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
Phone No	+918028437036, 7625013435
Fax No	080-28437944
Email	vkitprincipal@gmail.com
AICTE Permanent ID	1-12176161
Date	16.07.2023
Period of Last Approval	2023-24
Longitude & Latitude	77.45407128020378, 12.857224027622449
College hours	8.30 a.m to 4.30 p.m

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
Phone No	080 2337 1952
Email	jesmanager@gmail.com

Janatha Education Society
Details of Trustees

Sl	Name of the Trustee & Address	Designation	Mobile no	E Mail
1	**Sri BALAKRISHNA, H.C.** Amma Nilaya, No.21, (22) 1st Cross, 1st Stage MIG KHB Colony, BasaveshwaraNagara Bangaluru -560079	President	9448066939 9448050192 9663146939	jesmanager@gmail.com
2	**Sri S.T.Narayana Gowda** No.463/1, 7th Cross 12th Main Road, RMV Extension Sadashiva Nagar Bangaluru-560080.	Vice President	9845165280	jesmanager@gmail.com
3	**Sri H.G.Balagopal** 'Shobha Shree', No.893, West of Chord Road, IInd Stage, Bangaluru - 560 086	Secretary	9845047495	hgbalagopal@gmail.com
4	**Sri I Narayana Reddy** No.23/1, 1st 'A' Main Road 5th Cross, Yeshwanthpur Bangaluru - 560 022	Joint Secretary	9342868296	-
5	**Sri N.Nagaraj** #.19/7, Mysore Deviation Road Gopalapuram Magadi Road, Bangaluru 560032	Treasurer	7338081732	-
6	**Sri Harish Appa Reddy** #.K5/2,10th Cross	Internal Auditor	9845042747	haagindia@gmail.com

	RMV Extension, Lake Road Sadashiva Nagar Bangaluru - 560 0080			
7	**Sri C.N.Manche Gowda** No.51, HIG, 1st 'A' Main Road 1st Stage, KHB Colony Basaveshwaranagar Bangaluru - 560 079	Member MC	9972017176	manche1938@gmail.com
8	**Sri.K.Shyamaraju** No.150/B, 10th Main Road Rajmahal Vilas Extension Sadashivanagara Bangaluru - 560 080,	Member	9844013391	-
9	**Sri M.R. Lakshmi Manohar** No.169, 1st Floor Lower Palace Orchard Bangaluru - 560 003	Member	7829748937	Lmanohar26@gmail.com
10	**Sri K.L Avinash** 31/8, 16th Cross, 6th Main Narayanappa Farm, Sanjayanagar,R.M.V 2nd Stage Bangaluru - 560 094	Member	9845153715	-
11	**Sri K.P.Manju** No.95, 1st Floor, 4th Cross, 2nd Stage AGB Layout, Mahalaksmipuram Bangaluru-560096	Member	9844565861	-
12	**Sri G.V.Anil** No 11,1st Floor 1st Cross, "Shanthivana" Sahakarinagara Post Bangaluru 560092	Member	9448663752	-
13	**Smt. B.H.Pankaja** No.38, 9th Cross, 8th Main, Ist Floor S.B.M. Colony, Brundavan Nagar Mathikere Extension Bangaluru-560054	Member	9742818256	-
14	**Prof.G.K.Narayana Reddy** No.622/93, Dr.Rajkumar Road Rajajinagar, 2nd Block, Bangalore - 560 010	Mentor	9448713712	kn_reddy@hotmail.com

15	**Dr A.C Raghuram** # 98, 5A Cross Dollar Colony RMV 2nd Stage Bangalore - 560 094	Advisor	9945560104	raghuram@scientist.com
16	**Sri K.P.Muthaiah** No.12, 1st Main, 3rd Stage Vinayaka Layout Vijayanagar, Bangalore - 560040	Invitee	9902144188	muthaiah@yahoo.com
17	**Sri H.T Narayana** 20, 3rd Cross Road Srirampuram Bangalroe-560021	Invitee	-	-
18	**Sri A.M.Umashankar** # 5/106, Sri Rama Nilaya 10th Main, 11th A Cross Malleshwaram Bangalore- 560003	Invitee	9845017319	ammresidency@gmail.com
19	**Smt Indira Gopala Krishna** # 474, Jalvayu Towers NGEF Layout, Sadananda Nagara Indiranagara, post Bangalore, 560038	Invitee	9845666495	Indira1411@yahoo.com
20	**Sri.G.K.SATHYAKEERTHI** No.402/1, First Floor 13th Cross, Sadashivanagar Bangalore - 560 080	Invitee	9986577036	-
21	**Sri K.B.Jayaram** No.33, 6th.Main Road Malleswaram Bangalore - 560 003	Special Invite	9880195274	-
22	**Smt H.R Aruna Kumari** No 222, 8th Cross, 3rd Block D Group Employee Layout Andhrahalli Main Road Vishwanidam Post Bangalore -560091	Special Invite	9945079877	
23	**Dr R Ravindra** Chairman Suguna Hospital 1A/87, Dr Rajkumar Rd, 4th 'N' Block, Udayam Nagar,	Special Invite	9845034546	

	Rajajinagar, Bengaluru, Karnataka 560010			

NAME AND ADDRESS OF THE PRINCIPAL

Name	**Dr. K.M. Ravikumar** Principal
Address	GUDIMAVU, KENGERI HOBLI
City	BENGALURU
State	KARNATAKA
Website	www.vitb.ac.in
Phone No	080-28437696, 7625013435
Fax No	080-28437696
Email	vkitprincipal@gmail.com

NAME OF THE AFFILIATING UNIVERSITY

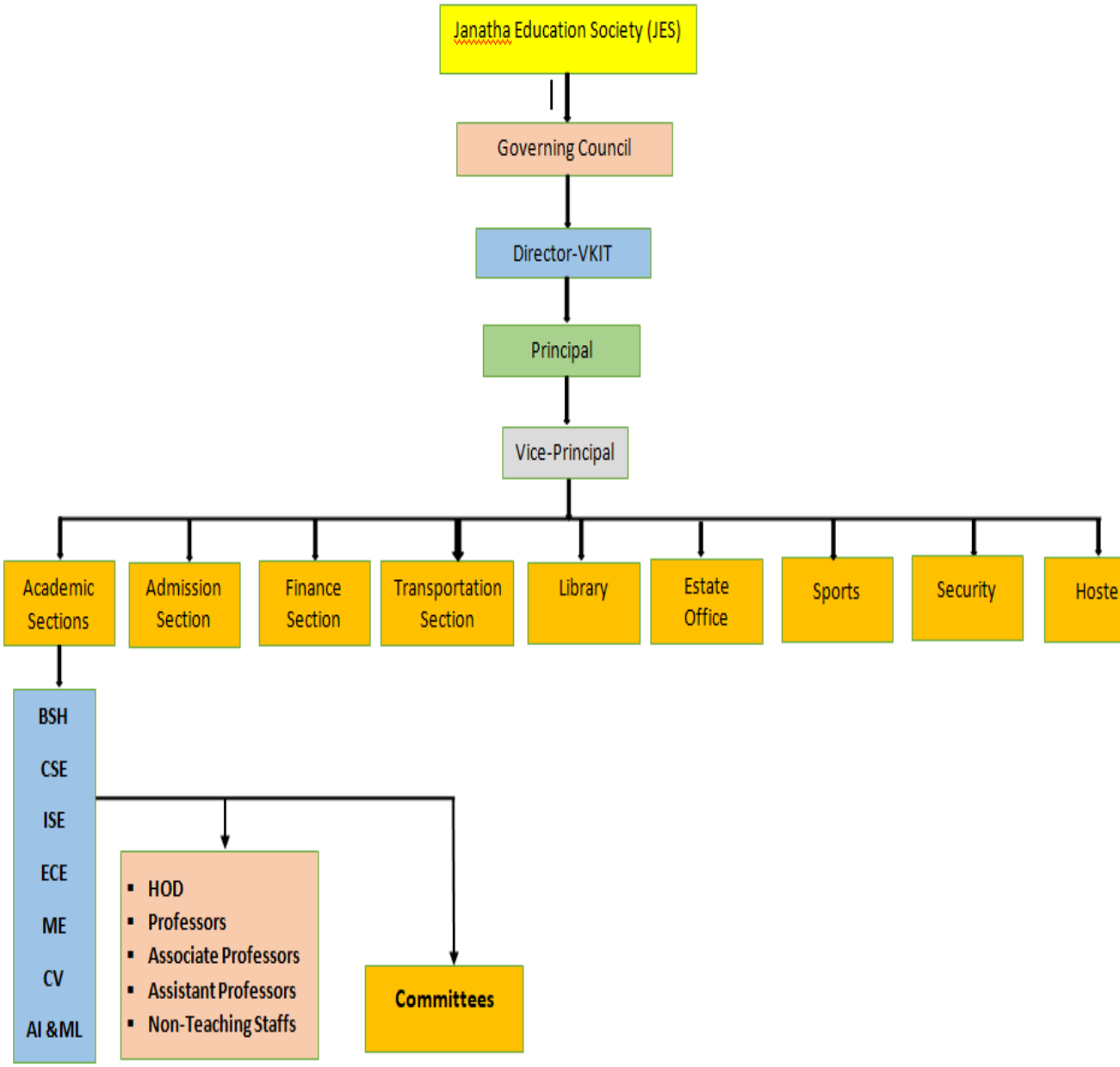
Name of the University	Visvesvaraya Technological University, Belagavi
Name of Registrar	Dr. B.E. Rangaswamy
Address	Jnana Sangama, Belagavi, Karnataka - 590018
City	Belagavi,
State	Karnataka
Website	https://vtu.ac.in
Phone No	0831-2498100
Fax No	0831-2405467
Email	registrar@vtu.ac.in

GOVERNANCE

ORGANIZATIONAL CHART AND PROCESSES

Organization Chart (Organogram)

Vivekananda Institute of Technology



Establishment of Anti ragging Committee

Sl. No.	Committee Members	Designation	Phone Nos.
1	Dr. D. V. Chandrasekhar , Principal	President	9448394326
2	Mr.Lokesh K T, PED	Member	8971443642
3	Dr. Bhagyalakshmi N Professor & HOD, E C	Member	9480261129
4	Dr. Vanajakshi P Assoc,Prof & HOD, ISE	Member	8884050005
5	Dr. Vidya A Professor & HOD, CSE	Member	9986011084
6	Dr. Manjunatha	Member	9164407044
7	Prof. Harish T S Professor & HOD, CE	Member	9880570507
8	Dr.Bheemann HG Professor , Chemistry	Member	8151814217
9	Dr.Pavan GP Prof. and Head AI & ML	Member	9739246854
10	Mr.Narayan R E Librarian	Member	9538282067
11	Smt.Chaitra CR Girls Hostel Warden	Member	7019079125
12	Mr. Karuna Kumar Hostel Warden	Member	9052355278
13	Police Sub Inspector, Kaggalipura Kanakpura Road, Bangalore.	Member	080-28435250
14	Mr. Tejas VII Sem ECE	Member	9071842716
15	Mr.Likhith VII Sem ECE	Member	9071861862
16	Mr. Varun VII ME	Member	8095401999
17	Mr. Vinod S VII ME	Member	9611343803
18	Miss. Hemalatha VII ISE	Member	7204711390

19	Mr. Darshan VII ISE	Member	6361627601
20	Mr. Hariprsad rao V CSE	Member	7619369147

Grievance Redressal Committee

Sl. No	Name	Designation
1.	Dr. K M Ravikumar Principal	Chairman
2.	Dr. D V Chandrashekar Vice-Principal	Vice-Chairman
3	Dr. Vidya A, Prof & Head, Dept. of CSE	Member (Female)
4.	Prof. Ghouse Pasha Asst. Prof. Dept. of CSE	Member(OBC)
5.	Prof. Anitha Asst. Prof. Dept. of ISE	Member
6.	Abhilasha Final year CSE	Student member

Establishment of Online Grievance Redressal Mechanism

Online link for grievances of staff and Students:

Link:grievancesvkit@gmail.com

Internal Complaint Committee

Sl No	Position	Position in CICC	Gender	Mobile Number and E-Mail ID	Official Number
1	Dr.P Vanajakshi Associate Prof. Dept of ISE	Chairperson	F	8884050005 vpgowda.cpt@gmail.com	080-28437696/ 28437036
2	Prof.Pavitra S 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.Sathyavathi E.V Assistant Prof.Dept of AI &ML	Faculty Member	F	7899589186 sathyavathievs727@gmail.com	
5	Mrs.Sunitha SDA-Office	Non-Teaching Member	F	9886659442 Anandsunitha2004@gmail.com	
6	Mrs.Laxmi (office admin) Account Assistant-Office	Non-Teaching Member	F	9611997697 Lakshmi78929@gmail.com	
7	Varsha S 7th Sem AI&ML	Student	F	6360030562 svarshagowda1999@gmail.com	
8	Sahana baby R 7th sem ECE	Student	F	8792596736 sahanareddy929@gmail.com	
9	Bhargavi 7th sem ISE	Student	F	9731216651 hmk.bhargavi@gmail.com	
10	Prerana L 7th Sem CSE	Student	F	6363513357 preru282002@gmail.com	
11	Priyanka N 3rd Sem AI&ML	Student	F	7259639860 Pp7723845@gmail.com	
12	Smt.Dr.Padmakshi Lokesh	NGO Member	F	9901926919 drpadmakshi@gmail.com	

Establishment Committee for SC/ST
SC/ST Committee

SL No	Name	Designation
1	Siddaraju N	Chairman
2	Gangadharaiah H.N	Member
3	Mohan Babu	Member
4	Suresh Kadenayankanahalli	Member

6. Programmes

Name of Programmes approved by AICTE

Under Graduate Programmes

Sl. No	Course	Year of Est.	Approval Intake for the year (2023-24)
1	Electronics & Communication Engineering	1997	60
2	Computer Science and Engineering	1997	90
3	Information Science and Engineering	1998	60
4	Mechanical Engineering	2013	30
5	Civil Engineering	2013	60
6	Artificial Intelligence and Machine Learning	2020	60
Total Intake			**360**

Name of Programmes Accredited by NBA

Under Graduate Programmes

-NIL-

ACCREDITATION STATUS OF VARIOUS COURSES

Under Graduate Programmes

Sl No	Name of the Department	Accreditation Status			
		NBA		NAAC	
		From	To	From	To
1	Electronics & Communication Engineering	No		Applied for the academic year 2023-24	
2	Computer Science and Engineering				
3	Information Science and Engineering				
4	Mechanical Engineering				
5	Civil Engineering				
6	Artificial Intelligence & Machine Learning				

For each Programme the following details are to be given

Under Graduate Programmes

Sl. No.	Course	Intake	Duration (Years)	Cut off marks/rank of admission during the last three years			Fees (As Approved by state Govt.)
				2023-24	2022-23	2021-22	
1	Electronics & Communication Engineering	60	4	L-58833 H-158760	L-49491 H- 203584	L- 33238 H-120987	As per the norms of State Government
2	Computer Science and Engineering	90	4	L-34233 H-109691	L-21694 H-142792	L-25993 H-128704	
3	Information Science and Engineering	60	4	L-45801 H-134039	L-41765 H-158755	L-44030 H-178217	
4	Mechanical Engineering	30	4	L- H-197111	L-11423 H-131760	L-Rank-1,41,135 H- 206630	
5	Civil Engineering	60	4	L- H-202830	L-98970 H-136476	L-55882 H-113705	
6	Artificial Intelligence & Machine Learning	60	4	L-40443 H-133301	L-44960 H-173047	L-65527 H - 138665	

Placement Details for 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 at appointment (In INR per annum)
2022-23	Nagaraj Patil	B.E	2023	TCS	3.36LPA
2022-23	Sharath A	B.E	2023	Foxconn HonHai Technology India Mega Development Pvt. Ltd.	3LPA
2022-23	Nikhil C R	B.E	2023	Global PCCS Pvt. Ltd.	2.4LPA
2022-23	Manoj Kumar B N	B.E	2023	BOSCH	3LPA
2022-23	Soumya S	B.E	2023	Welldoc Software Private Limited	3.25LPA
2022-23	Nayana V S	B.E	2023	Subex	4LPA
2022-23	Rakshak C	B.E	2023	VMAPStech India Private Limited	2.04LPA
2022-23	Sagar S	B.E	2023	Manpower Group Services India Pvt. Ltd.	2.76LPA
2022-23	Sangama Prabhakar Gowda	B.E	2023	Nexteer Automotive India Private Limited	16LPA
2022-23	Pankaj Kumar	B.E	2023	Byju's	3.5LPA
2022-23	Gnana Sai A S	B.E	2023	Fuji Academy Pvt. Ltd	4.2LPA
2022-23	Deeksha Shetty	B.E	2023	Benchmark ESG Private Limited	4LPA
2022-23	Aishwarya A	B.E	2023	Tech Mahindra	3.25LPA
2022-23	Impana L A	B.E	2023	Simplilearn	6LPA
2022-23	Lingaraju B	B.E	2023	Global PCCS Pvt. Ltd.	2.4LPA
2022-23	Anush	B.E	2023	Seventh Sense Talent Solutions	3LPA
2022-23	Chitra	B.E	2023	Seventh Sense Talent Solutions	5LPA
2022-23	Lohith Kumar A Bhattangi	B.E	2023	Seventh Sense Talent Solutions	3.6-9LPA
2022-23	Durgashree H S	B.E	2023	Peol Technologies	3LPA
2022-23	Prathap	B.E	2023	Seventh Sense Talent Solutions	5LPA
2022-23	Chitra D M	B.E	2023	Immensphere	3.6LPA
2022-23	Aishwarya	B.E	2023	Seventh Sense Talent Solutions	5LPA
2022-23	Nayana	B.E	2023	Seventh Sense Talent Solutions	5LPA
2022-23	Shwetha	B.E	2023	Seventh Sense Talent Solutions	5LPA
2022-23	Swathi B	B.E	2023	Seventh Sense Talent Solutions	5LPA
2022-23	Lishika	B.E	2023	Seventh Sense Talent Solutions	5LPA

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

Sl no	Name ofthe Univer sity	Address	Websit e	Accredi tationst atusoft heUniv ersityin itsHom eCount ry	RankingoftheUniversityintheHomeCountry	Whether thedegree offeredisequivalent toanIndianDegree	NatureofCollaboration	Conditionsof Collaboration	Complete detailsofpayment a studenth astomake togetthefullbenefitofCollaboration
1	NIL								

