AICTE MANDATORY DISCLOSURE

816-SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE

1. Name of the Institution	
Name	816-SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE
Address	Erode – Gobi Main Road Sri Kalaivani Nagar, OthakuthiraiK.Mettupalayam – Post,Gobichettipalayam-Tk Erode – 638 455, Tamil Nadu.
Mobile Number	97155 45555
Phone No. with STD Code	04285- 265199
Fax No.	04285- 266133
E-Mail	svhpcgobi@gmail.com
Website	www.svhpc.in
Nearest Railway Station(Dist. in km)	Erode(31 KM)
Nearest Airport(Dist. in km)	Coimbatore(89KM)
Approval Year of First Course 2009	2009
Date of the first approval by AICTE letter	12/08/2009
AICTE Permanent Institute Id	1-431725341
Tamil Nadu Government Order No	G.O(Ms) No.180
Type of Institution, Categories	Private Self Finance, Co-Education
2. Name and Address of the Trus	st
Name	Shree Venkateshwara Educational & Charitable Trust
Address	Erode – Gobi Main Road, Sri Kalaivani Nagar, Othakuthirai,K.Mettupalayam – Post,Gobichettipalayam-Tk ,Erode – 638 455, Tamil Nadu.
Registered with	Sub Register Office No.2 Gobi
Trust Registration Date	21/10/2007

Trust	Registration No.	160/BK4		
Telep	hone No	04285- 266199		
Mobi	le Number	99761 18611		
Phon	e No. with STD Code	04285- 266199		
Fax N	0.	04285- 266133		
E-Ma	il	svhpcgobi@gmail.com		
i).	Details About The Trustee	es		
S.No	Name of the Members	Position	Period From	
1	Thiru.P.Venkatachalam	Chairman	24-10-2007	
2	Thiru.K.C.Karupanan	Secretary	24-10-2007	
3	Dr.C.K.Swamy	Treasurer	24-10-2007	
4	Thiru.G.P.Kettimuthu	Members	24-10-2007	
5	Dr.K.Saravanan	Members	26-06-2020	
6	Dr.N.Kuppuswamy	Members	24-10-2007	
7	Thiru.K.R.Kaviarasu	Members	24-10-2007	
8	K.C.Ganesan	Members	24-10-2007	
9	V.Poongodi	Members	24-10-2007	
10	V.V.Suganya	Members	24-10-2007	
11	K.Devi	Members	24-10-2007	
12	S.Jothilingam	Members	24-10-2007	
13	Dr.D.Parthiban	Members	24-10-2007	
14	Mrs.K.Lakshmipriya	Members	24-10-2007	
15	Dr.K.Yuvaraja	Members	26-06-2020	
16	Dr.V.Sibiya	Members	26-06-2020	
17	G.Gowtham	Members	26-06-2020	
18	S.Thamaraikannan	Members	26-06-2020	
3.	Name And Address Of The	e Principal		
Name	e of the Principal/Director	S.Prakadeswaran		
Exact	Designation	Principal		
Phon	e Number with STD Code	04285- 266199		
FAX N	Number with STD Code	04285- 266133		
Email		svhpcgobi@gmail.com		
Highe	est Degree	M.E.,		
		1		

Computer Science and Engineering

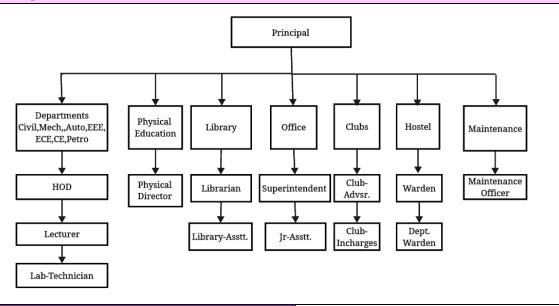
Field of Specialization

4 Name of the Affiliating University

Directorate Of Technical Education, Chennai.

5 Governance

i). Organizational chart



Name of the Committee

Governing Council

a) Objectives and Procedure

To device, approve and review the progress of function of the HEI in the area viz., Academics, Faculty and Staff Selection, Students, Faculty and Staff Development, Budget and Audited Statement of Accounts, Adherence of the HEI with respect to Norms of statutory bodies (AICT,UGC,DOTE) and other related matters.

b) Roles and Responsibilities

- To monitor the academic and other related activities of the college.
- To consider the recommendations of the Staff Selection Committee.
- To review the important communications, policy decisions received from the University, Government, AICTE, etc.
- To pass the annual budget of the college.
- To review the audited statements of accounts of the institute.
- To consider the introduction of new courses and changes in intake for the next academic year.
- To review the MOUs signed and industry collaborations.
- To review the state-of-the-art equipment procured.

- To review the faculty position of the college.
- To review the faculty development initiatives and programmes.
- To review the admissions of the institute.
- To review the academic performance of the students.
- To review the students' development activities.
- To review the placement activities.

c).	Frequency of the Meeting	02 Per Year
d).	Members of Academic Advisory Body	Not Applicable

e). Governing Council- Members of the Board

S.No	Name	Position	Professional Occupation
1	Mr.P.Venkatachalam	Chairman	Chairman, Shree Venkateshwara Educational and Charitable Trust
2	Yet to be Nominated	DOTE Nominee	-
3	Mr.K.C.Karupanan	Member	Secretary, Shree Venkateshwara Educational and Charitable Trust
4	Mr.G.P.Kettimuthu	Member	Joint Secretary, Shree Venkateshwara Educational and Charitable Trust
5	Dr.C.K.Swamy	Member	Treasurer, Shree Venkateshwara Educational and Charitable Trust
6	Dr.N.Kuppuswamy	Member	Trustee, Shree Venkateshwara Educational and Charitable Trust
7	Dr.A.Bazila Banu	Member	Professor KPR Institute of Engineering and Technology
8	Dr.P.Mani	Member	Vice Principal Shree Venkateshwara Hi Tech Polytechnic College
9	Mr.K.Jayachandran	Member	HOD/Computer Engineering Shree Venkateshwara Hi Tech Polytechnic College
10	MrK.Dhevendhiran	Member	Manager – HR Mobitech Wireless solution Pvt Ltd

11	Ms.S.Sulochana	Member	Administrative Faculty of College		
12	Mr.S.Prakadeswaran	Member Secretary	Principal, Shree Venkateshwara Hi Tech Polytechnic College		
ii).	Grievance Redressal med	chanism for Faculty, staf	f and students		
	Staffs, Students				
		edressal mechanism for Fa line grievance submission	-		
	334432133 (34)		,		
		Grievance Redressal Ce	11		
		+			
	Discussion ofth	ne Chairman and member Redressal cell	s of the Grievance		
					
		Mentor			
		•••••••••••••••••••••••••••••••••••••	ident		
			dent		
		<u> </u>			
	Fe	eedback from the Staff, St	ıdent		
	Communicati	on to Grievance Cell, Men	tor and Principal		
	Office				
iii).	Establishment of Anti Ragging Committee				
S.No	Name				
1	Mr.K.C.Karupanan	Secretary	Chairperson		
2	Mr.S.Prakadeswaran	Principal	Member		
3	Mrs.M.Reka	Inspector of Police	Member		
4	Mr.G.Fredrick	VAO	Member		
5	Dr.P.Mani	Vice Principal	Member		
6	Mr.K.Jayachandran	ichandran HOD Member			

7	Mrs.B.Santhi	Sr.Lecturer	Member
		Lecturer	
8	Mr.K.Balasubramaniyan		Member
9	Mr.K.Kuppusamy Mr.M.Arumugam	Lab Technician Parent of I Yr EEE Deepak	Member Member
11	Mr.R.Palanisamy	Sanjay.A Parent of II Yr CSE P.Dhana	Member
12	Mr.P.N.Mohammed Nabeel	I Mech Student	Member
13	Mr.S.YogaMunish	II AutoStudent	Member
14	Ms.S.Geethanjali	III EEE Student	Member
iv).	Establishment of Online G	rievance Redressal Commit	tee
S.No	Name	Designation	Position
1	Mr.S.Prakadeswaran	Principal	Chairperson
2	Mr.M.Mohan	HOD / Civil	Coordinator
3	Mr.P.Durkaiyan	Lecturer / EEE	Member
4	Mr.K.Arunkumar	Lecturer / Auto	Member
5	Mrs.N.Priyanka	Lecturer / EEE	Member
6	Ms.Thrni	Lecturer / Civil	Member
7	Ms.P.Lavanya	II-ECE Student	Member
8	Ms.C.Subashini	III-EEE Student	Member
9	Mr.L.Rooban	II-Civil Student	Member
10	Mr.S.Elangovan	III-Auto Student	Member
v).	Establishment of Internal	Committee (IC)	
S.No	Name	Designation	Position
2	Ms.V.Poongothai	Lecturer / EEE	Chairperson
3	Ms.S.Janaki	NGO representative	Member
4	Ms.S.Ranjitham	Lecturer / Maths	Member
5	Ms.S.Dhivya	Lab Technician / EEE	Member
6	Mrs.S.Premadevi	Junior Assistant	Member
7	Mr.E.Nallasivam	HOD / Mechanical	Member
8	Mr.P.Rajakumar	Sr.Lecturer	Member
9	Ms.K.Santhanalakshmi	Dy.Warden	Member
10	Mr.S.Kannan	Dy.Warden	Member
11	Ms.D.Sastiga	II Civil Student Member	

vi).	Establishment of Committee for SC/ST			
S.No	Name	Designation	Position	
1	Mr.S.Prakadeswaran	Principal	Chairperson	
2	Mr.K.K.Arumugam	HOD	Coordinator	
3	Ms.Ruckshana	Lecturer	Member	
4	Ms.K.Pavithra	Lecturer	Member	
5	S.Maria Evangelina	III Cse Year Student	Member	
6	A.Praveen	II EEE Year Student	Member	
7	A.Deepaksanjay	I Year Student	Member	
8	S.Ramya	I Year Student	Member	
vii).	Internal Quality Assurance	e Cell		
S.No	Name	Designation	Position	
1.	S.Prakadeswaran	Principal	Chairperson & Head of the Institution	
2.	K.C.Karupanan	Secretary	Representing Management	
3.	Dr.P.J. Anoop	NGO – Nammagobi Foundation, Gobichettipalayam	Eminent person from local Society	
4.	D. Venkateshwaran	Partner/Venbro Polymers, Erode	Nominee from Industries	
5.	Ramanujam	Manager HR Metalman Auto Private Ltd. Hosur	Nominee from Employer	
6.	I R Gowrishankar	Design Engiineer, Schneider Electric India Pvt Ltd., Coimbatore.	Nominee from Alumni	
7.	V.Poongodi	Parent	Nominee from Stakeholders	
8.	M.Maheshkumar	AO	Administrative Officer	
9.	M.Mohan		Hod /Civil	
10.	E.Nallasivam		Hod /Mech	
11.	K.K Arumugam	Marchana of Equalty	Hod /Auto	
12.	K.Jayachandran	Members of Faculty	Hod /Cse	
13.	K.Vinothkumar		Hod /Petro	
14.	R.Saranya		Lecturer /ECE	
15.	P.Durkaiyan	Coordinator of the IQAC	Lecturer /EEE	
viii).	Equal Opportunity facilities	es Cell.		
	The Equal Opportunity issues of Gender, Religious a	Cell has been set up in the insing Community equality.	stitution to address the	
a).	Objective			
	To oversee the effective implementation of policies and programmes for disadvantaged groups, to provide guidance and counselling with respect to academic,			

	financial, social and other matters and to enhance the diversity within the campus.				
b).	Functions				
	 To create a socially congenial atmosphere for academic interaction and for the growth of healthy interpersonal relationships among the students coming from various social backgrounds. To disseminate the information related to schemes and programmes for the welfare of the socially weaker section as well as notifications/memoranda, office orders of the Government, or other related agencies/organizations issued from time to time. To establish coordination with the Government and other agencies/organizations to mobilize academic and financial resources to provide assistance to students of the disadvantaged groups. 				
c).	Members of Equal Opport	-		n	
S.No	Name		signation	Position	
1	Mr.S.Prakadeswaran		rincipal	Chairperson	
2	Dr.P.Mani	Vice	e Principal	Member	
4	Mr.K.Jayachandran		HOD	Member Member	
5	Mr.K.K.Arumugam		HOD		
6	Mr.M.Mohan	HOD Member			
7	Mr.E.Nallasivam		HOD	Member	
8	Ms.V.Poongothai	L	ecturer	Member	
9	Mr.P.Gokulnath	L	ecturer	Member	
10	Mr.P.Manickam	Lab	Technician	Member	
11	Mr.D.Ruthiresh	Lab	Technician	Member	
6.	Programmes				
i).	Name of Programmes approved by AICTE:		 2. 1020- Diplom Engineering. 3. 1021- Diplom Engineering. 4. 1030- Diplom Engineering. 5. 1040- Diplom Communication Engineering. 6. 1052- Diplom 	a in Automobile a in Electrical & Electronics a in Electronics &	
ii).	Name of Programmes Acc	redited	Nil.		
iii).	by NBA Status of Accreditation of Courses	the	Nil.		
iv).	Total number of Courses		7		

v).	Programmes Details			
S.No	(a) ProgrammesName	(b) Number of sea	` '	(d) Cut off marks/rank of admission during the last years
1.	1010- Diploma in Civil Engineering	60 +10% (Latera Entry)	ıl	
2.	1020- Diploma in Mechanical Engineering	120 +10% (Latera Entry)	ıl	
3.	1021- Diploma in Automobile Engineering		Full Time (3 years) Full Time Diploma in	1
4.	1030- Diploma in Electrical & Electronics Engineering		Engineering shall extend over a period of three academic years, consisting of 6 semesters.	Pass in all subjects
5.	1040- Diploma in Electronics & Communication Engineering	60 +10% (Latera Entry)		
6.	1052- Diploma in Computer Engineering			
7.	1075- Diploma in Petrochemical Engineering			
vi).	Fee (As Approved By The State	Governn	nent)	
S.No	Programmes Name		Fee	
1.	1010- Diploma in Civil Engineeri	ing		
2.	1020- Diploma in Mechanical Engineering			
3.	1021- Diploma in Automobile Engineering			
4.	1030- Diploma in Electrical & Electronics Engineering		Rs.35,000/-	
5.	1040- Diploma in Electronics & Communication Engineering		-,-	•
6.	1052- Diploma in Computer Engineering			
7.	1075- Diploma in Petrochemical Engineering			
vii).	Collaboration with Foreign Uni	iversity(s	N	il

