faculty
  Appendix – D

- **Internal Continuous Evaluation System and place**

Each course carries certain credits and the assessment is credit based. This will ensure greater rationality in the assessment. Except for mid semester and semester end examinations (MSE & SEE), all components are assessed continuously / periodically. There will also be semester end overall assessment as may be necessary. The student is kept informed about his performance at every stage. This method encourages students to study regularly and will also provide motivation for progressively better performance.

Each course consists of one or more components. Each component serves a specific propose in the total scheme of teaching. Passing standards for each component are the same and the student has to pass in each component separately. This provision ensures that the student becomes fully conversant with all aspects of the course. The

examination system is devised to motivate the students for systematic and continuous study. Term assignments, laboratory and project work will be continuously assessed. Students must remain very regular and complete all assignments practical etc to acceptable standards. If the student fails in these examinations, he will have to repeat the entire course.

There will be two written examinations, mid semester examination (MSE) sometime during the semester end examination (SEE). There are also provisions for additional / supplementary examinations and additional trials. But the students are advised not to depend on these provisions and concentrate to pass the examinations at the very first attempt.

- **Students' Assessment of Faculty, System in place.**

Semester-wise feedback is taken from students for each faculty.

FORMAT

FEED BACK SHEET

Please tick (✓) mark whichever you feel appropriate.

1. How is the communication of the teacher, effective?
   (a) Fully (b) Partially (c) Very Little (d) Not at all

2. How well is the interaction between the student and the teacher?
   (a) Very Good (b) Satisfactory (c) Average (d) Poor

3. Does the teacher control the class?
   (a)Always (b)Sometimes (c) Rarely (d) Never
4. Is the concerned teacher regular and punctual?
   (a) Always (b) Most of the time (c) Sometimes (d) Never
5. How does the teacher solve the (Academic) Problems?
   (a) Solves the problem Immediately (b) Solves it in the next class
   (c) Solves after few days (d) Never solves the problem
6. How much does the teacher stimulate you to think about the subject?
   (a) Highly stimulating (b) Sometimes stimulating
   (c) Rarely stimulating (d) Never
7. Does the teacher use the blackboard effectively?
   (a) All the time (b) Frequently (c) Rarely (d) Never
8. How much of the class time does the teacher utilise in teaching the subject?
   (a) More than 90% (b) 80% (c) 70% (d) Less than 60%
9. How well does the teacher explain the topic in class?
   (a) Extremely well (b) Quite well (c) Adequate (d) Unsatisfactory
10. Is the course material provided to you well in advance?
    (a) Always in advance (b) On the day of class
    (c) After the class session (d) Never provided

11. How would you rate the quality of the course material provided?
(a) Very good (b) Good (c) Useful (d) Not relevant

12. Are assignments given?
(a) Regularly (b) Very often (c) Occasionally (d) Never

13. Which of the teaching aids are used by the teacher?
(a) OHP (b) Models (c) Charts (d) Any Other (specify)

14. Please give two suggestions course wise to improve academic standards of the institute.
1.
2.

Annexure - 1

Merit List (15% NRI Seats) year 2009-10

Merit No.	Category	Name of the students	Gender	Merit Marks (out of 500)	Merit Marks (out of 300)
1	Sponsored	PATEL DISHA DIPAKBHAI	F	402	251
2	Sponsored	CHINDALIA RISHABH TEJKARAN	M	395	236
3	Sponsored	PATEL MIRALKUMAR SURESHBHAI	M	392	346
4	Ward	VYAS AAKASH ILESHKUMAR	M	365	220
5	Sponsored	VEKARIA DHWANI BHARATKUMAR	F	365	220
7	Sponsored	PARMAR JULLY PRAVINSINH	F	351	211
8	Sponsored	MISTRY DHRUV PRAVINKUMAR	M	346	204
9	Sponsored	BHUJWALA ZUBEN JINOFER	M	344	181
10	Sponsored	PATEL RAJAN DEVENDRA	M	337	182
11	Sponsored	PATEL ASHITA K	F	330	194
12	Sponsored	KASVALA ANMOL BHUPENDRABHAI	F	327	181
13	Sponsored	PATEL JAY DEEPAKBHAI	M	325	188
14	Sponsored	POPAT ASHISH VASUDEV	M	324	193
15	Sponsored	PATEL URVISHKUMAR HASMUKHBHAI	M	312	192
15	Sponsored	PANDYA JAINIL SHAILESH	M	315	171
16	Sponsored	PANCHOLI DEVASHISH DILIPKUMAR	M	311	186

17	Sponsored	VISHWAKARMA BHARAT	M	310	191
18	Sponsored	GANATRA RAJ	M	309	184
19	Sponsored	KORAT JAY KAMLESHBHAI	M	306	196
20	Sponsored	KHAROD SHAUNAK SALILBHAI	M	298	173
21	Sponsored	PATEL DEVAM KIRIT	M	297	151
22	Sponsored	PATEL PARIN HASMUKHBHAI	M	293	192
23	Sponsored	SHAH YASH BHARATBHAI	M	283	163
24	Sponsored	PATEL DEEP SUNIL	M	280	158
25	Sponsored	ZUNED MANSURI	M	280	146
26	Sponsored	PARMAR RAJENDRASINH VIRENDRASINH	M	272	171
27	Sponsored	SHAH VISHESH DHARMENDRA	M	267	137
28	Sponsored	PATEL FANIE PRAKASHKUMAR	F	259	143

Annexure - 2

Details of students admitted under NRI category in the year 2009-10

Sr.	Roll No.	Name of the students	Gender	Category	Merit Marks (out of 500)
1	09DEC027	PATEL DISHA DIPAKBHAI	F	GEN	402
2	09DEC026	PATEL MIRALKUMAR SURESHBHAI	M	GEN	392
3	09DCE028	VEKARIA DHWANI BHARATKUMAR	F	GEN	365
4	09DEC028	PARMAR JULLY PRAVINSINH	F	GEN	351
5	09DEC033	BHUJWALA ZUBEN JINOFER	M	GEN	344
6	09DCE027	PATEL RAJAN DEVENDRA	M	GEN	337
7	09DCE026	POPAT ASHISH VASUDEV	M	GEN	324
8	09DIT058	PATEL URVISHKUMAR HASMUKHBHAI	M	GEN	312
9	09DEC099	PANCHOLI DEVASHISH DILIPKUMAR	M	GEN	311
10	09DME020	VISHWAKARMA BHARAT	M	GEN	310
11	09DME017	GANATRA RAJ	M	GEN	309
12	09DCE207	KHAROD SHAUNAK SALILBHAI	M	SEBC	298
13	09DEC024	PATEL PARIN HASMUKHBHAI	M	GEN	293
14	09DCE209	SHAH YASH BHARATBHAI	M	GEN	283

15	09DME018	PATEL DEEP SUNIL	M	GEN	280
16	09DME021	ZUNED MANSURI	M	SEBC	280
17	09DCE025	PARMAR RAJENDRASINH VIRENDRASINH	M	GEN	272
18	09DCE208	SHAH VISHESH DHARMENDRA	M	GEN	267
19	09DEC031	PATEL FANIE PRAKASHKUMAR	F	GEN	259