FACULTY

Faculty List for the Academic year 2023 - 24						
Sl-No	**Name of the Staff**	**Designation**	**Date of Joining**	**Qualification**		
				UG	**PG**	**Ph.D**
1	Dr.K.M.Ravikumar	Professor & Principal	19.10.2023	BE	M.Tech	Ph.D
Department of Electronics & Communication Engineering						
1	Dr. Bhagyalakshmi. N	Professor and HOD	10.10.2002	BE	M.Tech	Ph.D
2	Deepa Deganvi Veeresh	Assistant Professor	11.07.2022	BE	M.Tech	_
3	Sheelakshmi. V	Assistant Professor	13.07.2022	BE	M.Tech	_
4	Dr.N.Uday Kumar	Assistant Professor	06.10.2023	BE	M.Tech	Ph.D
5	Kavitha. C.S	Assistant Professor	16.10.2023	BE	M.Tech	_
6	Mamatha. M	Assistant Professor	16.10.2023	BE	M.Tech	_
7	Monica. N.P	Assistant Professor	30.10.2023	BE	M.Tech	_
Department of Computer Science & Engineering						
1	Dr. Vidya. A	Professor and HOD	22.09.2003	BE	ME	Ph.D
2	Sijin. P	Assistant Professor	13.06.2022	BE	ME	(Ph.D)
3	Deepthi. T.K	Assistant Professor	06.02.2023	BE	M.Tech	_
4	Vishwanath. P	Assistant Professor	23.03.2023	BE	M.Tech	(Ph.D)
5	Hanumantharayappa. T.A	Assistant Professor	26.06.2023	BE	M.Tech	_
6	Sowmya. M.Y	Assistant Professor	05.07.2023	BE	M.Tech	_
7	Ghouse Pasha	Assistant Professor	25.10.2023	BE	M.Tech	_
8	Poornima. M	Assistant Professor	25.10.2023	BE	M.Tech	_
9	Hemanth Kumar R.L	Assistant Professor	20.11.2023	BE	M.Tech	

10	Nagaraju Y	Assistant Professor	03.11.2023	BE	M.Tech	
11	Sangeetha S	Assistant Professor	02.01.2024	BE	M.Tech	
12	Shailaja S	Assistant Professor	26.02.2024	BE	M.Tech	

Artificial Intelligence & Machine Learning (AI & ML)

Sl-No	Name of the Staff	Designation	Date of Joining	Qualification		
				UG	PG	Ph.D
1	Dr. Shaila K	Prof. & Head	22.09.2003	BE	M.E.	Ph.D
2	Dr. Shailesh M.L	Assoc. Prof.	14.03.2024	BE	M.Tech	Ph.D
3	Jamuna. H.G	Assistant Professor	04.11.2022	BE	M.Tech	_
4	Sathyavathi. E.V	Assistant Professor	01.09.2023	BE	M.Tech	_

Department of Information Science & Engineering

1	Dr. P.Vanajakshi	Assoc Professor & HOD	08.07.2000	BE	M.Tech	Ph.D
2	Anitha. K .R	Assistant Professor	01.06.2023	BE	M.Tech	_
3	Manasa. M	Assistant Professor	16.10.2023	BE	M.Tech	_
4	Yashaswini. K.S	Assistant Professor	19.10.2023	BE	M.Tech	_
5	Shailaja M	Assistant Professor	01.02.2024	BE	M.Tech	

Department of Mechanical Engineering

1	Dr. Shivaraj B.W	Assoc.Prof. & HOD	05.01.2024	B.E.	M.Tech	Ph.D
2	Dr.Manjunatha. R	Assistant Professor	25.07.2016	BE	M.Tech	Ph.D
3	Harsha. R .N	Assistant Professor	10.08.2015	BE	M.Tech	(Ph.D)
4	Devaraju. G.P	Assistant Professor	11.09.2017	BE	M.Tech	_
5	Sudindra. S	Assistant Professor	29.11.2021	BE	M.Tech	_

Department of Civil Engineering

1	T.S. Harish	Assistant Professor	21.07.2014	BE	M.Tech	_
2	Dr.H.K.Lakshmipathaiah	Professor	01.12.2021	B,Sc	M.Sc	Ph.D
3	Siddaraju. N	Assistant Professor	10.08.2015	BE	ME	_
4	Pavithra. S	Assistant Professor	02.12.2021	BE	M.Tech	_
5	Soubhagya S.Bagojikoppa	Assistant Professor	18.12.2023	BE	M.Tech	_
6	Navya. K.S	Assistant Professor	20.12.2023	BE	M.Tech	_

Basic Science & Humanities						
1	Dr. D. V. Chandrashekar	Professor & Vice-Principal	24.11.1997	B.Sc	M.Phil	Ph.D
2	Dr. Shilpa. B. V	Assistant Professor	30.07.2010	B.Sc	M.Sc	Ph.D
3	Dr. Mohan Babu. V	Assistant Professor	02.02.2015	B.Sc	M.Sc	(Ph.D)
4	Lakshmikantha D.B	Assistant Professor	19.01.2015	B.Sc	M.Sc	_
5	Dr. H.G. Bheemanna	Professor	05.12.1997	B.Sc	M.Sc	Ph.D
6	Devika Sundar	Assistant Professor	28.09.2015	B.Sc	ME	(Ph.D)
7	Dr. Latha Rani. N	Assistant Professor	02.11.2023	B.Sc	M.Sc	Ph.D
8	Pooja. D.N	Assistant Professor	10.11.2023	B.Sc	M.Sc	_
9	Thejaswini. R	Assistant Professor	01.12.2023	B.Sc	M.Sc	_
Placement Officer						
1	Dr. Shivaraj B.W	Placement officer	05.01.2024	B.E.	M.Tech	Ph.D
Library						
1	Narayana. R.E	Librarian	25.09.1998	M.Lib	M.Phil	_
Sports						
1	Lokesh. K . T	PED	04.04.2016	BPEd	MPEd	_
Part Time Lecturer						
1	Shivanna. C	Kannada	02.01.2023	BA	MA	_
2	Vidya. V	English	06.11.2023	BA	MA	_

Guest Faculty

1	Punith	ISE	20.03.2000	21.12.2023		
2	Sanajana	ISE	16.01.2000	21.12.2023		
3	Neetha P.U	AI & ML	26.10.1995	26.02.2024		
4	Dr. Reshma S	AI & ML	02.10.1989	26.02.2024		

PERMANENT FACULTY: STUDENT-RATIO

SL.NO.	Department	No. Of Faculty	No. Of Students (II, III, IV Year)	Ratio
1	Electronics & Communication Engineering	10	111	1:11
2	Computer Science and Engineering	11	284	1:26
3	Information Science and Engineering	4	156	1:39
4	Mechanical Engineering	4	16	1:4
5	Civil Engineering	6	30	**1:5**
6	Artificial Intelligence	2	103	1:51
	Total		700	
7	Physics	2		
8	Chemistry	2		
9	Mathematics	5		
Total				

Profile of Principal

Name	Dr. K.M. Ravikumar
Date of Birth	19-06-1975
Unique ID	1SJEC0003124
Working Experience	Teaching: 24yrs Research Industry
Others	-
Area of Specialization	Electronics & Communication Engg.
Courses taught at Diploma/ Post Diploma/Under Graduate/Post Graduate/Post Graduate Diploma Level	Digital Signal Processing Microprocessor Digital Communication Signals & Systems
Research Guidance (No. Of Students):	10 Students
No. Of Papers published: in National /International/Journals/Conferences	Journal National : 23 International Conferences - 23 National Conferences- 8
No. Of Books Published with details (Name of the Book, Publisher with ISBN, Year of Publication Etc.	Automatic Detection of Syllable Repetition in Read Speech for Objective Assessment of Stuttered Disfluencies", 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 Stuttered Disfluencies" International Journal on Advanced Networking and Applications, IJANA, Vol.02, April 2011, Issue: 05, pp. 854-860. **"Stuttered Speech: An Acoustic Study" International Journal of Computer**

	Engineering Science, IJCES, Vol.02, March 2012, Issue:01,pp.17-23, ISSN:2250:3439. "Analysis of infant cry signal: Basic approach", Midas Touch International Journal of Commerce, Management and Technology, Volume 2, No. 1, January- 2014, pp.56-61, ISSN:2320 -7787. **"Stuttered speech analysis using classification 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 Absolute Differences Architecture for Digital 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 Characterization Using Statistical Properties" , International journal of Emerging Technology and Advanced Engg,.ISSN 2250-2459, ISO9001:2008, vol. 4 ,Issue6, June2014 . "Intelligibility Of Speech Using Short Time 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, February 2015. Doi:10.12720/jomb.4.1.59-66.** **"Effect of 0dB and 20dB Vehicle Noise on**

	Stuttered Speech: A Study," *International Journal of* Computer Application,2 015(1):19-23, May2015. http://www.ijcaonline.org/proceedings/icctac2015/number1/20920-2007 **"Decoding Baby Talk: Basic Approach for Normal Classification of Infant Cry Signal," *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 Research ISSN0973-4562 Volume10, Number 20 (2015) pp 41413-41418 © Research India Publications. http://www.ripublication.com, **IJAER, SCOPUS INDEXED JOURNAL.** **"IMAGE TRANSMISSION IN OFDM USING M-ARY PSK MODULATIONSCHEMES –A COMPARITIVE STUDY," International Journal of Research in Engineering and Technology, e-ISSN 2319-1163,** **" EEG Based Emotion Recognition Using Wavelets and Neural Networks 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** **" An Algorithm to Detect Emotion States and Stress Levels Using EEG Signals", International Journal of Latest Research in Engineering and Technology (IJLRET) ISSN:2454-5031 www.ijlret.com‖ PP.05-12,**

	December2017. **http://www.ijlret.com/Papers/NC3PS2017/2.pdf** **"Region of interest based selective medical image encryption using multi chaoticsystem"** International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECCOT-2017) in association with IEEE Bangalore section organized by GSSS Institute of Engineering Technology for Women, Mysuru held on 15th-16thDecember 2017. **"Detection of Human emotions using features based on discrete wavelet transform of EEG signals"** International Conference on Emerging 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**" International Conference on emerging Trends in Science & technologies for Engineering Systems (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. **"Student risk identification learning model using machine learning approach"** Published in International Journal of Electrical and Computer Engineering,October2019. **"Student Risk Identification Model Using Random Forest Algorithm"** Published in European Journal of Molecular & Clinical Medicine (ISSN 2515-8260 Volume 07, Issue 08) December 2020
Master	Completed
Ph.D	Completed

Projects Carried Out	01
Patents (Filled & Granted)	01
Technology Transfer	-

FEE

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

Time schedule for payment of Fee for the entire Programme

A.Y	Duration (In months)
2019-20	Course Duration : 4 years , 8 Semesters (Fee will be collected every year during starting of Academic year. Permissible within one month of starting of Academic year in special cases
2020-21	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
2021-22	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 Duration4 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
2019-20	9	1,00,000
2020-21	24	2,35,000
2021-22	11	1,40,000
2022-23	20	1,40,000/-

Academic Year : 2019-20					
Sl. No.	**Name of the Student**	**USN**	**Total demand**	**Concession Amount**	**Concession Given by**
1	Sahana N	1VK19CS040	90000	20000	JES
2	Akash C	1VK19CS005	120000	10000	JES
3	Dileep G	1VK19ME004	90000	10000	JES
4	Sudeep Gowda C	1VK19ME015	100000	10000	JES
5	Prajwal R	1VK19ME012	100000	10000	JES
6	Darshan gowda B B	1VK19CS014	100000	10000	JES
7	Gagan N	1VK19CS017	125000	10000	JES
8	Varthika Billava	1VK19CS061	105000	10000	JES
9	Reema Manjunath	1VK19EC009	90000	10000	JES
	Total			**100000**	

Academic Year : 2020-21					
Sl. No.	**Name of the Student**	**USN**	**Total demand**	**Concession Amount**	**Concession Given by**
1	SRIVATSA R	1VK20CV017	55000	10000	JES
2	NITHIN D	1VK20CV011	75000	10000	JES
3	ARCHANA B	1VK20AI004	90000	10000	JES
4	JAHNAVI GOWDA A M	1VK20AI012	80000	10000	JES
5	GRACE MARY B K	1VK20AI008	80000	10000	JES
6	INCHARA P	1VK20AI010	80000	10000	JES
7	DEEPASHREE R	1VK20IS010	80000	10,000	JES
8	ABHILASHA C	1VK20CS003	80000	10000	JES
9	TEJAS V	1VK20EC015	90000	10000	JES
10	VINUTHA V	1VK20IS039	90000	10000	JES
11	SUNIL B K	1VK20EC023	90000	10000	JES
12	SAHANA N	1VK19CS040	90000	10,000	JES
13	GAGAN N	1VK19CS017	115000	10,000	JES
14	DARSHAN C GOWDA	1VK19CS013	115000	10000	JES
15	UDAY H S	1VK18CS054	90000	10000	JES
16	KEERTHI BHAT M	1VK20CV400	95340	10,000	JES
17	SAGAR N	1VK16EC401	61000	10,000	JES
18	PAVAN R V	1VK16ME027	71000	10000	JES
19	ANILKUMAR S K	1VK17CS004	101000	10,000	JES
20	HARSHITHA H N	1VK17CS018	81000	10,000	JES
21	SUMA K S	1VK17CS062	91000	10,000	JES

22	NITISH REDDY	1VK16CS045	102000	10000	JES
23	SHASHANK B SHETTY	1VK16ME037	75000	5000	JES
24	POOJA B R	1VK16CS050	100000	10000	JES
	Total			**235000**	

Academic Year : 2021-22					
Sl. No.	**Name of the Student**	**USN**	**Total demand**	**Concession Amount**	**Concession Given by**
1	HARSHITH KUMAR H	1VK21EC012	80000	10000	JES
2	VARSHINI B N	1VK21EC023	90000	10000	JES
3	VARUN V	1VK21CS087	140000	40000	JES
4	KUSHAL V	1VK21CS035	140000	10000	JES
5	MANOJ V	1VK21IS025	110000	10000	JES
6	AMRUTHA S	1VK21CS003	90000	10000	JES
7	ARCHANA B	1VK20AI004	100000	10000	JES
8	DEEPASHREE R	1VK20IS010	100000	10000	JES
9	SAHANA N	1VK19CS040	90000	10000	JES
10	DARSHAN C GOWDA	1VK19CS013	115000	10000	JES
11	SONU K CHRISTY	1VK18CS048	101500	10000	JES
Total				**1,40,000/-**	

Academic Year : 2022-23					
Sl. No.	**Name of the Student**	**USN**	**Total demand**	**Concession Amount**	**Concession Given by**

1	SHALINI T R	1VK22EC043	80000	10000	JES
2	SOWMYA S JIDAGI	1VK22EC047	80000	10000	JES
3	GAGANAKEERTHI G	1VK22CS024	170000	10000	JES
4	TEJAS GOWDA M	1VK22IS057	70000	10000	JES
5	JAYANTH B V	1VK22IS021	150000	10000	JES
6	NIHARIKA P	1VK22IS038	150000	10000	JES
7	KEERTHANA K R	1VK22IS026	150000	10000	JES
8	NITHIN GOWDA M S	1VK22AI025	120000	10000	JES
9	GOWTHAM S	1VK22AI013	120000	10000	JES
10	NAGENDRA M	1VK22ME005	55000	10000	JES
11	AKASH M P	1VK22ME004	55000	10000	JES
12	VARSHINI B N	1VK21EC023	80000	10000	JES
13	KUSHAL V	1VK21CS035	140000	10000	JES
14	PALLAVI R	1VK21IS032	110000	10000	JES
Total				**140000**	

Number of scholarship offered by the Institution, duration and amount

A.Y	Number of scholarship offered	Duration(In Years)	Amount(Rs)
2018-19	23	-	3,22,000/-
2019-20	-	-	-
2020-21	-	-	-
2021-22	21	1	3,15,000/-
2022-23	20	1	3,15,000/-

Estimated cost of boarding and Lodging in Hostels

A.Y	Estimated cost of boarding and Lodging (Rs)
2019-20	Boy's Hostel Rs. 60,000/-P.A Girl's Hostel Rs. 55,000/-P.A
2020-21	Boy's Hostel Rs. 60,000/-P.A Girl's Hostel Rs. 55,000/-P.A
2021-22	Boy's Hostel –Rs. 60,000/- P.A Girl's Hostel- Rs. 55,000/ P.A
2022-23	Boy's Hostel –Rs. 65,000/- P.A Girl's Hostel- Rs. 60,000/ P.A

Admission

Number of seats sanctioned with the year of approval& No. Of Students admitted under various Categories each year in the last Three years

Programme Level	Name of Programme / Course	No. Of Seats Sanctioned For 2023-24	No. of Students Admitted		
			2023-24	2022-23	2021-22
UG	Electronics & Communication Engineering	60	57+1(SNQ)	58+1(SNQ)	24
	Computer Science and Engineering	90	75+4 (SNQ)	90+4 (SNQ)	91
	Information Science and Engineering	60	59+3 (SNQ)	60+3 (SNQ)	58
	Mechanical Engineering	30	3+1 (SNQ)	4+2 (SNQ)	03
	Civil Engineering	60	1+2(SNQ)	-	06
	Artificial Intelligence & Machine Learning	60	58+3 (SNQ)	41+3 (SNQ)	27
	Total	360	267	266	209
Ph. D	Electronics & Communication Engineering		0	0	1
	Computer Science and Engineering	-	-	2	1
	Mechanical Engineering	-	-	1	-
	Civil Engineering	-	-	-	-
	Mathematics	-	-		01
	Chemistry	-	-	-	-

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

Application Received :85

Admitted: 71

Admission Procedure

Mention the admission test being followed, name and address of the Test Agency/State Admission Authorities and its URL(website)

Admission test Name	Address	URL
KEA/CET	Karnataka Examination Authority, Sampige Road, 18th Cross, Malleshwaram, Bengaluru -560 012Phone No. 080 - 23460460	https://cetonline.karnataka.gov.in/kea/
COMED-K	# 132, Second Floor,11th Main, 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 year 2023-24

Branch	KEA	Comed-K	Total
Electronics & Communication Engineering	38	0	38
Computer Science & Engineering	45	1	46
Information Science & Engineering	31	0	31
Artificial Intelligence & Machine Learning	31	0	31
Civil Engineering	2	0	2
Mechanical Engineering	1	0	1
Total	**148**	**1**	**149**

Calender for admission against Management Quota Seats

Probable date during the month of July –October. (Based on the Availability of Seats)

Last Date of Request for Applications

30-10-2023 (As per AICTE) for the year 2023-24

Last Date for Submission of applicants

30-10-2023 (As Per AICTE) for the year 2023-24

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

Release of admission list: **Main list and waiting list shall be announced on the same day**

Date of Acceptance by the candidate **-As per date announced by Approval 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 weightages i.e. Admission Test, marks in qualifying examination etc.