7.	FACULTY MEMBERS			
S.NO	STAFFS NAME	DESIGNATION	QUALIFICATION	COMMON SUBJECT
		FIRST YE	AR	
1.	JEEVANANTHAM M	LECTURER	MA, MPHIL	ENGLISH
2.	PAVITHRA K	LECTURER	MA	ENGLISH
3.	KARTHIKADEVI K	LECTURER	MA	ENGLISH
4.	SANTHI B	LECTURER	MSC, MPHIL	MATHS
5.	AROKYARAJ P	LECTURER	MSC, MPHIL	MATHS
6.	RANJITHAM S	LECTURER	MSC, MPHIL	MATHS
7.	RAJAKUMAR P	LECTURER	MSC, MPHIL	PHYSICS
8.	NAVEENKUMAR G	LECTURER	MSC	PHYSICS
9.	PRAVIN R	LECTURER	MSC	PHYSICS
10.	SUGANYA C	LECTURER	MSC	PHYSICS
11.	SADASIVAN B	LECTURER	MSC, MPHIL	CHEMISTRY
12.	AYYAMMAL A	LECTURER	MSC, MPHIL	CHEMISTRY
13.	INDHUMATHI T	LECTURER	MSC	CHEMISTRY
14.	NANDHAKUMAR	LECTURER	MSC	CHEMISTRY
15.	PRABHAKARAN V	LECTURER	MA	TAMIL
16.	GUNASEKARAN N	LECTURER	MA	TAMIL
17.	KARPAKAM PARANJOTHI	LECTURER	MA	TAMIL
18.	PUSHPA R	LECTURER	MA	TAMIL
19.	GANESAN M	LECTURER	ВТЕСН	ENGINEERING GRAPHICS
20.	YUVARAJ R	LECTURER	BE	ENGINEERING GRAPHICS
21.	ARULMURUGAN K	LECTURER	ME	COMPUTER
22.	VIGNESH S	LECTURER	MA	ENGLISH
23.	SRIDHAR L	LECTURER	MSC	MATHS
24.	ANITHA S	LECTURER	MSC	PHYSICS
25.	JOHN DE BRITTO L	LECTURER	MA	ENGLISH
26.	NAGARATHINAM K	LECTURER	MSC	MATHS
27.	MALATHI K S	LECTURER	MSC	CHEMISTRY
		CIVIL ENGIN	IEERING	
1.	MOHAN M	Н	OD	ВЕ

2.	DEVIPRIYA M	LECTURER	BE				
3.	PRAVEENA M	LECTURER	BE				
4.	THRNI R	LECTURER	BE				
5.	RUCKSHANA M	LECTURER	BE				
		MECHANICAL ENGINEERING					
1.	NALLASIVAM E	HOD	ME				
2.	PREMKUMAR C	LECTURER	BE				
3.	PRAKASH S	LECTURER	ME				
4.	MOHANKUMAR C	LECTURER	ME				
5.	RAJKUMAR	LECTURER	BE				
6.	GOKULNATH P	LECTURER	BE				
7.	BALASUBRAMANIYAM K	LECTURER	BE				
8.	KATHIRESAN N	LECTURER	BE				
9.	BALAKRISHNAN K	LECTURER	BE				
10.	HARIHARAN M	LECTURER	BE				
		AUTOMOBILE ENGINEERING					
1.	ARUMUGAM K K	HOD	BE				
2.	RABERT A	LECTURER	ВЕ				
3.	ARUNKUMAR K	LECTURER	ME				
4.	RAVINDRAN S	LECTURER	BE				
5.	GOWTHAM S	LECTURER	ME				
	ELECTRI	CAL AND ELECTRONICS ENGINEER	RING				
1.	DURKAIYAN P	LECTURER	BE				
2.	PRIYANKA N	LECTURER	BE				
3.	VIGNESH M	LECTURER	ME				
4.	POONGOTHAI V	LECTURER	ВЕ				
5.	UMESH S	LECTURER	ME				
	ELECTRONICS AND COMMUNICATION ENGINEERING						
1.	SARANYA R	LECTURER	ВЕ				
2.	ABIRAMI C	LECTURER	ВЕ				
3.	MURUGAN R	LECTURER	ME				
4.	MOORTHI A	LECTURER	ME				
5.	SHOBANA S	LECTURER	ВЕ				
	COMPUTER ENGINEERING						

1. 2.	PRAKADESWARAN S MANI P		CIPAL OD	ME,(PHD) MSC,PHD
3.	JAYACHANDRAN K	HOD		ME
4.	JANAGARATHINAM A G		URER	ME
5.	MATHIYAZHAGAN M M		URER	BE
6.	KARMUKILAN G R		URER	ME
7.	JANAKI M		URER	BE
7.		ETROCHEMICAL		<i>D</i> 1
1.	VINOTHKUMAR K		URER	ME
2.	GOPALAKRISHNAN V		URER	MTECH
3.	SATHISHKUMAR K		URER	BE
4.	AKILANDESWARI S		URER	ВТЕСН
5.	РКАВНИ К		URER	BE
8.	Profile of Principal			
I.	Name		S.Prakadeswai	an
II.	Date of Birth		24-12-1986	
III.	Unique ID		1-43355922034	
IV.	Education Qualification	ıs	ME,(PHD)	
V.	Work Experience		14 Years	
VI.	Teaching		14 Years	
VII.	Area of Specialization		Machine Learning, Computer Vision and Data Analytics	
VIII.	Courses taught at Diploma		 Computer Networks and Security. Computer Architecture. C Programming and Data structures. Python Programming. Data science and Big Data. 	
IX.	Research guidance (Number of Students)		8	
X.	No. of papers published in 1) National 2) International Journals		1) 3 2) 13	
XI.	Master	•		
XII.	Ph.D.		Ongoing	
9.	Fee			
i.	No. Of Fee Waivers Gra	nted With Amour	nt And Name Of S	tudents

S.No	Students Name	Programme with Year	Amount Waived
1.	Dhavagurumani V	III -Computer Engineering	Rs. 2,000/-
2.	Menaka A	III – Electronics & Communication Engineering	Rs. 2,000/-
3.	Girija M	II –Civil Engineering	Rs. 2,000/-
4.	Naseera S	II -Computer Engineering	Rs. 2,000/-
5.	Mekala Priya S	II –Computer Engineering	Rs. 2,000/-
6.	Sandhiya M	II – Electronics & Communication Engineering	Rs. 2,000/-
7.	Dhana Sri S	II -Computer Engineering	Rs. 2,000/-
8.	Pavithra S	II -Computer Engineering	Rs. 2,000/-
9.	Maheshwari M	II –Computer Engineering	Rs. 2,000/-
10.	Dhana P	II –Computer Engineering	Rs. 2,000/-
11.	Indhumathi R	I-Computer Engineering	Rs. 2,000/-
12.	Indhu R	I –Computer Engineering	Rs. 2,000/-
ii.	Number Of Scholarship Of	fered By The Institution, Du	ration And Amount
S.No	Students Name	Prssogramme with Year	Amount Waived
	-	Prssogramme with	
S.No	Students Name	Prssogramme with Year	Amount Waived
S.No 1.	Students Name Dhavagurumani V	Prssogramme with Year III -Computer Engineering III - Electronics &	Amount Waived Rs. 2,000/-
S.No 1. 2.	Students Name Dhavagurumani V Menaka A	Prssogramme with Year III -Computer Engineering III - Electronics & Communication Engineering	Amount Waived Rs. 2,000/- Rs. 2,000/-
S.No 1. 2. 3.	Students Name Dhavagurumani V Menaka A Girija M	Prssogramme with Year III -Computer Engineering III - Electronics & Communication Engineering II -Civil Engineering	Amount Waived Rs. 2,000/- Rs. 2,000/- Rs. 2,000/-
S.No 1. 2. 3. 4.	Students Name Dhavagurumani V Menaka A Girija M Naseera S	Prssogramme with Year III - Computer Engineering III - Electronics & Communication Engineering II - Civil Engineering II - Computer Engineering	Amount Waived Rs. 2,000/- Rs. 2,000/- Rs. 2,000/-
S.No 1. 2. 3. 4. 5.	Students Name Dhavagurumani V Menaka A Girija M Naseera S Mekala Priya S	Prssogramme with Year III -Computer Engineering III - Electronics & Communication Engineering II -Civil Engineering II -Computer Engineering II -Computer Engineering II - Electronics &	Amount Waived Rs. 2,000/- Rs. 2,000/- Rs. 2,000/- Rs. 2,000/-
S.No 1. 2. 3. 4. 5.	Students Name Dhavagurumani V Menaka A Girija M Naseera S Mekala Priya S Sandhiya M	Prssogramme with Year III -Computer Engineering III - Electronics & Communication Engineering II -Civil Engineering II -Computer Engineering II -Computer Engineering II - Electronics & Communication Engineering	Amount Waived Rs. 2,000/- Rs. 2,000/- Rs. 2,000/- Rs. 2,000/- Rs. 2,000/-
S.No 1. 2. 3. 4. 5. 6.	Students Name Dhavagurumani V Menaka A Girija M Naseera S Mekala Priya S Sandhiya M Dhana Sri S	Prssogramme with Year III - Computer Engineering III - Electronics & Communication Engineering II - Civil Engineering II - Computer Engineering II - Computer Engineering II - Electronics & Communication Engineering II - Computer Engineering II - Computer Engineering	Amount Waived Rs. 2,000/- Rs. 2,000/- Rs. 2,000/- Rs. 2,000/- Rs. 2,000/- Rs. 2,000/-
S.No 1. 2. 3. 4. 5. 6. 7.	Students Name Dhavagurumani V Menaka A Girija M Naseera S Mekala Priya S Sandhiya M Dhana Sri S Pavithra S	Prssogramme with Year III - Computer Engineering III - Electronics & Communication Engineering II - Civil Engineering II - Computer Engineering II - Computer Engineering II - Electronics & Communication Engineering II - Computer Engineering II - Computer Engineering II - Computer Engineering II - Computer Engineering	Amount Waived Rs. 2,000/- Rs. 2,000/- Rs. 2,000/- Rs. 2,000/- Rs. 2,000/- Rs. 2,000/- Rs. 2,000/-

•	Adı	mission									
	Nui	mber Of Seats Sanctioned	With T	he Yo	ear O	f Appro	oval				
		2021-2022 to 20	23-2024 DO	TE APPR	OVAL STU	DENT STREN	IGTH DETA	AILS			
			2	021-2022		2	022-2023		2	023-2024	
	S.NO	DEPARTMENT	Sanctione d Strength	I-YR	LE	Sanctione d Strength	I-YR	LE	Sanctione d Strength	I-YR	LE
	1	CIVIL ENGINEERING	60	12	5	60	11	8	60	40	11
	2	MECHANICAL ENGINEERING	120	38	12	120	43	9	120	120	11
	3	AUTOMOBILE ENGINEERING	60	27	2	60	36	12	60	60	19
	4	ELECTRICAL AND ELECTRONICS ENGINEERING	60	37	7	60	41	17	60	60	19
	5	ELECTRONICS AND COMMUNICATION ENGINEER	60	17	4	60	38	3	60	60	28
	6	COMPUTER ENGINEERING	60	40	11	60	52	14	60	60	17
	7	PETROCHEMICAL ENGINEERING	60	0	0	60	0	0	60	0	0
		TOTAL	420	171	41	420	221	63	420	400	105
		mber Of Students Admitte ree Years	d Unde	er Va	rious	Catego	ries l	Each	Year Ir	The	Las

