ವಿವೇಕಾನಂದ ತಾಂತ್ರಿಕ ಮಹಾ ವಿದ್ಯಾಲಯ

VIVEKANANDA INSTITUTE OF TECHNOLOGY

AN INSTITUTE OF JANATHA EDUCATION SOCIETY

Recognised by GOK, Affiliated to VTU, Approved by AICTE, New Delhi & Accredited by NAAC

AICTE MANDATORY DISCLOSURE

NAME AND ADDRESS OF THE INSTITUTION

Name	**VIVEKANANDA INSTITUTE OF TECHNOLOGY**
Address	GUDIMAVU,KENGERI HOBLI, KUMBALAGODU
City	BENGALURU
State	KARNATAKA
Website	www.vitb.ac.in
PhoneNo	+918028437036,7625013435
FaxNo	080-28437944
Email	vkitprincipal@gmail.com
AICTE PermanentID	1-12176161
Date	2026
Periodof Last Approval	2025-26
Longitude& Latitude	77.45407128020378,12.857224027622449
Collegehours	8.30 AM to 4.30 PM

NAME AND ADDRESS OF THE TRUST/SOCIETY/ COMPANY AND THE TRUSTEES

Name	JANATHA EDUCATION SOCIETY
Address	Vivekananda College Premises, Next to Orion Mall, Dr.Rajkumar Road, Rajajinagar II Stage
City	Bangalore-560 055
State	KARNATAKA
PhoneNo	080-23371952
Email	jesmanager@gmail.com

Janatha Education Society
Details of Trustees

Sl. No.	Name of the Trustee & Address	Designation	Mobile No.	Email
1	**Sri. BALAKRISHNA H. C** Amma Nilaya,No.21, (22) 1st Cross, 1st Stage MIG KHB Colony, Basaveshwara Nagara Bengaluru-560079	President	9448066939 9448050192 9663146939	jesmanager@gmail.com
2	**Dr. R Ravindra** Chairman Suguna Hospital 1A/87, Dr. Raj Kumar Rd, 4th 'N' Block, Udayam Nagar, Rajajinagar, Bengaluru, 560010 9845034546	Vice - President	9845034546	
3	**Sri. Appa Reddy Harish** #20/5 LV atmosphere 1st Floor, Ali Asker Road Police Commissioner Back Gate, Vasanthnagar Bangalore - 560 0052	Secretary	9845042747	haagindia@gmail.com
4	**Sri. G.K Sathyakeerthi** No.402/1, First Floor 13th Cross, Sadashivanagar Bangalore - 560 080 9986577036 9742383826	Joint Secretary	9986577036 9742383826	
5	**Sri. K.P. Muthaiah** No.12, 1st Main, 3rd Stage Vinayaka Layout Vijayanagar, Bangalore - 40	Treasurer	9902144188	

6	**Sri. Ganesh Reddy** #.1253, 1st Tower Prestige West Wood Mysore Deviation Road Gopalapuram, Magadi Road Bangalore 560023	Internal Auditor	9108288622	
7	**Sri. Balagopal H.G** Shubha Shree' No,893 II Stage West Chord Road Bangalore-560086	Advisor	9845047495	hgbalagopal@gmail.com
8	**Prof. G.K Narayana Reddy** No. 622, 1st Main Road, 2nd Block, Rajajinagar, Bangalore – 560 010	Mentor	9448713712	
9	**Dr. A.C Raghuram** **#98, 5A Cross, Dollar Colony, RMV 2nd Stage, Bangalore – 560 094**	MC Member	9945560104	
10	**Sri. Narayana Reddy I** No.23/1,1st A Main Road 5thCross, Yeshwanthpur Bangalore-560022	Member MC	9342868296	
11	**Sri. Syama Raju K** #150/B 10th Main Road RMV. EXTN Sadashivanagara Bangalore-560080	Chairman VKIT	9844013391	
12	**Sri. Manju K.P.** No.95, 1st Floor, 4th Cross 2nd Stage AGB Layout Mahalaksmipuram Bangalore-560096	Member MC	9844013391	

13	**Sri. Anil G.V.** No 44/2A PVR Swasti Kodigehalli Gate Sahakara Nagara Post Bangaluru 560094	Vice Chairman VKIT	9448663752, 9538849111	
14	**Sri. K.P Raghunand** 3rd Block, 3rd Stage Basaveshwara Nagar Bangalore - 560 079	Member MC	9448009995	
15	**Smt. Sapna N** #62, Sandeep's, 1st'A' Main 1st Block, Dollar's Colony 2nd Stage, Rajmahal Vilas Extn Bangalore - 560 094	Member MC	9945143401	
16	**Sri. A.M Umashankar** # 5/106, Sri Rama Nilaya 10th Main, 11th A Cross Malleshwaram Bangalore- 560003	Member MC	9845017319	
17	**Sri. K.T. Nagaraja** No.88/A, 12th Cross, 1st 'K' Block Kethamaranahalli Banglaore -560010	Member MC	9845157272	
18	**Smt. Sulochana Jayaram** No.33, 6th Main Road Malleswaram Bangalore - 560 003	Member MC	9845074474	
19	**Smt. Pankaja B.H.** No.38, 9th Cross, 8th Main, 1st Floor S.B.M. Colony, Brundavan Nagar Mathikere Extension Bangalore-560054	Member MC	9742818256	

20	**Sri. M.R. Lakshmi Manohar** No.169, 1st Floor Lower Palace Orchard Bangalore - 560 003	Member MC	7829748937	
21	**Smt. S.N. Latha** #1122, 9th Cross Adharsha Layout *Basaveshwaranagar* Bangalore -560079.	Member MC	9980932073 9845345391	
22	**Sri. Anil Kumar S** Flat No. 502, 5th Floor, SLLR Mansion No. 18 (old) New No, 46/8, 12th Main Road, 1st Block Rajajinagar, Bengaluru- 560 010	Member MC	9731166014	

NAME AND ADDRESS OF THE PRINCIPAL

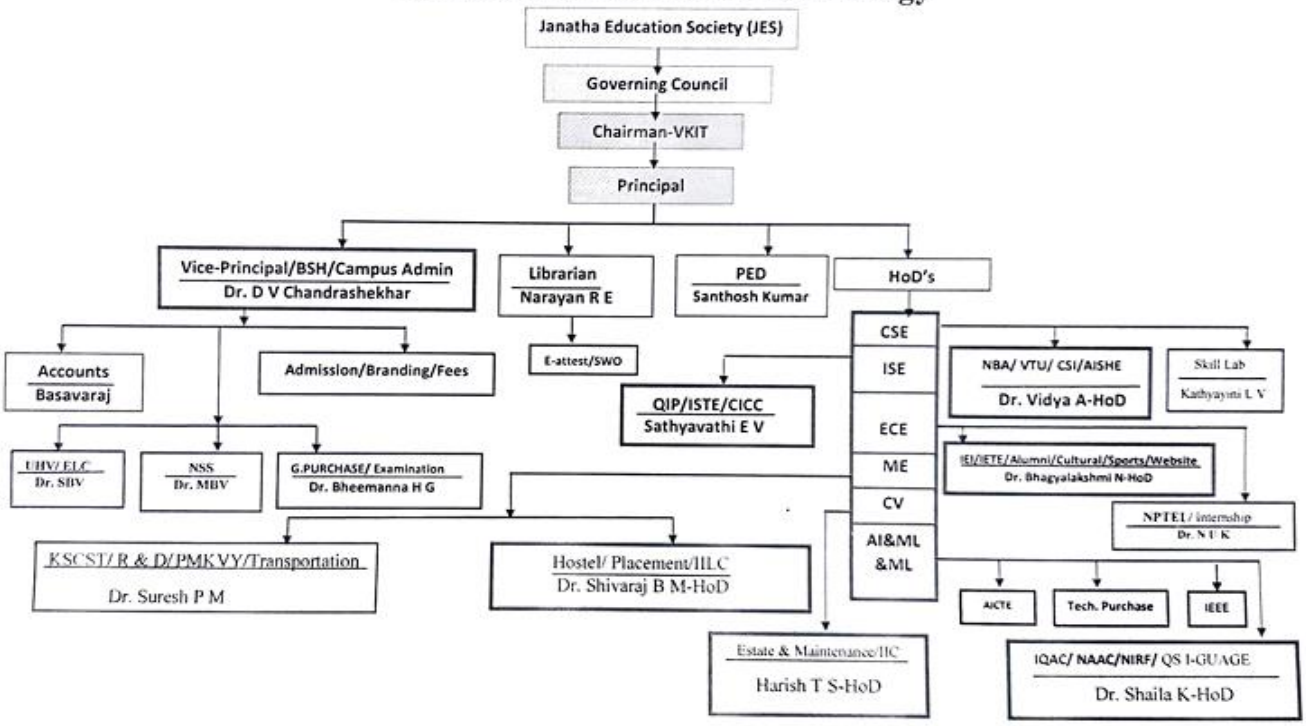
Name	**Dr. K.M. Ravikumar** Principal
Address	GUDIMAVU,KENGERIHOBLI
City	BENGALURU
State	KARNATAKA
Website	www.vitb.ac.in
PhoneNo	080-28437696,7625013435
FaxNo	080-28437696
Email	vkitprincipal@gmail.com

NAME OF THE AFFILIATING UNIVERSITY

Name of the University	Visvesvaraya Technological University, Belagavi-590 018, Karnataka
Name of Registrar	Dr. Prasad B Ramapure
Address	Jnana Sangama, Belagavi,Karnataka-590018
City	Belagavi
State	Karnataka
Website	https://vtu.ac.in
Phone No	0831-2498100
Fax No	0831-2405467
Email	registrar@vtu.ac.in

Organization Chart (Organogram)

Vivekananda Institute of Technology



Principal
Vivekananda Institute of Technology
Gudimavu Kumbalagodu Kengeri Hobli,
BANGALORE - 560074

Establishment of Anti-Ragging Committee

Sl. No.	Committee Members	Designation	Phone No's
1	Dr. K.M. Ravikumar Principal	President	9880373629
2	Dr. D.V.Chandrasekhar, Vice-Principal, Professor & HOD	Member	9448394326
3	Dr. Bhagyalakshmi N Professor & HOD, Dept. of ECE	Member	9480261129
4	Smt Sathyavathi E V HOD, Dept. of ISE	Member	8884050005
5	Dr. Vidya A Professor & HOD, Dept. of CSE	Member	9986011084
6	Dr. Shivaraj B.W. Associate Professor & HOD, ME	Member (Co-ordinator)	7338614265
7	Prof. Harish T S Professor &HOD,CE	Member	8197942065
8	Dr. Shaila K Professor & HOD, Dept. of AI & ML	Member	9964579958
9	Mr.Santhosh Kumar PED	Member	8880524787
10	Jyothi Girls Hostel Warden	Member	9901641513
11	Mr. Raghavendra Boys Hostel Warden	Member	6363481767
12	Police Sub Inspector, Kaggalipura Kanakpura Road, Bangalore	Member	080-28435250
Student Members			
1	Mr. Hemanth D.P. VII Sem ECE	Member	6363610472
2	Miss. Bhoomika R VII Sem AI & ML	Member	8073086624
3	Mr. Akash M VII Sem ME	Member	9845702287
4	Mr. Amith, VSem CSE	Member	8660403159
5	Miss. Niharika P, VI Sem ISE	Member	6362711022
6	Mr.Manoj G N VI Sem ISE	Member	7411841511
7	Miss Manyatha Vth Sem	Member	8088356296
8	Mr.Nithin Gowda M S VII AI &ML	Member	8310790963
9	Misss Deepthi., V Sem CSE	Member	9019556882
10	Miss Anusha U V CSE	Member	6362664394

Grievance Redressal Committee

Sl. No.	Committee Members	Designation	Phone No's
1	Dr. K.M. Ravikumar Principal	President	9880373629
2	Dr. D.V.Chandrasekhar, Vice-Principal, Professor & HOD	Member	9448394326
3	Dr. Bhagyalakshmi N Professor & HOD, Dept. of ECE	Member	9480261129
4	Smt Sathyavathi E V HOD, Dept. of ISE	Member	8884050005
5	Dr. Vidya A Professor & HOD, Dept. of CSE	Member	9986011084
6	Dr. Shivaraj B.W. Associate Professor & HOD, ME	Member (Co-ordinator)	7338614265
7	Prof. Harish T S Professor &HOD,CE	Member	8197942065
8	Dr. Shaila K Professor & HOD, Dept. of AI & ML	Member	9964579958
9	Mr.Santhosh Kumar PED	Member	8880524787
10	Jyothi Girls Hostel Warden	Member	9901641513
11	Mr. Raghavendra Boys Hostel Warden	Member	6363481767
12	Police Sub Inspector, Kaggalipura Kanakpura Road, Bangalore	Member	080-28435250
Student Members			
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3	Mr. Akash M VII Sem ME	Member	9845702287
4	Mr. Amith, VSem CSE	Member	8660403159
5	Miss. Niharika P, VI Sem ISE	Member	6362711022
6	Mr.Manoj G N VI Sem ISE	Member	7411841511
7	Miss Manyatha Vth Sem	Member	8088356296
8	Mr.Nithin Gowda M S VII AI &ML	Member	8310790963
9	Misss Deepthi., V Sem CSE	Member	9019556882
10	Miss Anusha U V CSE	Member	6362664394

Establishment of Online Grievance Redressal Mechanism

Online link for grievances of staff and Students:

grievancesvkit@gmail.com

Internal Complaint Committee

Sl. No	Position	Position in CICC	Gender	Mobile Number and E-Mail ID	Official Number
1	Smt.Sathyavathi E V Prof. Dept. ofISE	Chairperson	F	7899589186 sathyavathievs727@gmail.com	080-28437696/ 28437036
2	Prof.PavitraS Assistant Prof. Dept. of Civil	Faculty Member	F	8344330879 pavithracivilian@gmail.com	
3	Prof. B.V.Shilpa Assistant Prof. Dept. of BSH	Faculty Member	F	9945959777 shilpabv@gmail.com	
4	Prof. Deepthi K Asst. Prof., Dept. of CSE	Faculty Member	F	9591376119 deepthitk70@gmail.com	
5	Prof. Harshithaa M Asst. Prof. Dept of ECE	Faculty Member	F	9900005659 harshithaagowdam@gmail.com	
6	Mrs. Sunitha SDA-Office	Non-Teaching Member	F	9886659442 anandsunitha2004@gmail.com	
7	Mrs. Bhavya P.K. PA to Principal	Non-Teaching Member	F	9742851891 bhavyapk6@gmail.com	
8	Sakshi Dept. of AI & ML	Student	F	8310762022 holsamudresakshi@gmail.com	
9	Parvathi Revannavar	Student	F	8431578211 parvathirevannavar3@gmail.com	
10	Keerthana Dept. of ISE	Student	F	9483594331 yekeerthana@gmail.com	
11	K Swathi Dept. of ECE	Student	F	6363006164 kswathichikki@gmail.com	
12	Dr. Padmakshi Lokesh	NGO Member	F	9901926919 drpadmakshi@gmail.com	

SC/ST Committee

SL No	Name	Designation
1	Dr. Mohan Babu	Chairman
2	GangadharaiahH.N	Member
3	Suresh Kadenayankanahalli	Member
4	.Chandrika	Member

6. Programs

Name of the Programs approved by AICTE Under Graduate Programs

Sl. No	Course	Year of Est.	Approval Intake for the year (2025-26)
1	Electronics and Communication Engineering	1997	120
2	Computer Science and Engineering	1997	180
3	Information Science and Engineering	1998	120
4	Mechanical Engineering	2013	30
5	Civil Engineering	2013	30
6	Artificial Intelligence and Machine Learning	2020	90
		Total Intake	**570**

Name of the Programs Accredited by NBA Under Graduate Programs

-NIL-

ACCREDITATION STATUS OF VARIOUS COURSES

Under Graduate Programs

<table>
<tr><th rowspan="3">Sl. No</th><th rowspan="3">Name of the Department</th><th colspan="4">Accreditation Status</th></tr>
<tr><th colspan="2">NBA</th><th colspan="2">NAAC</th></tr>
<tr><th>From</th><th>To</th><th>From</th><th>To</th></tr>
<tr><td>1</td><td>Electronics and Communication Engineering</td><td rowspan="6" colspan="2">No</td><td rowspan="6" colspan="2">NAAC Accreditation B+</td></tr>
<tr><td>2</td><td>Computer Science and Engineering</td></tr>
<tr><td>3</td><td>Information Science and Engineering</td></tr>
<tr><td>4</td><td>Mechanical Engineering</td></tr>
<tr><td>5</td><td>Civil Engineering</td></tr>
<tr><td>6</td><td>Artificial Intelligence & Machine Learning</td></tr>
</table>

For each Programs the following details are to be given Under Graduate Programs

Sl. No.	Course	Intake	Durat ion (Year s)	Cut off marks/rank of admission during the last three years			Fees (As Approved by state Govt.)
				2025-26	2024-25	2023-24	
1	Electronics& Communication Engineering	60	4	L- 62443 H-225836	L-52959 H-185095	L-58833 H-158760	As per the Norms of State Government
2	Computer Science and Engineering	90	4	L- 33365 H-247415	L-33376 H-162917	L-34233 H-109691	
3	Information Science and Engineering	60	4	L-44542 H-243681	L-62118 H-154990	L-45801 H-134039	
4	Mechanical Engineering	30	4	-	L-518907 H-268642	L- H-197111	
5	Civil Engineering	60	4	L-189467 H-242374	L-199971 H-271117	L- H-202830	
6	Artificial Intelligence& Machine Learning	60	4	L-45463 H-189540	L-51980 H-271336	L-40443 H-133301	