As per Govt. Norms

Mention the minimum Level of acceptance, if any

As per Govt. Norms

Results of Admission under Management Seats/Vacant Seats

List of Candidates who have been offered admission

Electronics & Communication Engineering

1	IMPANA N M
2	SATHWIK M
3	MALLIKARJUN H GURADDI
4	AKSHARA M R
5	RAKSHITHA D R
6	MAAZ AHMED
7	HEMANTH C
8	SUJAY KULKARNI

9	AKASH B A
10	ROHITH MANIRAM
11	INDHUSHREE C
12	PRUTHVI T
13	GIRISH R
14	LIKITHA C
15	SINCHANA Y R
16	KISHORE L
17	PRIYA P
18	LAVANYA M
19	REVATHY S
20	ANAND B H
21	DHARANEESH U

Computer Science & Engineering

1	SAI RANJITH N R
2	SINCHANA S R
3	DISHA M
4	YASHASWINI N
5	ANUSHA V
6	BIBIN B K
7	BODHA POORNA E N
8	DEEPTHI V
9	CHAYAMSH G S
10	SHREYA V
11	NISHITHA M R
12	ANUSHA U

13	NAVEENA K P
14	GUNA SHEKAR T
15	PRIYADARSHINI K
16	PARNIKA M N
17	HARSHITHA S U
18	VEDASHREE
19	SIRIGIRI BALACHANDRA SEKHAR REDDY
20	VIJAY TEJAS A C
21	JITHIN S GOWDA
22	POOJA
23	M BHAVANA
24	MANJUSHREE M
25	VARSHITHA M
26	MD SAWOOD ALAM
27	VIKAS DEVADIGA
28	SUHAN GOWDA R N
29	ADITHYA KRISHNA PRASAD
30	JEEVAN K R
31	HITESH GOWDA R
32	REKHA P
33	MOULYA S
34	RAGINI G N
35	LIKITHA N
36	MEGHA J

37	MOHAN KUMAR SINGH

Information Science & Engineering

1	MOHITH A
2	THARUN KUMAR B S
3	VARUN K SALGAR
4	MANASA N
5	SPOORTHI B M
6	MANYA R
7	DEEKSHITHA K
8	HEMANTH ARADHYA S
9	KISHORE S
10	SAHANA JOSHI
11	KARTHIK K M
12	ABHISHEK GOWDA A M
13	SUSHMA R
14	MANGESH KUMAR
15	RAJESHWARI T
16	SNEHA K
17	SANJANA H
18	SHASHANK K N
19	ASHRITHA S BHAT
20	JAYALAKSHMI P N
21	LEENA PRECILLA J
22	ADARSHA M S

23	NIRANJANA A
24	DARSHAN M
25	KARISHMA S
26	MANOHAR M
27	A R LIKITH KUMAR GOWDA
28	YASHASWINI R
29	ARUN KUMAR
30	KEERTHANA Y C
31	BASAVAPRABHU
32	SANGEETHA S PADMANABHA
33	ROHAN
34	MONISH R

Artificial Intelligence & Machine Learning

1	MANOJ KUMAR V
2	NISARGA P
3	NEETA RANI B
4	KAVYA B
5	ULLAS S J
6	PRAJWAL N
7	POOJITHA U
8	UDAY S
9	ULLAS R GOWDA
10	SINDHU N

11	NITYA P GODBOLE
12	MOHAMMED MATHIN K
13	KAVANA M S
14	MANOJ KUMAR V
15	NISARGA P
16	KALPESH KUMAR
17	MAYUR P
18	SHREYANK BHASKAR
19	SUKSHIDHI D SHETTY
20	HEMANTH KUMAR S N
21	MAANSI SURESH
22	VARSHA N
23	THANUSHREE C
24	KRUTHIKA N
25	KEERTHANA V
26	SHREYA P
27	HARIDRA A V
28	MONISHA H
29	JAYASURYA B
30	TANISHQ A
31	ANUSHA H
32	BHOOMIKA M
33	SHASHANK GOWDA P R
34	CHINMAY A

Mechanical Engineering

Sl No	Name of the Student
1	ASHWIN KUMAR P B
2	LIKITH P V
3	JANARDHAN T M

Civil Engineering

Sl No	Name of the Student
1	PRAJWAL PATIL

Information of Infrastructure and Other Resource Available No. Of Class Rooms, Laboratories, Tutorial Rooms, Drawing hall with carpet Area

Sl No			Room No	BLOCK	Area	Description
			1	ADMINISTRATION BLOCK	653	ADMN
			2	LIBRARY BLOCK	523	LIB
			3	SEMINAR HALL	245	SMH
			4	ELECTRONICS ENGINEERING BLOCK	1396	EC
			5	TELE COMMUNICATION ENGINEERING BLOCK	586	TE
			6	COMPUTER SCIENCE ENGINEERING BLOCK	3356	CS
			7	CIVIL ENGINEERING BLOCK	1686	CV
			8	MECHANICAL ENGINEERING BLOCK	2077	ME
			9	SPORTS COMPLEX	464.68	SC

			10	ESTATE OFFICE	87	EO
			11	GUEST HOUSE	174	GH
			12	BOYS HOSTEL	13.31	BYH
			13	CANTEEN	307.47	CAN
			14	SECURITY	3	SE
Sl No	Block	Floor	**Room no**	DESCRIPTION	Type	CARPET AREA SQM
		FIRST	ADM - 101	HALL -1	INSTRUCTIONAL	281
			ADM - 102	HALL -2	INSTRUCTIONAL	294
			ADM - 103	PLACEMENT OFFICE	INSTRUCTIONAL	87
			ADM - 104	INTERVIEW CHAMBERS	INSTRUCTIONAL	50
		SECOND	ADM - 201	PHYSICS LAB	INSTRUCTIONAL	160
			ADM - 202	CHEMISTRY LAB	INSTRUCTIONAL	140
			ADM - 203	ROOM R.D CENTER	INSTRUCTIONAL	20
			ADM - 204	LECTURER HALL	INSTRUCTIONAL	66
			ADM - 205	LECTURER HALL	INSTRUCTIONAL	66
			ADM - 206	LECTURER HALL	INSTRUCTIONAL	66
			ADM - 207	LECTURER HALL	INSTRUCTIONAL	86
			LIB - 002	ACQUISITION /ISSUE COUNTER	INSTRUCTIONAL	22

			LIB - 003	BOOK STORE	INSTRUCTIONAL	264
			LIB - 004	DIGITAL LIBRARY	INSTRUCTIONAL	86
			LIB - 006	READING ROOM	INSTRUCTIONAL	62
			LIB - 102	HALL -3	INSTRUCTIONAL	351
			LIB - 102A	ROOM	INSTRUCTIONAL	45
			LIB - 101	TECHNICAL JOURNALS	INSTRUCTIONAL	86
			LIB - 203	LECTURER HALL	INSTRUCTIONAL	88
			LIB - 204	LECTURER HALL	INSTRUCTIONAL	70
			LIB - 205	LECTURER HALL	INSTRUCTIONAL	70
			LIB - 202	LANGUAGE LAB	INSTRUCTIONAL	70
		First	SMH - 101	CADD LAB	INSTRUCTIONAL	123
			SMH - 102	CCP/COMPUTER CENTER	INSTRUCTIONAL	123
			SMH - 201	LECTURER HALL	INSTRUCTIONAL	66
			SMH - 202	LECTURER HALL	INSTRUCTIONAL	66
			SMH - 204	LECTURER HALL	INSTRUCTIONAL	66
			SMH - 205	LECTURER HALL	INSTRUCTIONAL	66
	ECE	Ground	EC - 001	LECTURER HALL	INSTRUCTIONAL	66

			EC - 002	LECTURER HALL	INSTRUCTIONAL	66
			EC - 005	LECTURER HALL	INSTRUCTIONAL	66
			EC - 006	LECTURER HALL	INSTRUCTIONAL	66
			EC - 103	ANALOG ELECTRONIC CIRCUIT/LOGIC DESIGN LAB	INSTRUCTIONAL	200
		Second	EC - 202	LECTURER HALL	INSTRUCTIONAL	66
			EC - 203	HDL/EMBEDDED LAB	INSTRUCTIONAL	100
			EC - 203A	VLSI/CCN LAB	INSTRUCTIONAL	100
		Third	EC - 302	LECTURER HALL	INSTRUCTIONAL	66
			EC - 303	LECTURER HALL	INSTRUCTIONAL	66
			EC - 304	LECTURER HALL	INSTRUCTIONAL	90
			EC - 305	LECTURER HALL	INSTRUCTIONAL	66
	TE	Basement	TE - B-003	LAB	INSTRUCTIONAL	130
			TE - B002	LAB	INSTRUCTIONAL	66
		Ground	TE - 001	LECTURER HALL	INSTRUCTIONAL	66
			TE - 002	LECTURER HALL	INSTRUCTIONAL	66
			TE - 005	LECTURER HALL	INSTRUCTIONAL	66
			TE - 006	LECTURER HALL	INSTRUCTIONAL	66

		First	TE - 104	DSP/MP LAB	INSTRUCTIONAL	66
			TE - 102	LECTURER HALL	INSTRUCTIONAL	66
			TE - 103	LECTURER HALL	INSTRUCTIONAL	66
			TE - 104	LECTURER HALL	INSTRUCTIONAL	90
		Second	TE - 202	LECTURER HALL	INSTRUCTIONAL	66
			TE - 203	LAB	INSTRUCTIONAL	225
		Third	TE - 302	LECTURER HALL	INSTRUCTIONAL	66
			TE - 303	LECTURER HALL	INSTRUCTIONAL	66
			TE - 304	LECTURER HALL	INSTRUCTIONAL	90
			TE - 305	LECTURER HALL	INSTRUCTIONAL	66
			CS - 004	MACHINE LEARNING / SYSTEM SOFTWARE AND OPERATING SYSTEM LAB	INSTRUCTIONAL	85
			CS - 004A	COMPUTER NETWORK/ DESIGN AND ANALYSIS OF ALGORITHM LAB	INSTRUCTIONAL	85
			CS - 006	WEB TECHNOLOGY/COMPUTER GRAPHICS LAB	INSTRUCTIONAL	85
			CS - 006A	DBMS/SOFTWARE TESTING LAB	INSTRUCTIONAL	85
			CS - 007	DATA STRUCTURE/MP LAB	INSTRUCTIONAL	85
			CS - 007A	FS/PROJECT LAB	INSTRUCTIONAL	85

			CS - 008	LECTURER HALL	INSTRUCTIONAL	66
		First	CS - 101	LECTURER HALL	INSTRUCTIONAL	66
			CS - 102	LECTURER HALL	INSTRUCTIONAL	66
			CS - 103	TUTORIAL ROOM	INSTRUCTIONAL	33
			CS - 104	LECTURER HALL	INSTRUCTIONAL	66
			CS - 106	RESEARCH CENTER	INSTRUCTIONAL	170
			CS - 107	VGST LAB	INSTRUCTIONAL	170
			CS - 108	ANALOG AND DIGITAL ELECTRONICS LAB	INSTRUCTIONAL	170
			CS - 111	LECTURER HALL	INSTRUCTIONAL	66
			CS - 112	LECTURER HALL	INSTRUCTIONAL	66
		Second	CS - 201	LECTURER HALL	INSTRUCTIONAL	66
			CS - 203	LECTURER HALL	INSTRUCTIONAL	66
			CS - 204	LECTURER HALL	INSTRUCTIONAL	66
			CS - 202	LADIES TOILETS	INSTRUCTIONAL	40
			CS - 207	LECTURER HALL	INSTRUCTIONAL	85
			CS - 208	EDUSAT	INSTRUCTIONAL	170
			CS - 209	DEPARTMENT LIBRARY	INSTRUCTIONAL	85

			CS - 211	LECTURER HALL	INSTRUCTIONAL	66
			CS - 213	LECTURER HALL	INSTRUCTIONAL	66
			CS - 214	LECTURER HALL	INSTRUCTIONAL	66
	CV	Basement	CV - B001	CAD LAB	INSTRUCTIONAL	126
			CV - B002	FLUID MECHANICS LAB	INSTRUCTIONAL	176
			CV - B003	CONCRETE LAB	INSTRUCTIONAL	107
			CV - B004	HIGHWAY LAB	INSTRUCTIONAL	107
		Ground	CV - 001	GEOLOGY LAB	INSTRUCTIONAL	83
			CV - 001A	SURVEY STORE	INSTRUCTIONAL	83
			CV - 002	ENVIRONMENTAL ENGG. LAB	INSTRUCTIONAL	126
			CV - 003	GEO TECH LAB	INSTRUCTIONAL	126
			CV - 102	DRAWING HALL	INSTRUCTIONAL	136
			CV - 103	LECTURER HALL	INSTRUCTIONAL	126
			CV - 105	LECTURER HALL	INSTRUCTIONAL	78
			CV - 106	LECTURER HALL	INSTRUCTIONAL	78
	ME	Basement	ME - B001	MATERIAL TESTING LAB	INSTRUCTIONAL	230
		Ground	ME - 003	MACHINE SHOP	INSTRUCTIONAL	210

			ME - 001	ENERGY CIVERSION LAB	INSTRUCTIONAL	110
			ME - 004	LECTURER HALL/RESEARCH CENTER	INSTRUCTIONAL	72
		First	ME - 101	LAB	INSTRUCTIONAL	160
			ME - 103	LECTURER HALL	INSTRUCTIONAL	72
			ME - 105	LECTURER HALL	INSTRUCTIONAL	72
		Second	ME - 201	CAD LAB	INSTRUCTIONAL	130
			ME - 202	LAB	INSTRUCTIONAL	72
			ME - 202A	LAB	INSTRUCTIONAL	72
			ME - 202B	LAB	INSTRUCTIONAL	72
	Work shop		ME - 005	WORK SHOP BLOCK	INSTRUCTIONAL	200
			ME - 006	FOUNDORY & FORGING LAB BLOCK	INSTRUCTIONAL	200

Central Examination facility- Number of rooms and capacity of each **-8 Rooms with 30 Capacity**

Online examination facility - Available -No. Of Nodes -200, Internet band Width etc.-**100 Mbps**

Barrier free Built Environment for disabled and elderly persons-**Available**

Fire and Safety Certificate - Not Available

Hostel facilities - **Hostel Available for both Girls & Boys within campus**

List of Major Equipment /Facilities in each Laboratory/Workshop

List of Experimental Setup in each Laboratory

Computing Facilities : Available

Internet Band Width : 300 MBPS

Innovation Cell: Available

Social Media Cell: Available

Compliance of the National Academic Depository (NAD), applicable to PGCM/PGDM Institution and University Dept.

Games & Sports facilities -Available

Information of Infrastructure and Library:

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

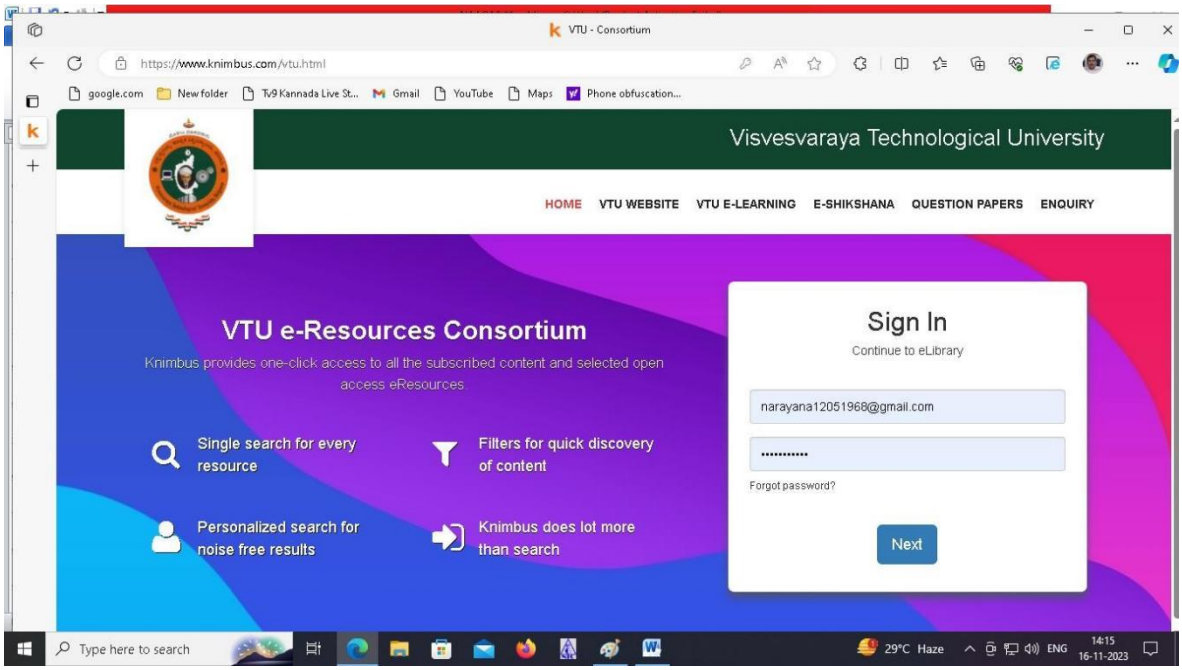
SL. No.	Branch	No. Books	No. Of Titles	No. Of Journals
1	E&CE	9799	2178	Subscribed VTU Consortium 11261+
2	CS&E	5402	1513	
3	IS&E	4095	932	
4	ME	1855	381	
5	CE	1552	425	
6	AI&ML	470	225	
7	BHS	3218	730	
Total		26967	6435	