ADMISSION TO FIRST YEAR(REGULAR) DIPLOMA COURSES: 2023 - 2024

FORM - C

BOYS & GIRLS STATISTICS

INSTITUTION CODE: 816

INSTITUTION NAME: SHREE VENKATESHWARA HI TECH POLYTECHNIC COLLEGE, ERODE

S.no	Branch	Branch Name	Shift	0	C	В	С	BO	CM	MBC	/DNC	SC	CA	Ś	С	S	T	Total A	dmitted
	Code			В	G	В	G	В	G	В	G	В	G	В	G	В	G	В	G
1	1010	CE	FIRST	3	0	10	1	0	1	7	4	5	2	4	3	0	0	29	11
2	1020	ME	FIRST	6	1	31	0	2	0	29	0	17	0	33	0	1	0	119	1
3	1021	AU	FIRST	0	0	17	0	1	0	19	0	9	0	14	0	0	0	60	0
4	1030	EE	FIRST	0	0	17	0	1	0	10	2	4	2	21	3	0	0	53	7
5	1040	EC	FIRST	0	0	14	6	6	0	6	3	8	6	6	5	0	0	40	20
6	1052	CE	FIRST	0	0	13	6	0	1	8	2	4	9.	8	5	1	3	34	26
7	1075	PC	FIRST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total		9	1	102	13	10	2	79	11	47	19	86	16	2	3	335	65

ADMISSION TO SECOND YEAR(LATERAL ENTRY) DIPLOMA COURSES: 2023 - 2024

FORM - C

BOYS & GIRLS STATISTICS

INSTITUTION CODE: 816

INSTITUTION NAME: SHREE VENKATESHWARA HI TECH POLYTECHNIC COLLEGE, ERODE

7	S.no	Branch	Branch Name	Branch	C	C	E	BC	В	CM '	MBC	:/DNC	S	CA	S	C	S	T	Total A	dmitted
J	·	Code		Type	В	G	В	G	В	G	В	G	В	G	В	G	В	G	В	G
	1	1020	ME	FIRST	0	0	6	0	0	0	1	0	1	0	3	0	0	0	11	0
	2	1021	AU	FIRST	0	0	0	0	0	0	1	0	0	0	10	0	0	0	11	0
	3	1040	EC	FIRST	1	0	1	0	0	0	3	0	2	1.	2	8	1	0	10	9
	4	1052	CE	FIRST	0	0	1	2	0	1	0	3	0	0	3	9	0	0		-
	5	1030	EE	FIRST	9	0	3	2	1	0	6	2	1	0	4	0	0	0	4	15
	6	1075	PC	FIRST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	4
	7	1010	CE	FIRST	12	3	1	0	0	0	0	0	0	0	1	0	0		0	0
	•		Total		22	3	12	4	1	1	11	5	4	1	23	17	1	0	74	3 31

ADMISSION TO FIRST YEAR (REGULAR) DIPLOMA COURSES, 2022 - 2023

FORM -C

BOYS & GIRLS STATISTICS

INSTITUTION CODE: 816

INSTITUTION CODE: 816
INSTITUTION NAME: SHREE VENKATESHWARA HI TECH POLYTECHNIC COLLEGE, ERODE

1	1 * *			1.3											100	1 ,,,	111	<u>i a 11</u>	G 1 1 1 1
114.	Branch	Branch Name	Chiff	, 10	С,	B	C	BO	ÇM	MBC	/DNC	ŚC	CA	S	C	S	Ţ	Total A	dmitted
S,no	Code	Branch Name	Shift	'B	G'	, B	G	В	G	В	G	В	G'	В	G	В,	,G,	.В	, G
ľ	1010	, a CE . ₁	FIRST	,0,	0	2	1,	0	0	1,	2,	2,1	0.	. 3	2	1	0	9	5,
2	1020	ME	FIRST	0	0	11	0	2	; 0 r	13,	. Ö .	7	0 ;	17	0	0	0	50	0
3 1	1021	, AU	FIRST	1	0	9	0	1	0	8 ;	0	8,+	0	13.	0	0.	. 0	40	0
4',	1'03'0	1 EE	FIRST	l,	0	11	0	0	0	12,	1,	6.	1,	. i8	, 3 _.	0	0	: 48	,5
,5.	1040 1	,i EC +-	'ı FIRST	0	01	4	13	0	0,,	8	ì 1.	7	7	13 (8	1	0	33	17
6	1052	CE	FIRST	0	1	12	5	2	1	8 ,	6	5	2	; 8	8	0.	0	- 35	23
7 ,	1075	PC PC	FIRST	0	Q	Ó	0	0	0	0 !	0	0 .	0	: 0	.0	0,	0	0 ,	١0 ١
Í	. 1,1	, Totai	14 14	2,	1	49	7.	5	1	50	*10	35	10	72 !	21	2)	. 0.1	215	÷50
 `a.'	1.71	(1)	;} . ,		1 .				1	1			,	1	١.	1 1.			1.1.

ADMISSION TO SECOND YEAR(LATERAL ENTRY) DIPLOMA COURSES: 2022 - 2023

FORM - C

BOYS & GIRLS STATISTICS

INSTITUTION CODE: 816

INSTITUTION NAME: SHREE VENKATESHWARA HI TECH POLYTECHNIC COLLEGE, ERODE

S.no	Branch	Branch Name	Branch	0	C	В	BC .	ВС	CM	МВС	/DNC	SC	CA,	S	C	S	T	Total A	dmitted
5.110	Code	Dianen Name	Туре	В	G	В	G	В	G	В	G	В	G	В	G	В	G	, в	G
1	1010	CE	FIRST	2	2	2	0	0	0	1	0	0	0	0	0	1	0	6	2
2	1020	ME	FIRST	0	0	1	0	0	0	4	0	0	0	4	0	0	0	9	0
3	1021	AU	FIRST	2	0	3	0	0	0	6	0	0	0	1	0	0	0	12	0
4	1030	EE	FIRST	4	0	5	0	0	0	5	2	0	0	0	1	0	0	14	3
5	1040	EC	FIRST	0.	0.	0	١ ء	0	0	0	0	0	0	2	0	0	0	2	1
6	1052	CE	FIRST	1	0	5	1	0	0	0	0	0	2	2	3	0	0	8	6
7	1075	PC	FIRST	0	0.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total		9	2	16	2	0	0	16	2	0	2	9	4	1	0	51	12

ADMISSION TO FIRST YEAR(REGULAR) DIPLOMA COURSES: 2021 - 2022

FORM - C

BOYS & GIRLS STATISTICS

INSTITUTION CODE: 816

INSTITUTION NAME: SHREE VENKATESHWARA HI TECH POLYTECHNIC COLLEGE, ERODE

S.no	Branch	Branch Name	Shift	0	C	В	C	BC	CM	MBC	/DNC	MB	C-V	МВ	C-0	_ 80	CA	S	С	S	T	Total A	dmitted
	Code	DI MICH I IMILE	Sint	В	G	В	G	В	G	В	G	В	G	В	G	В	G	В	G	В	G	В	G
1	1010	CE	FIRST	2	0	5	0	0	0	0	0	0	0	3	0	0	0	4	0	0	0	14	0
2	1020	ME	FIRST	2	0	13	0	1,	0	0	0	3	0	7	0	2	0	13	0	0	0	41	0
3	1021	ĄŪ	FIRST	1	0	7	0	ŀ	0	0	0	3	0	9	0	1	0	8	0	0	0	30	0
4	1030	EE	FIRST	4	0	8	0	0	0	0	0	2.	2	2	2,	7	0	7,	4	1	0	31	8
5	1040	EC	FIRST	0	0	7	0	0	0	0	0	1	0	1	1	0	2	4	2	0	0	13	5
6	1052	CE	FIRST	0	0	3	2	0	1	0	0	1	0	2	0	i	2	6	18	0	6	13	29
7	1075	PC	FIRST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total .		9	0	43	2	2	1,	0	0	10	2	24	3	11	,4	42	24	1	6	142	42



ADMISSION TO SECOND YEAR(LATERAL ENTRY) DIPLOMA COURSES: 2021 - 2022

FORM - C

BOYS & GIRLS STATISTICS

INSTITUTION CODE: 816

INSTITUTION NAME: SHREE VENKATESHWARA HI TECH POLYTECHNIC COLLEGE, ERODE

S.no	Branch	Branch Name	Branch	0	С	В	C	BC	CM	MBC	/DNC	MB	C-V	МВ	C-0	SC	CA	S	C	S	T	Total A	dmitted
	Code		Type	В	G	В	G	В	G	В	G	В	G	В	G	В	G	В	G	В	G	В	G
1	1010	CE	FIRST	2	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	5	0
2	1020	ME	FIRST	0	0	1	0	0	0	0	0	6	0	3	0	1	0	2	0	0	0	13	0
3	1021	AU	FIRST	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	0
4	1030	EE	FIRST	1	0	1	1	0	0	0	0	0	0	1	0	0	1	1	2	0	0	1	
5	1040	EC	FIRST	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1 1	4
6	1052	CE	FIRST	0	0	0	0	0	1	0	0	0	1	0	1	0	1	Ļ.	-	<u> </u>	0	2	2
7	1075	PC	FIRST	0	0	0	0	0	0	0	0	0	0		0	_	1	3	4	0.	0	3	0
				-		_	-		-	U	U	U		0	0	0	U	0	0	U	0	0	0
		Total		3	0	4	1	0	1	1	0	6	1	6	1	1	2	8	8	0	0	29	14

iii.	Number Of Applications Received During La Management Quota And Number Admitted	st Year For Admission Under
	Number Of Applications Received	Number Of Students Admitted
	190	190

11.	Admission Procedure	
i).	Mention The Admission Test Being Followed, Na And Address Of The Test Agency / State Admissi	
ii).	Number Of Seats Allotted To Different Test Qualification Candidate Separately (AIEEE / JEE / CET (State Conducted Test/ University Tests/ CMAT)/ Association Conducted Test Etc.)	As guided by the Directorate
iii).	Calendar For Admission Against Management Qu Seats:	
iv).	Last Date Of Request For Applications	
v).	Last Date Of Submission Of Applications	
vi).	Dates For Announcing Final Results	

vii). Release Of Admission List (Main List And Waiting List Shall Be Announced On The Same Day) viii). Date For Acceptance By The Candidate (Time Given Shall Innocase Be Less Than 15 Days) ix). Last Date For Closing Of Admission & Starting Of The Academic Session The Waiting List Shall Be Activated Only On The Expiry Of Date Of Main List The Policy Of Refund Of The Fee, In Case Of Withdrawal, Shall Be Clearly Notified			
viii). Date For Acceptance By The Candidate (Time Given Shall Innocase Be Less Than 15 Days) Last Date For Closing Of Admission & Starting Of The Academic Session The Waiting List Shall Be Activated Only On The Expiry Of Date Of Main List The Policy Of Refund Of The Fee, In Case Of		Release Of Admission List (Main List And Waiting List	
viii). Shall Innocase Be Less Than 15 Days) Last Date For Closing Of Admission & Starting Of The Academic Session The Waiting List Shall Be Activated Only On The Expiry Of Date Of Main List The Policy Of Refund Of The Fee, In Case Of	VIIJ.	Shall Be Announced On The Same Day)	
ix). Last Date For Closing Of Admission & Starting Of The Academic Session The Waiting List Shall Be Activated Only On The Expiry Of Date Of Main List The Policy Of Refund Of The Fee, In Case Of	,	Date For Acceptance By The Candidate (Time Given	
ix). Academic Session The Waiting List Shall Be Activated Only On The Expiry Of Date Of Main List The Policy Of Refund Of The Fee, In Case Of	VIIIJ.	Shall Innocase Be Less Than 15 Days)	
x). The Waiting List Shall Be Activated Only On The Expiry Of Date Of Main List The Policy Of Refund Of The Fee, In Case Of	:>	Last Date For Closing Of Admission & Starting Of The	
x). Expiry Of Date Of Main List The Policy Of Refund Of The Fee, In Case Of	IXJ.	Academic Session	
The Policy Of Refund Of The Fee, In Case Of)	The Waiting List Shall Be Activated Only On The	
l vi)	XJ.	Expiry Of Date Of Main List	
Withdrawal, Shall Be Clearly Notified	:)	The Policy Of Refund Of The Fee, In Case Of	
	XIJ.	Withdrawal, Shall Be Clearly Notified	

Information of Infrastructure and Other Resources Available 12

Number of Class Rooms and size of each 1)

S.No	Room Type	Room No	Size in Meter	Room Size in Sq.M
1	Class Room	201	9.68*8.23	79.66
2	Class Room	202	9.68*8.23	79.66
3	Class Room	204	9.68*8.23	79.66
4	Class Room	205	9.68*8.23	79.66
5	Class Room	207	9.68*8.23	79.66
6	Class Room	208	9.68*8.23	79.66
7	Class Room	211	10.06*8.23	82.79
8	Class Room	212	10.06*8.23	82.79
9	Class Room	214	9.94*8.23	81.8
10	Class Room	215	10.06*8.23	82.79
11	Class Room	217	9.82*8.23	80.81
12	Class Room	301	9.68*8.23	79.66
13	Class Room	302	9.68*8.23	79.66
14	Class Room	307	9.68*8.23	79.66
15	Class Room	308	9.68*8.23	79.66
16	Class Room	311	10.06*8.23	82.79
17	Class Room	312	10.06*8.23	82.79
18	Class Room	314	9.94*8.23	81.8
19	Class Room	315	10.06*8.23	82.79
20	Class Room	317	9.82*8.23	80.81
21	Class Room	318	9.94*8.23	81.8
Number	r of Tutorial rooms and s	size of each		
				Doors Cino in