Placement details for the Last Academic year

Year	Name of student who has been placed	Program graduated from	Year of graduation	Name of the employer with contact details	Pay package eat appointment (In INR per annum)
2024-25	Lakshmi Prasad V	ISE	2025	9113522849	4LPA
2024-25	Sumukha R Kashyap	CSE	2025	8073475514	4LPA
2024-25	CHANDAN K	CSE	2025	7676566584	4LPA
2024-25	Sanjay S J	ISE	2025	6366024023	4LPA
2024-25	Boya Lavanya	AIML	2025	9380867149	4-6LPA
2024-25	Shamita B V	AIML	2025	9986946027	4-6LPA
2024-25	Srusti S Deshmukh	AIML	2025	9113226365	4-6LPA
2024-25	Divya Shree D G	AIML	2025	7899843367	4-6LPA
2024-25	BennurKarthik	AIML	2025	8431930709	4-6LPA
2024-25	Bhavana B	AIML	2025	7975781990	4-6LPA
2024-25	Pratyushaa.K.R	CSE	2025	7899139841	4-6LPA
2024-25	Sri Gowri G	CSE	2025	8867248149	4-6LPA
2024-25	Jeevan R	CSE	2025	9620589505	4-6LPA
2024-25	Yashodha	CSE	2025	9110205145	4-6LPA
2024-25	Samridhi Raj Lakshmi	CSE	2025	7858063043	4-6LPA
2024-25	Deepak U	CSE	2025	9353146340	4-6LPA
2024-25	Pavithra S	CSE	2025	8618562005	4-6LPA
2024-25	Rajeev S	CSE	2025	8618701003	4-6LPA
2024-25	Abhishek.G	ISE	2025	9114098586	4-6LPA
2024-25	Mahesh A V	ISE	2025	8904644069	4-6LPA
2024-25	Lakshmi Prasad V	ISE	2025	9113522849	4-6LPA
2024-25	H Sripada Rao	CSE	2025	7619369147	4-6LPA
2024-25	Vishal V Nayak	ISE	2025	7676739832	4-6LPA
2024-25	Poorvika B C	CSE	2025	7411146168	4-6LPA
2024-25	KRUTHIKA Y N	CSE	2025	9606252591	4-6LPA
2024-25	Archana J	AIML	2025	7019433654	4-6LPA
2024-25	Gowtham D	CSE	2025	7019765319	4-6LPA
2024-25	Tejashree J Desai	ECE	2025	8123921040	4-6LPA
2024-25	Vishal V Nayak	ISE	2025	7676739832	6 LPA
2024-25	INSIA SARWATH	AIML	2025	9980797457	6 LPA
2024-25	Archana J	AIML	2025	7019433654	6 LPA
2024-25	Yashodha	CSE	2025	9110205145	6 LPA
2024-25	Manas	CSE	2025	7070399922	6 LPA
2024-25	Manas Kumar Pandey	CSE	2025	7070399922	2.8 - 10LPA
2024-25	Sumukha R Kashyap	CSE	2025	8073475514	2.8 - 10LPA
2024-25	Sanketh S Raykar	ISE	2025	8073373123	2.8 - 10LPA
2024-25	Shashank M S	AIML	2025	8123603099	2.8 - 10LPA
2024-25	Srusti S Deshmukh	AIML	2025	9113226365	2.8 - 10LPA
2024-25	Poorvika V C	CSE	2025	7411146168	2.8 - 10LPA

2024-25	Sri Gowri G	CSE	2025	8867248149	2.8 - 10LPA
2024-25	InsiaSarwanth	AIML	2025	9980797457	2.8 - 10LPA
2024-25	Bhavana A Ashrit	AIML	2025	7892997335	5-7 LPA
2024-25	Boyalavanya	AIML	2025	9380867149	5-7 LPA
2024-25	Tejeswini MJ	CSE	2025	6363711637	5-7 LPA
2024-25	Aditi Shenoy Y	ECE	2025	8197294887	5-7 LPA
2024-25	kavanacv c v	ISE	2025	8050186545	5-7 LPA
2024-25	Ranjan G	CSE	2025	72040 54312	3LPA
2024-25	GOVINDA NAIK	Civil Eng.	2025	6361894469	2LPA
2024-25	NANDANA N	Civil Eng.	2025	8217395339	2LPA
2024-25	Shalini P	CSE	2025	7204830958	4.2LPA
2024-25	Vilas U	CSE	2025	8147881947	4.2LPA
2024-25	Vandana GM	CSE	2025	6364400898	4.2LPA
2024-25	ShaziyaSulthana	CSE	2025	7411041267	4.2LPA
2024-25	Abhishek G	ISE	2025	9110498586	3.5LPA
2024-25	Bhavana A Ashrit	AIML	2025	7892997335	3.5LPA
2024-25	Bhavana B	AIML	2025	7975781990	3.5LPA
2024-25	Bhavana N S	ISE	2025	9380672262	3.5LPA
2024-25	Boyalavanya	AIML	2025	9380867149	3.5LPA
2024-25	Divya Shree D G	AIML	2025	7899843367	3.5LPA
2024-25	Inchara R	ISE	2025	8073833638	3.5LPA
2024-25	Milan Srinivas	CSE	2025	9513088030	3.5LPA
2024-25	Pooja C	ISE	2025	7204282792	3.5LPA
2024-25	Prajwal M	CSE	2025	9019648994	3.5LPA
2024-25	Rishi L	AIML	2025	8971665518	3.5LPA
2024-25	SahilRehman	AIML	2025	8050072105	3.5LPA
2024-25	Shamita B V	AIML	2025	9986946027	3.5LPA
2024-25	Sumanth S	ISE	2025	9019821481	3.5LPA
2024-25	Vandana GM	CSE	2025	6364400898	3.5LPA
2024-25	Nikhilsingh	CSE	2025	7007591541	3 LPA
2024-25	milansrinivas	CSE	2025	9513088030	3 LPA
2024-25	gowdaprajwal	CSE	2025	9019648994	3 LPA
2024-25	Vandana GM	CSE	2025	6364400898	3 LPA
2024-25	Mohammed Abu Talha	ISE	2025	9148074671	4 LPA
2024-25	Jeevan R	CSE	2025	9620589505	3-4.2 LPA
2024-25	Dhyan B	CSE	2025	9538446325	3-3.2 LPA
2024-25	Vandana GM	CSE	2025	6364400898	4.5LPA

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

Sl. No.	Name of the University	Address	Website	Accreditation status of the Universityinits Home Country	Ranking of theUniversity in theHome Country	Whetherthe degreeoffered isequivalent toanIndianDegree	NatureofCollaboration	ConditionsofCollaboration	Complete detailsofpaymenta studenthastomaketogetthefullbenefitofCollaboration
1	NIL								

Sl.No.	Name of the Faculty	Designation
Electronics & Communication Engineering		
1.	Dr.K.M.Ravikumar	Prof & Principal
2.	Dr.Bhagyalakshmi. N	Prof & HOD
3.	Dr.N.Udaya Kumar	Asst Prof
4.	Dr. Jyothilakshmi P	Assoc. Prof
5.	Kavitha. K .S	Asst Prof
6.	Ashritha S	Asst. Prof
7.	Mamatha. M	Asst Prof
8.	Monica. N.P	Asst Prof
9.	NaveenKumar. N	Asst Prof
10.	Arpitha. K.S	Asst Prof
11.	Anisha A.	Asst Prof
12.	Raghunandan G	Asst Prof
13.	Harshithaa M	Asst Prof
14.	Kavya S	Asst Prof
15.	Mohamed Parveez	Asst. Prof
16.	Lakshmikantha.D.B	Asst .Prof
17.	Jalaja T	Asst. Prof
18.	Pooja. D.N	Asst .Prof
Computer Science & Engineering		
1.	Dr.Vidya. A	Prof & HOD
2.	Dr. H G Bhemmanna	Professor
3.	Dr.Sijin. P	Assoc. Prof
4.	Dr.MohanBabu. V	Asst .Prof
5.	Deepthi. T.K	Asst Prof
6.	Hanumantharayappa. T.A	Asst Prof
7.	Devika Devi	Asst. Prof.
8.	Shalaja. S	Asst Prof
9.	Mamatha C. G.	Asst Prof
10.	Harshitha H.S	Asst Prof
11.	Kathyaini L.V	Asst Prof
12.	Viswanath Pani Bhate	Asst Prof
13.	Hemanth Kumar R	Asst Prof
14.	Chandini	Asst Prof
15.	Poornima H S	Asst Prof
16.	Swetha M	Asst Prof
17.	Dinesh S D	Asst. Prof
18.	Soumya M	Asst Prof
19.	Sunitha Shivalige Gowda	Asst. Prof
20.	Sowmya R	Asst. Prof
21.	Lakshmi K	Asst. Prof

22.	Bhavani N	Asst. Prof
Information Science & Engineering		
1.	Sathyavathi. E.V	Asst Prof & HoD
2.	Dr.D.V.Chandrashekar	Prof & Vice-Principal
3.	Dr. Vanajakshi P	Professor
4.	Suma N.	Asst.prof
5.	Basavaraj B C	Asst. Prof
6.	Ruhul. J	Asst.prof
7.	Chandrakala .V	Asst.Prof
8.	J.Durga prasad	Asst.Prof
9.	Pradeep Jagannath	Asst.Prof
10.	Ranjan J	Asst. Prof
11.	Nagesh Shashank	Asst. Prof.
12.	Yashashwini	Asst. Prof.
13.	Gujjaramma H	Asst. Prof.
14.	Sonali Kadwadkar	Asst. Prof
15.	Venu Appaji Gowda	Asst. Prof.
Artificial Intelligence & Machine Learning		
1.	Dr.Shaila. K	Prof.& HOD
2.	Dr. Shilpa B V	Assoc. Prof
3.	Dr. Shailesh. M.L	Assoc. Prof.
4.	Jamuna. H.G	Asst Prof
5.	Vachana C	Asst. Prof.
6.	Darshan T.G	Asst prof
7.	Sanjay K Nagendra	Asst. Prof.
8.	Lavanya C	Asst.prof
9.	Sneha L S	Asst.prof
10.	Earanna T	Asst.prof
11.	Anushree K	Asst. Prof
12.	Arpitha R	Asst. Prof
13.	Sangeetha. A.N	Asst Prof
14.	Nishcitha . S	Asst Prof
15.	Vidya V	Asst prof
16.	Thejaswini. R	Asst .Prof
17.	Shivanna	Asst Prof
18.	Shrunga	Asst. Prof
Mechanical Engineering		
1	Dr. Shivaraj. B.W	Assoc Prof & HOD
2	Dr. Suresh M.P	Professor and R&D Head
3	Dr. Manjunath R	Assoc. Prof
4	Harsha.R .N	Asst .Prof
5	Devaraju. G.P	Asst .Prof
Civil Engineering		
1	T.S.Harish	Asst .Prof
2	Pavithra. S	Asst .Prof
3	Soubhagya S Bagojikoppa	Asst .Prof
4	Navya. K.S	Asst .Prof
5	Puttaswamy B G	Asst. Prof

6	Pradeep N	Asst Prof
7	Siddaraju N	Asst. Prof.

Others

Sl. No.	Name of the Faculty	Designation
1.	Santhosh Kumar	PED
2.	Rekha H P	PED
3.	Dr. Manjunatha N	Librarian
4.	Dr. Giridhar Nadoni	Librarian

Electronics & Communication Engineering				
Sl No	**Name of the Faculty**	**Qualification**	**Designation**	**Experience in years**
1	H .M. Rajanna	Diploma	Foreman	25.7
2	Madhu H.D.	Diploma	Lab Instructor	1.2
3	Jai Kumar B	Diploma	Lab Assistant	11.5
4	M. Prashantha	SSLC	Office Assistant	11.6
Computer Science and Engineering				
1	Suresh. K	Diploma & B.E CSE	Programmer	20
2	Manjunatha. B.M	Diploma & BE CSE	System Analyst	15
3	Puneeth. D.J	Diploma in ECE	Lab Instructor	5
4	Lakshminarayana M.D	Diploma In CSE(B.Sc)	Lab Assistant	15
5	Thejashwini B	BE CSE	Lab Instructor	1
6	Bindhushree K	BE CSE	Lab Instructor	1
6	Ravindra H.C.	M.Com	Office Assistant	2.5 (in Sales)
7	Ramalinge Gowda R P	S S L C	Driver(attender)	27
Information Science & Engineering				
1	Govardhana G R	Diploma CSE	Lab Instructor	27.5
2	Krishnaveni	B E(M.Tech)	Lab Instructor	1
3	Baby Shalini D	B E	Lab Instructor	1
4	Chandrika P	B E(M.Tech)	Lab Instructor	0.7
5	Hithaishi M A	B E(M.Tech	Lab Instructor	0.7
6	Jyothi C.B.	B.Sc	Office Assistant	1
Artificial Intelligence & Machine Learning				
1	Umesh R.H	B E(M.Tech	Lab Instructor	0.6
2	Harsha C N	B E(M.Tech	Lab Instructor	0.6
3	Sai Prakash	B E(M.Tech	Lab Instructor	0.6
4	Monish M	B E(M.Tech	System Analyst	1
5	Deepak M.S	Diploma in	Lab .Asst	0.4
Civil Engineering				
1	Arun M	Diploma	Lab Instructor	10.3
2	Shivappa H T	JOC in Surveying	Lab Assistant	10.2
3	Rajamudi B P	SSLC	Attender	20
Mechanical Engineering				
1	Mr. Mohan Kumar. D	Diploma in Mechanical Engg.	Lab Instructor	29
2	Mr. Kumar. K	N.T.C	Lab Assistant	29
3	Mr. Chandrashekar. K.C	N.T.C	Lab Assistant	29
4	Shivamma	(SSLC)	Sweeper	24
Basic Science & Humanities				
1	Puttaswamy Gowda A B	M. Sc	Lab Instructor	24
2	Shrunga H V	M. Sc	Lab Instructor	10
3	Kumar R	B Pharmacy	Lab Technician	26
Placement Dept.				
1	**Arpitha R**	**MBA**	**Asst-Placement**	**0.6**

Administrative Staff Details Library				
Sl No	**Name of the Faculty**	**Qualification**	**Designation**	**Experience in years**
1	Mr. R.E.Narayana	M.Sc, M.LISc.	Librarian	29
2	Dr. Manjuanth N	MLISc., M.Phil, Ph.D.	Asst. Librarian	18
3	Gayathri M	Diploma in Library Science	Library Asst.	22
4	Manjunatha B	SSLC	Helper	21.5
5	Sarajomma	(SSLC)	Sweeper	22.8
Admin/Accounts Dept.				
1	Basavarajappa Pated	B.Com, CA Inter	Senior Accountant	10
2	Sunitha H	M.Com	SDA	21.6
3	Govindaraju B	BA	SDA	10.1
4	Gangadharaiah H.N.	B.Com	Cashier	8
5	Prakash R	B.Com	Account.Asst	1
6	Nikhil Kumar V	ITI	Asst. Instructor	10
7	Narasimha R	ITI	Office Asst.	2
8	Bhavya P K	B.Com	P A Princepal	1
9	Deepa H	BCA	SDA	5
10	Kamalamma T.H.	SSLC	Sweeper	22
11	Lakshmi Devi R	B.Com	Account.Asst	0.3
Estate office				
1	Dinakar	B.E. in Civil	Asst. Engineer	1
2	Kapane Gowda. K . B	SSLC, I T I, Electrical	Electrician	23
3	Guruprasad. S	SSLC, I T I, Electrical	Electrician	6
4	Venkatachlamurthy. T. H	SSLC	Helper	20
5	Ramesha. T	SSLC,HTC	Horticulture Asst	20
6	Krishna Murthy. C.K	BA	Attender	20
7	Mahalingaiah	-	Scavenger	20
8	Ramu	-	Gardner Asst	01
9	Amrit Kumar Swain	10th Std.	Plumber	0.8
10	Shivanada S	……	Carpenter	0.8
Hostel Warden				
1	Ragavendra A	B'Com	Boys Hostel Warden	2
2	Jyothi J.V.	BA	Girls Hostel Warden	1.2
Transport				
1	Channaiah G Hiremath	7th Std.	Driver	20
2	Raju . K	(SSLC)	Driver	16
3	Prakasha	SSLC	Driver	15
4	Dinesha. V	SSLC	Driver	14
5	Natesha . M . M	_	Driver	14
6	Putte Gowda	_	Driver	12
7	Govinda.D	SSLC	Driver	10
8	Gudda Chennaiah	SSLC	Driver	8
9	Rangappa	7th Std	Driver	7
10	Somashekar. M	SSLC	Driver	2
11	Ravi. K	5th Std	Driver	2
12	Krishna Murthy. N	SSLC	Driver	1.2

PERMANENT FACULTY: STUDENT-RATIO

SL NO.	Department	No. of Faculty	No. Of Students (II,III,IV Year)	Ratio
1	Electronics &Communication Engineering	10	245	24.5
2	ComputerScience and Engineering	10	459	45.9
3	Information Science and Engineering	6	208	34.66
4	Mechanical Engineering	04	30	7.5
5	Civil Engineering	04	23	5.75
6	Artificial Intelligence and Machine Learning	08	266	21.28
7	Physics	03	-	
8	Chemistry	02	-	
9	Mathematics	05	-	
Total		**54**	**1231**	**21.59**

Profile of Principal

Name	Dr.K.M.Ravikumar
DateofBirth	19-06-1975
UniqueID	1SJEC0003124
WorkingExperience	Teaching: 25yrs Research Industry
Others	-
AreaofSpecialization	Electronics&CommunicationEngg.
Courses taught at Diploma/ Post Diploma/Under Graduate/Post Graduate/PostGraduateDiploma Level	Digital Signal Processing Microprocessor DigitalCommunication Signals & Systems
ResearchGuidance(No.OfStudents):	10Students
No. OfPaperspublished:inNational /International/Journals/Conferences	Journal National : 23 InternationalConferences-23 NationalConferences-8
No.OfBooksPublishedwithdetails (Name of the Book, Publisher with ISBN, Year of Publication Etc.	Automatic Detection of Syllable Repetition in Read Speech for Objective Assessment of StutteredDisfluencies", PWASET, International Journal on Signal Processing, Vol.36, October 2008, pp. 270-273. "An Approach for Objective Assessment of Stuttered Speech Using MFCC Features", ICGST, International Journal on Digital Signal Processing, Vol.9, June 2009,Issue.1,pp.19-24. "*Temporal Dynamics of Repetitions during the Early Stage of Stuttering: An Acoustic Study*" International Journal on Advanced Networking and Applications, IJANA, Vol.02, November 2010, Issue: 04, pp. 784-787. "Comparison of Multidimensional MFCC Feature Vectors forObjective Assessment of StutteredDisfluencies"InternationalJournalon Advanced Networking and Applications, IJANA,Vol.02,April2011,Issue:05,pp.854-860. "Stuttered Speech: An Acoustic Study" International Journal of Computer