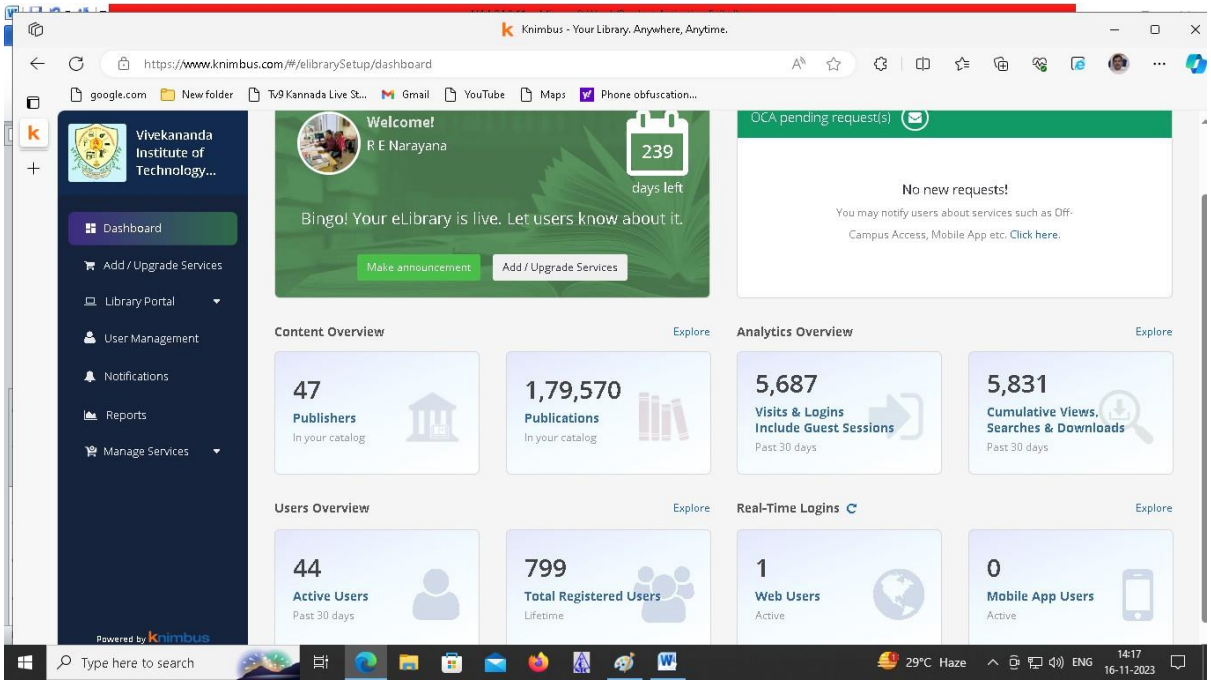
- List of online National/International Journals subscribed-

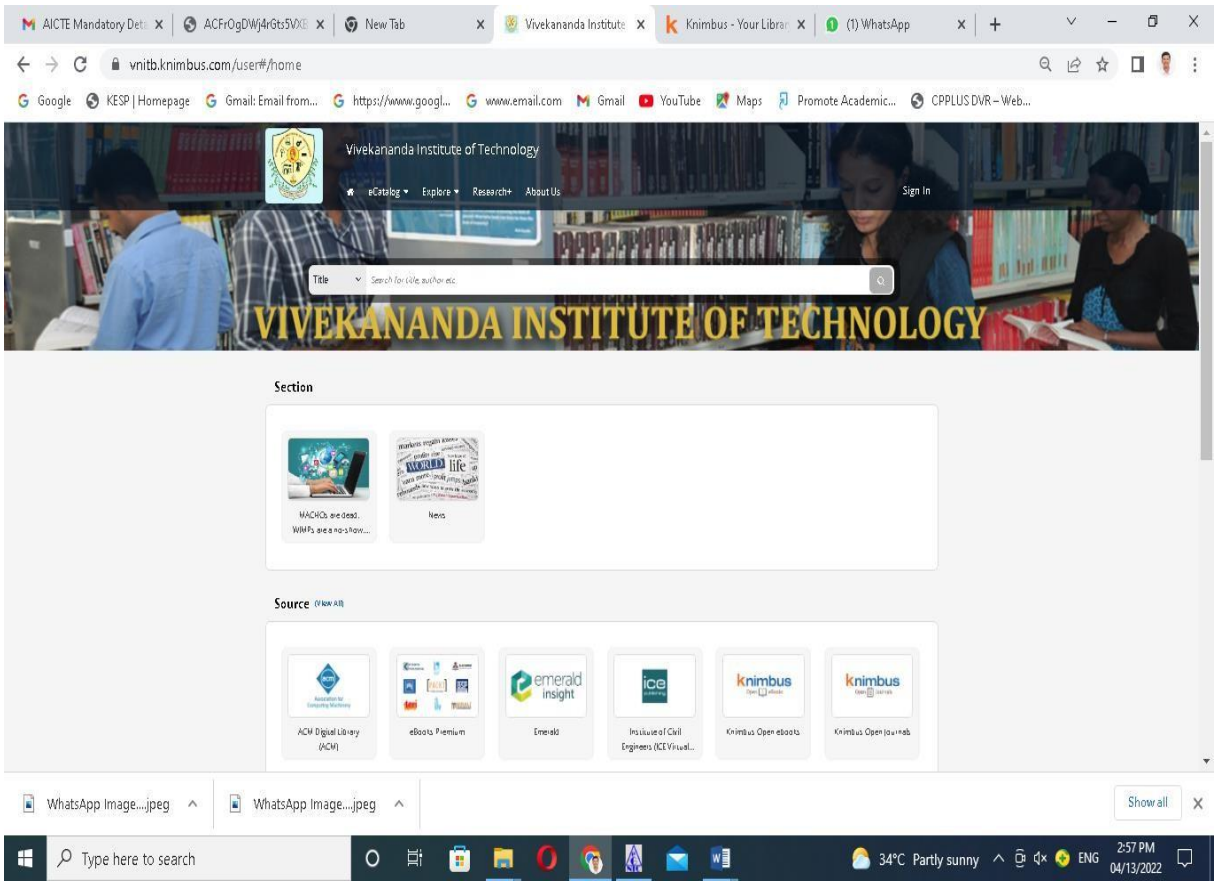
  Through Subscribed VTU Consortium

- E- Library facilities

  Yes, E- Library facilities available in VKIT library Through –K-Nimbus Digital library platform (Subscribed VTU Consortium)


VTU - Consortium
https://www.knimbus.com/vtu.html
google.com
New folder
Tv9 Kannada Live St...
Gmail
YouTube
Maps
Phone obfuscation...
Visvesvaraya Technological University
HOME
VTU WEBSITE
VTU E-LEARNING
E-SHIKSHANA
QUESTION PAPERS
ENQUIRY
VTU e-Resources Consortium
Knimbus provides one-click access to all the subscribed content and selected open access eResources
Single search for every resource
Filters for quick discovery of content
Personalized search for noise free results
Knimbus does lot more than search
Sign In
Continue to eLibrary
narayana12051968@gmail.com
Forgot password?
Next
Type here to search
29°C Haze
ENG
14:15
16-11-2023


Knimbus - Your Library. Anywhere, Anytime.
https://www.knimbus.com/#/elibrarySetup/dashboard
Vivekananda Institute of Technology...
Dashboard
Add / Upgrade Services
Library Portal
User Management
Notifications
Reports
Manage Services
Powered by knimbus
Welcome!
R E Narayana
239
days left
Bingo! Your eLibrary is live. Let users know about it.
Make announcement
Add / Upgrade Services
OCA pending request(s)
No new requests!
You may notify users about services such as Off-Campus Access, Mobile App etc. Click here.
Content Overview
Explore
47
Publishers
In your catalog
1,79,570
Publications
In your catalog
Analytics Overview
Explore
5,687
Visits & Logins
Include Guest Sessions
Past 30 days
5,831
Cumulative Views, Searches & Downloads
Past 30 days
Users Overview
Explore
44
Active Users
Past 30 days
799
Total Registered Users
Lifetime
Real-Time Logins
Explore
1
Web Users
Active
0
Mobile App Users
Active
Type here to search
29°C Haze
ENG
14:17
16-11-2023


vnitb.knimbus.com/user#/home
Vivekananda Institute of Technology
eCatalog
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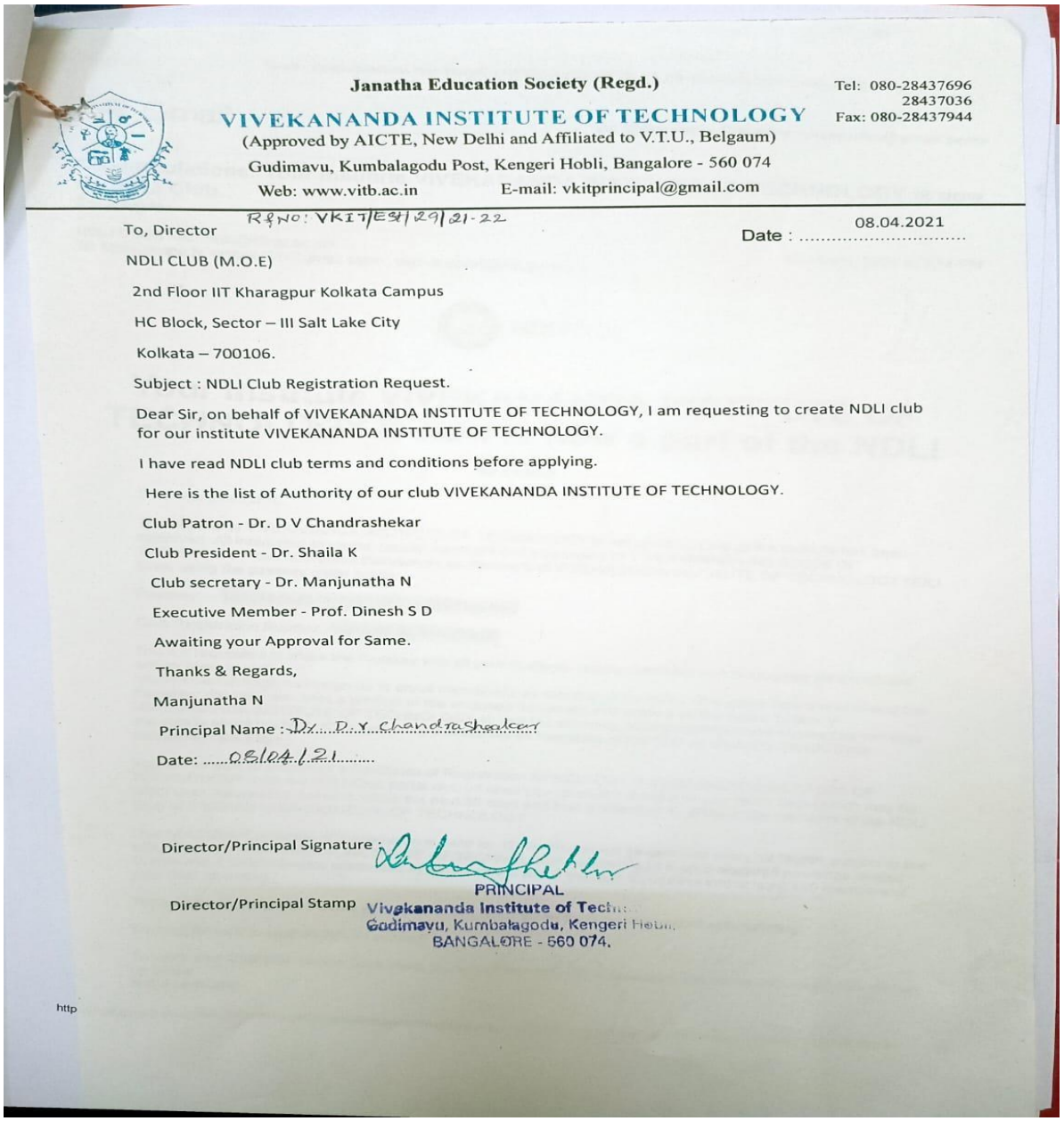
Research+
About Us
Sign In
Title
VIVEKANANDA INSTITUTE OF TECHNOLOGY
Section
Source
ACM Digital Library (ACM)
eBooks Premium
Emerald
Institution of Civil Engineers (ICE Virtual...
Knimbus Open eBooks
Knimbus Open Journals
WhatsApp Image....jpeg
WhatsApp Image....jpeg
Show all
Type here to search
34°C Partly sunny
ENG
2:57 PM
04/13/2022

- National Digital Library(NDL)subscription details



Janatha Education Society (Regd.)

VIVEKANANDA INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi and Affiliated to V.T.U., Belgaum)

Gudimavu, Kumbalagodu Post, Kengeri Hobli, Bangalore - 560 074

Web: www.vitb.ac.in E-mail: vkitprincipal@gmail.com

Tel: 080-28437696
28437036
Fax: 080-28437944

R&NO: VKIT/ES&/29/21-22

To, Director

Date : 08.04.2021

NDLI CLUB (M.O.E)

2nd Floor IIT Kharagpur Kolkata Campus

HC Block, Sector – III Salt Lake City

Kolkata – 700106.

Subject : NDLI Club Registration Request.

Dear Sir, on behalf of VIVEKANANDA INSTITUTE OF TECHNOLOGY, I am requesting to create NDLI club for our institute VIVEKANANDA INSTITUTE OF TECHNOLOGY.

I have read NDLI club terms and conditions before applying.

Here is the list of Authority of our club VIVEKANANDA INSTITUTE OF TECHNOLOGY.

Club Patron - Dr. D V Chandrashekar

Club President - Dr. Shaila K

Club secretary - Dr. Manjunatha N

Executive Member - Prof. Dinesh S D

Awaiting your Approval for Same.

Thanks & Regards,

Manjunatha N

Principal Name : Dr. D.V Chandrashekar

Date: 08/04/21

Director/Principal Signature :

Director/Principal Stamp

PRINCIPAL
Vivekananda Institute of Tech...
Gudimavu, Kumbalagodu, Kengeri Hobli,
BANGALORE - 560 074.

http

Gmail

Dr. Manjunatha Gowda N <manjulibn@gmail.com>

Congratulations! Your Institute VIVEKANANDA INSTITUTE OF TECHNOLOGY is now an NDLI Club.

2 messages

NDLI CLUB <ndl.club@iitkgp.ac.in>
To: Manjunatha N <manjulibn@gmail.com>, club-support@ndl.gov.in

Fri, Apr 9, 2021 at 5:14 PM

NDLI Club

Your Institute VIVEKANANDA INSTITUTE OF TECHNOLOGY is now is now a part of the NDLI Club

Dear Manjunatha N,

The request of VIVEKANANDA INSTITUTE OF TECHNOLOGY to set up NDLI Club at the institute has been approved. All interested students, faculty members and employees of VIVEKANANDA INSTITUTE OF TECHNOLOGY can now enroll themselves as members of VIVEKANANDA INSTITUTE OF TECHNOLOGY NDLI Club, using the passkey given below:

Passkey: -- **1d3345de-f940-4292-88f6-6c3f82bc8bab**

Club Registration Number : **INKANC5OWKJ2YXO**

You are requested to share the Passkey with all your students, faculty members and employees via e-mail and advise them to visit https://club.ndl.iitkgp.ac.in/sign-up to enroll themselves as member of the NDLI Club using their e-mail id and the Passkey. You may also take a printout of the enclosed document and paste it on the notice boards of VIVEKANANDA INSTITUTE OF TECHNOLOGY so that the students, faculty members and employees can view the details about the NDLI Club and enroll themselves as members of the Club by scanning the QR Code indicated in the page.

You will be able to download a Certificate of Registration for NDLI Club of VIVEKANANDA INSTITUTE OF TECHNOLOGY from the NDLI Club portal club url once you conduct 1st event of your NDLI Club (which may be NDLI User Awareness Session) within the next 30 days and that is attended by at least 100 members of the NDLI Club of VIVEKANANDA INSTITUTE OF TECHNOLOGY.

This NDLI Club Certificate of Registration is valid for 12 Month and will be renewed every 12 Month, subject to the NDLI Club of VIVEKANANDA INSTITUTE OF TECHNOLOGY conducting at least 6 reading/knowledge related Events and 4 Global Events conducted by others online within the next 12 months and at least 100 members of your Club attending .

The best performing NDLI Clubs at District/ State/ National level will be recognized appropriately.

We look forward to your continued support.

To verify your Club role, please Click Here. In case of any difficulty in accessing the above link please click on the url below
Not Applicable

10/4/2021

15.2 Laboratory and Workshop

- List of Major Equipment/Facilities in each Laboratory/Workshop

Sl. No.	Department	Laboratory Name	Equipment /Facilities Details	Remarks
1	CSE	**Machine Learning / System Software & operating System Laboratory**	HP DX 2480 Model Intel Core - 2 Duo 2.67 GHz, 160 GB HDD, 1 G B RAM with Keyboard & Mouse (25 No's) HP Laser jet 1020 Printer (01 No's) External LG DVD Sata (01 No's) LG DVD R/W (01 No's) Emerson UPS 6KVA(01 No's) 42 Ah/12 V Batteries (16 No's)	**LAB: 008**
2		**Computer Networks /Design and Analysis of Algorithms Laboratory**	HP DX 2480 Model Intel Core - 2 Duo 2.67 GHz, 160 GB HDD, 1 G B RAM with Keyboard & Mouse (25 No's) External LG DVD Sata (01 No's) CCTV Camera(01 No's) Emerson UPS 6KVA(01 No's) 42 Ah/12 V Batteries (16 No's)	**LAB: 008**
3		**WEB TECHNOLOGY LABORATORY WITH MINI PROJECT / COMPUTER GRAPHICS LABORATORY WITH MINI PROJECT/ PROJECT WORK LAB**	DELL Desktop OptiPlex 3050, Intel processor 3GHz up to 3.5 GHz , 500GB 7200 rpm Sata Hard Disk 8 GB (2X4 GB) Intel Hd Graphics 630, network interface wlan 802.1 N wireless network card ,18.5" LED monitor USB key Board and optical mouse with Keyboard **30** Numbers. (25 Numbers CPU +Led Monitor Key Board +Mouse). Emerson UPS 6KVA(01 No's) 42 Ah/12 V Batteries (16 No's)	**LAB: 009**

			Total:30	
4		**DBMS LABORATORY WITH MINI PROJECTS/ SOFTWARE TESTING LABORATORY**	DELL Desktop VOSTRO3670(C15/8THG/8GB/1TB/DVD/DOS) LED monitor USB key Board and optical mouse with Keyboard **30** Numbers. (30 Numbers CPU +Led Monitor Key Board +Mouse). Emerson UPS 6KVA(01 No's) 42 Ah/12 V Batteries (16 No's) **Total:30**	**LAB: 009**
5		**COMPUTER PROGRAMMING LABORATORY**	DELL Desktop VOSTRO3670(C15/8THG/8GB/1TB/DVD/DOS) LED monitor USB key Board and optical mouse with Keyboard **30** Numbers. (30 Numbers CPU +Led Monitor Key Board +Mouse). Emerson UPS 6KVA(01 No's) 42 Ah/12 V Batteries (16 No's) **Total:30**	**LAB: 009**
6		**Analog & Digital Electronics Laboratory**	HP Dx2000 Intel Pentium 4, 3.0 GHz, 80 GB HDD, 512 RAM with Keyboard & Mouse (10 No's) Analog CRO – 30 MHZ (4 No's) Analog & Digital IC Tester(01 No's) Dual Power Supply – 30V/2 Amps(04 No's), Millimeter (02 No's) Digital Trainer Kit UDT- 4002 (4mm) (05 No's) Fixed Power Supply(15-0-15) V,1Amp (04 No's) Servo control voltage stabilizer (3KVA) (01 No's) Function generator 1 MHZ (04 No's) Emerson UPS 6KVA(01 No's) 42 Ah/12 V Batteries (16 No's)	**LAB: 108**
7		**Research Center**	HP Dx2000 Intel Pentium 4, 3.0 GHz, 80 GB HDD, 512 RAM with Keyboard & Mouse (10 No's) Emerson UPS 6KVA(01 No's) 42 Ah/12 V Batteries (16 No's)	**LAB: 106**