2

Sq.M

	1	Tutorial Room	304	4.30*8.23	35.38
	2	Tutorial Room	304 A	4.30*8.23	35.38
	3	Tutorial Room	305	4.30*8.23	35.38
	4	Tutorial Room	305 A	4.30*8.23	35.38
3)	Number	r of Laboratories and siz	e of each		
	S.No	Room Type	Room No	Size in Meter	Room Size in Sq.M
	1	Eng Comm Lab	105	10.01*8.23	82.38
	2	Physics Lab	107	20.23*8.23	166.49
	3	Chemistry Lab	1	23.5*8.23	193.4
	4	EEE Lab -Machines	2	27.03*8.23	222.45
	5	EEE Lab -Circuits	2A	20*8.23	164.6
	6	Auto Lab	8	33.52*8.23	275.86
	7	Engines Lab	WS-01	9.14*18.28	167.07
	8	Fluid Mechanics Lab	WS-02	9.14*18.28	167.07
	9	Material Testing Lab	WS-03	9.14*18.28	167.07
	10	Lathe Section	WS-04	9.14*18.28	167.07
	11	Measurements and Metrology Lab	WS-04 A	8.53*5.18	44.18
	12	Special Machines - I	WS-05	9.14*18.28	167.07
	13	Additional Workshop	WS-06	9.14*18.28	167.07
	14	CAD Centre	WS-07	9.14*18.28	167.07
	15	E-Vehicle Lab	WS-08	9.14*18.28	167.07
	16	Distillate Testing Lab	WS-11	9.14*15.24	139.29
	17	Unit Operations Lab	WS-12	9.14*15.24	139.29
	18	Civil Engineering Lab	WS-13	9.14*15.24	139.29
	19	Electronics Lab	WS-14	9.14*15.24	139.29
	20	Communication Lab	WS-15	9.14*15.24	139.29
	21	Foundry and Welding	WS-16	9.14*15.24	139.29
	22	Workshop	WS-17,18	18.28*15.24	278.58
	23	Hardware Lab	218	9.94*8.23	81.8
4)	Number	r of Computer Centres w	ith capacity of ea	nch	
	S.No	Room Type	Room No	Size in Meter	Capacity
	1	Computer Centre - I	108	20.14*8.23	66
	2	Computer Centre - II	109	20.14*8.23	66
5)	Central	Examination Facility, Nu	ımber of rooms a	and capacity of ea	ach

	S.No	Room Type	Room No	Size in Meter	Room Size in Sq.M
	1	Class Room	201	9.68*8.23	79.66
	2	Class Room	202	9.68*8.23	79.66
	3	Class Room	204	9.68*8.23	79.66
	4	Class Room	205	9.68*8.23	79.66
	5	Class Room	207	9.68*8.23	79.66
	6	Class Room	208	9.68*8.23	79.66
	7	Class Room	211	10.06*8.23	82.79
	8	Class Room	212	10.06*8.23	82.79
	9	Class Room	214	9.94*8.23	81.8
	10	Class Room	215	10.06*8.23	82.79
	11	Class Room	217	9.82*8.23	80.81
	12	Class Room	301	9.68*8.23	79.66
	13	Class Room	302	9.68*8.23	79.66
	14	Class Room	307	9.68*8.23	79.66
	15	Class Room	308	9.68*8.23	79.66
	16	Class Room	311	10.06*8.23	82.79
	17	Class Room	312	10.06*8.23	82.79
	18	Class Room	314	9.94*8.23	81.8
	19	Class Room	315	10.06*8.23	82.79
	20	Class Room	317	9.82*8.23	80.81
	21	Class Room	318	9.94*8.23	81.8
	22	Drawing Hall	7	18.4*8.23	151.4
	23	Seminar Hall	310	17.00*8.84	150.28
6)		xamination facility (Numb band width, etc.)	oer of Nodes,	162 Nodes 8	& 300 Mbps
7)	Barrier l elderly p	Free Built Environment for persons	r disabled and	Ye	es
8)	Fire and	Safety Certificate			

TAMILNADU FIRE - RESCUE SERVICES FORM OF FIRE SERVICE LICENSE

Under Section 13 of the Tamil Nadu Service Act No. 40 of 1985 and with Tamil Nadu Fire Service Rules 1990 - Appendix - III

> Office of the District Office Fire - Rescue Services Erode District, Erode

License: 267/2024 K.Dis: 3274/C1/2024

Your Ref. No :Nil /2024 Date : 03.04.2024

Date: 08-04-2024

Date of inspection 04.04.2024 inspected by Station Officer (Transport), Gobichettipalayam License is hereby granted under section 13 of the Tamil Nadu Fire Service act, 1985 for running Polytechnic College in the name of M/s.SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE within the jurisdiction of Gobichettipalayam at the premises S.F.No.1218/03, 1223/1-10, 1224/1-18 Sri Kalaivani Nagar, Othakuthirai, K.Mettupalayam (Po) Gobichettipalayam, Gobichettipalayam Taluk, Erode District. subject to the conditions noted there on and such other condition as may be prescribed.

CONDITIONS

- 1. (As per Col. 13 to Appendix V to the Rules under Section 13 of the Act)
- 2. This License is valid for one year from the date of issue.
- The Applicant will also get permission / No objection Certificate from other Departments, if necessary.
- If any extension or alteration is made in the existing building and also for changing of present business will also apply & get separate permission.
- 5. Height of the building 44 Feet (14.33 Mtrs)
- 6. Installed the fire fighting Equipment should be maintained properly.
- 7. Transparent Fire Retardant Coating of 1 meter shall be applied on all electrical Cables at Termination in Electrical Pannels as per Section 3.2 of BIS 12459: 1988

8. If any deviation for the Above conditions the licence automatically Cancelled

(Official Seal with Date)

Official Seal with Date

Official Seal with

DISTRICT OFFICER
FIRE AND RESCUE SERVICE
ERODE DISTRICT,
ERODE.

Boys Hostel-100 Rooms

To

M/s.SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE

S.F.No.1218/03, 1223/1-10, 1224/1-18 Sri Kalaivani Nagar, Othakuthirai, K.Mettupalayam (Po) Gobichettipalayam, Gobichettipalayam Taluk,

ERODE DISTRICT.

9) Hostel Facilities Girls Hostel-90 Rooms (4 persons per room)

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

Shree Venkateshwara Hi-Tech Polytechnic College Gobi - 638455 **Department Of Central Library** Details Of Hard Copy Of National & International Journals - 2024 S.No **Journals Name Periodicity** Branch **I.Printed Journals Current Science** Fortnightly BS 1 2 Monthly BS Resonance 3 **Iete Journal Of Research** Bi-Monthly ECE 4 **Iete Technical Review** Bi-Monthly **ECE** Journal Of Scientific & Industrial 5 Monthly MECH Research Indian Journal Of Engineering 6 Bi-Monthly MECH **Material Science** Ictact Journal On Image And 7 Quarterly **ECE** Video Processing 8 **Ictact Journal On Soft Computing** Quarterly AIML Ictact Iournal On 9 Quarterly **ECE** Microelectronics Ictact Journal On Communication 10 Quarterly **ECE** Technology **Indian Journal Of Computer** 11 Bi-Monthly **CSE** Science Journal: International **Association On Electricity** 12 Half Yearly **EEE** Generation Transmission & Distribution 13 Cigrg India Journal Half Yearly **EEE** 14 Half Yearly EEE Power Engineer Journal Indian Journal Of Geosynthetic 15 Half Yearly **CIVIL** And Ground Improvement Incold Journal - (Technical Journal Of Indian Committee On 16 Half Yearly **CIVIL** Large Dams) Tai Journals (Tunnelling 17 **CIVIL** Half Yearly Association Of India) The Journal Of The English 18 Bi-Monthly BS Language Teaching Journal Of Engineering In 19 Quaterly **MECH Industrial Research**

20	Indian Journal Of Biotechnology	Quaterly	MLT
21	Global Journal Of Structural Design And Construction	3 Months	CIVIL
22	Global Journal Of Computer And Internet Security	3 Months	CSE
23	Journal Of Current Development In Aritificial Intelligence	3 Months	AIML
24	Global Journal Of Advanced Computer Science And Technology	3 Months	CSE
25	International Journal Of Advance Computational Engineering And Networking	3 Months	CSE
26	Journal Of Biotechnology And Bioengineering Research	3 Months	MLT
27	Journal Of Industrial And Mechanical Engineering	3months	МЕСН
28	Indian Journal Of Industrial &ProductioEngg. & Technology	Annual	PETRO
29	Indian Journal Of Industrial Engineering And Technology	Annual	PETRO

Branch wise periodicals subscription details (Printed)				
S.No	BRANCH	JOURNALS	TOTAL	
1.	MECH & AUTO	4	4	
2.	CIVIL	4	4	
3.	EEE	3	3	
4.	ECE	5	5	
5.	CSE	4	4	
6.	BS	3	3	
7.	Petro	2	2	
8.	MLT	2	2	
9.	AIML	2	2	
	TOTAL	29	29	
List of on	line National/International Journals	subscribed		

Journals Name

11)

S.No

1	Current Science
2	Resonance
3	Iete Journal Of Research
4	Iete Technical Review
5	Journal Of Scientific & Industrial Research
6	Indian Journal Of Engineering Material Science
7	Ictact Journal On Image And Video Processing
8	Ictact Journal On Soft Computing
9	Ictact Journal On Microelectronics
10	Ictact Journal On Communication Technology
11	Indian Journal Of Computer Science
12	Journal: International Association On Electricity Generation Transmission & Distribution
13	Cigrg India Journal
14	Power Engineer Journal
15	Indian Journal Of Geosynthetic And Ground Improvement
16	Incold Journal - (Technical Journal Of Indian Committee On Large Dams)
17	Tai Journals (Tunnelling Association Of India)
18	The Journal Of The English Language Teaching
19	Journal Of Engineering In Industrial Research
20	Indian Journal Of Biotechnology
21	Global Journal Of Structural Design And Construction
22	Global Journal Of Computer And Internet Security
23	Journal Of Current Development In Aritificial Intelligence
24	Global Journal Of Advanced Computer Science And Technology
25	International Journal Of Advance Computational Engineering And Networking
26	Journal Of Biotechnology And Bioengineering Research
	25

	27	Journal Of Industrial And Mechanical Engine	ering
28 Indian Journal Of Industrial &ProductioEngg. & Technology		& Technology	
	29 Indian Journal Of Industrial Engineering And Technology		Technology
12)	12) National Digital Library (NDL) subscription details Subscribed		Subscribed
13)	List of Ma	njor Equipment/Facilities in each Laboratory/V	Vorkshop

Department Of Basic Engineering Physics Lab List Of Equipments S.No **Equipments Specifications** Qty 5 amp 25 1 Ammeter 2 Ammeter (milliamp) 5 amp 5 Battery (Eliminator) 3 12 volt 20 Bred board Bred board 10 4 5 7 Bar magnet Bar magnet Boyles law quill tube appts 6 3 7 Burette stand 10 8 Compass box 5 Compass box 9 Cutting plier 1 Compound pendulum steel 10 4 7 11 Deflection magnetometer 12 Digital balance 1 13 D.P.D.T Switches 5 Daniel cell 14 4 5 15 Galvanometer 5 16 Glamp

	_	_	
17	Hammer	-	5
18	Joules Calorimeter	-	9
19	Knife Edge	-	10
20	Lechlance cell	-	4
21	Logic gate kit	-	6
22	Meter scale ss	-	5
23	Meter bridge	-	5
24	Potentiometer	-	4
25	P N junction	-	7
26	Plug key	-	10
27	Surface tension pointer	-	5
28	Resistance box	2D,1	10
29	Rheostate	1.8 amps	5
30	Resistance box	4-D,1k,10k,100k,1000k	7
31	Rheostate	3.3 amps	10
32	Resistance coil	1 ohm	15
33	Simple pendulum bob	-	6
34	Solar cell kit	-	11
35	Sonometer	-	8
36	Standard weights	500g	10
37	Stop watch	-	12
38	Screw gauge	Normal	25
39	Simple pendulum Clamp	-	10
40	Slotted weights	50g	15
41	Stop clock	Digital	5
42	Spectrometer	6-SS scale	8

43	Tuning forks	-	1
44	Travelling microscope	-	8
45	Thermometer	110° c	10
46	Tools box	-	1
47	Torsion pendulum	-	5
48	Voltmeter	10 volt	15
49	Vernier caliper	Normal	20
50	Voltmeter (milliamp)	5 volt	5
51	V – shaped stand	-	8
52	White board and Clamp	-	5
53	Wire cutter	-	1
54	Wooden meter scale	1 metre	10
55	Sodium Vapour lamp	35 watts	8
56	Sodium Vapour lamp Transformer	-	8
57	Sodium Vapour lamp wooden box	-	8
58	Spectrometer Wooden guard	-	4
59	Slotted weight	5x500g	3
60	Spring constant apparatus	-	3