	EngineeringScience, IJCES, Vol.02, March 2012, Issue:01, pp.17-23, ISSN:2250:3439. "Analysisofinfantcrysignal:Basicapproach", Midas Touch International Journal of Commerce, Management and Technology, Volume 2, No. 1, January- 2014, pp.56-61, ISSN:2320-7787. "Stutteredspeechanalysis usingclassification for objective assessment of early stutter", Midas Touch International Journal of Commerce, Management and Technology, Volume2, No. 1, January-2014, pp.62-66, ISSN:2320 -7787. "Efficient Comparator based Sum of AbsoluteDifferencesArchitectureforDigital Image Processing Applications", International Journal of Computer Applications, Volume 96, No. 4, June2014, pp.16781-6365, ISSN:973-93-80882-24-0. "Acoustic Noise Classification and CharacterizationUsingStatisticalProperties", InternationaljournalofEmergingTechnology and Advanced Engg,.ISSN 2250-2459, ISO9001:2008, vol. 4 ,Issue6, June2014 . "Intelligibility Of Speech Using ShortTime Fourier Transform Phase Spectrum" International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number18 , pp 39550-39557 , 2015 (ScopusIndexed Journal). "EEG Based Patient Monitoring System for Mental Alertness Using Adaptive Neuro- Fuzzy Approach," Journal of Medical and Bioengineering,Vol.4,No.1,pp.59-66, February2015.Doi:10.12720/jomb.4.1.59-66. "Effectof0dBand20dBVehicleNoiseon

	StutteredSpeech:AStudy,"*International Journal of* Computer Application,2 015(1):19-23, May2015. http://www.ijcaonline.org/proceedings/icctac2015/number1/20920-2007 **"DecodingBabyTalk:BasicApproachfor NormalClassification of InfantCrySignal," *International Journal of* Computer Application, 2015(1): 24-26, May 2015. http://www.ijcaonline.org/proceedings/icctac2015/number1/20921-2008** "**Energy Efficient VLSI Architecture for Image Enhancement Application"** International Journal of Applied Engineering ResearchISSN0973-4562Volume10,Number 20 (2015) pp 41413-41418 © Research India Publications. http://www.ripublication.com,**IJAER, SCOPUS INDEXED JOURNAL.** **"IMAGETRANSMISSIONINOFDM USING M-ARY PSK MODULATIONSCHEMES –A COMPARITIVE STUDY," International Journal of Research in EngineeringandTechnology,e-ISSN 2319-1163,** **" EEG Based Emotion Recognition Using Wavelets andNeuralNetworks Classifier", In: Cognitive Science and Artificial Intelligence. Springer Briefs in Applied Sciencesand Technology. Springer, Singapore, 23 December 2017 .PP 101 -112 https://link.springer.com/chapter/10.1007/978-981-10-6698-6_10** **" AnAlgorithmto Detect EmotionStates and Stress Levels Using EEG Signals", International Journal of Latest Research inEngineeringandTechnology(IJLRET) ISSN:2454-5031www.ijlret.com‖PP.05-12,**

	December2017. **http://www.ijlret.com/Papers/NC3PS2017/2.pdf** **"Region of interest based selective medical imageencryptionusing multichaoticsystem"** International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECCOT-2017) in association with IEEE Bangalore section organized by GSSS Institute ofEngineeringTechnologyforWomen,Mysuru held on 15th-16thDecember 2017. **"DetectionofHumanemotionsusingfeatures based on discrete wavelet transform of EEG signals"** InternationalConference onEmerging Trends in Science & Technologies for Engineering Systems, Dept. of ECE/TCE/EEE, SJCIT, Chickballapur, 11th& 12t January 2018. **(Scopus Indexed Journal)** **"Impulse Noise Cancellation in an OFDM system transmitting Medical Images using dual transform& geometric adaptive filter**" InternationalConferenceonemergingTrendsin Science&technologiesforEngineeringSystems (IJARTET) held on 11th& 12th January2018. **"Real Time implementation of Alertin and Tracking System for Chain Snatching"** Published in e-journal-International Journal for Science and Advance Research in Technology (IJSART), May 2019. **"Studentriskidentificationlearningmodel using machine learning approach"** PublishedinInternationalJournalofElectrical and Computer Engineering,October2019. **"StudentRiskIdentificationModelUsing Random Forest Algorithm"** Published in European Journal of Molecular & Clinical Medicine (ISSN 2515-8260 Volume 07, Issue08)December2020
Master	Completed
Ph.D	Completed

Projects CarriedOut	01
Patents(Filled &Granted)	01
TechnologyTransfer	-

FEE

DETAILS OF FEE, AS APPROVED BY STATE FEE COMMITTEE, FOR THE INSTITUTION

Time schedule for payment of Fee for the entireProgramme

A.Y	Duration(Inmonths)
2025-26	Course Duration: 4 years, 8 Semesters (Fee will be collected every year during starting of Academic year. Permissible to pay within one month of starting of Academic year in special cases
2024-25	Course Duration: 4 years, 8 Semesters (Fee will be collected every year during starting of Academic year. Permissible to pay within one month of starting of Academic year in special cases
2023-24	Course Duration: 4 years , 8 Semesters (Fee will be collected every year during starting of Academic year.Permissible to pay within one month of starting of Academic year in special cases
2022-23	Course Duration: 4 years , 8 Semesters (Fee will be collected every year during starting of Academic year. Permissible to pay within one month of starting of Academic year in special cases

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

A.Y	No. Of Students	Sanctioned Amount
2021-22	11	1,40,000
2022-23	20	1,40,000/-
2023-24	23	2,84,000/-
2024-25	29	3,68,000/-

Sl. No.	Name of the Student	USN	Concession Amount	Concession Given by
1	Kushwanth M.G.	1VK24EC024	5000	Secretary, JES
2	Minchana B.A	1VK24EC032	10000	President, JES
3	Vaishnavi P	1VK24CS120	10000	JES Order
4	Eshan Gowda	1VK24CS027	20000	Secretary, JES
5	Chandrika	1VK24CS020	10000	Secretary, JES
6	Pragathi N.D.	1VK24CS063	20000	Secretary, JES
7	Navya P	1VK24IS027	15000	Secretary, JES
8	Trisha A	1VK24IS074	10000	JES
9	Sahana H.S.	1VK24AI062	10000	President
10	Srinivasa R	1VK24AI071	10000	JES Order
11	Karnam Lathish	1VK24AI027	5000	JES Order
12	Sandhya D.N.	1VK24EC048	19000	JES Order
13	Ananya H	1VK23CS006	19000	JES Order
14	Anusha V	1VK23CS008	10000	Principal
15	Ashritha S Bhat	1VK23IS007	10000	JES Order
16	Hemanth Aradhya	1VK23IS018	10000	Secretary, JES
17	Kishore S	1VK23IS026	10000	Secretary, JES
18	Haridra A.B.	1VK23AI013	10000	Secretary, JES
19	Ullas R Gowda	1VK23AI056	10000	Secretary, JES
20	Sowmya S Jidagi	1VK22EC047	10000	JES Order
21	Shalini T.R.	1VK24EC043	10000	Secretary, JES
22	Kavitha S	1VK22IS024	20000	Principal
23	Kushal V	1VK21CS035	10000	Secretary, JES
24	Varun V	1VK21CS087	5000	JES Order
25	Pallavi R	1VK21IS032	10000	Secretary, JES
26	Kavitha S	1VK22IS024	20000	Principal
27	R.A Hemanth	1VK21IS039	10000	President, JES
28	Yashwanth N	1VK21IS037	5000	Secretary, JES
	TOTAL in Rs.		**Rs. 3,68,000/-**	

AcademicYear: 2023-24					
Sl. No.	**Name of the Student**	**USN**	**Total Demand**	**Concession Amount**	**Concession Given by**
1	ANANDA B H	1VK23EC005	120000	10000	SECRETARY, JES
2	ARJUN P	1VK23EC009 (CET)	123265	10000	SECRETARY, JES
3	ANUSHA V	1VK23CS008	210000	10000	PRINCIPAL
4	ANANYA H	1VK23CS006 (CET)	123265	19000	JES
5	SHASHANK K N	1VK23IS047	175000	10000	PRINCIPAL
6	YASHASHWINI R	1VK23IS062	175000	10000	PRINCIPAL
7	MANASA N	1VK23IS029	160000	10000	PRESIDENT,JES
8	KISHORE S	1VK23IS026	160000	10000	SECRETARY, JES
9	HEMANTH ARADHYA	1VK23IS018	160000	10000	SECRETARY, JES
10	VARSHINI M C	1VK23IS059 (CET)	123265	10000	PRINCIPAL
11	NISARGA P	1VK23AI035	130000	10000	PRINCIPAL
12	POOJITHA U	1VK23AI037	130000	10000	PRINCIPAL
13	ULLAS R GOWDA	1VK23AI056	130000	10000	SECRETARY, JES
14	HARIDRA A V	1VK23AI013	150000	10000	PRINCIPAL
15	SHALINI T R	1VK22EC043	80000	10000	PRESIDENT,JES
16	SOWMYA S JIDAGI	1VK22EC047	80000	10000	PRESIDENT,JES
17	NIRANJAN N	1VK22CS049	180000	10000	PRESIDENT,JES
18	HARSHITHA K C	1VK22IS018	150000	10000	PRESIDENT,JES
19	KUSHAL V	1VK21CS035	140000	10000	SECRETARY, JES
20	VARUN V	1VK21CS087	100000	50000	SECRETARY, JES
21	PALLAVI R	1VK21IS032	100000	10000	SECRETARY, JES
22	SUNIL N	1VK18CV021	91500	5000	SECRETARY, JES
23	ARCHANA B	1VK20AI004	101500	20000	SECRETARY, JES
	TOTAL in Rs.			**2,84,000**	

Academic Year: 2022-23					
Sl. No.	**Name of the Student**	**USN**	**Total Demand (in Rs.)**	**Concession Amount (in Rs.)**	**Concession Given by**
1	SHALINITR	1VK22EC043	80000	10000	JES
2	SOWMYASJIDAGI	1VK22EC047	80000	10000	JES
3	GAGANAKEERTHIG	1VK22CS024	170000	10000	JES
4	TEJASGOWDAM	1VK22IS057	70000	10000	JES
5	JAYANTHBV	1VK22IS021	150000	10000	JES
6	NIHARIKA P	1VK22IS038	150000	10000	JES
7	KEERTHANAKR	1VK22IS026	150000	10000	JES
8	NITHINGOWDAMS	1VK22AI025	120000	10000	JES
9	GOWTHAMS	1VK22AI013	120000	10000	JES
10	NAGENDRAM	1VK22ME005	55000	10000	JES
11	AKASHMP	1VK22ME004	55000	10000	JES
12	VARSHINIBN	1VK21EC023	80000	10000	JES
13	KUSHALV	1VK21CS035	140000	10000	JES
14	PALLAVIR	1VK21IS032	110000	10000	JES
Total				**140000**	

Academic Year:2021-22					
Sl. No.	**Name of the Student**	**USN**	**Total demand**	**Concession Amount**	**Concession Given by**
1	HARSHITHKUMARH	1VK21EC012	80000	10000	JES
2	VARSHINIBN	1VK21EC023	90000	10000	JES
3	VARUNV	1VK21CS087	140000	40000	JES
4	KUSHALV	1VK21CS035	140000	10000	JES
5	MANOJV	1VK21IS025	110000	10000	JES
6	AMRUTHAS	1VK21CS003	90000	10000	JES
7	ARCHANAB	1VK20AI004	100000	10000	JES
8	DEEPASHREE R	1VK20IS010	100000	10000	JES
9	SAHANAN	1VK19CS040	90000	10000	JES
10	DARSHANC GOWDA	1VK19CS013	115000	10000	JES
11	SONUKCHRISTY	1VK18CS048	101500	10000	JES
Total				**1,40,000/-**	

Number of scholarships offered the Institution, duration and amount

A.Y	Numberof Scholarshipoffered	Duration(In Years)	Amount(Rs)
2021-22	21	1	3,15,000/-
2022-23	20	1	3,15,000/-
2023-24	26	1	3,90,000/-
2024-25	25	1	3,75,000/-

Estimatedcost of boarding and Lodging in Hostels

A.Y	Estimated cost of boarding and Lodging (Rs)
2022-23	Boy's Hostel –Rs. 65,000/-P.A Girl's Hostel-Rs. 60,000/ P.A
2023-24	Boy's Hostel –Rs. 65,000/-P.A Girl's Hostel-Rs. 60,000/ P.A
2024-25	Boy's Hostel –Rs. 85,000/-P.A Girl's Hostel-Rs. 65,000/ P.A
2025-26	Boy's Hostel –Rs. 80,000/-P.A Girl's Hostel-Rs. 80,000/ P.A

Admission

Number of seat sanctioned with the year of approval & No.of Students admitted under various Categories each year in the last three years

Programme Level	NameofProgramme/ Course	No. Of Seats Sanctioned For 2025-26	No. of students admitted		
			2025-26	2024-25	2023-24
UG	Electronics& CommunicationEngineering	120	50	57+06	57+1(SNQ)
	ComputerScienceand Engineering	180	157	115+08	75+4(SNQ)
	Information Science and Engineering	120	39	44+06	59+3(SNQ)
	Mechanical Engineering	30	04	07+01	3+1(SNQ)
	Civil Engineering	30	05	06+01	1+2(SNQ)
	Artificial Intelligence & MachineLearning	90	87	75+05	58+3(SNQ)
	Total	**570**	**342**	**304+27**	**267**
Ph.D	Electronics& Communication Engineering				0
	ComputerScienceand Engineering	-	-		-
	Mechanical Engineering	-			-
	CivilEngineering	-			-
	Mathematics	-			-
	Chemistry	-			-

Number of application received during last year for admission under Management Quota and Number of Students admitted

Application Received: 34

Admitted: 34

AdmissionProcedure

Mention the admission test being followed,name and address of the TestAgency/State Admission Authorities and itsURL(website).

Admissiontest Name	Address	URL
KEA/CET	Karnataka Examination Authority, Sampige Road, 18thCross, Malleshwaram, Bengaluru -560 012Phone No. 080 - 23460460	https://cetonline.karnataka.gov.in/kea/
COMED-K	#132,SecondFloor,11thMain, 17thCross, Malleswaram, Bangalore-560 055	https://www.comedk.org/

No. Of Students allotted different Test qualified Candidate separately (AIEEE/JEE/CET/State Conducted Test/University Test (CMAT)/Association conducted Test etc.

Admissions Current Academic year2025-26

Branch	**KEA**	**Comed-K**	**Total**
Electronics&Communication Engineering	46	-	46
ComputerScience&Engineering	111	-	111
Information Science & Engineering	29	-	29
ArtificialIntelligence&Machine Learning	40	-	40
CivilEngineering	04	-	04
MechanicalEngineering	02	-	02
Total	**232**	**-**	**232**

Calendar for admission against Management Quota Seats

The probable date is from July to October (Based on theAvailability of Seats)

Last Date of Request for Applications: 15.09.2025:

For the year 2025-26

Last Date for Submission of applicants: 15.09.2025

(As Per AICTE) for the year2025-26

Dates for announcing final results–**As per the prescribed date announced from Competent Authority**

Releaseofadmissionlist: **Main list and waiting list shall be announce on the same day**

Date of Acceptanceby the candidate-**Asper date announced byApproval authorities from time to time.**

Last date for Closing of Admission: As Prescribed by AICTE/VTU/GOK starting

of the academic session: As Prescribed by AICTE/ VTU

Criteria and Weightages for Admission

Describe each criterion with its respective weightage i.e.AdmissionTest, marks in qualifying examination, etc.,

As per Govt.Norms

Mention the minimum Level of Acceptance, if any

As per Govt.Norms

List Admission under Management Seats/Vacant Seats

List of Candidates who have been offered admission

Artificial Intelligence & Machine Learning

1	AMRUTHA A H
2	AVINASH P S
3	BOYA LOKESH
4	CHANDAN KUMAR K
5	CHARANYA R
6	DHANUSH KUMAR G
7	DURAIRAJ V

8	HARSHANANDA N
9	HARSHITH D
10	JEEVANRAJ B
11	LIKITH C
12	MOULYA B S
13	NISHA B V
14	THANUSHREE K B
15	VIDUSHI JHA
16	VINNU H R
17	VISHNU PRIYA D
18	YASHWANTH P

Computer Science and Engineering

1	LAHARI M R
2	MOHAMMED ROOMAN PASHA
3	NIVEDITHA RAJ J
4	THARUN S N

Electronics & Communication Engineering

1	HARSHITHA
2	MAHESH M S
3	MITHUN U
4	POOJA KADADI
5	SANGAMESH
6	VISHAL

Mechanical Engineering

Sl. No	Name of the Student
1	DHANYASHREE
2	KARTHIK SAVANUR
3	KISHAN GOWDA N
4	SUHAS T

Civil Engineering

Sl. No	Name of the Student
1	INDIRA N
2	MALLINATH B S

Central Examination facility- Number of rooms and capacity of eac h **Room with 30 Capacity**

Online examination facility -Available

No.Of Nodes-200, Internet band Width etc.-**300 Mbps**

Barrier free Built Environment - Available

Fire and Safety Certificate - Not Available

Hostel facilities-**Avilable**

ComputingFacilities: Available

InternetBandWidth: 300MBPS

Innovation Cell: Available

Socia lMediaCell: Available

Games & Sports facilities -Available

Information of Infrastructure and Library:

- Number of Library books/Titles/Journals available (Programme-wise)

SL. No.	Branch	No.Books	No. of Titles	No.Of Journals
1	E&CE	10086	2192	**Subscribed VTU Consortium 11261+**
2	CS&E	5706	1552	
3	IS&E	4385	947	
4	ME	1233	395	
5	CE	1771	430	
6	AI&ML	669	237	
7	BSH	3388	757	
8	Donoated Book	159	20	
7	Govt. Books	288	70	

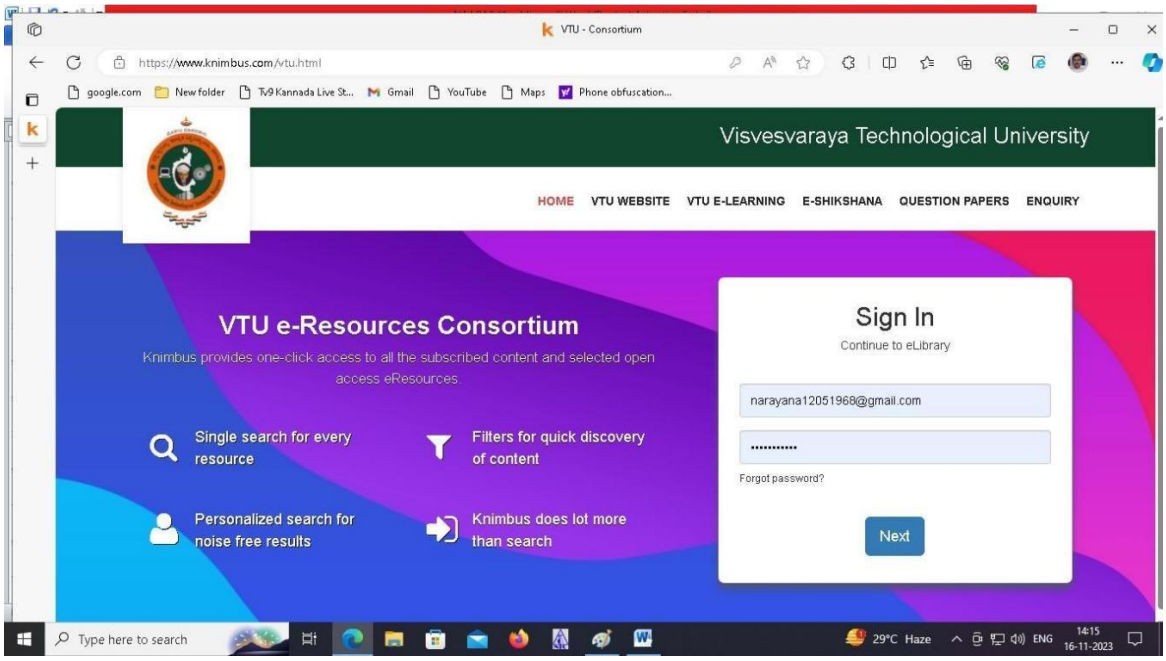
8	VTU Hand Book	847	04
Total		**28950**	**6604**