Sl. No.	Department	Laboratory Name	Equipment/Facilities Details	Remarks
	CIVIL ENGINEERING	BUILDING MATERIALS TESTING LAB	Universal Testing Machine – 100 Tonne Capacity, Impact Testing Machine, Torsion Testing Machine, Brinnell's Hardness Testing Machine, Vicker's Hardness Testing Machine, Rockwell's Hardness Testing Machine, Tiles Testing Machine, Sieve Shaker, Digital Oven, Fine Sieves Made of Brass 200 mm dia (1 Set), Coarse Sieves of 300mm dia made of GI (3 Set), Pycnometer (8 No's), Graduated Cylinders (50ml, 100ml, 500ml, 1000ml), Metal Cylinder (3 No's), Tamping Rod (3 No's), Vernier Calipers (5 No's), Strain gauge (1 No.), Deflectometer (6 No's), Metal Wire basket (5 No's), Polythene Wash Bottle (2 No's), Weighing Balance (6 kg – 2 No's, 10 kg – 2 no's, 15 kg – 2 No'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 cross staff (8 No's), Optical Square (8 No's), Prism square (2 No's), Ceylon Ghat tracer (5 No's), Hand Level (1 No.), Surveyor Compass with stand (1 No.), Clinometer Compass with stand (1 No.), Invar tape - 15mt. (1 No.), Synthetic tape (1 No.), Tape-30 mt. (12 No's), Metric Chain-30mt. (12 No's), Engineer's Chain (1 No.), 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), Metallic tape-15 mt. (1 No.), Peg (20 No's), Box sextant (1 No.), Pantagraph (1 No.), Plane table (8 No's), Ranging rod (40 No's), Arrows (120 No's)	
		APPLIED ENGINEERING GEOLOGY LAB	Rock & Mineral samples (80 No's), Gelogical hammers (5 No'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 (1 No.)	
		HYDRAULICS & HYDRAULIC MACHINERY LAB	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.), Reciprocating pump (1 No.), Multi stage centrifugal pump (1 No.), Notches, Major and minor losses Apparatus (1 No.), Bernoulli’s theorem verification apparatus (1 No.), Vertical orifice meter (1 No.)	
		COMPUTER AIDED DESIGN LAB	DELL Desktop Computer (25 No's), Dell T20 Edge Server (1 No.), Laserjet Printer (1 No.), Multifunction Printer-Scanner (1 No.), AutoCAD Software (25 No's), STAAD Pro V8i Software (25 No's), Emerson Liebert make GXT MT Series 10 KVA UPS (1 No.) with Leoch make Batteries-12V, 65AH (20 No's), Epson Projector X18 (1 No.), Prolite wallmount Projection Screen-6'x4'	

			(1 No.)	
		GEOTECHNICAL ENGINEERING LAB	Triaxial Shear Apparatus (1 No.), Liquid Limit Device(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 Brass 200 mm dia (1 Set), Coarse Sieves of 300mm dia made of GI (1 Set), Pycnometer (5 No's), Consolidation Apparatus (Single Gang) (1 No.), Universal Permeability Apparatus (1 No.), Vane Shear Apparatus (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.), Thin Walled Sampling Tubes (2 No's), Digital Sieve Shaker (1 No.), Permeability Apparatus (Variable Head) (1 No.), Soil Cone Penetrometer (3 No's), Plastic Limit Device (3 No's)	
		CONCRETE AND HIGHWAY MATERIALS LAB	Vicat needle apparatus(3 No’s), Le-chartlier’s mould(1 No’s), Cement autoclave(1 No.), 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.), Laboratory concrete mixer(1No’s), Accelerated curing tank (1 No.), Cube moulds (36No’s), Beam mould(12 No’s), Cylinder moulds	

			(6 No's), Measuring cylinders (12 No's), Density bottle (6No's), Le-chatlier flask(10 No's), Spatula(9 No's), Trowels (9 No's), Shovels(9 No's), Bowls(9 No's), Tool kit(2 No's), GI tray(12 No's), Cylindrical metal measure (3 No's), CBR Apparatus(1 No's), Aggregate Crushing Test(3 No's), Los Angeles Abrasion Machine (1No.), Aggregate Impact Value Apparatus (1 No.), Length Gauge(2 No's), Thickness Gauge (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.), Ring And Ball Apparatus (1 No.), Flash And Fire Point Test Apparatus (2 No's), Tar Viscometer (1 No.), Oven Universal (1 No.), Electrical coil stoves(1 No.), Hot Plate (1No.).	
		ENVIRONMENTAL ENGINEERING LAB	Aerator(1 No.), Jar Test apparatus(1No.), pH meter Digital(1No.), pH meter (1No.), Electronic weighing balance(1 No.), Imhoff settling cone(2 No's), Digital conductivity meter(1 No.), Digital direct reading conductivity 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), Distilled water plant (1No.), Glass fiber filter disc(1No.), Conical Flask(120No's), Burette(60 No's),	

			Pipette(40 No's), Beaker (90 No's), Test tube rim(150 No's), Funnel (30 No's), Burette Stand(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 (1 No.), Measuring Jar (45 No's), Evaporating Dishes(20 No's), Basin Evaporating(1No's), BOD Incubator (1No.), Hot Air Oven (1No.), DO meter(1No.), Dig Flame Photometer(1No.), Petri dish(10 No.).	

Sl. No.	Department	Laboratory Name	Equipment/Facilities Details	Remarks
01	Mechanical Mechanical	Design lab	Bifilar Suspension	
			Compound Pendulum	
			Spring Mass System	
			Torsional Vibration set with Single Rotor System	
			Torsional Vibration set with Double Rotor System	
			Forced Vibration System	
			Single Degree Vibration system	
			Journal Bearing Test Rig	
			Whirling Of Rotating Shaft Test Rig	

			Gyroscope	
			Combined Polarized scope	
			Balancing of Rotars	
			Porter,Prorell, Watt Hartner Governor	
			Strain Gauge Curved beam	
			Simple Gear train With Housing Bearing	
			Epicyclic Gear Box with Housing	
			Model testing With Accessories	
		Energy Conversion lab	Able Flash & Fire point Apparatus	
			Pensky Martin Flash & Fire Apparatus	
			Red wood Visco meter	
			Say Bolt visco meter	
			Digitial Bomb calorimeter	
			Boys Gas calorimeter	
			Planimeter	
			Valve timing Diagram	
			Port timing Diagram	
			4 stroke single cylinder Kirloskar Make New Diesel Engine Test Rig	
			2stroke single cylinder petrol Engine Test Rig	
			4stroke single cylinder HONDA petrol Engine Test Rig	
			Multi cylinder petrol Engine of Ambassador car Test Rig	
			Torsion Viscometer	

			Two stroke TVS second Hand Bike	
			Ring spanner set TAPARIA	
			Double ended spanner set and cutting plier	
		F & F Lab	Shear test attachment	
			Sieve analysis teat setup	
			Rapid drier	
			Single piece pattern stepped pulley(AL)	
			Split pattern grooved pattern (AL)	
			flatters	
			Universal sand testing M/C	
			Permeability tester	
			Core hardness tester	
			Mould hardness tester	
			Clay content tester	
			Moisture content tester	
			Sand rammer with core boxes	
			Digital weighing balance	
			Moulding boxes 12*12*4	
			Double split pattern(AL)	
			Match plate pattern	
			Tool kit	
			shovels	

			Swage block 50kg	
			Sledge hammer 6LB	
			Sledge hammer 8LB	
			Anvil 100 kg	
			poker	
			Green sand(bentonite+coal dust mixed)	
			Bentonite powder	
			Round tong	
			Flat tong	
			Bend tong	
			Green sand	
			Swage top 1/4'' MS handle	
			Swage bottom 1/4'' MS handle	
			Hot chisel	
			Cold chisel	
			Teak wood leveler	
			Hammer double head 3LB	
			ABC core oil	
			Puller top and bottom	
			Bearing self core pattern	
			Pelton wheel cup	
			GI bucket 20 ltr	

			Bandly	
			Dust trowel metal	
			Plastic bucket 5ltr	
		HMT Lab	Determination of Thermal Conductivity of a Metal Rod.	
			Determination of overall heat transfer coefficient of a composite wall.	
			Determination of effectiveness on a metallic fin.	
			Determination of Heat Transfer Coefficient in a Free Convention on a vertical tube heat	
			Determination of Heat Transfer Coefficient in a Forced Convection.	
			Determination of Emissivity of a Surface.	
			Determination of steffen Boltzmann constant.	
			Determination of LMDT and effectiveness in a parallel Flow and counter flow Heat Exchanger.	
			Experiments on Boiling of Liquid and condensation of vapour.	
			Performance Test on Vapour compression Refrigeration.	
			Experiment on Transient conduction Heat Transfer.	
			Performance Test on Air conditioner.	
		Machine shop Lab	Hi cut 3503 all geared head stock lathe, ABC-1000mm	
			Hi cut 3503 all geared head stock lathe, ABC-600mm	
			Revolving centre MT-3	
			Drill chuck ½”	

			Power hacksaw blade	
			Centre gauge 60°	
			½” die with hand	
			divider	
			divider	
			Ring spanner set	
			Double ended spanner set	
			HSS drill bits Size:4,6,8,10,12,14,16,18,20,22,25mm dia	
			HSS drill bits Size:4,6,8,10,12mm dia	
			HSS drill bits Size:14,16,18,20,22,25mm dia	
			Drill sleeve	
			Drill sleeve MT2-3	
			Centre bit	
			Boring bar 5/16”	
			Allen key set 1.5mm -10mm	
			Allen key set 1/16” to 3/18”	
			Pipe wrench-18”	
			Screw spanner 10”	
			Ball peen hammer 800gms	
			Nylon hammer	
			Letter Punch 6mm	
			Number punch 6mm	

			Centre punch	
			Adjustable surface gauge 12”	
			2046S dial gauge	
			Dial stand	
			Surface plate	
			Vee-Block	
			Try-square-6”	
			Micrometer-0-25mm	
			Vernier Calliper 0-150mm	
			Screw pitch gauge	
			Stand for surface plate-18” plate	
			Turning tool-RH	
			Side and face milling cutter dia-100*10*25.4	
			Vernier height gauge 300mm	
			Safety goggles	
			Radial drilling machine	
			8” power hacksaw machine	
			12” shaping machine	
			Universal milling machine 26”*8”	
			Bench grinder	
			Straight nose tool	
			Turning tool right hand	

			HSS tool bits:5/16”*5/16”*4”	
			HSS tool bits:5/16”*5/16”*6”	
			Grinding wheel 200mm Dia Smooth rough	
			HI-cut 3503 all geared lathe ABC-1000mm	
			HI-cut 3503 all geared lathe ABC-600mm	
			HI-cut 3503 all geared lathe ABC-600mm	
			HI-cut 3503 all geared lathe ABC-600mm	
		MMM Lab	Pressure Gauge	
			Thermocouple	
			LVDT	
			Load Cell	
			Strain Gauge	
			Stroboscope	
			Profile Projector	
			Sine Centre	
			Sine Bar	
			Taper Gauge Plain	
			Angle Block Universal	
			Angle Gauges	
			Lathe Tool Dynamo meter	
			Drill Tool Dynamo meter	
			Slip Gauge Box	

			Mechanical Comparator, Indian make	
			Optical Flats	
			Gear Tooth Vernier	
			Gear Tooth Micrometer	
			Screw Thread (Floating Carriage Meter)	
			Mechanical Comparator	
			Magnetic Stand With Dial Gauge	
			V-Block 2''	
			Vernier Caliper	
			Micrometer	
			Granite Surface Plate	
			Dial Indicator	
			Bore Gauges	
			Precision Sprit Level	
			Taper Plug Gauge	
			Taper Ring Gauge	
			Plain Plug Gauge	
			Plain Ring Gauge	
			Feeler Gauge	
			Pitch Gauge	
			Radius Gauge	
			Vernier Height Gauge	

			Roller Set	
			Snap Gauge	
			i)0-6mm	
			ii)6-13mm	
			iii)13-19mm	
			Surface Plate-CI	
			Bevel Protractor	
		MT Lab	Single Disc polishing Machine	
			Rectangular Muffle Furnace	
			Wear Testing Machine	
			Ultrasonic Flaw Detector	
			Magnetic crack Detector	
			Dye penetrate Apparatus	
			Digital weighing Balance Lc:0.001 gm	
			Impact Testing Machine	
			Rockwell Hardness Testing Machine with std specimens	
			Binocular Microscope with Two standard specimens(HCS & HSS specimen)	
			Brinell Hardness Testing Machine with std specimens	
			Universal Testing Machine UTN-100kn with standard attachments of Tension test, shear test, Bending test & compression test	
			Torsion testing Machine cap100Nm	

			Vickers Hardness testing Machine with std specimens	
			Pychnometer	
			Sieve shaker	
			Digital oven	
			Tile testing machine	
			Strain gauge indicator	
			Sieve for Coarse agrigate	
			Sieve for fine agrigate	
			Bulk density for coarse agrigate	
			Bulk density of soil	
			Weighing Balance 3 kg	
			Weighing Balance 5 kg	
			Weighing Balance 15 kg	
			Vernier caliper	
			Measuring Cylinder	
			Deplectometer 0-25 LC-0.01	
			Deplectometer 0-25 LC-0.01	
			Deplectometer 0-50 LC-0.01	
		Workshop Lab	Welding Transformer	
			Welding Hand Shield	
			Tongs	
			Hand Gloves	

			C-clamp	
			Electrode Holder	
			Welding Cable	
			Welding Glass	
			Chipping Hammer	
			Plain Goggles	
			Apron	
			Wire Brush	
			Earthing Clamp	
			Lugs	
			Measuring Steel tape	
			Bench Vice	
			Welding Table	
			Welding plain glass	
			Cutting plier	
			Power hacksaw machine	
			Ball pein hammer	
			Bench Vice	
			Pipe Vice	
			Surface Plate	
			Vernier Height Gauge	
			Hacksaw Frame	

			Surface Gauge	
			Flat File(Rough)	
			Flat File(Smooth)	
			Square File(Rough)	
			Square File(Smooth)	
			Round File(Rough)	
			Round File(Smooth)	
			Half Round File(Rough)	
			Half Round File(Smooth)	
			Triangular file rough	
			Triangular file smooth	
			Knife edge file rough	
			Ball pein hammer	
			Flat cold chisel	
			Cross cut chisel	
			Cold chisel	
			Cross cut diamond chisel	
			Try square	
			Outside caliper	
			Inside caliper	
			Dividers	
			Vernier Caliper	

			Micrometer	
			Drilling Machine	
			Grinding machine	
			Tapping sets 6mm, 8mm, 10mm	
			Tap wrench 10 mm	
			Die set 6mm, 8mm, 10mm	
			Die stock	
			Angle plate	
			Parallel bars	
			Scribers	
			Scrapers	
			Sledge hammer	
			V block	
			Cutting pliers	
			Steel Scale 6 inch	
			Steel Scale 12 inch	
			Drill bits 6 dia , 5 dia, 8 dia, 10 dia 12 dia, 14 dia	
			Center punch	
			Drill vise	

			Number punch	
			Letter punch	
			Adjustable wrench Brush	
			Steel Tape	
			Screw driver	
			Spanner set	
			Oil can	
			Jemper	
			Grinding wheel dresser	
			Leg wise	
			Anvil	

Sl. No.	Department	Laboratory Name	Equipment/Facilities Details				Remarks
1	ECE	**Electronic Devices and Instrumentation Lab**	**EQUIPMENTS NAME**	**MAKE**	**SPECIFICATION**	**QTY (NOS)**	
			Analog Ammeters		**0-15-30 mA**	**10**	
			Analog Ammeters		**0-100-200 mA**	**10**	
			Analog Ammeters		**0-100-200 micro A**	**05**	
			Analog Ammeters		**0-500 micro A**	**05**	
			Power supply	**Unitron**	**0-30v/2A Single**	**10**	

			Power supply	Unitron	0-30v/2A dual	10		
			Power supply	Unitron	0-300v/1A Single	02		
			Power supply	Unitron	+/- 12v or +/-15v	10		
			Digital multimeter	Motwane		06		
			Digital multimeter	Motwane		02		
			Digital Auto range multimeter	Fluke		01		
			Analog Oscilloscope	scientific		14		
			LCR Q Bridge	scientific		01		
			Function generator	Tektronic		12		
			Digital multimeter	Tektronic		10		
			Function generator	scientific		05		
			5 kva voltage stablizer			01		
			DRB			10		
			DIB			10		
			DCB			10		
			Digital voltmeter		0-2v-20v bench type	08		
			Digital voltmeter		0-20v-200v	08		
			Digital Ammeter		0-200micro A-2000 micro A	08		
			Digital		0-20mA-200mA	08		

			Ammeter					
			Digital Ammeter		0-200 mA-2000 mA	08		
			Power supply	Uday	0-30 v/2A Single	10		
			Power supply	Uday	0-30 v/2A dual	05		
			Fixed supply	Uday	+/-12v or +/-15v	10		
			Digital & Analog IC Tester			01		
			Digital storage oscilloscope	Akademik		07		
2		DSD lab	EQUIPMENTS NAME	MAKE	SPECIFICATION	QTY (NOS)		
			Digital IC trainer Kit	Model 4002		10		
			Analog IC trainer Kit	Model 5002		04		
			DRB		6 dials	05		
			DCB		5 dials	05		
			DIB		5 dials	05		
			Digital multimeter	Motwane		05		
			Digital IC trainer Kit			14		
			MP Based Analog IC Tester			01		
			MP Based Digital IC Tester			01		
			Function generator	scientific		05		