Department Of Basic Engineering					
Chemistry Lab					
List Of Equipments					
S.No	Equipments	Specifications	Qty		
1	PH Meter	Elias I : 12a	3		
1	rn weter	Elico –Li12o	1		
2	Burette stand with clamp	-	50		

			5
			15
3	TDS Meter	-	3
4	Connerwater bath		40
4	Copper water bath	-	25
5	Electronic Balance	-	1
6	Gas line LPG	-	1
7	Wooden rack	-	22
8	H ₂ S apparatus	-	1
			50
9	Spatula	-	10
			25
10	Test tube Stand	Plastic	35
10	rest tube stand	Plastic	20
			55
11	Tripod Stand	-	15
			10
12	Took tubo Chard		45
12	Test tube Stand - wood	_	30
13	Test tube Stand - Aluminium	Aluminium (19mm)	15

Department Of Basic Engineering						
Communication English Lab						
	List Of Equipments					
S.No	Equipments	Specifications	Qty			
1	Sony Bravia 40 Inch Lcd With Wallmount	-	1			

			1
			1
2	Sony Dvd With 5.1 Home Theatre	-	5
			15
3	Mike (Wired & Wireless)	-	1

	Department Of Basic Engineering Workshop Lab			
	List Of Equipments			
S.No	Equipments	Specifications	Qty	
1	Hand Shearing Machine	5mm Cap Heavy Duty	1	
2	Anvil	50kg C . I	5	
3	Caliper	Inside/Outside/Odd Leg	30(Each 30)	
4	Hand Hacksaw Frame	Heavy Fix	31	
	Flat File	10 " Smooth	13	
_		10 " Rough	13	
5		12 " Rough	20	
		12 " Smooth	20	
	W 16D 1 D	6 "	40	
6	Half Round File	8 "	1 5 30(Each 30) 31 13 13 20 20	
7	Try Square	100 Mm	41	
8	Scriber	150 Mm	40	
9	Punch	Pin / Centre / Prick 100 Mm	30 No' S Each	
10	Hammer	1 Lbs With Handle	5	
11	Tap Wrench&Die Wrench	1/2 "	5	
12	Bench Vice	4 "	20	

		6"	4
14	Hand Operated Bending Tool	½ " To 1 "	2
15	Try Square	150 Mm	5
16	Measuring Tape	3 Meters	5
17	Junior Hacksaw Frame	Small	5
18	Pipe/Tupe Cutter	2 " Cap	2
19	Water Meter	1/2 "	5
20	Grip Plier	-	5
21	Slip Joint Plier	-	5
22	Screw Driver	12 "	5
23	Double End Spanner	6 To 32 Mm	2set
24	Jumber Bit	1/2 "	5
25	Flat Chisel	6"	5
26	Sledge Hammer	2 Lbs	5
27	Pipe Vice	2 "	2
28	Pipe Wrench	18 Posh Crv Steel	5
29	Shifting Spanner	12 "	5
30	Wire Brush	-	5
31	Cutting Plier	8 "	20
32	Wire Cutter	-	10
33	Screw Driver	10 "	15
34	Tester	250 V	15
35	Screw Diver Set	-	5
36	Cross Pein Hammer	¼ Lbs	5
37	Poker	-	5
38	Multi Meter	Digital	5

39	Round File	8 "	20
40	Triangular File	8 "	20
41	Square File	8 "	20
42	Round Block	-	16
43	Steel Rule	1'	30
44	Pillar Drilling Machine	25 Mm Cap	1
45	Wood Working Vice	7 "	2
46	Hand Saw	18 "	5
47	Carpentry Chisel	25 Mm	10
48	Carpentry Chisel	12 Mm	10
49	Mortise Chisel	12 Mm	5
50	Wooden Mallet	72 Dia	3
51	Carpentry Plane	7 " Length	3
52	DVR	-	2
53	SMPS	-	2
54	Water Heater	3 Lit	1
55	Self Priming Motor	0.5 Hp	4
56	Camera	2 Mega Pixel	4

	Department Of Civil Engineering			
	Construction Practice Lab			
List Of Equipments				
S.No	Description Of The Machinery / Equipment Etc.,	Specification	Qty	
1	Lechatlter Flask	500ml (BorostlicateGla)	2	
2	Crucible	25ml	5	
3	China Dish	Porcelin	5	

4	2180-Cone Imhoff	Blunt Tip (Borosilr)	1
5	Jackson Turbidity Meter	Turbidity Meter	1
		Capacity ; 10 Kg Accuracy ; 0.5 Grm	1
6	Weighing Balance 'Wenser' Make	Capacity ; 3 Kg Accuracy ; 0.1 Grm	2
		Capacity ; 50 Kg Accuracy ; 5 Grm	1
7	Hot Air Oven	Scientek Make Size 455x455x455 Mm	1
8	Muffle Furnance	Scientek Make Size 5"X5"X10"	1
9	Steel Scale	-	3
10	Pycnometer	1kg Capacity Of Glass Jar	7
11	Casagrande Liquid Limit Apparatus	Liquid Limit Device, Supplied Complete With Grooving Tool Type 'Astm' And Gauging Block As Per Is: 9259 Is: 2720 (Part-V).	3
12	Compaction Hammer	Light Mode Of Ms	2
13	Proctor Compaction Mould	Compaction Factor Apparatus Mould 100mm Dia Height 127.3 Mm 1000 Ml Volume	2
14	Direct Shear Test Apparatus With Accessories (Hand Operated)	Direct Shear Apparatus (Motorised) Loading Unit Normal Stress Capacity Is 8 Kg/Cm	1
15	Sand Pouring Cylinder	Cylinder 115 Mm Dia With Container Meter Tray Is 2720 Part (Xxvii)	2
16	Deval's Attrition Testing Machine	Attrition Testing Machine Two Hollow Cast Iron Cylinder Is 2386 (Part Iv)	1
17	Dorry Abrasion Testing Machine	Abrasion Testing Machine Bs 812-1967 A Circular Disc Mounted On A Reduction Gear Drive By Electric Motor	1
18	Aggregate Crushing Apparatus	Aggregate Crushing Value Apparatus @ 152 Mm Dia Cylinder Is 2366-Part Iv	2
19	Aggregate Impact Apparatus	A Heavy Circular Base With Cross Bar At Top & Tamping Rod	1
20	Field Density Kit(Core Cutter Apparatus)	Cylindrical Core Cutter 100mm Dia & Steel Rod	2

21	Plastic Limit Apparatus	Plastic Limit Apparatus Porcelain Evaporating Dish With 150mm Long Glass Plate. Conforming To Is: 2720 (Part V)	2
		Measuring Jar 10 Ml	2
22		Measuring Jar 50 Ml	2
	Measuring Jar	Measuring Jar 100 Ml	2
		Measuring Jar 500 Ml	2
		Measuring Jar 1000 Ml	2
23	Standard Test Sieve - Gi	Gi (300mm) Dia, Size 80, 40, 25, 20, 16, 12.5, 10, 4.75 Mm, Pan & Lid	10
24	Standard Test Sieve -Brass	Size 4.75,2.36,1.18 Mm, 600μ, 425μ, 300μ, 150μ & Micro Lid & Pan	8
25	Standard Test Sieve -	90μ Sieve Brass	1
		20cm Dia 90μ &L/P	2
26	Fine Aggregate Test Sieve	Size 10,4.75,2.36,1.18 Mm, 600μ, 300μ, 150μ & Pan & Lid	1
		20cm Dia 4.75,2.36, 1.18 Mm, 600μ, 300μ, 150μ	6
	Constant Track	Size 80,40,20,10,4.75 Mm, Lid & Pan	1
27	Coarse Aggregate Test Sieve	30cm Dia Size 80,40,20,10,4.75 Mm, Lid & Pan	6
28	Cube Mould	150mm X 150mm X 150mm	12
29	Flakiness Apparatus	As Per IS 2386 (Part I). Used To Determine Flakiness Index Of The Aggregate. The Aggregate Particles Are To Be Flaky, If Their Thickness Is Less Than 0.6 Of Their Normal Size. It Consists Of A Frame With Fixed Panel With Accurate Slots Of Standard Width And Length, The Complete Assembly Is Chrome Plated.	1
	Flakiness Gauge	-	2
30	Elongation Apparatus	As Per IS 2386 (Part I). Used To Determine Flakiness Index	1

		Of The Aggregate. Aggregate Particles Are Considered Elongated When Their Length Is More Than 1.8 Of The Normal Size. It Consists Of A Hard Wood Base With Vertically Mounted Metal Studs As Per IS Specifications. The Apparatus Consists Of Standard Length Gauge Of IS Sieve Sizes- 50mm,40mm,25mm,20mm, 16mm,12.5mm,10mm And 6.3 Mm	
	Elongation Gauge	-	2
31	Sieve Shaker	MOTORISED Sieve Shaker	1
32	Slump Cone Apparatus	AS Per IS 1199, IS 7320 Specification: The Slump Cone In These Slump Test Apparatus Is Filled With Freshly Mixed Concrete And Tamped With A Tamping Rod In Three Or Four Layers. The Top Of The Concrete Is Leveled Off With The Top Of The Slump Cone, The Cone Is Lifted Vertically Up And The Slump Of The Sample Is Immediately Measured. The Comprises Of A Steel Octagon Base Plate (8 Faces) With Carrying Handle, Graduated Tamping Rod 16mm Dia X 600 Mm Long With One Bullet End, Slump Cone Having Base 200mm, Height 300mm Fitted With Handle.	5
33	Compaction Factor Apparatus	As Per IS: 5515. Apparatus Is Complete With Hoppers And Receiver Assembly. Built On A Rigid And Stable Frame Consists Of Two Conical Hoppers, Each With A Hinged Trap Door. Trap Door Is Operated By A Quick Release Mechanism To Allow A Free Fall To The Released Concrete Mix Sample. A Cylindrical Mould Is Fitted Beneath The Two Hoppers. Hoppers And Receiver Can Be Easily	1

		Removed For Cleaning.	
34	Vee Bee Consistometer	As Per IS: 1199. The Instrument Comprises Of A Slump Cone With A Hopper, Specimen Container, A Transparent Plastic Plate Attached To A Graduated Rod, Mounted On A Vibrating Table And A Tamping Rod 16mm Dia X 600mm Long. The Vibrating Table Has Fixed Amplitude And Frequency Of Vibration, Imparted By A Motor Drive Mechanism.	1
35	Rebound Hammer	-	1
36	Angularity Number Test	-	1

	Departmen	nt Of Civil Engineering			
	Materials Testing-II				
	List Of Equipments				
S.No	Description Of The Machinery / Equipment Etc.,	Specification	Qty		
1	Таре	30m	1		
2	Spade	Spade	2		
3	Trowel	Trowel	5		
4	Pan	Pan	5		
5	Waste Cloth	Waste Cloth	1		
6	Lock	Lock	1		
7	Cutting Plier	Cutting Plier			
8	Screw Driver	Screw Driver (2x1)(Ta)	1		
9	Spanner	12x13 Die	2		

Department Of Civil Engineering

Surveying Laboratory

	List Of Equipments					
S.No	S.No Description Of The Machinery / Equipment Specification Qty Etc.,					
1	GPS	Hand held GPS Garmin E Trex 10 with manual	1			

		with manual						
	Department Of Mechanical Engineering							
	Engines Laboratory							
	List	Of Equipments						
S.No	Description Of The Machinery / Equipment Etc.,	Specification	Qty					
1	Open Cup Apparatus	-	2					
2	Closed Cup Apparatus	-	2					
3	Redwood Viscometer	-	2					
4	Saybolt Viscometer	-	2					
5	Two Stroke Petrol Engine Cut Section	-	2					
6	"Four Stroke Petrol Engine CutSection"	-	2					
7	"Four Stroke Diesel Engine Cut Section"	-	2					
8	Two Stroke Petrol Single Cylinder Engine	-	1					
9	Four Stroke Petrol Single Cylinder Engine	-	1					
10	Four Stroke Diesel Single Cylinder Engine	-	2					
11	Four Stroke Petrol Multi Cylinder Engine	Heat Balance Testand Morse Test Arrangement On Four Stroke Petrol Multi Cylinder Engine Hm Make,4 Cylinder,MpfiModel,Rope Brake Dynemometer	1					
	Four Stroke Petrol Multi Cylinder Engine	Heat Balance Testand Morse Test Arrangement On Four Stroke Petrol Multi Cylinder Engine Hm Make,4 Cylinder,MpfiModel,Rope Brake Dynamometer	1					
12	Air Compressor	Load Test On Air Compressor Elgi 2 Stage	1					

13	Stop Watch	Stop Watch Digital	8
14	Thermometer	Thermometer	2
15	Morse Test	Morse Test Arrangement On Four Stroke Diesel Multi Cylinder Cycle HM Make,4cylinder,Rope Brake Dynamometer	1