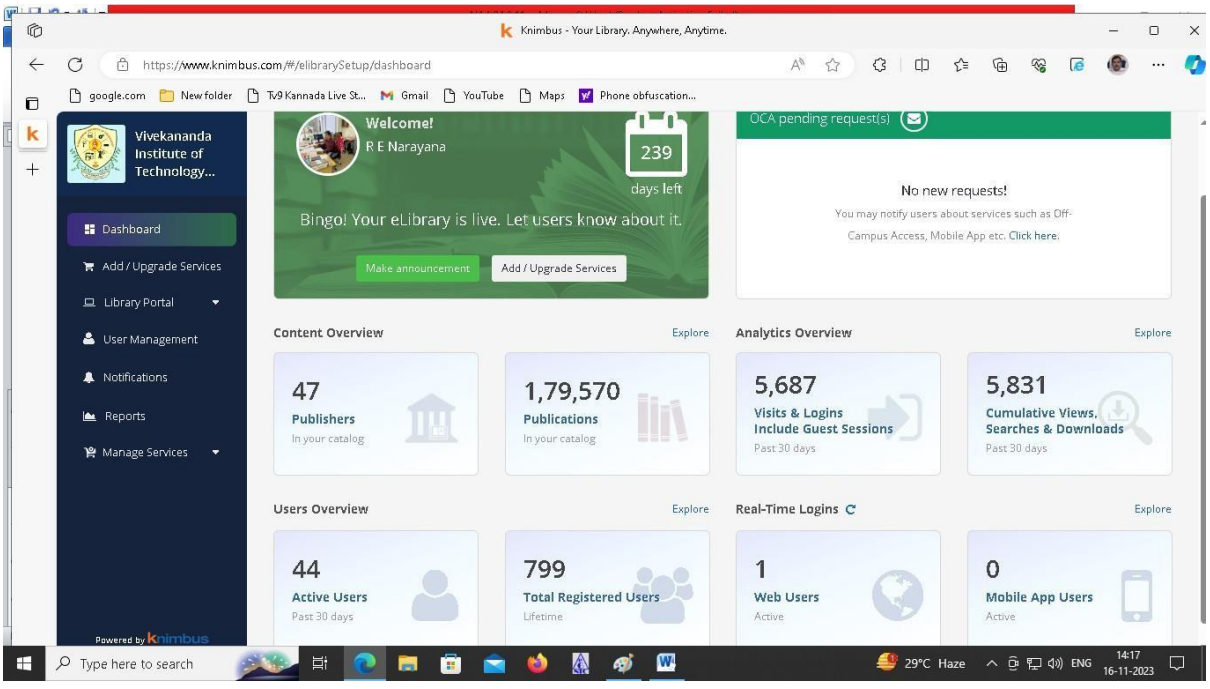
- List of online National/International Journals subscribed-

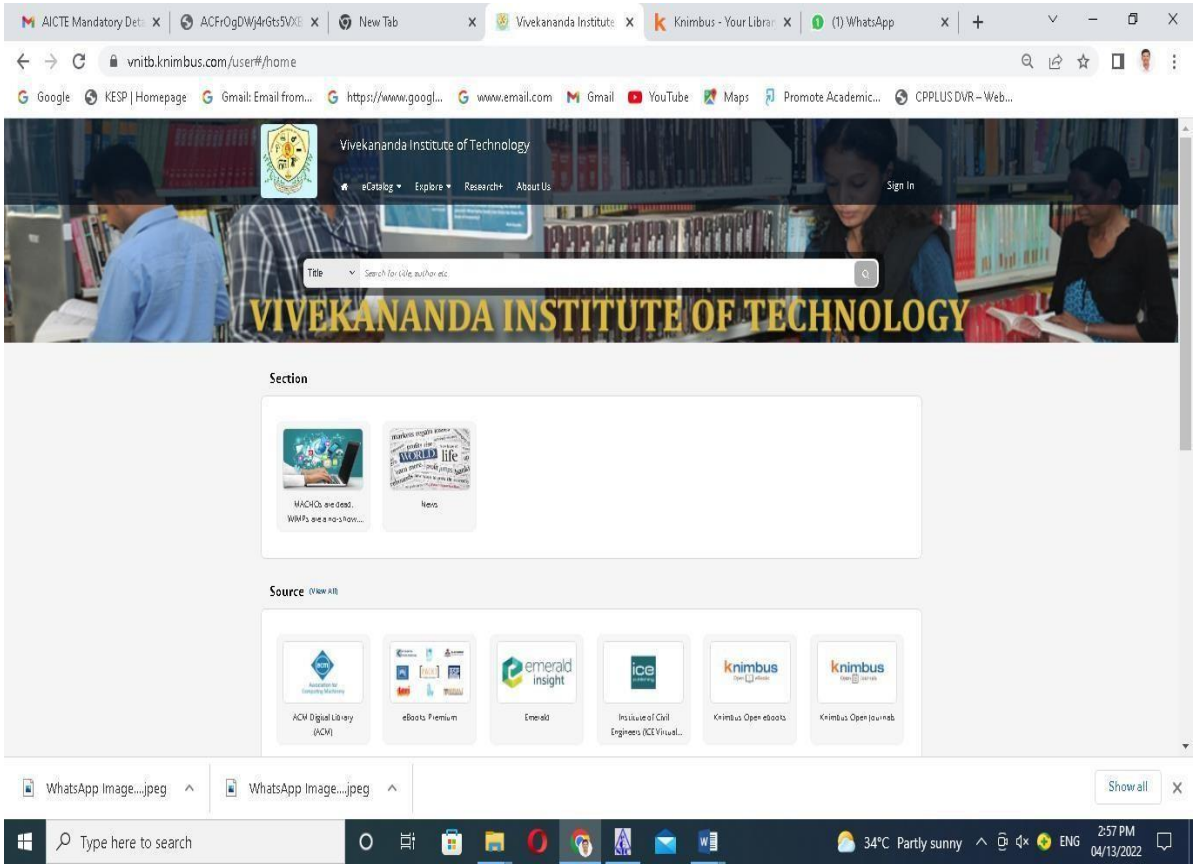
Through Subscribed VTU Consortium

- E-Libraryfacilities

Yes, E-Libraryfacilities available inVKIT libraryThrough–K-Nimbus Digital library platform (Subscribed VTU Consortium)



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Sl. No.	Department	LaboratoryName	Equipment/FacilitiesDetails	Remarks
	CIVIL ENGINEERING	BUILDING MATERIALS TESTINGLAB	UniversalTestingMachine–100 Tonne Capacity, Impact Testing Machine, Torsion Testing Machine, Brinnell's Hardness Testing Machine, Vicker's Hardness Testing Machine, Rockwell's Hardness Testing Machine,TilesTestingMachine, SieveShaker,DigitalOven,Fine Sieves Made of Brass200mm dia (1 Set), Coarse Sieves of 300mm dia made of GI (3 Set), Pycnometer (8 No's), Graduated Cylinders (50ml, 100ml, 500ml, 1000ml),MetalCylinder(3No's), Tamping Rod (3 No's), Vernier Calipers(5No's), Straingauge(1 No.), Deflectometer (6 No's), Metal Wire basket (5 No's), Polythene Wash Bottle (2 No's), WeighingBalance(6kg–2No's, 10kg–2 no's,15kg– 2No's)	
		SURVEY LAB	Dumpy Level model DL-9 with stand (8 No's), Auto Level with stand (8 No's), Vernier Theodolite with stand (8 No's), Pentax Total station R-205NE with with Accessories (2 No's), Electronic Measurement Device (1 No.), Digital Planimeter (2 No's), Open crossstaff(8No's),OpticalSquare (8 No's), Prism square (2 No's), CeylonGhat tracer (5 No's), Hand Level (1 No.), Surveyor Compass with stand (1 No.), Clinometer Compass withstand(1 No.), Invar tape-15mt.(1No.),Synthetictape (1 No.), Tape-30 mt. (12 No's), Metric Chain-30mt. (12 No's), Engineer'sChain(1No.),Gunter	

			chain-10mt. (1 No.), Revenue chain-20mt. (1 No.), Cloth tape (2 No's), Levelling Staff-5mt. (10 No's), Steel band tape-20mt. (6 No's),Metallictape-15mt.(1No.), Peg(20No's),Boxsextant(1No.), Pantagraph (1 No.), Plane table (8 No's), Ranging rod (40 No's), Arrows(120No's)	
		APPLIED ENGINEERING GEOLOGYLAB	Rock & Mineral samples (80 No's),Gelogicalhammers(5No's), Moh's scale of hardness kit (10 No's), Pocket knife (10 No's), Pocket lense (10 No's), Pocket Magnet (5 No's), streak plates (20 No's), Compass clinometer (2 No's), Streak Plates (20 No's), Geological and Mineral Atlas of India(1No.)	
		HYDRAULICS &HYDRAULIC MACHINERYLAB	Pelton wheel turbine (1 No.), Francis Turbine (1 No.), Kaplan turbine (1 No.), Venturiflume (1 No.), Venturimeter (1 No.), Jet vanes(1 No.), Nozzle Meter (1 No.), Pipe Friction Apparatus (1 No.),Reciprocatingpump(1No.), Multi stage centrifugal pump (1 No.), Notches, Major and minor losses Apparatus (1 No.), Bernoulli's theorem verification apparatus(1No.),Verticalorifice meter(1No.)	
		COMPUTER AIDEDDESIGN LAB	DELL Desktop Computer (25 No's), Dell T20 Edge Server (1 No.), Laserjet Printer (1 No.), MultifunctionPrinter-Scanner(1 No.), AutoCAD Software (25 No's),STAADProV8iSoftware (25No's),EmersonLiebertmake GXTMTSeries10KVAUPS (1 No.)withLeochmakeBatteries-12V, 65AH (20 No's), Epson Projector X18 (1 No.), Prolitewallmount ProjectionScreen-6'x4'	

			(1 No.)	
		GEOTECHNICAL ENGINEERING LAB	Triaxial Shear Apparatus (1 No.), LiquidLimitDevice(Motorized)(3 No's), Shrinkage Limit Apparatus (3 No's), Direct Shear Apparatus (Motorised) (1 No.), Unconfined Compression Test Apparatus (Motorised) (1 No.), Fine Sieves Made of Brass200mm dia (1 Set), Coarse Sieves of 300mm dia madeofGI(1Set),Pycnometer(5 No's), Consolidation Apparatus (Single Gang) (1 No.), Universal Permeability Apparatus (1 No.), VaneShearApparatus(Motorised) (1 No.), Compaction Apparatus (2 No's), Sand Pouring Cylinder (Small) (3 No's), Soil Extruder(Rack Type) (2 No's), CBR Apparatus(Motorised) with 10kN Proving Ring and Dial Gauge (1 No.), Proctor Penetrometer (Spring Type) (2 No's), Swell Test Apparatus (1 No.),ThinWalledSamplingTubes (2 No's), Digital Sieve Shaker (1 No.), Permeability Apparatus (VariableHead)(1No.),SoilCone Penetrometer (3 No's), Plastic LimitDevice(3No's)	
		CONCRETE AND HIGHWAY MATERIALSLAB	Vicat needle apparatus(3 No’s), Le-chartlier’smould(1 No’s), Cementautoclave(1No.),Flexure testing M/C (1 No.), Blaine’s air permeability apparatus (2 No’s), Slump test apparatus (3No’s), Compacting factor apparatus (1 No.), Vee Bee consistometer (1 No.), Permeability apparatus(1 No’s), Vibrating table (1 No.), Vibrating machine(1 No.), Laboratoryconcretemixer(1No’s), Accelerated curing tank (1 No.), Cube moulds (36No’s), Beam mould(12No’s),Cylindermoulds	

			(6No's),Measuringcylinders(12 No's),Densitybottle(6No's),Le-chatlierflask(10No's),Spatula(9 No's), Trowels (9 No's), Shovels(9 No's), Bowls(9 No's), Toolkit(2No's),GItray(12No's), Cylindrical metal measure (3 No's), CBR Apparatus(1 No's), AggregateCrushingTest(3No's), Los Angeles Abrasion Machine (1No.), Aggregate Impact Value Apparatus (1 No.), Length Gauge(2No's),ThicknessGauge (2 No's), IS Sieves (Price Each Size Sieve)(3 No's), Wire Basket(3 No's), Specific gravity bottle for Bitumen (5 No's), Automatic Penetrometer (1 No.), Ductility Testing Apparatus (1 No.),RingAndBallApparatus(1 No.), Flash And Fire Point Test Apparatus (2 No's), Tar Viscometer (1 No.), Oven Universal (1 No.), Electrical coil stoves(1No.),HotPlate(1No.).	
		ENVIRONMENTAL ENGINEERING LAB	Aerator(1 No.), Jar Test apparatus(1No.), pH meter Digital(1No.), pH meter (1No.), Electronic weighing balance(1 No.),Imhoffsettlingcone(2No's), Digitalconductivitymeter(1No.), Digitaldirectreadingconductivity meter(1No.),Magnetic stirrer (1No.),Magnetic stirrer digital (1No.), Stop watch(1No.), Nessler's cylinder (1No.), Desicator plain(1No.),Water bath Digital(1No.), Nephelometer (1No.),Spectrophotometer (1No.), Bunsen burner with stand (15 No's), Test tube handler(15 No's),Spatula (20 No's), Distilledwaterplant(1No.),Glass fiber filter disc(1No.),Conical Flask(120No's),Burette(60No's),	

			Pipette(40 No's), Beaker (90 No's), Test tube rim(150 No's), Funnel (30 No's), BuretteStand(30 No's), Glass Rod(40N0's), Reagent Bottles(30 No's), BOD Bottles(20 No's), Reflux Flask (15 No's), Heating Mantle (15 No's), Nessler's tube (30 No's), Fermentation Tube(3 No's), Platinum Loop holder(6 No's), Wash bottle(30 No's), Durham's Tubes (1No.), Muffle Furnace(1No.),MeasuringJar(45 No's),Evaporating Dishes(20 No's), Basin Evaporating(1No's), BODIncubator (1No.), Hot Air Oven(1No.),DOmeter(1No.),Dig Flame Photometer(1No.), Petri dish(10No.).	

Sl. No.	Department	Laboratory Name	Equipment/FacilitiesDetails	Remarks
01	Mechanical	Design lab	BifilarSuspension	
			CompoundPendulum	
			SpringMassSystem	
			TorsionalVibrationsetwithSingleRotorSystem	
			TorsionalVibrationsetwithDoubleRotorSystem	
			ForcedVibrationSystem	
			SingleDegreeVibrationsystem	
			JournalBearingTestRig	
			WhirlingOfRotatingShaftTestRig	
			Gyroscope	

			CombinedPolarizedscope	
			BalancingofRotars	
			Porter,Prorell,WattHartnerGovernor	
			StrainGaugeCurved beam	
			SimpleGeartrainWithHousing Bearing	
			EpicyclicGearBoxwithHousing	
			Modeltesting WithAccessories	
		Energy Conversion lab	AbleFlash&FirepointApparatus	
			PenskyMartinFlash&FireApparatus	
			RedwoodVisco meter	
			SayBoltviscometer	
			DigitialBombcalorimeter	
			BoysGascalorimeter	
			Planimeter	
			ValvetimingDiagram	
			PorttimingDiagram	
			4strokesinglecylinderKirloskarMakeNew Diesel Engine Test Rig	
			2strokesinglecylinderpetrolEngineTestRig	
			4strokesinglecylinderHONDApetrolEngineTest Rig	
			MulticylinderpetrolEngineofAmbassadorcar Test Rig	
			TorsionViscometer	

			TwostrokeTVSsecondHandBike	
			RingspannersetTAPARIA	
			Doubleendedspannersetandcuttingplier	
		F&FLab	Sheartestattachment	
			Sieveanalysisteatsetup	
			Rapiddrier	
			Singlepiecepatternsteppedpulley(AL)	
			Splitpatterngroovedpattern(AL)	
			flatters	
			Universalsandtesting M/C	
			Permeabilitytester	
			Corehardnesstester	
			Mouldhardnesstester	
			Claycontenttester	
			Moisturecontenttester	
			Sandrammerwithcoreboxes	
			Digitalweighingbalance	
			Mouldingboxes12*12*4	
			Doublesplitpattern(AL)	
			Matchplatepattern	
			Toolkit	
			shovels	

			Swageblock50kg	
			Sledgehammer6LB	
			Sledgehammer8LB	
			Anvil 100kg	
			poker	
			Greensand(bentonite+coaldustmixed)	
			Bentonitepowder	
			Roundtong	
			Flattong	
			Bendtong	
			Greensand	
			Swagetop 1/4’’MShandle	
			Swagebottom1/4’’MS handle	
			Hotchisel	
			Coldchisel	
			Teakwoodleveler	
			Hammerdoublehead3LB	
			ABCcoreoil	
			Pullertopandbottom	
			Bearingselfcorepattern	
			Peltonwheelcup	
			GIbucket20ltr	

			Bandly	
			Dusttrowelmetal	
			Plasticbucket5ltr	
		HMTLab	DeterminationofThermalConductivityofa Metal Rod.	
			Determinationofoverallheattransfer coefficient of a composite wall.	
			Determinationofeffectivenessonametallic fin.	
			DeterminationofHeatTransferCoefficientin a Free Convention on a vertical tube heat	
			DeterminationofHeatTransferCoefficientin a Forced Convection.	
			DeterminationofEmissivityofaSurface.	
			DeterminationofsteffenBoltzmannconstant.	
			DeterminationofLMDTandeffectivenessina parallel Flow and counter flow Heat Exchanger.	
			ExperimentsonBoilingofLiquidand condensation of vapour.	
			PerformanceTestonVapourcompression Refrigeration.	
			ExperimentonTransientconductionHeat Transfer.	
			PerformanceTestonAirconditioner.	
		Machine shopLab	Hicut3503allgearedheadstocklathe,ABC- 1000mm	
			Hicut3503allgearedheadstocklathe,ABC-600mm	
			Revolvingcentre MT-3	
			Drillchuck½”	