			Pulse generator			02		
			Fixed dc supply		+/- 12 v or +/- 15v	10		
			Voltage stablizer		5 KVA	01		
			Dc Power supply		0-30v/2A	02		
			Fixed supply		+/- 12 v or +/- 15v	02		
			Digital IC trainer Kit			12		
			Linear/Analog IC trainer kit			05		
			Digital IC Tester (Handled)			01		
			Digital Multimeter	Meco		03		
			DRB		6 dials	04		
			DCB		6 dials	04		
			DIB		6 dials	04		
			Function generator	systronics		01		
			Single pulse generator			01		
			computer	Dell vastro 3268		10		
3		VLSI lab	EQUIPMENTS NAME	MAKE	SPECIFICATION	QTY (NOS)		
			Single chip MCU Trainer	ESAMCB52		10		
			Power supply	ESA psm2		10		
			Stepper motor with			05		

			interface IF-STEP					
			DC Motor I/F			05		
			Elevator I/F			05		
			Dual dac I/F			05		
			Lcd i/f			05		
			Calculator KB			05		
			TSDR Interface			05		
			Micro wind software			50 users		
			PCI Based MSP430 KITS			20		
			Cadence software			20 users		
			ON Line UPS 5 KV			01		
			HP Prolient ML 100 server			01		
			HP Desk top system Mtpc3330			20		
			Dell Optiplex 380			04		
			ALS –SDA ARMCTXM3 KIT	ALS		15		
			UPS 6KVA	Emersion		01		
4		HDL Lab	**EQUIPMENTS NAME**	**MAKE**	**SPECIFICATION**	**QTY (NOS)**		
			Xilinx software			01		
			Lab view 7.1			01		

				software					
				TMS 320C6713 DSP Kits	TMS 320C6713		10		
				FPGA & CPLD Kits			15		
				Pattern generator & logic analyzer			15		
				32 bit ALU	32 bit		01		
				Spartern 6 daughter card			10		
				USB cables for kits			10		
				TMS 320c6713 DSP kits	TMS 320c6713		05		
				Over head projector			01		
				Plastic projection screen 5*5			01		
				Vacuum cleaner			01		
				Over head projector			01		
				Plastic projection screen 5*5			01		
				HP Laptop	hp		01		
				Smart board			01		
				Multimedia projector			01		
				Wall mount for Multimedia projector			01		
				E-podium			01		
				Hitachi projector	CP-X3021MN		01		

			CP-X3021MN						
			HP compax dx 2000 computers	HP compax dx 2000		12			
			Wipro LQ DSI 5235 printer	Wipro LQ DSI 5235		02			
			6 Kva UPS	Emerson		01			
			HP DX 2480 Model computer	HP DX 2480 Model		30			
			Sparten 6 daughter card			05			
			USB cable for kits			05			
			Tp LINK N -300 Router	Tp LINK N - 300		01			
			FPGA Mother board			01			
5		Advanced Communication lab	**EQUIPMENTS NAME**	**MAKE**	**SPECIFICATION**	**QTY (NOS)**			
			Analog Signal sampling & Reconstruction unit	**Kaushik enterprises**		**01**			
			Time division multiplexing Trainer	**Kaushik enterprises**		**01**			
			Spectrum Analyzers	**HAMEG**	**0.15MHZ TO 1050 MHZ**	**01**			
			Auto LCR Q Text	**systronics**		**01**			
			Function Generator	**systronics**	**10 MHz**	**02**			
			Controlled Stabilizer	**Powertronics**	**Powertronics 5 KVA**	**01**			
			Variable DC Regulated Power	**Uday Engineers**	**0-30v/2A**	**04**			

				Supply					
				Dual Power Supply	**Uday Engineers**	**0-30v/1A**	**03**		
				Analog Multimeter(Hung Chang)	**Hung Chang**		**05**		
				Desktop Digital Multimeter	**Meco**	**45p Multimeter**	**01**		
				Digital Multimeter	**Meco**		**02**		
				Decade Inductance Box	**Uday**	**6 Dials**	**06**		
				Decade Resistance Box	**Uday**	**6 Dials**	**06**		
				Decade Capacitance	**Uday**	**6 Dials**	**06**		
				Band Pass Modulator /Demodulator	**FALCON**		**01SET**		
				Dual trace oscilloscope	**Analog HM605 SCIENTIFI**	**60 MHZ**	**03**		
				Analog pulse Modulator Trainer	**Digitronix**		**01**		
				AM / FM Transmitter trainer	**Digitronix**		**01**		
				AM / FM Receiver Trainer	**Digitronix**		**01**		
				Frequency Counter	**SCIENTIFI**	**1 GHZ**	**01**		
				TDS Digital Oscilloscope	**Tektronix**		**06**		
				Analog IC Trainer kit	**UDAY**		**03**		
				Digital IC Trainer	**UDAY**		**03**		

				kit					
				Pattern Generator	**Electronic & Electronics product**		**01**		
				Decade Inductance Box	**SIMS**	**6 Dials**	**05**		
				Decade Resistance Box	**SIMS**	**6 Dials**	**05**		
				Decade Capacitance Box	**SIMS**	**6 Dials**	**05**		
				Twenty four types of antennas			**24**		
				Multi output Power Supply	**Power Vision**	**+/- 5,12,15,v/**	**03**		
				Multi Output Power Supply (Individual	**Power Vision**	**+/-12,v**	**02**		
				Dc Regulated Power Supply	**Power Vision**	**30 v 1 Amp Dual**	**06**		
				Dc Regulated Power Supply 3	**Power Vision**	**30 v 2 Amp**	**06**		
				TDM Kit	**scientech**	**ST (2102)**	**01**		
				AC Ammeter (Desktop)	**EIC**	**0-50,100 ma**	**05**		
				DC Ammeter (Desktop)	**EIC**	**0-25,250 ma**	**04**		
				Microprocessor based IC tester	**TESTEL**	**DA 40**	**01**		
				CRO	**Scientific HM 203**		**04**		
				Fiber Optic Kit	**scientech**	**ST 2502**	**01**		
				Data Communication and LAN trainer kit	**Falcon**		**01**		

			Single Pulse Generator	**Systronics**		**03**		
			Open Rack size 5 ½ x 3 x12			**02**		
			Table without draw			**02**		
			Analog Oscilloscope	**LG 5020**	**20MHz**	**05**		
			100MHz Oscilloscope	**LG 5100**	**100MHz**	**02**		
			1:1 & 10:1 combination compensated probe			**08**		
			Digital Multimeter	**meco**	**603**	**10**		
			OFC kit (Link –B)	**Falcon**		**01**		
			DPSK Kit	**TETCOS**		**01**		
			QPSK Kit	**TETCOS**		**01**		
			Noise Generator	**TETCOS**		**01**		
			Bit Error Measurement Unit	**TETCOS**		**01**		
			Function Generator	**FG806**	**(2MHz)**	**06**		
			Function Generator	**FG811**	**(Am/FM)**	**03**		
			Sine Wave Generator	**HM5032**	**20 MHz**	**02**		
			Decade Resistance Box	**PAN Electronic**	**5 Dials**	**10**		
			Decade Capacitance Box	**PAN Electronic**	**5 Dials**	**10**		
			Decade Inductance Box	**PAN Electronic**	**5 Dials**	**10**		
			Analog Oscilloscope	**EZ**	**HM 5060 60MHZ**	**10**		
			Pulse Generator	**ST 4063**		**13**		

			OFC Kit	**Scien tech**		**01**		
			DPSK Kit	**TETCOS**		**03**		
			QPSK Kit	**TETCOS**		**03**		
			Power Supply	**Power vision**	**(+/- 12V/*2A) +/- 15V/2A+/ -5V/2A**	**14**		
			Electronic Project Boards			**10**		
			Signal Generator (Signal source)			**02**		
			Electronic Integrated Circuit Kit **a) Coupled Directional Coupler** **b) Ring Resonator** **c) Power Divider** **d) Attenuator Pads-** **3db,6db,10db** **e) Adapter SMA(F) –N(M)** **f) BNC Cables** **g) SMA Cables 1m& 45cms.** **h) Coaxial Match Load** **i) Detector**			**02** **02** **02** **01 EACH** **02** **02** **02** **02** **02** **02**		
			Antenna with 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		
			UPS PB 6000 Batch: 01106VM0066UPS	EMERSON	6KVA	01		
			Batteries	EXIDE	42AH/12 V	16		
			Hitachi Projector cp-x3021	HITACHI	cp-x3021	01		
			Digital oscilloscope	Scientific SMO 502	50MHZ	05		
			Signal generator	Physitech PHY- 103 FAR	2 MHZ	05		
6		DSP lab	EQUIPMENTS NAME	MAKE	SPECIFICATION	QTY (NOS)		
			UPS Adapt 6 KVA (1TA)	UPS System ITA Model	Batch: 210/20046 1211C010 028 6KVA Single Phase of Single Phase	01		

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

						DELL E 1912, 18.5” W HD Monitor with WLED , DELL ™ MS111USB Optical Mouse, DELL ™ KB212-B USB Entry 6-ness Keyboard (ENGLISH)			
				ROUTER	DIGISOLE	sl.no 003 YS CA000788 Mac : 00177C1F27DA	01		
				Microprocessor Kit	ALS	8085 µp	10		
				Microprocessor	ALS	8086 µP	01		
				Power Supply	ALS	(+12v,-12v,+5v,+26v)	11		
				Logic Controller Interface Card	ALS		01		
				Dual DAC & I/O Interface Card	ALS		01		
				Elevator Interface Card	ALS		01		
				Keyboard / Display Interface Card	ALS		01		
				EPROM Programmer	ALS		01		

			Interface Card						
			8 Bit ADC Interface Card	ALS		O1			
			Stepper Motor Interface Card	ALS		01			
			Basic Universal Microprocessor Kit	ALS	SDA – UNI – 01	10			
			Power Supply	ALS	5v, 1.5A	10			
			CPU CARD	ALS	UNI-85-8085	10			
			UNI-86- 8086 CPU Card	ALS	[UNI-31/51 8031/51 CPU Card (Inbuilt – 8085 sl.No.13)]	10			
			Stepper Motor Interface	ALS	ALS – NIFC – 01A	02			
			Power Supply	ALS	5A,1A NIFC-01A-OPT-01	02			
			8 Bit ADC	ALS	ALS – NIFC-07A	02			
			Elevator Interface Card	ALS	ALS – NIFC-17	02			
			Keyboard/7 Segment Display/ Display Interface	ALS	ALS – NIFC -09	07			
			Logic Controller Interface	ALS	ALS – NIFC -05A	07			
			Stepper Motor Interface	ALS	ALS –NIFC-01A	06			
			Study Card	ALS	ALS –	05			

			(USARI /Timer Interface)		NIFC-21 8251/8253				
			Dual DAC Interface	ALS	ALS-NIFC-06A	02			
			Microprocessor Trainer Kit	ALS	ALS-SDA-85	20			
			Power Supply	ALS	5v,1.5A, +/- 12v,100 ma	20			
			Keyboard Interface Card	ALS		01			
			Elevator Interface Card	ALS		01			
			Logic Controller Interface Card	ALS		01			
			Stepper Motor Interface Card	ALS		01			
			Power Supply for above Interface	ALS		01			
			Dual DAC Interface Card	ALS		01			
			24 lines Digital I/O Card with Timer (INSIDE -Dell Optiplex(JM) 380DT-N Series SYSTEMS	ALS	ALS-PCI-07A	06			
			Desktop computers HpDX2480 Intel core2 Duo	ALS	HpDX2480 Intel core2 Duo	15			
7		Elect	EQUIPMENTS	MAKE	SPECIFICATI	QTY			

		rical lab	NAME		ON	(NOS)		
			Measurement of current,power and power factor of incandescent lamp,fluorescent lamp and LED lamp	Pragna		02		
			Measurement of Resistance and inductance of achoke coil using 3voltmeter method	Pragna		02		
			Determination of phase and line quantities in three phase star and delta connected load	Pragna		02		
			Measurement of three phase power using two wattmeter method	Pragna		02		
			2 way and 3 way control of lamp	Pragna		02		
			Measurement of earth resistance	Pragna		02		
			Study of effect of open and short circuit in	Pragna		02		

			simple circuit					
			Wheat stone bridge KCL& KVL	**Pragna**		**04**		

Sl. No.	Department	Laboratory Name	Equipment/Facilities Details	Remarks
1	AIML	Data Structure Lab	30 Computer Systems	
2	AIML	Microcontroller Lab	30 Computer Systems, Microcontroller KITS	
3	AIML	Machine Learning Lab	30 Computer Systems	

Sl. No.	Department	Laboratory Name	Equioment/Facilities Details	Remarks
1	ISE	Data Structure Lab	30 Computer Systems	
2	ISE	Microcontroller Lab	30 Computer Systems, Microcontroller KITS	
3	ISE	File Structure Lab	30 Computer Systems	
4	ISE	Software Testing Lab	30 Computer Systems	
5	ISE	Analysis and	30 Computer Systems	

		Design Lab		
6	ISE	Web Programming Lab	30 Computer Systems	
7	ISE	Machine Learning Lab	30 Computer Systems	
8	ISE	Mobile Application Development	30 Computer Systems	
	Chemistry Lab		Conductivity meter	
			Digital Cond. Meter	
			PH Meter	
			Bunsen Burner	
			Electric Water Bath- 6hole	
			Photoelectric colorimeter	
			Calorimeter set	
			Bunsen Burner with SC	
			Digital Cond. Meter	
			Centrifuge Mechine	
			Vaccum pump	
			Heating mantle 250 ml	
			Heating mantle 500 ml	
			Heating mantle 1000 ml	
			Micromagnetic stirrer	
			Water bath electrical 6 holes	
			Single pan adjustable weight	
			Melting point apparatus Elec.	

		Stop Clock ESAL	
		Electrical balance single pan	
		Flask shaker	
		Thermostat Waterbath	
		Electrical hot plate	
		Hot air oven 18"x18"	
		Deionizer 50 ltr capacity with analog conductivity meter	
		FGL 613 Digital PH meter	
		FGCL 157 Digital Colorimeter	
		Bunsen Burnor, Taps, rubber tube	
		Fire extinguisher (3.2 kg)	
		Digital Potentiometer	
		FGL 16133E Dig. PH meter	
		Digital Flame Photometer	
		Digital Conductivity	
		Digital PH meter	
		Colorimeter	

- List of Experimental Setup in each Laboratory/Workshop

Sl. No.	Department	Laboratory Name	List of Experiments	Remarks
1		**Electronic Devices and Instrumentation Lab**	**Electronic Devices and Instrumentation Lab (Third semester)** **PART A : Experiments using**	

	ECE		**Discrete components** 1. Conduct experiment to test diode clipping (single/double ended) and clamping circuits (positive/negative). 2. Half wave rectifier and Full wave rectifier with and without filter and measure the ripple factor. 3. Characteristics of Zener diode and design a Simple Zener voltage regulator determine line and load regulation. 4. Characteristics of LDR and Photo diode and turn on an LED using LDR 5. Static characteristics of SCR. 6. SCR Controlled HWR and FWR using RC triggering circuit 7. Conduct an experiment to measure temperature in terms of current/voltage using a temperature sensor bridge. 8. Measurement of Resistance using Wheatstone and Kelvin's bridge. **PART-B : Simulation using EDA software** (EDWinXP, PSpice, MultiSim, Proteus, Circuit Lab or any equivalent tool) 1. Input and Output characteristics of BJT Common emitter configuration and	

			evaluation of parameters. 2. Transfer and drain characteristics of a JFET and MOSFET. 3. UJT triggering circuit for Controlled Full wave Rectifier. 4. Design and simulation of Regulated power supply.	
2		**DSD lab**	**DSD lab(Third semester)** 1. Verify (i) Demorgan'sTheoremfor2variables. (ii) The sum-of product and product-of-sum expressions using universal gates. L1, L2, L3 2. Design and implement (i) Half Adder & Full Adder using i) basic gates. ii) NAND gates (ii) Half subtractor& Full subtractor using i) basic gates ii) NAND gates L3, L4 3.Design and implement (i) 4-bitParallelAdder/Subtractor using IC 7483. (ii) BCD to Excess-3 code conversion and vice-versa. L3, L4 4. Design and Implementation of (i) 1-bit Comparator	

			(ii) 5-bit Magnitude Comparator using IC 7485. L3, L4 5. Realize (i) Adder &Subtactors using IC 74153. (ii) 4-variable function using IC74151(8:1MUX). L2, L3, L4 6. Realize (i) Adder &Subtractors using IC74139. (ii) Binary to Gray code conversion & vice-versa (74139) L2, L3, L4 7. Realize the following flip-flops using NANDGates. Master-Slave JK, D & T Flip-Flop. L2, L3 8. Realize the following shift registers usingIC7474/7495 (i) SISO (ii) SIPO (iii)) PISO(iv))PIPO (v) Ring (vi) Johnson counter L2, L3 9. Realize (i) Design Mod – N Synchronous Up Counter & Down Counter using 7476 JK Flip-flop (ii) Mod-N Counter using IC7490 / 7476 (iii) Synchronous counter using IC74192 L2, L3 10. Design Pseudo Random Sequence generator using 7495. L2, L3 11. Design Serial Adder with	

			Accumulator and Simulate using Simulation tool. L2, L3, L4 12. Design Binary Multiplier and Simulate using Simulation tool. L2, L3, L4	
3		VLSI lab	VLSI lab(Seventh semester) **Part-A** **Analog Design** Use any VLSI design tools to carry 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 widths of inverter with Wn = Wp, Wn = 2Wp, Wn = Wp/2 and length at selected technology. Carry out the following: i Set the input signal to a pulse with rise time, fall time of 1ns and pulse width of 10ns and time period of 20ns and plot the input voltage and output voltage of designed inverter? ii. From the simulation results compute tpHL, tpLH and td for all three geometrical settings of width? iii Tabulate the results of delay and find the best geometry for minimum delay for CMOS inverter? 1.b) Draw layout of inverter with	

			Wp/Wn =40/20, use optimum layout methods. Verify for DRC and LVS, extract parasitic and perform post layout simulations, compare the results with pre-layout simulations. Record the observations. 2. a) Capture the schematic of 2-input CMOS NAND gate having similar delay as that of CMOS inverter computed in experiment 1. Verify the functionality of NAND gate and also find out the 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 ofNAND withWp/Wn =40/20, use optimum 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 find its transient response and AC 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 source amplifier, use optimum layout methods. Verify for DRC and LVS, extract parasitic and	

			perform post layout simulations, compare the results with pre-layout simulations. Record the observations. 4.a) Capture schematic of two-stage operational amplifier and measure the following: i UGB ii. dB bandwidth iii. Gain margin and phase margin with and without coupling capacitance iv. Use the op-amp in the inverting and non-inverting configuration and verity its functionality v. Studythe UGB, 3dB bandwidth, gain and power requirement in op-amp by varying the stage wise 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 for DRC and LVS, extract parasitic and perform post layout simulations, compare the results with pre-layout simulations. Record the observations.	