		Dynamometer				
	Department Of Mechanical Engineering					
	Fluid Me	echanics Laboratory				
	List	Of Equipments				
S.No	Description Of The Machinery / Equipment Etc.,	Specification	Qty			
1	Gunmetal Venturimeter	25mmsize,B Class Gl Pipe With Pressure Distribution Manifold,Fcv,ManometerKrilos ar 1/2hp Pump,SumpTanksize. 2000x500x300mm Collecting Tank Size 500x500x600 Mm	1			
2	Gunmetal Orificemeter	25mmsize,B Class Gl Pipe With Pressure Distribution Manifold,Flowcontrolvalve,Ma nometerKrilosar 1/2hp Pump,SumpTanksize. 2000x500x300mm Collecting Tank Size 500x500x600 Mm	1			
3	Eureka Flow Meter Rotometer	2-20,Ms Measuring Tank Size- 400x300x600mm Ms Sump Size 1500x300x30mm, 0.5 Hp Taxmo Motor	1			
4	Flowthrovgh Notches Apparatus	Rectangular NotchvNotch,Trapezoidal Notch, Hook Gauge With Vernier Gauge Arrangement,GearOperated,Kil oskar 1/2 Hp Pump,Sump Tank; 2000x500x300mm Collecting Tank;500x500x500mm Notch Tank;200x200x1500mm	1			
5	Mouthpiece Apparatus	Sump Tank 2000x500x300mm Collecting Tank 500x500x500mm	1			
6	Pipe Friction Apparatus	B Class Gi Pipe Of 15 And 20mm With Pressure Tapping At 2m Distance Pressure	1			

		Distribution Manifold 1m Length Manometer,Kirloskar 0.5hp Pump,Sump Tank	
		2000x500x300mm Collecting Tank 500x500x600mm	
7	Bernoulis Apparatus	0.5 Hp Pump,Sump Tank Size 2000x500x300mm Connecting Tank 500x500x600mm Stabilizing Tank Size 200x200x750mm	1
8	"Reciprocating Pump Testrig"	1x3/4 Double Acying Piston Pump,Kirloskar 1hb Motor,1440rpm,3 Phase Sump Tank Size 2000x500x300mm Collecting Tank 500x500x600mm L&T Starte Energy Meter	1
9	"Centrifugal Pump Test Rig"	Kirloskar Pump,1x1" Single Stage 1hb,B Class Pipes With Fittings Lining Sump Tank Size 2000x500x300mm Collecting Tank Size 500x500x600mm L&T Starter, Energy Meter	1
10	Flowing Through Orifice Meter	Orifice 10mm,12mm,15mm,Size Hook Gauge With Gear Arrangement Vernier Scale For X And YaxisMeasurement,Sump Tank Size 2000x500x300mm Collecting Tank Size 500x500x500mm Kirloskar	1
11	Kaplan Turbine Test Rig	1/2hp Pump Turbine Output 1hb Cast Iron Body,Cast Iron Break Drum Of 200mm With Water Cooling,Kirloskar Pump 2000lpm At 6m Heat,Tank Size; 1500x500x500mm Main Switch L&T Starter,And Energy Meter	1
12	Francis Turbine Test Rig	Turbine Output 1hb Cast Iron Body,Cast Iron Break Drum Of 200mm With Water Cooling,Kirloskar Pump 5hp 2880 Rpm 3 Phase Size 100x100mm With Discharge 750lpm At 15m Heat,Tank Size; 1500x500x500mm,Main Switch L&T Starter And Energy Meter	1
13	Pelton Turbine Test Rig	Turbine Outout 1hb, The Cups And Nozzle Made Gunmetal Casting,Cast Iron Break Drum	1

		Of 200mm With Water	
		Cooling,Kirloskar 5hb Pump	
		2880 Rpm 3 Phase Size 2	
		1/2x2 With Discharge 300	
		Lpm At 35m Heat,Tank Size	
		1500x500x500mm,Main	
		Switch L&T Starter And	
		Energy Meter	
		It Consists Of A Supply Tank Of	
		Mild Steel With Fiber Glass	
		Lining A Small Ss Vessel For	
	Fluidised Bed Apparatus	The Supply With Glass Bits	
14		Heights Of 1200 Rpm And	1
		50mm Dia With Plated Flanged	
		End Suitable Ms Stand To	
		Vertically Mount The	
		Unit,Mano Meter	
		It Consists Of Tube Of 65mm,	
		Inner Diameter And1200mm	
		Height Packed With Glass Ball	
	Flow Through Packed	With Plated Flanged End	
15	Bed	Suitable Ms Stand Vertically	1
	Beu	Mount The Unit 1" Water	
		Inlet/Outlet	
		Connection,Connected To	
		Manometer	
15	Flow Through Helical	_	1
13	Coil Apparatus	_	1

	Department Of Mechanical Engineering						
	Foundry Ar	nd Welding Laboratory					
	List	Of Equipments					
S.No	S.No Description Of The Machinery / Equipment Specification Qty Etc.,						
	Goggles	Goggle (Welding Safety Equipment)	5				
1			-				
		Suntech Goggles Black	6				
			-				
	Filler Rod	Filler Rod (Gas Welding Rod)	20				
2			-				
		Welspring Filler Rod 2.4mm	10				

				-
			Filler Rod	25
				7
			50×6 Mm M.S Plate	2
				-
				6
			50×3 Mm M.S Plate	5
	3	Work Piece (M.S Plate)		2
				12
			50×3 Mm M.S Plate	6
				8
			50×6 Mm M.S Plate	4
	4	4 Gas Welding Hose	Gas Welding Hose Red & Blue	20meter
			Gas Welding Hose Red & Blue	24meter
			Coolant Tube	5meter
	r	VAV-1 J: Cl-:-1 J	December 147-1 diese 14-1	5
	5	Welding Shield	Prenav Welding Helmet	4
			Gold Finger Leather Gloves 18 Inch	10
	6	Gloves		10
				8
			Weld Spring Chipping Hammer	6
	7	Chipping Hammer	Chi II	8
			Chipping Hammer-2	7
	0	Wolding Floated	Number 1 Welding Electrode	24
	8	Welding Electrode	10 - Sws Ms 6013	24

_		_	
			15
			11
9	Walding Ninnla	Nut Nipple Brass 8mm	-
9	Welding Nipple	8mm T Joint Nipple	-
10	Clamping Screw	Clamping Screw	10
11	Welding Base Plate	2×2 Feet Plate	4
12	Mr Tarah Matan	Wiper Tank Motors	1
12	Wiper Tank Motor	Wire Cup	-
12		C LAVILD : El	3
13	Flux Powder	Spark Weld Brazing Flux	2
		Craft Weld	2
14	Weld Lighter	Gas Lighter	1
		Gas Lighter	4
		Past Mi Leck	2
15	Battery	Battery Trvel Star	2
		Exide 12v, 7ams (M6g8m995440) Battery	1
16	Work Piece (50×3 Mm)	50×3 Mm M.S Plate	5
		27 (11 11 22)	15
17	Work Piece (25×6 Mm)	25×6 Mm M.S Plate	10
10			34.1kg
18	Sheet Metal (G.C. Sheet)	Sheet Metal (G.C Sheet)	29.1kg
		Riddle (Moulding Tools)	3
	5.17		3
19	19 Riddle	Riddle (Moulding Tools)	5
		Riddle	1
20	Strike Off Bar	Strike Off Bar (Moulding Tools)	13

	Otc, Strike Off Bar	-
	Brush (Moulding Tools)	8
Brush	Deita De ele	12
	Paint Brush	12
Develope	Bucket	2
Bucket	Bucket (Aluminium)	3
Moulding Table	Moulding Table	13
		2
Moulding Sand	Moulding Sand	4 Bags
		2 Bags
		4 Bags
		10
Slick	SHCK Z	10
	Slick	10
	Bucket Moulding Table Moulding Sand	Brush (Moulding Tools) Paint Brush Bucket Bucket Bucket (Aluminium) Moulding Table Moulding Sand Moulding Sand Slick 2

	Department Of Mechanical Engineering				
	Lat	he Laboratory			
	List	Of Equipments			
S.No	S.No Description Of The Machinery / Equipment Etc.,				
1	Spot Welding Machine	6kva	1		
2	Arc Welding Inverter	Orbit Welding Inverter 200 Amps	1		
3	Arc Welding Inverter	Orbit Welding Inverter 400 Amps	1		
4	Gas Welding Torch	"Pilot" Gas Welging Torch	1		
5	Gas Regulator	"Asha" Gas Regulator Oxygen, 1 Stage 2 Gauge	1		
6	Gas Regulator	''Asha'' Gas Regulator Acetylene, 1 Stage 2 Gauge	1		
7	Welding Table (Booth)		2		

8	Exhaust Fan		2
9	Gas Cutting Torch		1
10	O2 Cylinder	47 Lts Water Capacity Cylinder	2
11	Acetylene Cylinder	41 Lts Water Capacity Cylinder	2
12	Tig Welding Machine		
13	Mig Welding Machine		
14	Arc Welding Machine		
15	Profile Cutting Machine		
		Gear Wheel Pattern (Aluminium) (Solid Pattern)	2
		Step Cone Pulley (Aluminium), Solid Pattern	2
		Yoke Pattern (Aluminium)	1
16	Pattern	Bearing Top (Aluminium)	1
		Tumbles (Aluminium), Split Pattern	2
		Dove Tail (Loose Piece Pattern)	2
		Dove Tail (Loose Piece Pattern)	5
	Pattern Core	`Bend Pipe Pattern (Aluminum) Core Print	1
		T Pipe Pattern (Aluminium) Core Print	1
17		`Bend Pipe Pattern (Aluminum) Core Box	2
		T Pipe Pattern (Aluminium) Core Box	2
		Cylindrical Core Print With Core Box	1
10	Moulding Poy	Moulding Box (Moulding Tools)	13
18	Moulding Box	Moulding Box	2
		Rammer (Round)	13
10	Dommon	Rammer (Flat)	13
19	Rammer	Otc Rammer Square	2
		Otc Rammer Round	2
		11	•

20	Lifter	Lifter Moulding Tools	11
		Otc Lifter	2
		Trowel (Finishing And Square) Moulding Tools	26
21	Trowel	OtcTrovel	1
		Finishing Trowel	3
22	Draw Spike	Draw Spike (Moulding Tools)	13
22	Class al	Shovel Moulding Tools	3
23	Shovel	Tata Shovel	2
24	Vent Rod	Vent Rod (Moulding Tools)	13
		Otc Vent Rod	2
		Runner (Sprue Pin) Moulding Tools	13
25	Sprue Pin	Riser (Sprue Pin) Moulding Tools	13
		Otc Runner	4
26	Gate	Gate Moulding Tools	13
27	Split Pattern	Split Pattern (Tumbles)	5
28	T Core Pattern	T Pipe With Core Print And Core Box	6
29	L Core Pattern	L Bend With Core Print And Core Box	6
30	Solid Pattern	Solid Pattern (Stepped Pully)	5
-			

	Department Of Mechanical Engineering					
	Lathe Laboratory					
	List Of Equipments					
S.No	Description Of The Machinery / Equipment Etc.,	Specification	Qty			
1	Lathe Machine	Lathe Machine Bd 1340.440v/50hz/3ph/1.5kw	1			
2	Lathe Machine	Light Duty Lathe Machine Size 6'ft Cone Pulley With Center Height 165mm Distance B/W Center 1160mm .Bed	1			

		Widht240mm Spindle Bore 40mm.With Std.Accessories	
3	Lathe Machine	Central Lathe	1

Department Of Mechanical Engineering

Material Testing Laboratory

List Of Equipments

List Of Equipments			
S.No	Description Of The Machinery / Equipment Etc.,	Specification	Qty
1	Mechanical Extensometer	-	1
2	Double Shear Attachment	-	1
	Double Shear	-	1
3	Defletion Test Apparatus	-	2
4	Tersion Testing Machine	-	1
5	Rockwll Hardness Testing Machine	-	1
6	Brineii Hardness Testing Machine	-	1
7	Impact Testing Machine	-	1
8	Spring Testing Machine	-	1
9	Blains Air Permeability	-	2
10	Vicat Needle Apparatus	-	4
11	Metallurgical Microscope	-	5
	Metallurgical Microscope	-	1
12	Magnetic Particle Test	-	2
13	Weighing Balance -30 Kg	-	1
14	Universal Testing Machine	100 T	1
15	Belt Polishing Machine	-	1
16	Lapping Machine	-	1
17	Lpt-Set Die, Penetrant,Developer	-	4

	Lpt-Set Die, Penetrant,Developer	-	3
18	Compression Testing Machine	3000 Kn	1
19	Flexural Testing Machine		1
20	Laser Stainless Steel	300*25*1.0mm	5
20	Ruler	1000*35*1.5mm	2
21	Racer Stop Watch Digital	1/100 See	5
22	Kency Vernier Caliper	150 Mm 0.05lc	2
23	Screw Drivers		2
24	Electric Hand Cutting Machine	D 28730-In355mm 2300w Chop Saw	1

Department Of Mechanical Engineering						
	Measurements And Metrolgy laboratory					
	List	Of Equipments				
S.No	Description Of The Machinery / Equipment Etc.,	Specification	Qty			
1	Laser Stainless Steei Rule	300*25*1.0mm	11			
2	Laser Surface Gauge Adjustable Base 12	Base 12	2			
3	Laser Sine Bar 12	Bar 12	2			
4	Laser Sine Bar 6	Bar 6	2			
5	Laser Straight Edge 18	Edge 18	2			
6	Laser Try Square 6	Square 6	5			
7	Kency Vernier Calliper	150mm 0.02lc	10			
8	Kency Inside Micrometer	5-30mm	1			
9	Kency Inside Micrometer	25-50mm	2			
10	Kency Inside Micrometer	50-150mm	2			
11	Kency Outside Micrometer	0-25mm	5			
12	Kency Height Gauge	300mm	1			