			Powerhacksawblade	
			Centregauge60°	
			½”diewithhand	
			divider	
			divider	
			Ringspanner set	
			Doubleendedspannerset	
			HSS drill bits Size:4,6,8,10,12,14,16,18,20,22,25mmdia	
			HSSdrill bits Size:4,6,8,10,12mmdia	
			HSSdrill bits Size:14,16,18,20,22,25mmdia	
			Drillsleeve	
			DrillsleeveMT2-3	
			Centrebit	
			Boringbar5/16”	
			Allenkeyset1.5mm-10mm	
			Allenkeyset1/16” to3/18”	
			Pipewrench-18”	
			Screwspanner10”	
			Ballpeenhammer 800gms	
			Nylonhammer	
			LetterPunch6mm	
			Numberpunch6mm	

			Centrepunch	
			Adjustablesurfacegauge12”	
			2046Sdial gauge	
			Dialstand	
			Surfaceplate	
			Vee-Block	
			Try-square-6”	
			Micrometer-0-25mm	
			VernierCalliper 0-150mm	
			Screwpitchgauge	
			Standforsurfaceplate-18” plate	
			Turningtool-RH	
			Sideandfacemillingcutterdia-100*10*25.4	
			Vernierheightgauge300mm	
			Safetygoggles	
			Radialdrillingmachine	
			8”power hacksawmachine	
			12”shapingmachine	
			Universalmillingmachine26”*8”	
			Benchgrinder	
			Straightnosetool	
			Turningtoolrighthand	

			HSStoolbits:5/16”*5/16”*4”	
			HSStoolbits:5/16”*5/16”*6”	
			Grindingwheel200mmDia Smooth rough	
			HI-cut3503allgearedlatheABC-1000mm	
			HI-cut3503allgearedlatheABC-600mm	
			HI-cut3503allgearedlatheABC-600mm	
			HI-cut3503allgearedlatheABC-600mm	
		MMMLab	PressureGauge	
			Thermocouple	
			LVDT	
			LoadCell	
			StrainGauge	
			Stroboscope	
			ProfileProjector	
			SineCentre	
			SineBar	
			TaperGaugePlain	
			AngleBlockUniversal	
			AngleGauges	
			LatheToolDynamometer	
			DrillToolDynamometer	
			SlipGaugeBox	

			MechanicalComparator,Indianmake	
			OpticalFlats	
			GearToothVernier	
			GearToothMicrometer	
			ScrewThread(FloatingCarriageMeter)	
			MechanicalComparator	
			MagneticStandWithDialGauge	
			V-Block2’’	
			VernierCaliper	
			Micrometer	
			GraniteSurfacePlate	
			DialIndicator	
			Bore Gauges	
			PrecisionSpritLevel	
			TaperPlugGauge	
			TaperRingGauge	
			PlainPlug Gauge	
			PlainRingGauge	
			FeelerGauge	
			PitchGauge	
			Radius Gauge	
			VernierHeightGauge	

			Roller Set	
			SnapGauge	
			i)0-6mm	
			ii)6-13mm	
			iii)13-19mm	
			SurfacePlate-CI	
			BevelProtractor	
		MT Lab	SingleDiscpolishingMachine	
			RectangularMuffleFurnace	
			WearTestingMachine	
			UltrasonicFlawDetector	
			Magneticcrack Detector	
			DyepenetrateApparatus	
			DigitalweighingBalanceLc:0.001gm	
			ImpactTestingMachine	
			RockwellHardnessTestingMachinewithstd specimens	
			BinocularMicroscopewithTwostandard specimens(HCS & HSS specimen)	
			BrinellHardnessTestingMachinewithstd specimens	
			UniversalTestingMachineUTN-100knwith standard attachments of Tension test, shear test, Bending test & compression test	
			TorsiontestingMachine cap100Nm	

			VickersHardnesstestingMachinewithstd specimens	
			Pychnometer	
			Sieveshaker	
			Digitaloven	
			Tiletestingmachine	
			Straingauge indicator	
			Sieve forCoarseagrigate	
			Sieveforfineagrigate	
			Bulkdensityforcoarseagrigate	
			Bulk densityofsoil	
			WeighingBalance3kg	
			WeighingBalance5kg	
			WeighingBalance15kg	
			Verniercaliper	
			MeasuringCylinder	
			Deplectometer0-25 LC-0.01	
			Deplectometer0-25 LC-0.01	
			Deplectometer0-50 LC-0.01	
		Workshop Lab	WeldingTransformer	
			WeldingHandShield	
			Tongs	
			HandGloves	

			C-clamp	
			ElectrodeHolder	
			WeldingCable	
			WeldingGlass	
			ChippingHammer	
			PlainGoggles	
			Apron	
			Wire Brush	
			EarthingClamp	
			Lugs	
			MeasuringSteeltape	
			BenchVice	
			WeldingTable	
			Weldingplainglass	
			Cuttingplier	
			Powerhacksawmachine	
			Ballpeinhammer	
			BenchVice	
			PipeVice	
			Surface Plate	
			VernierHeightGauge	
			Hacksaw Frame	

			SurfaceGauge	
			FlatFile(Rough)	
			FlatFile(Smooth)	
			Square File(Rough)	
			Square File(Smooth)	
			RoundFile(Rough)	
			RoundFile(Smooth)	
			HalfRoundFile(Rough)	
			HalfRoundFile(Smooth)	
			Triangularfilerough	
			Triangularfilesmooth	
			Knifeedgefilerough	
			Ballpeinhammer	
			Flatcoldchisel	
			Crosscutchisel	
			Coldchisel	
			Crosscutdiamondchisel	
			Trysquare	
			Outsidecaliper	
			Insidecaliper	
			Dividers	
			VernierCaliper	

			Micrometer	
			DrillingMachine	
			Grindingmachine	
			Tappingsets 6mm,8mm,10mm	
			Tapwrench10mm	
			Dieset 6mm,8mm,10mm	
			Diestock	
			Angleplate	
			Parallelbars	
			Scribers	
			Scrapers	
			Sledgehammer	
			Vblock	
			Cuttingpliers	
			SteelScale6inch	
			SteelScale12inch	
			Drillbits 6dia,5dia,8dia,10dia 12dia,14dia	
			Centerpunch	
			Drillvise	

			Numberpunch	
			Letterpunch	
			AdjustablewrenchBrush	
			SteelTape	
			Screwdriver	
			Spannerset	
			Oilcan	
			Jemper	
			Grindingwheeldresser	
			Legwise	
			Anvil	

Sl. No.	Department	Laboratory Name	Equipment/FacilitiesDetails				Remarks
1	ECE	**Electronic Devices and Instrumentation Lab**	**EQUIPMENT SNAME**	**MAKE**	**SPECIFICATION**	**QTY (NOS)**	
			Analog Ammeters		**0-15-30mA**	**10**	
			Analog Ammeters		**0-100-200mA**	**10**	
			Analog Ammeters		**0-100-200microA**	**05**	
			Analog Ammeters		**0-500microA**	**05**	
			Powersupply	**Unitron**	**0-30v/2ASingle**	**10**	

			Powersupply	Unitron	0-30v/2Adual	10			
			Powersupply	Unitron	0-300v/1ASingle	02			
			Powersupply	Unitron	+/-12vor+/-15v	10			
			Digital multimeter	Motwa ne		06			
			Digital multimeter	Motwa ne		02			
			DigitalAuto range multimeter	Fluke		01			
			Analog Oscilloscope	scientific		14			
			LCRQBridge	scientific		01			
			Function generator	Tektronic		12			
			Digital multimeter	Tektronic		10			
			Function generator	scientific		05			
			5kvavoltage stablizer			01			
			DRB			10			
			DIB			10			
			DCB			10			
			Digital voltmeter		0-2v-20vbench type	08			
			Digital voltmeter		0-20v-200v	08			
			Digital Ammeter		0-200microA-2000microA	08			
			Digital		0-20mA-200mA	08			

			Ammeter					
			Digital Ammeter		0-200mA-2000 mA	08		
			Powersupply	Uday	0-30v/2ASingle	10		
			Powersupply	Uday	0-30v/2Adual	05		
			Fixedsupply	Uday	+/-12vor+/-15v	10		
			Digital & AnalogIC Tester			01		
			Digitalstorage oscilloscope	Akademik		07		
2		DSD lab	EQUIPMENTSNAME	MAKE	SPECIFICATION	QTY (NOS)		
			Digital IC trainerKit	Model4002		10		
			Analog IC trainerKit	Model5002		04		
			DRB		6 dials	05		
			DCB		5dials	05		
			DIB		5 dials	05		
			Digital multimeter	Motwane		05		
			Digital IC trainerKit			14		
			MPBased Analog IC Tester			01		
			MPBased Digital IC Tester			01		
			Function generator	scientific		05		

			Pulse generator			02		
			Fixeddc supply		+/-12vor +/-15v	10		
			Voltage stablizer		5KVA	01		
			DcPower supply		0-30v/2A	02		
			Fixedsupply		+/-12vor +/-15v	02		
			Digital IC trainerKit			12		
			Linear/Analog IC trainer kit			05		
			Digital IC Tester (Handled)			01		
			Digital Multimeter	Meco		03		
			DRB		6dials	04		
			DCB		6dials	04		
			DIB		6dials	04		
			Function generator	systronics		01		
			Singlepulse generator			01		
			computer	Dellvastro3268		10		
3		VLSI lab	EQUIPMENTSNAME	MAKE	SPECIFICATION	QTY (NOS)		
			Singlechip MCUTrainer	ESAMCB52		10		
			Powersupply	ESA psm2		10		
			Stepper motorwith			05		

			interfaceIF-STEP					
			DCMotorI/F			05		
			ElevatorI/F			05		
			DualdacI/F			05		
			Lcdi/f			05		
			CalculatorKB			05		
			TSDR Interface			05		
			Microwind software			50users		
			PCI Based MSP430KITS			20		
			Cadence software			20users		
			ONLineUPS 5 KV			01		
			HP ProlientML100server			01		
			HPDesktop system Mtpc3330			20		
			DellOptiplex380			04		
			ALS –SDA ARMCTXM3 KIT	ALS		15		
			UPS6KVA	Emersion		01		
4		HDL Lab	EQUIPMENTS NAME	MAKE	SPECIFICATION	QTY (NOS)		
			Xilinxsoftware			01		
			Labview7.1			01		

			software						
			TMS320C6713 DSPKits	TMS 320C6713		10			
			FPGA&CPLDKits			15			
			Patterngenerator & logic analyzer			15			
			32bitALU	32bit		01			
			Spartern 6 daughtercard			10			
			USBcablesforkits			10			
			TMS320c6713DSP kits	TMS 320c6713		05			
			Overhead projector			01			
			Plasticprojection screen 5*5			01			
			Vacuumcleaner			01			
			Overhead projector			01			
			Plasticprojection screen 5*5			01			
			HPLaptop	hp		01			
			Smartboard			01			
			Multimedia projector			01			
			Wallmountfor Multimedia projector			01			
			E-podium			01			
			Hitachiprojector	CP-X3021MN		01			

			CP-X3021MN						
			HPcompaxdx2000 computers	HPcompax dx 2000		12			
			WiproLQDSI5235 printer	WiproLQDSI 5235		02			
			6Kva UPS	Emerson		01			
			HPDX2480Model computer	HPDX2480 Model		30			
			Sparten6daughter card			05			
			USBcableforkits			05			
			TpLINKN -300 Router	TpLINKN-300		01			
			FPGAMother board			01			
5		Advanced Communicationlab	**EQUIPMENTS NAME**	**MAKE**	**SPECIFICATION**	**QTY (NOS)**			
			Analog Signal sampling &Reconstructionunit	**Kaushik enterprises**		**01**			
			Timedivision multiplexing Trainer	**Kaushik enterprises**		**01**			
			SpectrumAnalyzers	**HAMEG**	**0.15MHZ TO1050 MHZ**	**01**			
			AutoLCRQText	**systronics**		**01**			
			Function Generator	**systronics**	**10MHz**	**02**			
			Controlled Stabilizer	**Powertronics**	**Powertronics 5 KVA**	**01**			
			VariableDC RegulatedPower	**Uday Engineers**	**0-30v/2A**	**04**			

			Supply						
			DualPowerSupply	**Uday Engineers**	**0-30v/1A**	**03**			
			Analog Multimeter(Hung Chang)	**Hung Chang**		**05**			
			DesktopDigital Multimeter	**Meco**	**45p Multimeter**	**01**			
			DigitalMultimeter	**Meco**		**02**			
			DecadeInductance Box	**Uday**	**6Dials**	**06**			
			DecadeResistance Box	**Uday**	**6Dials**	**06**			
			DecadeCapacitance	**Uday**	**6Dials**	**06**			
			BandPass Modulator /Demodulator	**FALCON**		**01SET**			
			Dual trace oscilloscope	**Analog HM605 SCIENTIFI**	**60MHZ**	**03**			
			Analog pulse ModulatorTrainer	**Digitronix**		**01**			
			AM/FM Transmittertrainer	**Digitronix**		**01**			
			AM/FMReceiver Trainer	**Digitronix**		**01**			
			FrequencyCounter	**SCIENTIFI**	**1GHZ**	**01**			
			TDSDigital Oscilloscope	**Tektronix**		**06**			
			AnalogICTrainer kit	**UDAY**		**03**			
			DigitalICTrainer	**UDAY**		**03**			

				kit					
				PatternGenerator	**Electronic &Electronics product**		**01**		
				DecadeInductance Box	**SIMS**	**6Dials**	**05**		
				DecadeResistance Box	**SIMS**	**6Dials**	**05**		
				DecadeCapacitance Box	**SIMS**	**6Dials**	**05**		
				Twentyfourtypes of antennas			**24**		
				MultioutputPower Supply	**Power Vision**	**+/- 5,12,15,v/**	**03**		
				MultiOutputPower Supply(Individual	**Power Vision**	**+/-12,v**	**02**		
				DcRegulatedPower Supply	**Power Vision**	**30v1 Amp Dual**	**06**		
				DcRegulatedPower Supply 3	**Power Vision**	**30v2 Amp**	**06**		
				TDM Kit	**scientech**	**ST (2102)**	**01**		
				ACAmmeter (Desktop)	**EIC**	**0-50,100 ma**	**05**		
				DCAmmeter (Desktop)	**EIC**	**0-25,250 ma**	**04**		
				Microprocessor basedICtester	**TESTEL**	**DA40**	**01**		
				CRO	**Scientific HM 203**		**04**		
				FiberOpticKit	**scientech**	**ST2502**	**01**		
				Data Communicationand LANtrainer kit	**Falcon**		**01**		

				SinglePulse Generator	**Systronics**		**03**		
				OpenRacksize5½ x 3 x12			**02**		
				Tablewithoutdraw			**02**		
				AnalogOscilloscope	**LG5020**	**20MHz**	**05**		
				100MHz Oscilloscope	**LG5100**	**100MHz**	**02**		
				1:1&10:1 combination compensatedprobe			**08**		
				DigitalMultimeter	**meco**	**603**	**10**		
				OFCkit(Link–B)	**Falcon**		**01**		
				DPSKKit	**TETCOS**		**01**		
				QPSKKit	**TETCOS**		**01**		
				NoiseGenerator	**TETCOS**		**01**		
				Bit Error MeasurementUnit	**TETCOS**		**01**		
				FunctionGenerator	**FG806**	**(2MHz)**	**06**		
				FunctionGenerator	**FG811**	**(Am/FM)**	**03**		
				SineWave Generator	**HM5032**	**20MHz**	**02**		
				DecadeResistance Box	**PAN Electronic**	**5Dials**	**10**		
				DecadeCapacitance Box	**PAN Electronic**	**5Dials**	**10**		
				DecadeInductance Box	**PAN Electronic**	**5Dials**	**10**		
				AnalogOscilloscope	**EZ**	**HM5060 60MHZ**	**10**		

			PulseGenerator	**ST4063**		**13**			
			OFC Kit	**Scientech**		**01**			
			DPSKKit	**TETCOS**		**03**			
			QPSKKit	**TETCOS**		**03**			
			PowerSupply	**Power vision**	**(+/- 12V/*2A) +/- 15V/2A+/ -5V/2A**	**14**			
			ElectronicProject Boards			**10**			
			SignalGenerator (Signal source)			**02**			
			Electronic IntegratedCircuit Kit **a) Coupled Directional Coupler** **b) Ring Resonator** **c) PowerDivider** **d) AttenuatorPads-** **3db,6db,10db** **e) AdapterSMA(F) –N(M)** **f) BNCCables** **g) SMACables 1m& 45cms.** **h) CoaxialMatch Load** **i) Detector**			**02** **02** **02** **01 EACH** **02** **02** **02** **02** **02** **02**			

			Antennawith Accessories			**02**		

			a)Printed Dipole Antenna **b) Rectangular Patched Antenna** **c)Ported Yagi Antenna** **d) Rotatable Antenna Stand** **e)Fixed Antenna stand** **f)VSWR**			**02** **02** **02** **02** **02** **02**		
			UPSPB6000Batch: 01106VM0066UPS	**EMERSON**	**6KVA**	**01**		
			Batteries	**EXIDE**	**42AH/12 V**	**16**		
			HitachiProjector cp-x3021	**HITACHI**	**cp-x3021**	**01**		
			Digitaloscilloscope	**Scientific SMO 502**	**50MHZ**	**05**		
			Signalgenerator	**Physitech PHY-103 FAR**	**2MHZ**	**05**		
6		DSP lab	**EQUIPMENTS NAME**	**MAKE**	**SPECIFICATION**	**QTY (NOS)**		
			UPSAdapt6KVA (1TA)	**UPS System ITA Model**	**Batch: 210/20046 1211C010 0286KVA Single Phase of Single Phase**	**01**		

			Battery RackwithLinks(Battery Stand)	**Rocket Make**	**26Ah/ 12V 12V/ 65 AH/**	**16 01**		
			COMPUTERS	**DELL**	**Dell Optiplex(JM)380DT-N Series BaseIntel (R) core ™-2DUO Processor E 7500 (2.93GHz) 1066FSB/ 3M2 Cache. Integrated Broadcom (CBCM57780)GB LAN 10/100/1000,2GB(1 x 2GB) Non ECCDDR3 1333MHz SD RAM Memory 320 GB 7200 RPM 35”SATA Hard drive,16x Max DVD+1 – RW with duallayer write capable– ties for MT&DT,**	**07**		