			Part -B **Digital Design** Carry out the experiments using semicustom design flow or ASIC design flow, use technology library 180/90/45nm and below Note: The experiments can also be carried out using FPGA design flow, it is required to set appropriate constraints in FPGA advanced synthesis options 1. Write verilog code for 4-bit up/down asynchronous reset counter and carry out the following: a Verity the functionality using test bench b. Synthesize the design bysetting area and timing constraint. 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 properties of each cell in terms of driving strength, power and area requirement. c. Perform the above for 32-bit up/down counter and identity the critical path, delay of critical path, and maximum frequency of operation, total number of cells required and total area. 2. Write verilog code for 4-bit adder and verity its functionality using test bench. Synthesize the design by setting proper	

			constraints and obtain the net list. From the report generated identity critical path, maximum delay, total number of cells, power requirement and total area required. Change the constraints and obtain optimum synthesis results. 3. Write verilog code for UART and carry out the following: a Perform functional verification using test bench b. Synthesize the design targeting suitable library and by setting area and timing constraints c. For various constrains set, tabulate the area, power and delay for the synthesized netlist d Identity the critical path and set the constraints to obtain optimum gate level netlist with suitable constraints 4.Write verilog code for 32-bit ALU supporting four logical and four arithmetic operations, use case statement and if statement for ALU behavioral modeling. a Perform functional verification using test bench b. Synthesize the design targeting suitable library by setting area and timing constraints c. For various constrains set, tabulate the area, power and delay for the synthesized netlist	

			d Identity the critical path and set the constraints to obtain optimum gate level netlist with suitable constraints Compare the synthesis 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. For the synthesized netlist carry out the following for any two above experiments: a Floor planning (automatic), identity the placement of pads b. Placement and Routing, 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. Physical verification and record the LVS and DRC reports d Perform Back annotation and verity the functionality of the design e. Generate GDSII and record the number of masks and its color composition	
4		HDL Lab	Microcontroller lab(Fourth semester) **I. PROGRAMMING** 1. Data Transfer: Block Move,	

			Exchange, Sorting, Finding largest element in an array. 2. Arithmetic Instructions - Addition/subtraction, multiplication and division, square, Cube – (16 bits Arithmetic operations – bit addressable). 3. Counters. 4. Boolean & Logical Instructions (Bit manipulations). 5. Conditional CALL & RETURN. 6. Code conversion: BCD – ASCII; ASCII – Decimal; Decimal - ASCII; HEX - Decimal and Decimal - HEX. 7. Programs to generate delay, Programs using serial port and on-Chip timer/counter. **II. INTERFACING** 1. Interface a simple toggle switch to 8051 and write an ALP to generate an interrupt which switches on an LED (i) continuously as long as switch is on and (ii) only once for a small time when the switch is turned on. 2. Write a C program to (i) transmit and (ii) to receive a set of characters serially by interfacing 8051 to a terminal.	

			3. Write ALPs to generate waveforms using ADC interface. 4. Write ALP to interface an LCD display and to display a message on it. 5. Write ALP to interface a Stepper Motor to 8051 to rotate the motor. 6. Write ALP to interface ADC-0804 and convert an analog input connected to it.	
			HDL Lab (Fifth semester) **PART A : Programming** 1. Write Verilog program for the following combinational design along with test bench to verify the design: a. 2 to 4 decoder realization using NAND gates only (structural model) b. 8 to 3 encoder with priority and without priority (behavioural model) c. 8 to 1 multiplexer using case statement and if statements d. 4-bit binary to gray converter using 1-bit gray to binary converter 1-bit adder and subtractor 2. Model in Verilog for a full adder and addfunctionality to perform logical operations of XOR, XNOR, AND and OR gates. Write test bench with appropriate input patterns to verify the modeled behavior. 3. Verilog 32-bit ALU shown in figure below and verify the functionality of ALU by selecting appropriatetest patterns. The functionality of the ALU is presented in Table 1. a. Write test bench to verify the functionality of the ALU considering all possible input patterns b. The enable signal will set the output to required functions if enabled, if disabled all the outputs are set to tri-state c. The acknowledge signal is set high after every operation is completed	

			Result[32:0] 4. Write Verilog code for SR, D and JK and verify the flip flop. 5. Write Verilog code for 4-bit BCD synchronous counter. 6. Write Verilog code for counter with given input clock and check whether it works asclock divider performing division of clock by 2, 4, 8 and 16. Verify the functionality of the code. **PART-B: Interfacing and Debugging (EDWinXP, PSpice, MultiSim, Proteus, CircuitLab or any otherequivalent tool can be used)** 1. Write a Verilog code to design a clock divider circuit that generates 1/2, 1/3rd and 1/4thclock from a given input clock. Port the design to FPGA and validate the functionality through oscilloscope. 2. Interface a DC motor to FPGA and write Verilog code to change its speed and direction. 3. Interface a Stepper motor to FPGA and write Verilog code to control the Stepper motor rotation which in turn may control a Robotic Arm. External switches to 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) –N steps if Switch no. 3 of a Dip switch is closed etc.	

			4. Interface a DAC to FPGA and write Verilog code to generate Sine wave of frequency F KHz (eg. 200 KHz) frequency. Modify the code to down sample the frequency to F/2 KHz. Display the Original and Down sampled signals by connecting them to an oscilloscope. 5. Write Verilog code using FSM to simulate elevator operation. 6. Write Verilog code to convert an analog input of a sensor to digital form and to display the same on a suitable display like set of simple LEDs, 7-segment display digits or LCD display.	
			Embedded Systems lab (Sixth semester) **PART A:** 1. ALP to multiply two 16 bit binary numbers. 2. ALP to find the sum of first 10 integer numbers. 3. ALP to find the number of O's and 1's in a 32 bit data 4. ALP to find determine whether the given 16 bit is even or odd 5. ALP to write data to RAM **PARTB:** 6. Display ''Hello world" message using internal UART 7. Interface and Control the speed	

			of a DC Motor. 8. Interface a Stepper motor and rotate it in clockwise and anti-clockwise direction. 9. Interface a DAC and generate Triangular and Square waveforms. 10. Interface a 4x4 keyboard and display the key code on an LCD. 11. Demonstrate the use of an external interrupt to toggle an LED On/Off. 12 Display the Hex digits 0 to F on a 7-segment LED interface, with an appropriate delay. 13. Measure Ambient temperature using a sensor and SPI ADC IC.	
5		Advanced Communication lab	Analog circuits lab (Fourth semester) **PART A : Hardware Experiments** 1. Design and setup the Common Source JFET/MOSFET amplifier and plot the frequency response. 2. Design and set up the BJT common emitter voltage amplifier with and without feedback and determine the gain- bandwidth product, input and output impedances. 3. Design and set-up BJT/FET i) Colpitts Oscillator, and ii) Crystal Oscillator	

			4. Design active second order Butterworth low pass and high pass filters. 5. Design Adder, Integrator and Differentiator circuits using Op-Amp 6. Test a comparator circuit and design a Schmitt trigger for the given UTP and LTP values and obtain the hysteresis. 7. Design 4 bit R – 2R Op-Amp Digital to Analog Converter (i) using 4 bit binary input from toggle switches and (ii) by generating digital inputs using mod-16 counter. 8. Design Monostable and a stable Multivibrator using 555 Timer. **PART-B : Simulation using EDA software** (EDWinXP, PSpice, MultiSim, Proteus, CircuitLab or any other equivalent tool can be used) 1. RC Phase shift oscillator and Hartley oscillator 2. Narrow Band-pass Filter and Narrow band-reject filter 3. Precision Half and full wave rectifier 4. Monostable and A stable Multivibrator using 555 Timer.	
			Communication lab(Sixth semester) **PART-A:Expt.l to Expt. 5 have to**	

			be performed using discrete components. 1. Amplitude Modulation and Demodulation: i) Standard AM, ii)DSBSC (LM741 and LF398 ICs can be used) 2. Frequency modulation and demodulation (IC 8038/2206 can be used) 3. Pulse sampling, flat top sampling and reconstruction 4. Time Division Multiplexing and Demultiplexing of two bandlimited signals. 5. FSK and PSK generation and detection 6. Measurement of frequency, guide wavelength, power, VSWR and attenuation in microwave test bench. 7. Obtain the Radiation Pattern and Measurement of directivity and gain ofmicrostrip dipole and Yagi antennas. 8. Determination of a Coupling and isolation characteristics ofmicrostrip directional coupler. b. Resonance characteristics of microstrip ring resonator and computation of dielectric constant of the substrate. c. Power division and isolation of	

			microstrip power divider. **PART-B: Simulation Experiments using SCILAB/MATLAB/Simulink or LabVIEW** 1. To Simulate NRZ, RZ, half-sinusoid & raised cosine pulses and generate eye diagram for binary polar signaling. 2 Pulse code modulation and demodulation system. 3. Computations of the Probability ofbit error for coherent binary ASK, FSK and PSK for an AWGN Channel and compare them with their performance curves. 4. Digital Modulation Schemes i) DPSK Transmitter and Receiver, ii)QPSK Transmitter and Receiver.	
6		DSP lab	DSP lab (Fifth semester) Following Experiments tobe done using MATLAB/ SCILAB/OCTAVE or equivalent: 1. Verification of sampling theorem (use interpolation function). 2 Linear and circular convolution of two given sequences, Commutative, distributive and associative property of convolution. 3. Auto and cross correlation of two sequences and verification of their properties 4. Solving a given difference	

			equation. 5. Computation of N point DFT of a given sequence and to plot magnitude and phase spectrum (using DFT equation and verify it by built-in routine). 6. (i) Verification of DFT properties (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 to meet the desired specifications (using different window techniques) and test the filter with an audio file. Plot the spectrum of audio signal before and after filtering. 8. Design and implementation of 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. **Following Experiments to be done using DSP kit** 9. Obtain the Linear convolution of two sequences. 10. Compute Circular convolution of two sequences. 11. Compute the N-point DFT of a given sequence. 12 Determine the Impulse response of first order and second	

			order system. 13. Generation of sine wave and standard test signals	
			CCN lab (Seventh semester) **PART-A: Simulation experiments using NS2/ NS3/ OPNET/ NCTUNS/ NetSim/QuaiNet or any other equivalent tool** 1. Implement a point to point network with four nodes and duplex links between them. Analyze the network performance by setting the queue size and varying the bandwidth. 2. Implement a four node point to point network with links n0-n2, nl-n2 and n2-n3. Apply TCP agent between n0-n3 and UDP between nl-n3. Apply relevant applications over TCP and UDP agents changing the parameter and determine the number of packets sent by TCP/UDP. 3. Implement Ethernet LAN using n (6-10) nodes. Compare the throughput by changing the error rate and data rate. 4. Implement Ethernet LAN using 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 LAN and obtain the performance parameters.	

			6. Implementation of Link state routing algorithm. **PART-B: Implement the following in C/C++** 1. Write a program for a HLDC frame toper form the following. i) Bit stuffing iil) Character stuffing. 2 Write a program for distance vector algorithm to find suitable path for transmission. 3. Implement Dijkstra 's algorithm to compute the shortest routing path. 4. For the given data, use CRC-CCITT polynomial to obtain CRC code. Verify the program for the cases a Without error b. With error 5. Implementation of Stop and Wait Protocol and Sliding Window Protocol 6. Write a program for congestion control using leaky bucket algorithm	
7		Electrical lab	Basic Electrical Engineering lab(First and second semester) 1 Verification of KCL and KVL for DC circuits 2 Verification of maximum power	

			theorem. 3 Measurement of Current, Power, and Power Factor of Incandescent Lamp, Fluorescent Lamp and LED Lamp. 4 Measurement of Resistance and Inductance of a Choke coil using three voltmeter method. 5 Determination of Phase and Line quantities in three-phase star and delta connected loads. 6 Measurement of 3 - phase Power using Two Wattmeter Method. 7 Determination of efficiency of a single-phase transformer by direct load test. 8 Two Way and Three-Way Control of Lamp and Formation of Truth Table. 9 Measurement of Earth Resistance 10 Study of the effect of Open and Short circuits in simple circuits	

Sl. No.	Department	Laboratory Name	List of Experiments	Remarks
	CIVIL ENGINEERING	COMPUTER AIDED BUILDING PLANNING AND DRAWING	Drawings Related to Different Building Elements: Following drawings are to be prepared for the data given using CAD Software a) Cross section of Foundation, masonry wall, RCC columns with isolated & combined footings. b) Different types of bonds in brick	

			masonry. c) Different types of staircases – Dog legged, Open well. d) Lintel and chajja. e) RCC slabs and beams. f) Cross section of a pavement. g) Septic Tank and sedimentation Tank. h) Layout plan of Rainwater recharging and harvesting system. i) Cross sectional details of a road for a 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 residential and public buildings, design aspects for different public buildings. Recommendations of NBC. Drawing of Plan, elevation and sectional elevation including electrical, plumbing and sanitary services using CAD software for: 1. Single and double story residential building. 2. Hostel building. 3. Hospital building. 4. School building.	
		BUILDING MATERIALS TESTING LABORATORY	1. Tension test on mild steel and HYSD bars. 2. Compression test on mild steel, cast iron and wood. 3. Torsion test on mild steel circular sections. 4. Bending Test on Wood Under two point loading. 5. Shear Test on Mild steel- single and double shear. 6. Impact test on Mild Steel (Charpy & Izod). 7. Hardness tests on ferrous and non-ferrous metals- Brinell's, Rockwell	

			and Vicker's. 8. Tests on Bricks, Tiles and Concrete Blocks. 9. Tests on Fine aggregates-Moisture content, Specific gravity, Bulk density, Sieve analysis and Bulking. 10. Tests on Coarse aggregates-Absorption, Moisture content, specific gravity, Bulk density and Sieve analysis. 11. Demonstration of Strain gauges and Strain indicators.	
		ENGINEERING GEOLOGY LABORATORY	1. Physical properties of minerals: Identification of i. Rock Forming minerals - Quartz group, Feldspar group, Garnet group, Mica group & Talc, Chlorite, Olivine, Asbestos, Calcite, Gypsum, etc ii. Ore forming minerals- Magnetite, Hematite, Pyrite, Pyralusite, Graphite, Chromite, etc 2. Engineering Properties of Rocks: Identification of i. Igneous rocks- Types of Granites, Dolerite, Granite Porphyry, Basalt, Pumice etc ii. Sedimentary rocks- Sandstone, Lime stone, Shale, Laterite, Breccia etc iii. Metamorphic rocks- Gneiss, Slate, Schist, Marble, Quartzite etc 3. Borehole problems: Determination of subsurface behavior of rocks, their attitude related to foundation, tunnels, reservoirs and mining. Triangular and Square methods. (2 methods) 4. Dip and Strike problems. Determine Apparent dip and True dip. (2 methods) 5. Calculation of Vertical, True thickness and width of the outcrops. (3 methods) 6. Study of Toposheets and Interpretation, Extraction of Drainage	

			Basin and its Morphometric Analysis. (3Toposheets) 7. Interpretation and drawing of sections for geological maps showing tilted beds, faults, unconformities etc. (10 Maps) 8. Interpretation of Satellite Images. (2 Satellite images) 9. Field work– To identify Minerals, Rocks, Geomorphology and Structural features with related to the Civil Engineering projects.	
		FLUID MECHANICS AND HYDRAULIC MACHINES LABORATORY	1. Verification of Bernoulli's equation. 2. Determination of Cd for Venturimeter and Orifice meter. 3. Determination of hydraulic coefficients of small vertical orifice. 4. Determination of Cd for Rectangular and Triangular notch 5. Determination of Cd for Ogee and Broad crested weir 6. Determination of Cd for Venturiflume 7. Determination of force exerted by a jet on flat and curved vanes. 8. Determination of efficiency of Pelton wheel turbine 9. Determination of efficiency of Francis turbine 10. Determination of efficiency of Kaplan turbine 11. Determination of efficiency of centrifugal pump 12.Determination of Major Loss in Pipes 13. Determination of Minor losses in pipe due to sudden enlargement, sudden contraction and bend.	
		SURVEYING PRACTICE	1. a) Measurements of distances using tape along with horizontal planes and slopes, direct ranging. b) Setting out perpendiculars. Use of cross staff, optical square. 2. Measurements of bearings / directions using prismatic compass,	

			setting of geometrical figures using prismatic compass. 3. Determination of distance between two inaccessible points using compass 4. Determination of reduced levels of points using dumpy level/auto level (simple leveling) 5. Determination of reduced levels of points using dumpy level/auto level (differential leveling and inverted leveling). 6. To determine the difference in elevation between two points using Reciprocal leveling and to determine the collimation error. 7. To conduct profile leveling, cross sectioning and block leveling. Plotting profile and cross sectioning in excel. Block contour on graph paper to scale. 8. Measurement of horizontal angle by repetition and reiteration methods and Measurement of vertical angles using theodolite. 9. Determination of horizontal distance and vertical height to a base in accessible object using theodolite by single plane and double plane method. 10. To determine distance and elevation using tachometric surveying with horizontal and inclined line of sight. 11. Closed traverse surveying using Theodolite and applying corrections for error of closure by transit rule and Bowditch rule. 12. To locate the points using Radiation and Intersection method of Plane table surveying. 13. To solve three point problem in plane table using Bessel's graphical solution. 14. Demonstration of Minor instruments like Clinometer, Ceylon Ghat tracer, Box sextant, Hand level, Planimeter, nautical extant and Penta	

			graph.	
		CONCRETE AND HIGHWAY MATERIALS LABORATORY	Part A: Concrete Lab 1. Tests on Cement: a. Normal Consistency b. Setting time c. Compressive strength d. fineness by air permeability test e. specific gravity 2. Tests on Concrete: a. Design of concrete mix as perIS-10262 b. Tests on fresh concrete: i. slump, ii. compaction factor and iii. Vee Bee test c. Tests on hardened concrete: i. compressive strength test, ii. split tensile strength test, iii. flexural strength test d. NDT tests by re bound hammer and pulse velocity test. 3. Tests on Self Compacting Concrete: a. Design of self compacting concrete, As per Is 10262:2019 b. slump flow test, c. V-funnel test, d. J-Ring test, e. U Box test and f. L Box test Part B: Highway materials Lab 1. Tests on Aggregates a. Aggregate Crushing value b. Los Angeles abrasion test c. Aggregate impact test d. Aggregate shape tests(combined index and angularity number) 2. Tests on Bituminous Materials a. Penetration test b. Ductility test c. Softening point test d. Specific gravity test e. Viscosity test by tarviscometer f. Bituminous Mix Design by Marshal Method (Demonstration only) 3. Tests on Soil	

			a. Wet sieve analysis b. CBR test	
		SOFTWARE APPLICATION LABORATORY	Module -1 Use of civil engineering software's: Use of software's for: 1. Analysis of plane trusses, continuous beams, portal frames. 2. 3D analysis of multistoried frame structures. Module -2 1. Project Management- Exercise on Project planning and scheduling of a building project using any project management software: a. Understanding basic features of Project management software b. Constructing Project: create WBS, Activities, and tasks and Computation Time using Excel spread sheet and transferring the same to Project management software. c. Identification of Predecessor and Successor activities with constrain d. Constructing Network diagram (AON Diagram) and analyzing for Critical path, Critical activities and Other non Critical paths, Project duration, Floats. e. Study on various View options available f. Basic understanding about Resource Creation and allocation g. Understanding about Splitting the activity, Linking multiple activity, assigning Constrains, Merging Multiple projects, Creating Baseline Project 1. GIS applications using open source software: a. To create shape files for point, line and polygon features with a map as reference. b. To create decision maps for specific purpose. Module -3	