	Agragage /Delr /China		
13	Aerospace /Rsk /China Bevel Protector	-	4
14	Aerospace /Rsk /China Gear Tooth Vernier Caliper	1-26mm	3
15	Kency Slip Gauge Set	112-2pcs	2
16	Kency Screw Thread Micrometer	0.25mm- 0.01lc	2
17	Kency Digital Micrometer	0.25mm- 0.01lc	3
18	Kency Digital Vernier Caliper	0-150mm	3
19	Kency Depth Vernier Caliper	150mm	2
20	Kency Dial Vernier Caliper	150mm-0.02lc	2
	Allen Screw Set (Metric)	-	2
21	Allen Screw Set (Metric)	-	3
	Allen Screw Set (Inch)	-	2
22	Screw Drivers	-	1
22	Screw Drivers Set	-	3
23	Mounting Machine	1	2
24	Ayumil Comparator Stand Granit	-	2
25	Kency Dial Gaugemagnatic Stand	-	5
26	Spanner (Double End)	-	1
20	Spanner (Double Enu)	-	3
27	Allen Screw Sets (Metnic)	-	1
28	Hammer	1	3
29	Laser Surface Gauge Adjectable Base 12	Base 12	5
30	Laser Try Square	-	5
31	Thesmometer	300 C	2
32	Capacitance Transducer Water Level Trainer Kit	-	2
33	Muitimeter	-	2

34	Plain Gauge	5bore Lmm 5 Thread	1
35	Load Cell Instruments And Ment Setup	-	2
36	Test Mandral With Tarer&Shank	12"	2
37	Test Mandral With Tarer&Shank	-	1
38	Test Mandrel Without Taner&Shank	Both End	1
39	Squares	2.4*11cm	5
40	Straight Edge	12"	5
41	Kency Spnit Level	0-150mm	4
42	Digital Inside Mierometer	5-30mm	1

Department Of Mechanical Engineering						
	PAP & CAD/CAM laboratory					
	List	Of Equipments				
S.No	Description Of The Machinery / Equipment Etc.,	Specification	Qty			
1	Process Automation PneematicTraines Kit	1.Double Acting Cylinders = 2nos 2.Single Acting Cylinders =1nos 3.Push Button =1nos 4.Automatic Push Button =1nos 5.Solenoid Value = 2nos 6. 3/2dcv =2nos 7.4/2dcv =2nos 8.4/3dcv =2nos 9.5/2 Pilot Opelated Valves =2nos 10. Plc Trainer Kit =1nos 11.Stepper Motor With Setup =1 Nos 12. Frl Unit =1nos 13. Plc Software 14. Sliding Value =1 Nos 15.Limit Switch =2nos 16. Connecting Hose And Wires 17. Smps Controller =1nos	2			
2	Cnc Trainer Lathe Machine With P.C With Mach3 Software	1.Swing Over Bed = 120 Mm 2.Distance Between Centers = 160 Mm	1			

		3.Hole Through Spindle = 10 Mm 4.Overall (L X B X H) = 700 X 190 X 190	
3	Cnc Trainer Milling Machine With Adtech Controller	1.X - Axis Traverse = 300 Mm 2.Y - Axis Traverse = 150 Mm 3.Z - Axis Traverse = 200 Mm	1

3	Machine With Adtech Controller	2.Y - Axis Traverse = 300 Mm 2.Y - Axis Traverse = 150 Mm 3.Z - Axis Traverse = 200 Mm	1				
Department Of Mechanical Engineering							
	Special Machines Laboratory						
	List	Of Equipments					
S.No	Description Of The Machinery / Equipment Etc.,	Specification	Qty				
1	VeriticalMlling Machine	Satluj 'Veritical Milling Machine (1 Hp Moter)	2				
2	Universal Milling Machine With Indexing Head	Satluj ' Universal Milling Machine (1 Hp Moter)	2				
3	Bench Grinding Machine	02 Nos , Double Ended	2				
4	Hydraulic Power Hack Saw	8' Cutting Capacity, Electricals, Moter	1				
5	Surface Grinding Machine	Bhurji' Make Bj -914 Ot Model Surface Grinding Machine	1				
6	Cylinderical Grinding Machine	Devco8 Model Cylindrical (310) Mm ,Height Center 102 Mm	1				
7	Tool And Cutter Grinding Machine	Mitter' Make Mtcg101 Model Tool And Cutter Grinder	1				
8	Milling Arbor	18" Long Arbor	1				
9	Drilling Machine	25 Mm Cap	1				
10	Radial Drilling Machine	40 Mm R40 G	1				
11	Pillar Drilling Machine	Heary Duty With Fine Feed	2				
12	Shapping Machine	18" Cap All Geared Feed Shapping 18" Size All All Geared Heavy	1				
		Duty	1				
13	Planer Machine	Fl, Mc Saw 4*2*5*2 1/2 Cap	1				
14	Slotting Machine	With Electricals	`1				
1	Stoteing Machine	10"Size With Rotary Tabile	1				

15	Steel Rule	Steel Ruler 300*25*1.0 Mm	4
1.6	Vernier Caliper	150 Mm 0.02 Lc	4
16	Digital Vernier Caliper	151 Mm 0.01 Lc	1
17	Micrometer	0.25 Mm 0.01 Lc	1
18	Digital Micrometer	0.25mm 0.001 Lc	1
19	Universal Vice	Unique/ Blasce Hawk Universal Machine Vice 4	1
20	Box Spanner	10 To 32 Mm	3
21	Hand Drilling Machine	10 Mm Electric	2

	Department Of Automobile Engineering			
	Machines & I	Equipments Laboratory		
	List	of equipments		
S.No	Description Of The Machinery / Equipment Etc.,	Specification	Qty	
1	Lead Acid Battery 12V	-	4	
2	Battery Load Tester	-	2	
3	Buck Converter	-	2	
4	Battery Charger Unit	-	2	
5	Inverter Trainer Kit Dc To Ac	-	1	
6	BLDC Motor Control Trainer Kit	-	1	
7	Wiring Harness For Two- Wheeler Accessories Test Kit	-	1	
8	E-Bicycle With Wiring Harness Trainer Kit	-	1	
9	E-Bike Kit	-	2	
10	E- Rickshaw Kit	-	1	
11	500 W, 48 V BLDC Motor With Differential Arrangement	-	1	
12	Continuity Tester	-	1	

13	Line Tester	-	1
14	Multi Tester	-	1
15	Hydrometer	-	1
16	Screw Drive Set	-	1
17	Spanners Set	-	1
18	Work Tables	-	4

Department Of Automobile Engineering

Automobile Laboratory

List of equipments

S.No	Description Of The Machinery / Equipment Etc.,	Specification	Qty
1	Front Axle With Steering Mechanism (Different Type)		
2	Streeing Gear Box (Different Model)	-	2
3	Hydrometer Battery Testing	-	1
4	Hydraulic Brake System Layout	-	1
5	Ignition Circuit Layout (Distributer, Contact Breaker ,Spark Plug)	-	1
6	Dynamo	-	3
7	Regulater	-	2
8	Head Lamp Alignment Layout & Horn With Wiring System	-	1
9	Wiper Motor With Wiring System	-	2
10	Synchrnomesh Gear Box Cut Section	-	1
11	Van Chassis	-	1
12	Su Electrical Pump	-	1
13	Su Carboretor	-	2

14	Two Wheeler Wheel Assembly ,Chassis	-	1
15	Cut Section Of MultyCylider Engine	-	1
16	Single Cylinder Four	-	1
17	Stroke Petrol Engine Single Cylinder Four		1
17	Stroke Diesel Engine	-	1
18	Four Cylinder Four Stroke Diesel Engine	-	2
19	Two Stroke Petrol Engine	-	1
20	Ac Fuel Pump	-	1
21	SolexCarburator	-	2
22	Maruthi Carburetor	-	2
23	Diesel Tank, Pipe Line, Fuel Injection Pump & Injector Layout	-	1
24	Lift Fuel Pump	-	2
25	Injector (Single Hole, Multi Hole, Pintle &Pintaux Nozzle	-	2
26	Fuel Injection Pump (4 Cylinder)	-	1
27	Distributor Pump	-	2
28	Vacuum Gauge	-	1
29	Starting Motor	-	2
30	Alternator	-	2
31	Clutch Plate, Presure Plate & Clutch Fixer Assembly	-	2
32	Sliding Mesh Gear Box	-	1
33	Constant Mesh Gear Box	-	1
34	Synchrnomesh Gear Box	-	1
35	Epicyclic Gear Box	-	1
36	Rzeppa Universal Joint	-	2
37	Pendix Weiss Universal Joints	-	2

	38	Real Axle (Different Type)	-	2
	39	Power Steering Mechanism	-	1
	40	Shock Absorber (Different Type)	-	4
	41	Differential Unit	-	1
	42	Auto Rick Saw Chassis With Lighting	-	1
	43	Battery Charger	-	1
	44	Bore Dial Gauge (35mm- 50mm) - 3, (50mm- 160mm) - 2	-	5
	45	Power Steering With Motor	-	1
	46	Hydraulic Brake System	-	1
	47	Valcanzing Machine (Electrical Type)	-	1
	48	Constant Mesh Gear Box	-	1
	49	Differential Unit With Axles	-	1
	50	Valve Seat Cutting Tool With Handle	-	1
	51	Valve Lapping Tool With Lapping Paste	-	1
	52	4 Stroke Diesel Engine Cut Model To Do Port Timing	-	1
	53	2 Stroke Petrol Engine Cut Model To Do Port Timing Diagram	-	1
	54	Two Wheeler Disc Brake Assembly	-	1
	55	Magneto Coil Ignition System	-	1
	56	General Electrical System In An Automobile	-	1
	57	Two Wheeler Chassis (With Running Condition) Rx100	-	1
	58	S.U Electrical Pump	-	1
	59	Welding Machine	-	1
	60	Exhaust Gas Analyser	-	1
	61	Diesel Smoke Meter	-	1

62	Divide 1 Classic		1
62	Digital Bomb Calorimeter	-	1
63	Cylider Reboring Machine	-	1
64	Cylider Honing Machine	-	1
65	Line Boring Machine (Hand Operated)	-	1
66	Valve Refacing Machine	-	1
67	Wheel Balancer	-	2
68	Timing Light	-	1
69	Auto Rickshaw (Bajaj)	-	1
70	Crdi Unit With Stand	-	1
71	Common Rail With Pressure Switch	-	2
72	Mpfi Unit With Stand	-	1
73	Wheel Alignment Kit Mechanical Type	-	1
74	Wheel Alignment Kit Computer Type	-	1
75	Maruthi Car 800	-	1
76	Nozzle Tester (Heavy Duty)	-	1
77	Compression Tester Petrol (0.21kg)	-	1
78	Compression Tester Diesel (0.21kg)	-	1
79	Chain Pulley Block	-	1
80	Trolley Jack - Hydraulic (3 Ton)	-	1
81	Pallet - Truck (2 Ton)	-	1
82	Orsat Gas Apparatus With Wood	-	1

Department Of Electronics And Communication Engineering				
Electronics Laboratory				
List Of Equipments				
S.No	Description Of The Machinery / Equipment Etc.,	Specification	Qty	

1	Cro	(0-30mhz)	15
2	Digital Ic Tester	-	2
3	Ammeter	(0-500 μa)	10
4	Signal Generator	(0-2mhz)	15
5	Dc Power Supply (Single Ended O/P)	(0-30v)	15
6	Dc Power Supply (Double Ended O/P)	(0-30v)	12
7	Digital Electronics Trainer Kit	-	10
8	Decade Inductance Box	-	8
9	Decade Resistance Box	-	8
10	Decade Capacitance Box	-	8
11	Ammeter	(0-100 μa)	10
12	Ammeter	(0-1 Ma)	10
13	Ammeter	(0-10 Ma)	10
14	Ammeter	(0-15 Ma)	10
15	Ammeter	(0-30 Ma)	10
16	Ammeter	(0-50 Ma)	10
17	Ammeter	(0-100 Ma)	10
18	Voltmeter	(0-1v)	10
19	Voltmeter	(0-10v)	10
20	Voltmeter	(0-15v)	10
21	Voltmeter	(0-30v)	10
22	Voltmeter	(0-50v)	10
23	Voltmeter	(0-100v)	10
24	Transformer	230v/ 6v	10
25	Transformer	230v/ 12v	10
26	Single Ended Probe	-	30

27	Double Ended Probe	-	12
28	Patch Chords For Trainer Kit	-	200
29	Amplitude Modulator Trainer Kit	-	1
30	Fm Trainer Kit	-	1
31	Pam Trainer Kit	<u>-</u>	1
32	Solar Cell	12v/5wp	5
33	Analog Ic Tester	Model: Ict20	2
34	Digital Multimeter	Model: M3900	5
35	Power Supply High Voltage(0-300v)Dc	(M-2016-219)	1
36	Digital Voltmeter	(M-2016-220)	1
37	Transformer	230v/6v	10
38	Single Ended Probe	-	10
39	Digital Multimeter	-	2