						DELLE 1912, 18.5”W HD Monitor with WLED , DELL ™ MS111USBOptical Mouse, DELL ™ KB212-B USBEntry 6-ness Keyboard (ENGLISH)			
				ROUTER	DIGISOLE	sl.no 003 YS CA000788 Mac :00177C1F 27DA	01		
				Microprocessor Kit	ALS	8085 µp	10		
				Microprocessor	ALS	8086 µP	01		
				PowerSupply	ALS	(+12v,-12v,+5v,+26v)	11		
				LogicController Interface Card	ALS		01		
				DualDAC&I/O InterfaceCard	ALS		01		
				ElevatorInterface Card	ALS		01		
				Keyboard/Display Interface Card	ALS		01		

			EPROM Programmer	ALS		01		
			InterfaceCard					
			8BitADCInterface Card	ALS		O1		
			StepperMotor InterfaceCard	ALS		01		
			Basic Universal MicroprocessorKit	ALS	SDA–UNI – 01	10		
			PowerSupply	ALS	5v,1.5A	10		
			CPUCARD	ALS	UNI-85-8085	10		
			UNI-86-8086CPU Card	ALS	[UNI-31/51 8031/51 CPUCard (Inbuilt–8085 sl.No.13)]	10		
			StepperMotor Interface	ALS	ALS–NIFC – 01A	02		
			PowerSupply	ALS	5A,1A NIFC-01A-OPT-01	02		
			8Bit ADC	ALS	ALS – NIFC-07A	02		
			ElevatorInterface Card	ALS	ALS – NIFC-17	02		
			Keyboard/7 SegmentDisplay/ Display Interface	ALS	ALS–NIFC -09	07		
			LogicController Interface	ALS	ALS–NIFC -05A	07		

			StepperMotor Interface	ALS	ALS–NIFC-01A	06		
			StudyCard	ALS	ALS–	05		
			(USARI/Timer Interface)		NIFC-21 8251/8253			
			DualDACInterface	ALS	ALS-NIFC-06A	02		
			Microprocessor Trainer Kit	ALS	ALS-SDA-85	20		
			PowerSupply	ALS	5v,1.5A, +/- 12v,100 ma	20		
			KeyboardInterface Card	ALS		01		
			ElevatorInterface Card	ALS		01		
			LogicController Interface Card	ALS		01		
			StepperMotor InterfaceCard	ALS		01		
			PowerSupplyfor above Interface	ALS		01		
			DualDACInterface Card	ALS		01		
			24linesDigitalI/O Card with Timer (INSIDE-Dell Optiplex(JM) 380DT-NSeries SYSTEMS	ALS	ALS-PCI-07A	06		

			Desktop computers HpDX2480Intel core2 Duo	**ALS**	**HpDX2480 Intelcore2 Duo**	**15**			
7		Elect	**EQUIPMENTS NAME**	**MAKE**	**SPECIFICATION**	**QTY (NOS)**			
		rical lab	**Measurement of current,power andpower factorof incandescent lamp,fluorescentlampand LEDlamp**	**Pragna**		**02**			
			Measurement ofResistance and inductanceof achokecoil using 3voltmeter method	**Pragna**		**02**			
			Determination ofphaseand linequantities inthree phase staranddelta connected load	**Pragna**		**02**			
			Measurement ofthree phase powerusing twowattmeter method	**Pragna**		**02**			
			2wayand3 waycontrolof lamp	**Pragna**		**02**			
			Measurement	**Pragna**					

			of earth resistance			**02**		
			Studyofeffect of open and shortcircuitin	**Pragna**		**02**		
			simplecircuit					
			Wheat stone bridgeKCL&KVL	**Pragna**		**04**		

Sl. No.	Department	Laboratory Name	Equipment/FacilitiesDetails	Remarks
1	AIML	DataStructure Lab	30ComputerSystems	
2	AIML	Microcontroller Lab	30ComputerSystems, MicrocontrollerKITS	
3	AIML	Machine LearningLab	30ComputerSystems	
Sl. No.	Department	Laboratory Name	Equioment/FacilitiesDetails	Remarks
1	ISE	DataStructure Lab	30ComputerSystems	
2	ISE	Microcontroller Lab	30ComputerSystems, MicrocontrollerKITS	
3	ISE	File Structure Lab	30ComputerSystems	
4	ISE	Software TestingLab	30ComputerSystems	
5	ISE	Analysisand	30ComputerSystems	
		Design Lab		

6	ISE	Web Programming Lab	30ComputerSystems	
7	ISE	Machine LearningLab	30ComputerSystems	
8	ISE	Mobile Application Development	30ComputerSystems	
	ChemistryLab		Conductivity meter	
			DigitalCond.Meter	
			PHMeter	
			BunsenBurner	
			ElectricWaterBath-6hole	
			Photoelectriccolorimeter	
			Calorimeterset	
			BunsenBurnerwithSC	
			DigitalCond.Meter	
			CentrifugeMechine	
			Vaccumpump	
			Heatingmantle250ml	
			Heatingmantle500ml	
			Heatingmantle1000ml	
			Micromagneticstirrer	
			Waterbathelectrical6holes	
			Singlepanadjustableweight	
			MeltingpointapparatusElec.	

		StopClock ESAL	
		Electricalbalancesingle pan	
		Flaskshaker	
		ThermostatWaterbath	
		Electricalhot plate	
		Hotairoven18"x18"	
		Deionizer50ltrcapacitywithanalog conductivity meter	
		FGL613DigitalPHmeter	
		FGCL157DigitalColorimeter	
		BunsenBurnor,Taps,rubbertube	
		Fireextinguisher(3.2 kg)	
		DigitalPotentiometer	
		FGL16133EDig.PHmeter	
		DigitalFlamePhotometer	
		DigitalConductivity	
		DigitalPHmeter	
		Colorimeter	

- List of Experimental Setup in each Laboratory/Workshop

Sl.No.	Department	Laboratory Name	ListofExperiments	Remarks
1		**Electronic Devices and Instrumentation Lab**	**Electronic Devices and InstrumentationLab(Third semester)** **PARTA:Experimentsusing**	

	ECE		**Discretecomponents** 1. Conductexperimenttotest diodeclipping(single/double ended) and clamping circuits (positive/negative). 2. Half wave rectifier and Full waverectifierwithandwithout filter and measure the ripple factor. 3. CharacteristicsofZenerdiode and design a Simple Zener voltageregulatordetermineline and load regulation. 4. Characteristics of LDR and PhotodiodeandturnonanLED using LDR 5. StaticcharacteristicsofSCR. 6. SCRControlledHWRandFWR using RC triggering circuit 7. Conduct an experiment to measuretemperatureintermsof current/voltage using a temperature sensor bridge. 8. Measurement of Resistance usingWheatstoneandKelvin's bridge. **PART-B:SimulationusingEDAsoftware** (EDWinXP,PSpice,MultiSim, Proteus, Circuit Lab or any equivalent tool) 1. Input and Output characteristicsofBJTCommon emitter configuration and	

			evaluationofparameters. 2. Transfer and drain characteristicsofaJFETand MOSFET. 3. UJT triggering circuit for ControlledFullwaveRectifier. 4. Designandsimulationof Regulated power supply.	
2		**DSDlab**	**DSDlab(Third semester)** 1. Verify (i) Demorgan'sTheoremfor2variables. (ii) The sum-of product and product-of-sumexpressions using universal gates. L1, L2, L3 2.Designandimplement (i)HalfAdder&FullAdder using i)basicgates.ii)NANDgates (ii) Half subtractor& Full subtractorusingi)basicgatesii) NAND gates L3, L4 3. Designandimplement (i) 4-bitParallelAdder/Subtractor using IC 7483. (ii) BCD to Excess-3 code conversionandvice-versa.L3,L4 4.DesignandImplementationof (i)1-bit Comparator	

			(ii)5-bitMagnitudeComparator using IC 7485. L3, L4 5. Realize (i) Adder&SubtactorsusingIC 74153. (ii) 4-variablefunctionusing IC74151(8:1MUX).L2,L3,L4 6. Realize (i) Adder&Subtractorsusing IC74139. (ii) BinarytoGraycodeconversion & vice-versa (74139) L2, L3, L4 7. Realizethefollowingflip-flops using NANDGates. Master-Slave JK, D & T Flip-Flop. L2, L3 8. Realizethefollowingshift registers usingIC7474/7495 (i)SISO(ii)SIPO(iii))PISO(iv))PIPO(v)Ring(vi)Johnson counter L2, L3 9. Realize (i) Design Mod – N SynchronousUpCounter&Down Counter using 7476 JK Flip-flop (ii) Mod-NCounterusingIC7490/ 7476 (iii) Synchronouscounterusing IC74192 L2, L3 10. Design Pseudo Random Sequencegeneratorusing7495. L2, L3 11. DesignSerialAdderwith	

			AccumulatorandSimulateusing Simulation tool. L2, L3, L4 12.DesignBinaryMultiplierand Simulate using Simulation tool. L2, L3, L4	
3		VLSIlab	VLSIlab(Seventhsemester) **Part-A** **AnalogDesign** UseanyVLSIdesigntoolstocarry out the experiments, use library files and technology files below 180 nm. l.a) Capture the schematic of CMOS inverter with load capacitance of 0.1pF and set the widthsofinverterwithWn=Wp, Wn = 2Wp, Wn = Wp/2 and length at selected technology. Carry out the following: i Set the input signal to a pulse withrisetime,falltimeof1nsand pulse width of 10ns and time periodof20nsandplottheinput voltage and output voltage of designed inverter? ii. From the simulation results computetpHL,tpLHandtdforall three geometrical settings of width? iiiTabulatetheresultsofdelay andfindthebestgeometryfor minimum delay for CMOS inverter? 1.b)Drawlayoutofinverter with	

			Wp/Wn =40/20, use optimum layout methods. Verify for DRC and LVS, extract parasitic and performpostlayoutsimulations, compare the results with pre-layout simulations. Record the observations. 2.a)Capturetheschematicof2-input CMOS NAND gate having similar delay as that of CMOS invertercomputedinexperiment 1. Verify the functionality of NANDgateandalsofindoutthe delay td for all four possible combinations of input vectors. Table the results. Increase the drive strength to 2X and 4X and tabulate the results. 2. b) Draw layout ofNANDwithWp/Wn=40/20,useoptimum layout methods. Verify for DRC and LVS, extract parasitic and perform post layout simulations, compare the results with pre- layout simulations. Record the observations. 3. a) Capture schematic of Common Source Amplifier with PMOS Cwrent Mirror Load and finditstransientresponseandAC response? Measures the Unity Gain Bandwidth (UGB), amplification factor byvarying transistor geometries, study the impact of variation inwidth to UGB. 3. b) Draw layout of common sourceamplifier,useoptimum layoutmethods.VerifyforDRC and LVS, extract parasitic and	

			Perform postlayoutsimulations, compare the results with pre-layout simulations. Record the observations. 4.a) Capture schematic of two-stageoperationalamplifierand measure the following: iUGB ii. dBbandwidth iii. Gainmarginandphasemargin with and without coupling capacitance iv. Use the op-amp in the invertingandnon-inverting configuration and verity its functionality v. Studythe UGB, 3dB bandwidth, gain and power requirement in op-ampbyvaryingthestagewise transistor geometries and record the observations. 4.b) Draw layout of two-stage operational amplifier with minimum transistor width set to 300 (in 180/90/45 nm technology), choose appropriate transistor geometries as per the results obtained in 4.a. Use optimum layout methods. Verity forDRCandLVS,extractparasitic and perform post layout simulations, compare the results with pre-layout simulations. Record the observations.	

			Part - **BDigitalDesig** **n** Carryouttheexperimentsusing semicustomdesignfloworASIC design flow, use technology library180/90/45nmandbelow Note: The experiments can also becarriedoutusingFPGAdesign flow, it is required to set appropriate constraints in FPGA advanced synthesis options 1.Writeverilogcodefor4-bit up/downasynchronousreset counter and carry out the following: aVerifythefunctionalityusing test bench b.Synthesizethedesignbysetting areaandtimingconstraint.Obtain the gate level netlist, find the critical path and maximum frequency of operation. Record the area requirement in terms of number of cells required and propertiesofeach cell intermsof driving strength, power and area requirement. c. Perform the above for 32-bit up/downcounterandidentifythe criticalpath,delayofcriticalpath, and maximum frequency of operation, total number of cells required and total area. 2. Write verilog code for 4-bit adderandverifyitsfunctionality usingtestbench.Synthesizethe design by setting proper	

			constraintsandobtainthenetlist. From the report generated identity critical path, maximum delay, total number of cells, powerrequirementandtotalarea required. Change the constraints and obtain optimum synthesis results. 3.WriteverilogcodeforUART and carry out the following: aPerformfunctionalverification using test bench b.Synthesizethedesigntargeting suitable library and by setting area and timing constraints c. For various constrains set, tabulate the area, power and delayforthesynthesizednetlist d Identitythecritical path andset theconstraintstoobtainoptimum gate level netlist with suitable constraints 4.Write verilog code for 32-bit ALUsupportingfourlogicaland four arithmetic operations, use casestatementandifstatement for ALU behavioral modeling. aPerformfunctionalverification using test bench b.Synthesizethedesigntargeting suitable library by setting area and timing constraints c. For various constrains set, tabulate the area, power and delayforthesynthesizednetlist	

			d Identitythecritical path andset theconstraintstoobtainoptimum gate level netlist with suitable constraintsComparethesynthesis results of ALU modeled using IF and CASE statements. 5.Write verilog code for Latch and Flip-flop, Synthesize the design and compare the synthesis report (D, SR, JK). 6.Forthesynthesizednetlistcarry out the following for any two above experiments: a Floor planning (automatic), identitytheplacementofpads b.PlacementandRouting,record the parameters such as no. of layers used for routing, flip method for placement of standard cells, placement of standard cells, routes of power and ground, and routing of standard cells c.Physicalverificationandrecord the LVS and DRC reports dPerformBackannotationand verity the functionality of the design e.GenerateGDSIIandrecordthe number of masks and its color composition	
4		HDLLab	Microcontrollerlab(Fourth semester) **I.PROGRAMMING** 1.DataTransfer:Block Move,	

			Exchange,Sorting,Findinglargest element in an array. 2. Arithmetic Instructions - Addition/subtraction, multiplication and division, square,Cube–(16bitsArithmetic operations – bit addressable). 3. Counters. 4. Boolean&LogicalInstructions (Bit manipulations). 5. ConditionalCALL&RETURN. 6. Code conversion: BCD – ASCII; ASCII – Decimal; Decimal - ASCII; HEX-DecimalandDecimal-HEX. 7. Programstogeneratedelay, Programsusingserialportand on-Chip timer/counter. **II. INTERFACING** 1. Interfaceasimpletoggleswitch to 8051 and write an ALP to generate an interrupt which switches on an LED (i) continuouslyaslongasswitch is on and (ii) onlyonceforasmalltime whentheswitchisturnedon. 2. WriteaCprogramto (i) transmitand (ii) toreceiveasetofcharacters serially by interfacing 8051 to a terminal.	

			3. Write ALPs to generate waveformsusingADCinterface. 4. Write ALP to interface an LCD displayandtodisplayamessage on it. 5. Write ALP to interface a StepperMotorto8051torotate the motor. 6. Write ALP to interface ADC-0804andconvertananaloginput connected to it.	
			HDL Lab(Fifth semester) **PARTA:Programming** 1. Write Verilog program for the followingcombinational designalong with test bench to verify the design: a. 2 to 4 decoder realization using NANDgatesonly(structuralmodel) b. 8 to 3 encoder with priority and withoutpriority(behaviouralmodel) c. 8to1multiplexerusingcase statement and if statements d. 4-bitbinarytograyconverterusing 1-bit gray to binary converter 1-bit adder and subtractor 2. ModelinVerilogforafulladderand addfunctionality to perform logical operations of XOR, XNOR, AND and OR gates. Write test bench withappropriateinputpatternstoverify the modeled behavior. 3. Verilog 32-bit ALU shown in figure below and verify the functionality of ALU by selecting appropriatetest patterns.ThefunctionalityoftheALUis presented in Table 1. a. Write test bench to verify the functionalityoftheALUconsideringall possible input patterns b. Theenablesignalwillsettheoutput to required functions if enabled, if disabled all the outputs are set to tri-state c. Theacknowledgesignalissethigh after every operation is completed	

			Result[32:0] 4. WriteVerilogcodeforSR,D and JK and verifythe flip flop. 5. WriteVerilogcodefor4-bit BCD synchronous counter. 6. WriteVerilogcodeforcounter with given input clock and check whether it works asclock divider performingdivisionofclockby2, 4, 8 and 16. Verify the functionality of the code. **PART-B: Interfacing andDebugging (EDWinXP, PSpice,MultiSim,Proteus, CircuitLab or any otherequivalenttoolcanbe used)** 1. WriteaVerilogcodetodesign a clock divider circuit that generates 1/2, 1/3rd and 1/4thclock from a giveninputclock.Portthedesign to FPGA and validate the functionality through oscilloscope. 2. InterfaceaDCmotortoFPGA andwriteVerilogcodetochange its speed and direction. 3. Interface a Stepper motor to FPGA and write Verilog code to controltheSteppermotorrotation which in turn may control a RoboticArm.Externalswitchesto be used for different controls like rotate the Stepper motor (i) +N steps if Switch no.1 of a Dip switch is closed (ii) +N/2 steps if Switch no. 2 of a Dip switch is closed(iii)–NstepsifSwitchno. 3 of a Dip switch is closed etc.	