			Use of EXCEL spread sheets: Design of singly reinforced and doubly reinforced rectangular beams, design of one way and two way slabs, computation of earthwork, Design of horizontal curve by offset method, Design of super elevation.	
		ENVIRONMENTAL ENGINEERING LABORATORY	1. Preparation chemical solutions required for analysis and sampling methodologies 2. Determination of pH, Conductivity, TDS and Turbidity. 3. Determination of Acidity and Alkalinity 4. Determination of Calcium, Magnesium and Total Hardness. 5. Determination of Dissolved Oxygen 6. Determination of BOD. 7. Determination of Chlorides 8. Determination of percentage of % of available chlorine in bleaching powder sample, Determination of Residual Chlorine and chlorine demand. 9. Determination of Solids in Sewage: i) Total Solids, ii) Suspended Solids, iii) Dissolved Solids, iv) Volatile Solids, Fixed Solids v) Settleable Solids. 10. Determination of optimum coagulant dosage using Jar test apparatus. 11. Determination Nitrates and Iron by spectrophotometer 12. Determination of COD(Demonstration) 13. Air Quality Monitoring (Demonstration) 14. Determination of Sound by Sound level meter at different locations (Demonstration)	
		COMPUTER AIDED DETAILING OF STRUCTURES	Module -1 Detailing of RCC Structures · Beams – Simply supported, Cantilever and Continuous.	

			· Slab – One way, Two way and One-way continuous. · Staircase – Doglegged · Cantilever Retaining wall · Counter Fort Retaining wall · Circular Water Tank, Rectangular Water Tank. Module -2 Detailing of Steel Structures 1. Connections – Beam to beam, Beam to Column by Bolted and Welded Connections. 2. Built-up Columns with lacings and battens 3. Column bases and Gusseted bases with bolted and welded connections. 4. Roof Truss – Welded and Bolted 5. Welded Plate girder 6. Gantry Girder	
		GEOTECHNICAL ENGINEERING LABORATORY	1. Field identification of soil, Specific gravity test (pycnometer and density bottle method). Water content determination by oven drying and Pycnometer method, rapid moisture meter method. 2. Grain size analysis i. Sieve analysis ii. Hydro meter analysis 3. In-situ density tests i. Core-cutter method ii. Sand replacement method 4. Consistency limits i. Liquid limit test(by Casagrande's and cone penetration method) ii. Plastic limit test iii. Shrinkage limit test 5. Standard compaction test (light and heavy compaction) 6. Co-efficient of permeability test i. Constant head test ii. Variable head test 7. Shear strength tests i. Unconfined compression test ii. Direct shear test iii. Triaxial test (unconsolidated	

			undrained test only) 8. Consolidation test :To determine pre consolidation pressure only(half an hour per loading-test). 9. Laboratory vane shear test 10. Demonstration of Swell pressure test, Standard penetration test and boring equipment	

Sl. No.	Department	Laboratory Name	List of Experiments	Remarks
	Mechanical Engineering	Material Testing lab	1 Preparation of specimen for Metallographic examination of different engineering materials. To report microstructures of plain carbon steel, 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 components to be supplied and students should report microstructures of furnace cooled, water cooled, air cooled, tempered steel. Students should be able to distinguish the phase changes in a heat treated specimen compared to untreated specimen. 3 Brinell, Rockwell and Vickers's Hardness tests on untreated and heat treated specimens. 4 To study the defects of Cast and Welded components using Non-destructive tests like: a) Ultrasonic flaw detection b) Magnetic crack detection c) Dye penetration testing.	

			PART B 5 Tensile, shear and compression tests of steel, aluminum and cast iron specimens using Universal Testing Machine 6 Torsion Test on steel bar. 7 Bending Test on steel and wood specimens. 8 Izod and Charpy Tests on Mild steel and C.I Specimen. 9 To study the wear characteristics of ferrous and non-ferrous materials under different parameters. 10 Tensile, shear and compression tests of steel, aluminum and cast iron specimens using Universal Testing Machine 11 Fatigue Test (demonstration only)	
		Mechanical Measurements and Metrology lab	1 Calibration of Pressure Gauge 2 Calibration of Thermocouple 3 Calibration of LVDT 4 Calibration of Load cell 5 Determination of modulus of elasticity of a mild steel specimen using straingauges. PART B 6 Measurements using Optical Projector / Tool makers' Microscope. 7 Measurement of angle using Sine Centre / Sine bar / bevelprotractor	

			8 Measurement of alignment using Autocollimator / Rollerset 9 Measurement of cutting tool for cesusing: Lathe tool Dynamometer 10 Measurements of Screw thread parameters using two wire or three -wire methods. 11 Measurements of surface roughness using Tally Surf/Mechanical Comparator 12 Measurement of gear tooth profile using gear tooth Vernier/Gear tooth micrometer 13 Calibration of Micrometer using slip gauges 14 Measurement using Optical Flats	
		Workshop and Machine Shop Practice (Consists of Fitting, and Machining)	1 Preparation of at least two fitting joint models by proficient handling and application of hand tools- V block, marking gauge, files, hack saw drills etc. PART B 2 Preparation of three models on lathe involving - Plain turning, Taper turning, Step turning, Thread cutting, Facing, Knurling, Drilling, Boring, Internal Thread cutting and Eccentric turning. Exercises should include selection of cutting parameters and cutting time estimation. PART C	

			3 Cutting of V Groove/ dovetail / Rectangular groove using a shaper. Cutting of Gear Teeth using Milling Machine. Exercises should include selection of cutting parameters and cutting time estimation.	
		Foundry, Forging and Welding lab	PART A Testing of Molding sand and Core sand. Preparation of sand specimens and conduction of the following tests: 1. Compression, Shear and Tensile tests on Universal Sand Testing Machine. 2. Permeability test 3. Sieve Analysis to find Grain Fineness Number (GFN) of Base Sand 4. Clay content determination on Base Sand. Welding Practice: Use of Arc welding tools and welding equipment Preparation of welded joints using Arc Welding equipment L-Joint, T-Joint, Butt joint, V-Joint, Lap joints on M.S. flats PART B Foundry Practice: Use of foundry tools and other equipment for	

			Preparation of molding sand mixture. Preparation of green sand molds kept ready for pouring in the following cases: 1. Using two molding boxes (hand cut molds). 2. Using patterns (Single piece pattern and Split pattern). 3. Incorporating core in the mold.(Core boxes). 4. Preparation of one casting (Aluminium or cast iron-Demonstration only) PART C Forging Operations: Use of forging tools and other forging equipment. • Calculation of length of the raw material required to prepare the model considering scale loss. • Preparing minimum three forged models involving upsetting, drawing and bending operations.	
		FLUID MECHANICS AND MACHINES LAB	PART A 1 Lab layout, calibration of instruments and standards to be discussed 2 Determination of coefficient of friction of flow in a pipe. 3 Determination of minor losses in flow through pipes. 4 Application of momentum equation for determination of coefficient of impact of jets on	

			flat and curved blades 5 Calibration of flow measuring devices. PART B 6 Performance on hydraulic Turbines a. Pelton wheel b. Francis Turbine c. Kaplan Turbines 7 Performance hydraulic Pumps d. Single stage and Multi stage centrifugal pumps e. Reciprocating pump. 8 Performance test on a two stage Reciprocating Air Compressor. 9 Performance test on an Air Blower. PART C (OPTIONAL) 10 Visit to Hydraulic Power 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 Lab layout, calibration of instruments and standards to be discussed 2 Determination of Flash point and Fire point of lubricating oil using Abel Pensky and Marten's (closed) / Cleveland's (Open Cup) Apparatus. 3 Determination of Calorific value of solid, liquid and gaseous fuels. 4 Determination of Viscosity of lubricating oil using Redwoods, Saybolt and Torsion	

			Viscometers. 5 Valve Timing/port opening diagram of an I.C. Engine. PART B 6 Performance Tests on I.C. Engines, Calculations of IP, BP, Thermal efficiency, Volumetric efficiency, Mechanical efficiency, SFC, FP, A:F Ratio, heat balance sheet for a. Four stroke Diesel Engine b. Four stroke Petrol Engine c. Multi Cylinder Diesel/Petrol Engine, (Morse test) d. Two stroke Petrol Engine Variable Compression Ratio I.C. Engine. 7 Measurements of Exhaust Emissions of Petrol engine. 8 Measurements of Exhaust Emissions of Diesel engine. PART C (OPTIONAL) 9 Visit to Automobile Industry/service stations. 10 Demonstration of pθ , pV plots using Computerized IC engine test rig	
		COMPUTER AIDED	PART A 1 Study of a FEA package and modeling and	

		MODELLING AND ANALYSIS LAB	stress analysis of: a. Bars of constant cross section area, tapered cross section area and stepped bar b. Trusses – (Minimum 2 exercises of different types) c. Beams – Simply supported, cantilever, beams with point load , UDL, beams with varying load etc. (Minimum 6 exercises) d. Stress analysis of a rectangular plate with a circular hole. PART B 2 Thermal Analysis – 1D & 2D problem with conduction and convection boundary conditions (Minimum 4 exercises of different types) 3 Dynamic Analysis to find: a) Natural frequency of beam with fixed – fixed end condition b) Response of beam with fixed – fixed end conditions subjected to forcing function c) Response of Bar subjected to forcing functions PART C(only for demo) 4 a. Demonstrate the use of graphics standards (IGES, STEP etc) to import the model from modeler to solver.	

			b. Demonstrate one example of contact analysis to learn the procedure to carry out contact analysis. c. Demonstrate at 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 Conductivity of a Metal Rod. 2 Determination of Overall Heat Transfer Coefficient of a Composite wall. 3 Determination of Effectiveness on a Metallic fin. 4 Determination of Heat Transfer Coefficient in free Convection 5 Determination of Heat Transfer Coefficient in a Forced Convention 6 Determination of Emissivity of a Surface. PART B 7 Determination of Stefan Boltzmann Constant. 8 Determination of LMDT and Effectiveness in a Parallel Flow and Counter Flow Heat Exchangers. 9 Experiments on Boiling of Liquid and Condensation of Vapour.	

			10 Performance Test on a Vapour Compression Refrigeration. 11 Performance Test on a Vapour Compression Air – Conditioner. 12 Experiment on Transient Conduction Heat Transfer. PART C (OPTIONAL) 13 Analysis of steady and transient heat conduction, temperature distribution of plane wall and cylinder using Numerical approach (ANSYS/CFD package). 14 Determination of temperature distribution along a rectangular and circular fin subjected to heat loss through convection using Numerical approach (ANSYS/CFD package).	
		COMPUTRE AIDED MANUFACTURING LAB	PART - A 1 Manual CNC part programming using ISO Format G/M codesfor 2 turning and 2 milling 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.	

			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, torque utilization, and cycle time. Generation and printing of shop documents like process and cycle time sheets, tool list, and tool layouts. Cut the part in single block and auto mode and measure the virtual part on screen. Post processingof CNC programs for standard CNC control systems like FANUC, SINUMERIC and MISTUBISHI. PART - C 3 (Only for Demo/Viva voce) FMS (Flexible Manufacturing System): Programming of Automatic storage and Retrieval system (ASRS) and linear shuttle conveyor Interfacing CNC lathe, milling with loading unloading arm and ASRS to be carried out on simple components. Robot programming: Using Teach Pendent & Offline programming to perform pick and place, stacking of objects (2 programs). Pneumatics and Hydraulics, Electro-Pneumatics: 3 typical experiments on Basics of these topics to be conducted.	

		DESIGN LAB	PART - A 1 Determination of natural frequency, logarithmic decrement, damping ratio and damping coefficient in a single degree of freedom vibrating systems (longitudinal and torsional). 2 Balancing of rotating masses 3Determination of critical speed of a rotating shaft 4 Determination of equilibrium speed, sensitiveness, power and effort of Porter/Proell /Hartnel Governor. PART - B 5 Determination of Fringe constant of Photo-elastic material using. a) Circular disc subjected to diametral compression. b) Pure bending specimen (four-point bending. 6 Determination of stress concentration using Photo-elasticity for simple components like plate with a hole under tension or bending, circular disk with circular hole under compression, 2D Crane hook 7 Determination of Pressure distribution in Journal bearing 8 Determination of Principal Stresses and strains in a member subjected to combined loading	

			using Strain rosettes. 9 Determination of stresses in Curved beam using strain gauge	

Sl. No.	Department	Laboratory Name	List of Experiments	Remarks
1	AIML	Data Structure Lab	https://vtu.ac.in/pdf/2018syll/is.pdf	
2	AIML	Microcontroller Lab		
3	AIML	Mobile Application Development		
4	CSE		2018 scheme -lab experiments 2021 scheme- lab experiments	
Sl. No.	Department	Laboratory Name	List of Experiments	Remarks
1	ISE	Data Structure Lab	https://vtu.ac.in/pdf/2018syll/is.pdf	
2	ISE	Microcontroller Lab		
3	ISE	File Structure Lab		
4	ISE	Software Testing Lab		

5	ISE	Analysis and Design Lab		
6	ISE	Web Programming Lab		
7	ISE	Machine Learning Lab		
8	ISE	Mobile Application Development		
Sl. No.	Department	Laboratory Name	List of Experiments	Remarks
1	ISE	Data Structure Lab		
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6	ISE	Web Programming Lab		
7	ISE	Machine Learning Lab		
8	ISE	Mobile Application Development		

15.3 Computing Facilities

- Internet Bandwidth: 100MBPS
- Number and configuration of System:
- Total number of system connected by LAN :
- Total number of system connected by WAN :
- Major software packages available :
- Special purpose facilities available (Conduct of online Meetings/Webinars/Workshops, etc.)
- Facilities for conduct of classes/courses in online mode (Theory & Practical)
- Innovation Cell
- Social Media Cell-

15.4 Compliance of the National Academic Depository (NAD), applicable to PGCM/ PGDM Institutions and University Departments

15.5 List of facilities available

- Games and Sports Facilities

SPORTS INFRASTRUCTURE

Facility	Quantity (No's)	Area/size (m x m) include extra space	Year of establishment
Play ground	3	16187sqm	1997
Basketball court	1	32X19	1997
Volley ball court	1	24X15	1997
Handball	1	40X20	1997
Throw ball court	1	22X15	1997
Kabaddi court	2	30X24	1997
Kho-kho	1	30X30	1997
Netball	1	40X25	1997
Cricket ground	1	60 mts 5 acers	1997
Football ground	1	110X70	1997
Athletic track 200m	1	5acers	1997
Indoor		Multi-purpose Indoor stadium	2008
Multi gym	1	50sqm	2008
Shuttle badminton court	2	446sqm	2008
Chess	5		1997
Table tennis	1		2008

Caroms	1		2008

+5.5 List of facilities available

- Games and Sports Facilities +Description

SPORTS INFRASTRUCTURE

Facility	Quantity (No's)	Area/size (m x m) include extra space	Year of establishment
Play ground	3	16187sqm	1997
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Netball	1	40X25	1997
Cricket ground	1	60 mts 5 acers	1997
Football ground	1	110X70	1997
Athletic track 200m	1	5acers	1997
Indoor		Multi-purpose Indoor stadium	2008
Multi gym	1	50sqm	2008
Shuttle badminton court	2	446sqm	2008
Chess	5		1997
Table tennis	1		2008
Caroms	1		2008

- Extra-Curricular Activities:
- Extra-Curricular Activities: Yoga center

Teaching Learning Process

- Curriculam and syllabus for each of the Programmes as approved by the University

Sl No	BRANCH	Scheme	Link
1	Electronics & Communication Engineering	2018	https://vtu.ac.in/pdf/2018syll/is.pdf 2018 SCHEME SYLLABUS.pdf
		2021	https://vtu.ac.in/pdf/2021syll/isesch.pdf 2021 SYLLABUS.pdf
		2022	https://vtu.ac.in/pdf/2022syll/elecsch.pdf
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/2022syll/csesch.pdf
3	Information Science & Engineering	2018	https://vtu.ac.in/pdf/2018syll/is.pdf
		2021	https://vtu.ac.in/pdf/2021syll/isesch.pdf
		2022	
4	Artificial Intelligence & Machine Learning	2018	https://vtu.ac.in/pdf/2018syll/me.pdf
		2021	https://vtu.ac.in/pdf/2021syll/mesch.pdf
		2022	
5	Mechanical Engineering	2018	https://vtu.ac.in/pdf/2018syll/cv.pdf
		2021	ttps://vtu.ac.in/pdf/2021syll/cvsch.pdf
		2022	https://vtu.ac.in/pdf/2022syll/mechsch.pdf
6	Civil Engineering	2018	https://vtu.ac.in/pdf/2018syll/ai.pdf
		2021	ttps://vtu.ac.in/pdf/2021syll/aisch.pdf
		2022	https://vtu.ac.in/pdf/2022syll/cvsch.pdf

For each Post Graduate Courses give the following:

- Title of the Course
  -NA-
- Curricula and Syllabi
  -NA-
- Laboratory facilities exclusive to the Post Graduate Course
  -NA-

15.8 Special Purpose

- Software, all design tools in case
  - Cadence

- Academic Calendar and framework