			4. InterfaceaDACtoFPGAand write Verilog code to generate Sine wave of frequency F KHz (eg. 200 KHz)frequency.Modifythecode to down sample the frequency to F/2KHz.DisplaytheOriginaland Down sampled signals by connecting them to an oscilloscope. 5. WriteVerilogcodeusingFSM to simulate elevator operation. 6. WriteVerilogcodetoconvert an analog input of a sensor to digital form and to display the same on a suitable display like set ofsimple LEDs,7-segmentdisplaydigitsor LCDdisplay.	
			EmbeddedSystemslab(Sixth semester) **PARTA:** 1. ALPtomultiplytwo16bit binary numbers. 2. ALPtofindthesumoffirst10 integer numbers. 3. ALPtofindthenumberofO's and 1's in a 32 bit data 4. ALPtofinddeterminewhether the given 16 bit is even or odd 5. ALPtowritedatatoRAM **PARTB:** 6. Display''Helloworld"message using internal UART 7. InterfaceandControlthespeed	

			ofaDC Motor. 8. InterfaceaSteppermotorand rotate it in clockwise and anti-clockwise direction. 9. Interface a DAC and generate TriangularandSquarewaveforms. 10. Interfacea4x4keyboardand display thekey codeon anLCD. 11. Demonstratetheuseofan externalinterrupttotogglean LED On/Off. 12DisplaytheHexdigits0toFon a 7-segment LED interface, with an appropriate delay. 13. Measure Ambient temperatureusingasensorand SPI ADC IC.	
5		Advanced Communication lab	Analogcircuitslab(Fourth semester) **PARTA:HardwareExperiments** 1. DesignandsetuptheCommon Source JFET/MOSFET amplifier andplotthefrequencyresponse. 2. Design and set up the BJT commonemittervoltageamplifier with and without feedback and determine the gain- bandwidth product, input and output impedances. 3. Design and set-up BJT/FET i) ColpittsOscillator,andii)Crystal Oscillator	

			4. Design active second order Butterworthlowpassandhigh pass filters. 5. DesignAdder,Integratorand DifferentiatorcircuitsusingOp-Amp 6. Testacomparatorcircuitand designaSchmitttriggerforthe given UTP and LTP values and obtain the hysteresis. 7. Design4bitR–2ROp-Amp Digital toAnalog Converter (i) using 4 bit binary input from toggle switches and (ii) by generatingdigitalinputsusing mod-16 counter. 8. Design Monostable and a stableMultivibratorusing555 Timer. **PART-B:SimulationusingEDA software** (EDWinXP, PSpice, MultiSim, Proteus, CircuitLab or any other equivalent tool can be used) 1. RCPhaseshiftoscillatorand Hartley oscillator 2. NarrowBand-passFilterand Narrow band-reject filter 3. PrecisionHalfandfullwave rectifier 4. Monostable and A stable Multivibratorusing555Timer.	
			Communicationlab(Sixth semester) **PART-A:Expt.ltoExpt.5haveto**	

			beperformedusingdiscrete components. 1. Amplitude Modulation and Demodulation:i)StandardAM, ii)DSBSC(LM741andLF398 ICs canbeused) 2. Frequency modulation and demodulation(IC8038/2206can be used) 3. Pulse sampling, flat top samplingandreconstruction 4. TimeDivisionMultiplexingand Demultiplexing of two bandlimited signals. 5. FSKandPSKgenerationand detection 6. Measurement of frequency, guide wavelength, power, VSWR andattenuationinmicrowavetest bench. 7. Obtain the Radiation Pattern and Measurement of directivity andgainofmicrostripdipoleand Yagi antennas. 8. Determinationof a Coupling and isolation characteristicsofmicrostripdirectional coupler. b. Resonance characteristics of microstrip ring resonator and computationofdielectricconstant of the substrate. c.Powerdivisionandisolationof	

			microstrippowerdivider. **PART-B: Simulation Experiments using SCILAB/MATLAB/Simulinkor LabVIEW** 1. To Simulate NRZ, RZ, half-sinusoid&raisedcosinepulses and generate eye diagram for binary polar signaling. 2Pulsecodemodulationand demodulation system. 3. ComputationsoftheProbability ofbit error for coherent binary ASK, FSK and PSK for an AWGN Channel and compare them with their performance curves. 4. DigitalModulationSchemesi) DPSK Transmitter and Receiver, ii)QPSKTransmitterandReceiver.	
6		DSPlab	DSP lab(Fifthsemester) FollowingExperimentstobedone using MATLAB/ SCILAB/OCTAVE orequivalent: 1. Verification of sampling theorem(useinterpolation function). 2Linearandcircularconvolution of two given sequences, Commutative, distributive and associative property of convolution. 3. Auto and cross correlation of twosequencesandverificationof their properties 4. Solvingagivendifference	

			equation. 5. ComputationofNpointDFTof a given sequence and to plot magnitude and phase spectrum (using DFT equation and verify it by built-in routine). 6. (i)VerificationofDFTproperties (like Linearity and Parseval 's theorem, etc.) (ii) DFT computation of square pulse and Sinc function etc. 7. Design and implementation of Lowpass and High pass FIR filter tomeetthedesiredspecifications (using different window techniques)andtestthefilterwith anaudiofile.Plotthespectrumof audio signal before and after filtering. 8. Designandimplementationof a digital IIR filter (Low pass and High pass) to meet given specifications and test with an audio file. Plot the spectrum of audio signal before and after filtering. **FollowingExperimentstobe done using DSP kit** 9. ObtaintheLinearconvolution of two sequences. 10. ComputeCircularconvolution of two sequences. 11. ComputetheN-pointDFTofa given sequence. 12 Determine the Impulse responseoffirstorderandsecond	

			ordersystem. 13.Generationofsinewaveand standard test signals	
			CCNlab(Seventhsemester) **PART-A: Simulation experimentsusingNS2/NS3/ OPNET/ NCTUNS/ NetSim/QuaiNetoranyother equivalent tool** 1. Implement a point to point network with four nodes and duplex links between them. Analyzethenetworkperformance by setting the queue size and varying the bandwidth. 2. Implementafournodepointto point network with links n0-n2, nl-n2andn2-n3.ApplyTCPagent betweenn0-n3andUDPbetween nl-n3.Applyrelevantapplications over TCP and UDP agents changing the parameter and determinethenumberofpackets sent by TCP/UDP. 3. ImplementEthernetLANusing n (6-10) nodes. Compare the throughputbychangingtheerror rate and data rate. 4. ImplementEthernetLANusing n nodes and assign multiple traffic to the nodes and obtain congestion window for different sources/ destinations. 5. Implement ESS with transmission nodes in Wireless LANandobtaintheperformance parameters.	

			6.ImplementationofLinkstate routing algorithm. **PART-B:Implementthe following in C/C++** 1. Write a program for a HLDC frametoperformthefollowing. i)Bitstuffing iil)Characterstuffing. 2 Write a program for distance vectoralgorithmtofindsuitable path for transmission. 3. ImplementDijkstra'salgorithm to compute the shortest routing path. 4. For the given data, use CRC-CCITTpolynomialtoobtainCRC code.Verifytheprogramfortheca ses aWithout error b.Witherror 5. Implementation of Stop and WaitProtocolandSlidingWindow Protocol 6. Writeaprogramforcongestion controlusingleakybucket algorithm	
7		Electricallab	Basic Electrical Engineering lab(Firstandsecondsemester) 1 VerificationofKCLandKVLfor DC circuits 2 Verificationofmaximumpower	

			theorem. 3 MeasurementofCurrent,Power, andPowerFactorofIncandescent Lamp, Fluorescent Lamp and LED Lamp. 4 MeasurementofResistanceand Inductance of a Choke coil using three voltmeter method. 5 Determination of Phase and Linequantitiesinthree-phasestar and delta connected loads. 6 Measurementof3-phase PowerusingTwoWattmeter Method. 7 Determinationofefficiencyofa single-phase transformer by direct load test. 8 Two Way and Three-Way ControlofLampandFormationof Truth Table. 9 MeasurementofEarth Resistance 10 StudyoftheeffectofOpen andShortcircuitsinsimple circuits	

Sl. No.	Department	LaboratoryName	List ofExperiments	Remarks
	CIVIL ENGINEERING	COMPUTER AIDEDBUILDING PLANNINGAND DRAWING	DrawingsRelatedtoDifferent BuildingElements: Followingdrawings aretobeprepared forthedatagivenusingCADSoftware a)CrosssectionofFoundation, masonrywall,RCCcolumnswith isolated&combinedfootings. b)Differenttypesofbondsinbrick	

			masonry. c) Differenttypesofstaircases–Dog legged, Open well. d) Lintelandchajja. e) RCCslabsandbeams. f) Crosssectionofapavement. g) SepticTankandsedimentation Tank. h) Layout plan of Rainwater rechargingandharvestingsystem. i) Crosssectionaldetailsofaroadfora Residential area with provision for all services.¸ j) Steel truss (connections Bolted). Building Drawings: Principles of planning, Planning regulations and building bye-laws, factors affecting site selection, Functional planning of residentialandpublicbuildings,design aspects for different public buildings. Recommendations of NBC. Drawing of Plan, elevation and sectional elevationincluding electrical, plumbing and sanitary services using CAD softwarefor: 1. Singleanddoublestoryresidential building. 2. Hostelbuilding. 3. Hospitalbuilding. 4. Schoolbuilding.	
		BUILDING MATERIALS TESTING LABORATORY	1. Tensiontestonmildsteeland HYSD bars. 2. Compressiontestonmildsteel,cast iron and wood. 3. Torsiontestonmildsteelcircular sections. 4. BendingTestonWoodUndertwo point loading. 5. ShearTestonMildsteel-singleand double shear. 6. ImpacttestonMildSteel(Charpy&Izo d). 7. Hardnesstestsonferrousandnon-ferrous metals- Brinell's, Rockwell	

			andVicker's. 8. TestsonBricks,TilesandConcreteBlocks. 9. Tests on Fine aggregates-Moisture content,Specificgravity,Bulkdensity, Sieve analysis and Bulking. 10. Tests on Coarse aggregates-Absorption, Moisturecontent, specific gravity, Bulk density and Sieve analysis. 11. DemonstrationofStraingauges andStrainindicators.	
		ENGINEERING GEOLOGY LABORATORY	1. Physicalpropertiesofminerals: Identificationof i. Rock Forming minerals - Quartz group,Feldspargroup,Garnetgroup, Mica group & Talc, Chlorite, Olivine,Asbestos, Calcite,Gypsum, etc ii. Ore forming minerals- Magnetite, Hematite,Pyrite,Pyralusite, Graphite, Chromite, etc 2. EngineeringPropertiesofRocks: Identificationof i. Igneousrocks-TypesofGranites, Dolerite, GranitePorphyry, Basalt, Pumiceetc ii. Sedimentary rocks- Sandstone, Limestone,Shale,Laterite,Brecciaetc iii. Metamorphicrocks-Gneiss,Slate, Schist, Marble, Quartzite etc 3. Boreholeproblems: Determination ofsubsurfacebehaviorofrocks,their attitude related to foundation, tunnels, reservoirs and mining. Triangular and Square methods. (2 methods) 4. DipandStrikeproblems.Determine Apparent dip and True dip. (2 methods) 5. Calculation of Vertical, True thicknessandwidthoftheoutcrops.(3 methods) 6. StudyofToposheetsand Interpretation,ExtractionofDrainage	

			BasinanditsMorphometricAnalysis. (3Toposheets) 7. Interpretation and drawing of sectionsforgeologicalmapsshowing tiltedbeds,faults,unconformitiesetc. (10 Maps) 8. InterpretationofSatelliteImages.(2 Satellite images) 9. Field work– To identify Minerals, Rocks,GeomorphologyandStructural features with related to the Civil Engineeringprojects.	
		FLUID MECHANICSAND HYDRAULIC MACHINES LABORATORY	1. VerificationofBernoulli'sequation. 2. Determination of Cd for VenturimeterandOrificemeter. 3. Determination of hydraulic coefficientsofsmallverticalorifice. 4. DeterminationofCdforRectangular and Triangular notch 5. DeterminationofCdforOgeeand Broad crested weir 6. DeterminationofCdfor Venturiflume 7. Determinationofforceexertedbya jet on flat and curved vanes. 8. Determinationofefficiencyof Pelton wheel turbine 9. Determinationofefficiencyof Francis turbine 10. Determinationofefficiencyof Kaplan turbine 11. Determinationofefficiencyof centrifugal pump 12. DeterminationofMajorLossin Pipes 13. DeterminationofMinorlossesin pipe due to sudden enlargement, suddencontractionand bend.	
		SURVEYING PRACTICE	1. a)Measurementsofdistancesusing tapealongwithhorizontalplanes and slopes, direct ranging. b)Settingoutperpendiculars.Useof cross staff, optical square. 2. Measurements of bearings / directionsusingprismaticcompass,	

			settingofgeometricalfiguresusing prismatic compass. 3. Determination of distancebetween twoinaccessiblepointsusingcompass 4. Determinationofreducedlevelsof points using dumpy level/auto level (simple leveling) 5. Determinationofreducedlevelsof points using dumpy level/auto level (differential leveling and inverted leveling). 6. To determine the difference in elevation between two points using Reciprocallevelingandtodetermine the collimation error. 7. To conduct profile leveling, cross sectioningandblockleveling.Plotting profile and cross sectioning in excel. Blockcontourongraphpapertoscale. 8. Measurementofhorizontalangleby repetitionandreiterationmethodsand Measurement of vertical angles using theodolite. 9. Determinationofhorizontal distance and vertical height to a base in accessible object using theodolite by singleplaneanddoubleplane method. 10. To determine distance and elevationusingtachometricsurveying with horizontal and inclined line of sight. 11. Closed traverse surveying using Theodolite and applying corrections forerrorofclosurebytransitruleand Bowditch rule. 12. To locate the points using RadiationandIntersectionmethodof Plane table surveying. 13. To solve three point problem in planetableusingBessel'sgraphical solution. 14. Demonstration of Minor instrumentslikeClinometer,Ceylon Ghattracer,Boxsextant,Handlevel, Planimeter,nauticalextantandPenta	

			graph.	
		CONCRETEAND HIGHWAY MATERIALS LABORATORY	PartA:ConcreteLab 1.TestsonCement: a. NormalConsistency b. Settingtime c. Compressivestrength d. finenessbyairpermeabilitytest e. specificgravity 2. TestsonConcrete: a. DesignofconcretemixasperIS-10262 b. Testsonfreshconcrete: i. slump, ii. compactionfactorand iii. VeeBeetest c.Tests onhardenedconcrete: i. compressivestrengthtest, ii. splittensilestrengthtest, iii. flexuralstrengthtest d.NDTtestsbyreboundhammerand pulse velocity test. 3. TestsonSelfCompactingConcrete: a. Designofselfcompactingconcrete, Asper Is10262:2019 b. slumpflowtest, c. V-funneltest, d. J-Ringtest, e. UBoxtestand f. LBoxtest PartB:HighwaymaterialsLab 1. TestsonAggregates a. AggregateCrushingvalue b. LosAngelesabrasiontest c. Aggregateimpacttest d. Aggregateshapetests(combined index and angularity number) 2. TestsonBituminousMaterials a. Penetrationtest b. Ductility test c. Softeningpointtest d. Specificgravitytest e. Viscositytest bytarviscometer f. BituminousMixDesignbyMarshal Method (Demonstration only) 3.TestsonSoil	

			a. Wetsieveanalysis b. CBR test	
		SOFTWARE APPLICATION LABORATORY	Module-1 Useofcivilengineeringsoftware's: Use of software's for: 1. Analysis of plane trusses, continuousbeams,portalframes. 2. 3Danalysisofmultistoriedframe structures. Module-2 1. Project Management-Exerciseon Projectplanningandschedulingofa building project using any projectmanagementsoftware: a. Understandingbasicfeaturesof Project management software b. Constructing Project: create WBS, Activities,andtasksandComputation Time using Excel spread sheet andtransferringthesametoProject management software. c. IdentificationofPredecessorand Successor activities withconstrain d. Constructing Network diagram (AONDiagram)andanalyzingfor Criticalpath,Criticalactivitiesand Other non Critical paths, Project duration, Floats. e. StudyonvariousViewoptions available f. BasicunderstandingaboutResource Creation and allocation g. UnderstandingaboutSplittingthe activity, Linking multiple activity, assigning Constrains, Merging Multipleprojects,CreatingBaselineP roject 1. GISapplicationsusingopensource software: a. Tocreateshapefilesforpoint,line and polygon features with a map as reference. b. Tocreatedecisionmapsforspecific purpose. Module-3	

			UseofEXCELspreadsheets: Designofsinglyreinforcedanddoubly reinforced rectangular beams, design of one way and two way slabs, computation of earthwork, Design of horizontal curve by offset method, Designofsuperelevation.	
		ENVIRONMENTAL ENGINEERING LABORATORY	1. Preparation chemical solutions requiredforanalysisandsampling methodologies 2. DeterminationofpH, Conductivity, TDS and Turbidity. 3. DeterminationofAcidityand Alkalinity 4. Determination of Calcium, MagnesiumandTotalHardness. 5. DeterminationofDissolvedOxygen 6. DeterminationofBOD. 7. DeterminationofChlorides 8. Determinationofpercentageof%of availablechlorine in bleachingpowder sample, Determination of ResidualChlorineandchlorine demand. 9. DeterminationofSolidsinSewage: i)TotalSolids,ii)SuspendedSolids, iii) Dissolved Solids, iv) VolatileSolids,FixedSolidsv) Settleable Solids. 10. Determinationof optimum coagulantdosageusingJartest apparatus. 11. DeterminationNitratesandIronby spectrophotometer 12. Determination of COD(Demonstration) 13. AirQualityMonitoring (Demonstration) 14. DeterminationofSoundbySound level meter at different locations (Demonstration)	
		COMPUTER AIDED DETAILING OF STRUCTURES	Module-1DetailingofRCC Structures ·Beams–Simplysupported, Cantilever and Continuous.	

			· Slab–Oneway,TwowayandOne-way continuous. · Staircase–Doglegged · CantileverRetainingwall · CounterFortRetainingwall · CircularWaterTank,Rectangular Water Tank. Module-2DetailingofSteel Structures 1. Connections–Beamtobeam,Beam to Column by Bolted and Welded Connections. 2. Built-upColumnswithlacingsand battens 3. ColumnbasesandGussetedbases withboltedandweldedconnections. 4. RoofTruss–WeldedandBolted 5. WeldedPlategirder 6. GantryGirder	
		GEOTECHNICAL ENGINEERING LABORATORY	1. Fieldidentificationofsoil,Specific gravity test (pycnometer and density bottle method). Water content determination by oven drying and Pycnometer method, rapid moisture meter method. 2. Grainsizeanalysis i. Sieveanalysis ii. Hydrometeranalysis 3.In-situdensitytests i. Core-cuttermethod ii. Sandreplacementmethod 4.Consistencylimits i. Liquidlimittest(byCasagrande'sand cone penetration method) ii. Plasticlimittest iii. Shrinkagelimittest 5. Standardcompactiontest(lightand heavy compaction) 6. Co-efficientofpermeabilitytest i. Constantheadtest ii. Variableheadtest 7.Shearstrengthtests i. Unconfinedcompressiontest ii. Directsheartest iii. Triaxialtest(unconsolidated	

			undrainedtest only) 8. Consolidationtest:Todeterminepre consolidation pressure only(half an hour per loading-test). 9. Laboratoryvanesheartest 10. DemonstrationofSwellpressure test, Standard penetration test and boringequipment	

Sl. No.	Department	Laboratory Name	ListofExperiments	Remarks
	Mechanical Engineering	Material Testing lab	1 Preparation of specimen for Metallographic examinationofdifferentengineeringmaterials. Toreportmicrostructuresofplaincarbonsteel, tool steel, gray C.I, SG iron, Brass, Bronze &composites. 2 Heat treatment: Annealing, normalizing, hardening and tempering of steel. Metallographic specimens of heat treated componentstobesuppliedandstudentsshould reportmicrostructuresoffurnacecooled,water cooled, air cooled, tempered steel. Students shouldbeabletodistinguishthephasechanges in a heat treated specimen compared to untreated specimen. 3 Brinell,RockwellandVickers'sHardnesstests on untreated and heat treated specimens. 4 To study the defects of Cast and Welded componentsusingNon-destructivetestslike: a) Ultrasonicflaw detection b) Magneticcrackdetection c) Dyepenetration testing.	

			PARTB 5 Tensile,shearandcompressiontestsofsteel, aluminum and cast iron specimens using Universal Testing Machine 6 TorsionTestonsteelbar. 7 BendingTest onsteelandwoodspecimens. 8 IzodandCharpyTestsonMildsteelandC.I Specimen. 9 Tostudythewearcharacteristicsofferrous and non-ferrous materials under different parameters. 10 Tensile,shearandcompressiontestsofsteel, aluminum and cast iron specimens using Universal Testing Machine 11 FatigueTest(demonstrationonly)	
		Mechanical Measurementsand Metrology lab	1 CalibrationofPressureGauge 2 CalibrationofThermocouple 3 CalibrationofLVDT 4 CalibrationofLoadcell 5 Determinationofmodulusofelasticityofa mild steel specimen using straingauges. PARTB 6 MeasurementsusingOpticalProjector/Tool makers' Microscope. 7 MeasurementofangleusingSineCentre/Sine bar / bevelprotractor	

			8 Measurementofalignmentusing Autocollimator / Rollerset 9 Measurementofcuttingtoolforcesusing: Lathe tool Dynamometer 10 MeasurementsofScrewthreadparameters using two wire or three -wiremethods. 11 Measurementsofsurfaceroughnessusing Tally Surf/Mechanical Comparator 12 Measurementofgeartoothprofileusinggear tooth Vernier/Gear tooth micrometer 13 CalibrationofMicrometerusingslipgauges 14 MeasurementusingOpticalFlats	
		Workshop and Machine Shop Practice (Consists of Fitting, and Machining)	1 Preparationofatleasttwofittingjointmodels by proficient handling and application of hand tools- V block,markinggauge,files,hacksawdrillsetc. PART B 2 Preparation of three models on lathe involving-Plainturning,Taperturning,Step turning, Thread cutting, Facing, Knurling, Drilling, Boring, InternalThreadcuttingandEccentricturning. Exercisesshouldincludeselectionofcutting parameters and cutting time estimation. PARTC	

			3CuttingofVGroove/dovetail/Rectangular groove using a shaper. CuttingofGearTeethusingMillingMachine. Exercisesshouldincludeselectionofcutting parameters and cutting time estimation.	
		Foundry, Forging and Welding lab	PARTA TestingofMoldingsandandCoresand. Preparationofsandspecimensandconduction of the following tests: 1. Compression,ShearandTensiletestson Universal Sand Testing Machine. 2. Permeabilitytest 3. SieveAnalysistofindGrainFinenessNumber (GFN) of Base Sand 4. ClaycontentdeterminationonBaseSand. Welding Practice: UseofArcweldingtoolsandwelding equipment PreparationofweldedjointsusingArcWelding equipment L-Joint,T-Joint,Buttjoint,V-Joint,Lapjoints on M.S. flats PARTB FoundryPractice: Useoffoundrytoolsandotherequipmentfor	

			Preparationofmoldingsandmixture. Preparationofgreensandmoldskeptreadyfor pouring in the following cases: 1. Usingtwomoldingboxes(handcut molds). 2. Usingpatterns(SinglepiecepatternandSplit pattern). 3. Incorporatingcoreinthemold.(Core boxes). 4. Preparationofonecasting(Aluminiumor cast iron-Demonstration only) PARTC ForgingOperations:Useofforgingtoolsand other forging equipment. • Calculation of length of the raw material requiredtopreparethemodelconsideringscale loss. • Preparingminimumthreeforgedmodels involvingupsetting,drawingandbendingop erations.	
		FLUID MECHA NICS AND MACHIN ES LAB	PARTA 1 Lablayout,calibrationofinstrumentsand standards to be discussed 2 Determinationofcoefficientoffrictionof flow in a pipe. 3 Determinationofminorlossesinflowthrough pipes. 4 Application of momentum equation for determinationofcoefficientofimpactofjetson	

			flat andcurvedblades 5 Calibration of flow measuring devices. PART B 6 Performance on hydraulic Turbinesa.Pelton wheel b. Francis Turbine c. Kaplan Turbines 7 Performance hydraulic Pumps Single stage and Multi stage centrifugal pumps e. Reciprocating pump. 8 Performance test on at wo stage Reciprocating Air Compressor. 9 PerformancetestonanAirBlower. PART C (OPTIONAL) 10 Visit to HydraulicPower station/Municipal Water Pump House and Case Studies 11 Demonstration of cut section models of Hydraulic turbines and Pumps.	
		ENERGY CONVERSION LABORATORY	PART A 1 Lablayout,calibration of instruments and standards to be discussed 2 Determination of Flash point and Firepointof lubricating oil using Abel Pensky and Marten's (closed) / Cleveland's (Open Cup) Apparatus. 3 Determination of Calorificvalueofsolid, liquid and gaseous fuels. 4 Determination of Viscosity of lubricatin goil using Redwoods, Saybolt and Torsion	

			Viscometers. 5 ValveTiming/portopeningdiagramofanI.C. Engine. PARTB 6 Performance Tests on I.C. Engines, CalculationsofIP,BP,Thermalefficiency, Volumetric efficiency, Mechanicalefficiency,SFC,FP,A:FRatio,heat balance sheet for a. FourstrokeDiesel Engine b. FourstrokePetrolEngine c. MultiCylinderDiesel/PetrolEngine,(Morse test) d. Two stroke Petrol Engine Variable Compression Ratio I. C.Engine. 7Measurements of Exhaust Emissions of Petrol engine. 8Measurements of Exhaust Emissions of Diesel engine. PART C (OPTIONAL) 9Visit to Automobile Industry/service stations. 10 Demonstration of pθ,pVplotsusing Computerized IC engine test rig	
		COMPUTER AIDED	PARTA 1Study of a FEA package and modeling and	

		MODELLINGAND ANALYSIS LAB	Stress analysis of: a. Bars of constant crosss ectionarea,tapered cross section area and stepped bar b. Trusses–(Minimum 2exercises of different types) c. Beams–Simplysupported,cantilever,beams withpointload,UDL,beamswithvaryingload etc. (Minimum6exercises) d. Stressanalysisofarectangularplatewitha circular hole. PARTB 2ThermalAnalysis–1D&2Dproblemwith conduction and convection boundary conditions (Minimum 4exercisesofdifferenttypes) 3 Dynamic Analysis to find: a) Naturalfrequencyofbeamwithfixed–fixed end condition b) Responseofbeamwithfixed–fixedend conditions subjected to forcing function c) ResponseofBarsubjectedtoforcing functions PARTC(only fordemo) 4a.Demonstrate the use of graphics standards (IGES, STEP etc) to import the model from modeler To so lver.	

			b.Demonstrate one example of contact analysis to learn the procedure to carry out contact analysis. Demonstrat eat least two different types of example to model and analyze bars or plates made from composite material.	
		HEAT TRANSFER LAB	PART A 1 Determination of Thermal Conduc axtivityofa Metal Rod. 2 DeterminationofOverallHeatTransfer Coefficient of a Composite wall. 3 DeterminationofEffectivenessonaMetallic fin. 4 DeterminationofHeatTransferCoefficientin free Convection 5 DeterminationofHeatTransferCoefficientin a Forced Convention 6 DeterminationofEmissivityofaSurface. PART B 7 DeterminationofStefanBoltzmannConstant. 8 DeterminationofLMDTandEffectivenessin a Parallel Flow and Counter Flow Heat Exchangers. 9 ExperimentsonBoilingofLiquidand Condensation of Vapour.	

			10 PerformanceTestonaVapourCompression Refrigeration. 11 PerformanceTestonaVapourCompression Air – Conditioner. 12 ExperimentonTransientConductionHeat Transfer. PART C(OPTIONAL) 13 Analysis of steady and transient heat conduction,temperaturedistributionofplane wall and cylinder usingNumericalapproach(ANSYS/CFD package). 14 Determination of temperature distribution alongarectangularandcircularfinsubjectedto heat loss Through convection using Numerical approach (ANSYS/CFD package).	
		COMPUTRE AIDED MANUFACTURING LAB	PART - A 1. Manual CNC part programming using ISO FormatG/Mcodesfor2turningand2milling parts. Selection and assignment of tools, correction of syntax and logical errors, and verification of tool pathusing CNC program verification software. PART - B 2. CNC part programming using CAM packages.	

		DESIGN LAB	**PART - A** 1 Determination of natural frequency, logarithmicdecrement,dampingratioand damping coefficient in a Single degree of freedom vibrating systems (longitudinal and torsional). 2 Balancingofrotatingmasses 3Determinationofcriticalspeedofarotating shaft 4 Determination of equilibrium speed, sensitiveness,powerandeffortofPorter/Proell /HartnelGovernor. **PART - B** 5 DeterminationofFringeconstantofPhoto-elastic material using. a) Circulardiscsubjectedtodiametral compression. b) Pure bending specimen (four-pointbending. 6 Determinationofstressconcentrationusing Photo-elasticity for simple components like plate with a hole under tension or bending, circular disk withcircularholeundercompression,2DCrane hook 7 DeterminationofPressuredistributionin Journal bearing 8 DeterminationofPrincipalStressesandstrains in a member subjected to combined loading	
			Simulation of Turning, Drilling, Milling operations. 3 typical simulations to be carried out using simulation packages like: CademCAMLab-Pro, Master CAM. Program generation using software. Optimize spindle power,torqueutilization,and cycle time. Generation and printing of shop	

			Using Strain settes. 9DeterminationofstressesinCurvedbeam using strain gauge	

Sl. No.	Department	Laboratory Name	List of Experiments	Remarks
1	AIML	DataStructure Lab	https://vtu.ac.in/pdf/2018syll/is.pdf	
2	AIML	Microcontroller Lab		
3	AIML	Mobile Application Development		
4	CSE		2018 scheme- https://vtu.ac.in/pdf/2018syll/cs.pdf 2021 scheme- https://vtu.ac.in/pdf/2021syll/csesch.pdf 2022 scheme- https://vtu.ac.in/en/b-e-scheme-syllabus/#menu07 2025 scheme- https://vtu.ac.in/en/b-e-scheme-syllabus/	
Sl. No.	Department	Laboratory Name	List of Experiments	Remarks
1	ISE	DataStructure Lab	https://vtu.ac.in/pdf/2018syll/is.pdf	
2	ISE	Microcontroller Lab		
3	ISE	FileStructure Lab		
4	ISE	Software TestingLab		
5	ISE	Analysisand Design Lab		
6	ISE	Web Programming Lab		
7	ISE	Machine LearningLab		

8	ISE	Mobile Application Development		
Sl. No.	Department	Laboratory Name	List of Experiments	Remarks
1	ISE	DataStructure Lab	https://vtu.ac.in/pdf/2018syll/is.pdf	
2	ISE	Microcontroller Lab		
3	ISE	FileStructure Lab		
4	ISE	Software TestingLab		
5	ISE	Analysisand Design Lab		
6	ISE	Web Programming Lab		
7	ISE	Machine LearningLab		
8	ISE	Mobile Application Development		

15.2 Computing Facilities

- Internet Bandwidth: 300MBPS
- Number and configuration of System:
- Total number of systems connected byLAN: 466
- Total number of system connected by WAN: 466
- Major software packages available: Windows 7 Professional 32/64 Bit, Windows 7 Professional K 32/64 Bit Windows 7 Professional N 32/64 Bit, Windows 7 Enterprise 32/64 Bit, Windows 7 Enterprise K 32/64 Bit Windows 7 Enterprise N 32/64 Bit,Windows 8 Pro 32/64 Bit, Windows 8 Pro K 32/64 Bit, Windows 8 Pro N 32/64 Bit, Windows 8 Enterprise 32/64 Bit, Windows 8 Enterprise K 32/64 Bit, Windows 8 Enterprise N 32/64 Bit, Windows 8.1 Pro 32/64 Bit, Windows 8.1 Pro K 32/64 Bit, Windows 8.1 Pro N 32/64 Bit, Windows 10 Pro 32/64 Bit,Windows 10 Pro N 32/64 Bit, Windows 10 Education, Ubuntu19 and Ubuntu 21, Windows 11 Education, Windows 11 pro, Windows server 2022 standard

  Special purpose facilities available (Conduct of online Meetings/Webinars/Workshops, etc.)

  Facilities forc onduct of classes/courses in online mode(Theory&Practical)
- Innovation Cell-Avialable
- Social Media Cell- Available

15.3 Compliance of ABC ,applicable to PGCM/ PGDM Institutions and University Departments

15.4 List of facilities available

- Games and Sports Facilities

SPORTS INFRASTRUCTURE

Facility	Quantity (No's)	Area/size(mx m) includeextraspace	Yearof establishment
Playground	3	16187sqm	1997
Basketballcourt	1	32X19	1997
Volleyballcourt	1	24X15	1997
Handball	1	40X20	1997
Throwballcourt	1	22X15	1997
Kabaddicourt	2	30X24	1997
Kho-kho	1	30X30	1997
Netball	1	40X25	1997
Cricketground	1	60mts5acers	1997
Footballground	1	110X70	1997
Athletictrack200m	1	5acers	1997
Indoor		Multi-purpose Indoorstadium	2008
Multi gym	1	50sqm	2008
Shuttlebadmintoncourt	2	446sqm	2008
Chess	5		1997
Tabletennis	1		2008
Caroms	1		2008

+5.5List of facilities available

- Games and Sports Facilities +Description

SPORTS INFRASTRUCTURE

Facility	Quantity (No's)	Area/size(mx m) include extra space	Year of establishment
Playground	3	16187sqm	1997
Basketballcourt	1	32X19	1997
Volleyballcourt	1	24X15	1997
Handball	1	40X20	1997
Throwballcourt	1	22X15	1997
Kabaddicourt	2	30X24	1997
Kho-kho	1	30X30	1997
Netball	1	40X25	1997
Cricketground	1	60mts5acers	1997
Footballground	1	110X70	1997
Athletictrack200m	1	5acers	1997

Indoor		Multi-purpose Indoorstadium	2008
Multi gym	1	50sqm	2008
Shuttlebadmintoncourt	2	446sqm	2008
Chess	5		1997
Tabletennis	1		2008
Caroms	1		2008

- Extra-Curricular Activities:Yoga center

Teaching Learning Process (TLP)

- Curriculum and syllabus for each of theProgrammes as approved by the University

Sl. No.	BRANCH	Scheme	Link
1	Electronics & Communication Engineering	2018	https://vtu.ac.in/pdf/2018syll/is.pdf 2018SCHEMESYLLABUS.pdf
		2021	https://vtu.ac.in/pdf/2021syll/isesch.pdf 2021SYLLABUS.pdf
		2022	https://vtu.ac.in/pdf/2022_3 to 8/2ecesyll.pdf
		2025	https://vtu.ac.in/en/b-e-scheme-syllabus/
2	Computer Science & Engineering	2018	https://vtu.ac.in/pdf/2018syll/cs.pdf
		2021	https://vtu.ac.in/pdf/2021syll/csesch.pdf
		2022	https://vtu.ac.in/pdf/2022_3to8/2csessyll.pdf https://vtu.ac.in/pdf/2022_3to8/3csesyll.pdf https://vtu.ac.in/pdf/2022_3to8/6csesyll.pdf https://vtu.ac.in/pdf/2022_3to8/7csesyll.pdf
		2025	https://vtu.ac.in/en/b-e-scheme-syllabus/
3	Information Science & Engineering	2018	https://vtu.ac.in/pdf/2018syll/is.pdf
		2021	https://vtu.ac.in/pdf/2021syll/isesch.pdf
		2022	https://vtu.ac.in/pdf/2022_3to8/2issyll.pdf https://vtu.ac.in/pdf/2022_3to8/3issyll.pdf https://vtu.ac.in/pdf/2022_3to8/6issyll.pdf https://vtu.ac.in/pdf/2022_3to8/7issyll.pdf
		2025	https://vtu.ac.in/en/b-e-scheme-syllabus/
4	ArtificialIntelligence&Machine Learning	2018	https://vtu.ac.in/pdf/2018syll/me.pdf
		2021	https://vtu.ac.in/pdf/2021syll/mesch.pdf
		2022	https://vtu.ac.in/pdf/2022_3to8/2aimlsyll.pdf https://vtu.ac.in/pdf/2022_3to8/3aimlsyll.pdf https://vtu.ac.in/pdf/2022_3to8/7aimlsyll.pdf
		2025	https://vtu.ac.in/en/b-e-scheme-syllabus/
5	MechanicalEngineering	2018	https://vtu.ac.in/pdf/2018syll/cv.pdf
		2021	https://vtu.ac.in/pdf/2021syll/cvsch.pdf
		2022	https://vtu.ac.in/pdf/2022_3to8/2mecsyll.pdf https://vtu.ac.in/pdf/2022_3to8/3mecsyll.pdf https://vtu.ac.in/pdf/2022_3to8/4mecsyll.pdf
		2025	https://vtu.ac.in/en/b-e-scheme-syllabus/

6	Civil Engineering	2018	https://vtu.ac.in/pdf/2018syll/ai.pdf
		2021	https://vtu.ac.in/pdf/2021syll/aisch.pdf
		2022	https://vtu.ac.in/pdf/2022_3to8/civsch.pdf https://vtu.ac.in/pdf/2022_3to8/58civsch.pdf https://vtu.ac.in/pdf/2022_3to8/2civsyll.pdf https://vtu.ac.in/pdf/2022_3to8/3civsyll.pdf https://vtu.ac.in/pdf/2022_3to8/4civsyll.pdf
		2025	https://vtu.ac.in/en/b-e-scheme-syllabus/

For each Post GraduateCourse give the following:

- Title of the Course

  -NA-

- Curricula and Syllabi

  -NA-

- Laboratory facilities exclusive to the Post Graduate Course

  -NA-