	Department Of Electronics And Communication Engineering				
	Communic	ation Lab Laboratory			
	List	Of Equipments			
S.No Description Of The Machinery / Equipment Etc., Openition Of The Openition Open					
1	Super Heterodyne Receiver	-	1		
2	Fm Transmitter And Receiver Circuit	-	1		
3	PPM Generation And Detection	-	1		
4	PLL Oscillator	-	1		
5	Symmetrical T & Pi Attenuators	-	1		
6	Constant K Active And Passive LPF & HPF	-	1		
7	PSK Modulation And Demoudulation	-	1		
8	Fiber Optic Digital Link Voft-01b	-	1		

9	Fiber Optic Digital Link Analog Transmitter And Receiver	-	1
10	TDM Of Signals	-	1
11	FSK Transmitter And Receiver	-	1
12	Ask Modulation	-	1
13	PWM Modulation	-	1
14	Tranistor Video Amplifier	-	1
15	Sync Separator Circuit	-	1
16	Sample And Hold Circuit	-	1
17	TV Trainer Kit	-	1
18	Stepper & Dc Motor Interface	-	1
19	Traffic Lightb Control And Interfacing System	-	1
20	Arm Development Board	-	10
21	Stepper Motor Interface System	-	1
22	Microcontroller Kit	-	15
23	Digital I/O Interface	-	5
24	Key Board Interface	-	5
25	Seven Segment Display Interface	-	5
26	Traffic Light Interface	-	5
27	8 Bit ADC Interface	-	5
28	8 Bit DAC Interface	-	5
29	Stepperb Motor Interface	-	5
30	Dc Motor Interface	-	5
31	Rs 232 Serial Interface Cable	-	5
32	Amplitude Modulator Trainer Kit	-	1
33	Frquency Modulator Trainer Kit	-	1

34	Pulse Amplitude Modulation Trainer Kit	-	1
35	Pulse Code Modulation & Demodulation Kit	-	1
36	Led &Photodoide Characteristics	-	1
37	Manchester Encoder & Decoder	-	1
38	DTH System	-	1
39	Three Way Cross Ovar Network	-	1
40	FPGA Trainer With Parallel Port	-	10
41	Traffic Light Interface	-	1
42	Stepper Motor Interface	-	1
43	Dc Motor Interface	-	1
44	Analog Voice Link With Telephone Head Set	-	1
45	Key Board (Mc Lab)	-	3
46	VLSI Cable (VLSI Lab)	-	5
47	Fiber Optic Digital Link ,Losses, Analog Tranismitter And Reciver	-	1
48	Arm Development Board	-	10
49	DTH System	-	1

	Department Of Electrical And Electronics Engineering				
	Electrical MachinesLaboratory				
	List Of Equipments				
S.No	Description Of The Machinery / Equipment Etc.,	Specification	Qty		
1	Ac Ammeter	(0-10a),10/20a	22		
2	3 Hp Shunt Motor Coupled With 1ph 2 Kva Alternator	<u>Dc Motor:</u> 3 Hp,220v,12a, 1500 Rpm Excitation 220 V,0.6 A <u>Generator:</u> 2 Kva,230v,8.7a,	1		

		1500 Rpm Excitation 220 V,0.5 A	
3	Ac Voltmeter	0-600v	14
4	Transformer Oiltest Kit	60 Kw,230v ,50hz,1φ	1
5	Thermal Over Load Kit	-	1
6	Jogging In Squirrel Cage Motor Kit	-	1
7	Rotor Resistance Starter Kit	-	1
8	Speedcontrol Of Dc Motor Kit Using Scr	-	1
9	Rheostat	360Ω / 1.2a	5
10	Bobbin	3ph 6 Step	1
11	Bobbin	5 Step Al	1
12	Coil Winding Machine	-	4
13	Motor Coil Winding Machine	-	2
14	Motor Body	5 Hp	1
15	Motor Body	1/2 Hp	1
16	Ceiling Fan Body	-	1
17	Acidity Test Kit	-	1
18	Semi Automatic Star Delta Starter Kit	-	1
19	Automatic Star Delta Starter Kit	-	1
20	Dynamic Braking Kit	-	1
21	Two Speed Pole Changing Motor With Kit	-	1
22	Single Phase Preventer Kit	-	1
23	Dol Starter Kit Using Plc	-	1
24	Star Delta Starter Kit Using Plc	-	1
25	Forward And Reverse Jogging Kit Using Plc	-	1
26	Single Phase Preventer Kit Using Plc	-	1

27	Plc Trainer Kit	-	4
28	D.C Rectifier	<u>Input</u> Ac ,3φ,440 V <u>Output</u> Dc, 230 V,100a	1
29	Dc Series Motor With Loading Arrangement(Benn)	3hp, 230 V,12 A, 1500 Rpm	1
30	Dc Shunt Motor With Loading Arrangement(Benn)	3hp, 230 V,12 A, 1500 Rpm	2
31	Dc Compound Motor With Loading Arrangement(Benn)	3hp, 230 V,12 A, 1500 Rpm	1
32	Dc Series Generator Coupled With Dc Shunt Motor(Benn)	Dc Motor: 5hp,230v,10a, 1500 Rpm Excitation 120 V,0.7 A Generator: 2.2 Kw,230v,10a, 1500 Rpm Excitation 120 V,0.7 A	1
33	Dc Shunt Generator Coupled With Dc Shunt Motor(Benn)	<u>Dc Motor:</u> 3 Hp,220v,12a, 1500 Rpm Excitation 140 V,0.8 A <u>Generator:</u> 2 Kva,230v,8.7a, 1500 Rpm Excitation 150 V,1.1 A	1
34	Dc Coumpound Generator Coupled With Dc Shunt Motor(Benn)	Dc Motor: 3 Hp,220v,12a, 1500 Rpm Excitation 140 V,0.85 A Generator: 2 Kva,230v,8.7a, 1500 Rpm Excitation 140 V,0.9 A	1
35	3ø Alternator Coupled With Dc Shunt Motor(Benn)	<u>Dc Motor:</u> 5 Hp,230v,19a, 1500 Rpm Excitation 135 V,0.8 A <u>Generator:</u> 3 Kva,400v,4.3a, 1500 Rpm	2

		Excitation 130 V,0.9 A	
36	3ø Synchronous Motor With Loading Arrangement(Benn)	3 Hp,400 V,4 A, 1500 Rpm Excitation 110 V,0.5 A,Upf	1
37	3ø Slipring Induction Motor With Loading Arrangement(Benn)	5 Hp,400v, 7.4a,1440 Rpm	1
38	3ø Sq. Cage Induction Motor With Loading Arrangement(Benn)	5 Hp,400v, 7.4a,1440 Rpm	3
39	1ø Induction Motor With Loading Arrangement (Capacitor Start)	1.5 Hp,230 V, 1440 Rpm	1
40	1ø Induction Motor With Loading Arrangement (Capacitor Start & Run)(Benn)	1.5 Hp,230 V, 1440 Rpm	1
41	1ø Transformer	1 Kva,230 V,4.3 A	5
42	3ø Transformer	3 Kva,400/230 V, 4.3/7.4 A	3
43	1ø Auto-Transformer	300 V,50 Hz	5
44	3ø Auto-Transformer	415 V,15 A,50 Hz	5
45	Voltmeter Ac	(0-150,300v) (Meco)	5
46	Voltmeter	Dc (0-1v)	10
47	Voltmeter	Dc (0-15v)	10
48	Voltmeter	Dc (0-30v)	10
49	Voltmeter	Dc (0-50v)	10
50	Voltmeter	Dc (0-300v)	10
51	Ammeter	Ac(0-1a/2a) (Meco)	10
52	Ammeter	Ac (0-5a) (Meco)	5
53	Ammeter	Dc (0-10ma)	10
54	Ammeter	Dc (0-25ma)	10
55	Ammeter	Dc (0-50ma)	5
56	Ammeter	Dc (0-100ma)	10

57	Ammeter	Dc (0-500ma)	5
58	Wattmeter	Lpf (Meco)	10
59	Wattmeter	Upf (Meco)	15
60	Multimeter(1mhz)	Digital	6
61	Tachometer	Analog	5
62	Tachometer	Digital	3
63	Single Phase Energymeter	10a/250v	1
64	Three Phase Energymeter	4w,440v	1
65	Galvanometer	0-30v	2
66	1ø Loading Arrangment	Resistive 3 Kw,230 V,13 A	4
67	3ø Loading Arrangment	Resistive 3 Kw,440 V, 7 A	4
68	Rheostat	360 Ohms/1.2a	10
69	Rheostat	100 Ohms/2a	5
70	Dol Starter	3 Нр	3
71	Star Delta Starter	Manual	3
72	Star Delta Starter	Semi Auto	2
73	Rotor Resistance Starter	3 Phase ,5 Hp	1
74	2- Point Starter	5 Hp,230 V,19 A	2
75	4- Point Starter	6 Hp,230 V,19 A	2
76	Dpst Switch	32 A	10
77	Spst Switch	32 A	5
78	Tpst Switch	32 A	10
79	Parallel Operation Kit(Dark Lamp, Bright Lamp & Synchroscope)	-	1
80	Ammeter	Dc 0-1/2a (Meco)	4
81	Ammeter	Dc 0-10/20a (Meco)	9

82	Ammeter	Dc 0-15/30a (Meco)	2
83	Capacitive Load	3 Phase ,10a,400v,50hz	1
84	Rotor Resistance Starter	-	1
85	Neon Lamp	-	1
86	Rheostat Wire Wound	2070 Ohm/1a	5
87	Single Element Upf Wattmeter	250v,15a	3
88	Single Element Upf Wattmeter	150v,15a	2
89	Safety Helmet	-	2
90	Air Filter	-	2
91	Heapro Safety Belt	-	1
92	Rubber Gloves	-	2
93	Goggles	-	1
94	Ear Plug	-	1
95	Safety Belt	-	1
96	Mixier Grinder	750 W,230 V,50 Hz	2
97	Wet Grinder	230 V,50 Hz	2
98	Inverter	-	2
99	Solar Panel	-	2
100	Charge Controller	-	2
101	Battery 12v	-	1
102	Induction Stove	-	2
103	Iron Box	-	1
104	Miceowave Oven	1350 W,230 V,50 Hz	1
105	Sequential Operation Of Solinoid Value	-	1
106	Sq. Cage Induction Motor With Out Capacitor Run Type	0.5 Hp,1ø, 230 V,50 Hz, 1440 Rpm	1

107	Winding Study Motor	2 Hp,1ø, 230 V,50 Hz, 1440 Rpm	1
108	Control Circuit For Forward,Reverse,JoggFor ward,Jogg Reverse Using Plc	-	1

Department Of Electrical And Electronics Engineering Wiring And WindingLaboratory **List Of Equipments Description Of The** S.No **Specification** Qty Machinery / Equipment Etc., 1 LCR Meter 1 2 Load Cell Trainer Module 1 3 Anderson Bridge 2 3 Plc Trainerkit 4 5 Lift Control 1 **Conveyor Control** 1 6 7 Series Inverter 1 8 Dc Chopper Trainer 1 9 1 Dc -Dc Buck Converter 10 **SCR Phase Control Circuit** 1 1 11 **PWM Inverter** 12 SCR Based Dc Chopper Trainer 1 13 Earth Tester Kit 1 14 UJT Firing Module With SCR 1 Ac Phase Control Using DIAC& 15 1 TRIAC 16 Dc-Dc Push Pull Inverter 1 17 Cycloconverter 1 Dc Motor Speed Control 18 1 Trainer

19	Three Phase SCR Half Controlled Converter	-	1
20	Three Phase SCR Fully Controlled Converter	-	1
21	Speed Control Circuit For Universal Motor	-	1
22	Closed Loop Control Of Ac	_	1
23	Induction Motor Dc Motor Speed Control Trainer Classed Learner	-	1
24	Trainer Closed Loop Construction And Testing Of	-	1
25	Stepper Motor Construction And Testing Of Servo Motor	-	1
26	Testing Of Relay,Contactor,Push Button And Limitswitch	-	1
27	Testing Of Led,Laser Diode And Seven Segment Diplay	-	1
28	Dc Power Supply	(0- 30v)/2a	6
29	Decade Resistance Box	-	10
30	Decade Inductance Box	-	10
31	Decade Capacitance Box	-	10
32	Fixed Power Supply	+ -5v	5
33	Wheastone Bridge Trainerkit	-	2
34	Schering Bridge	-	2
35	Thermocouple And Trainer Kit	-	1
36	LVDT Trainer	-	1
37	RLC Series Resonance Trainer	-	1
38	MOSFET Based Step Up And Step Down Chopper	-	1
39	Strain Gauge	-	1
40	Thermistor	-	1
41	Stepper Motor And Servo Motor Drive Kit	-	1
42	Single Phase Parallel Inverter	-	1
43	Single Phase Fully Controlled		1

	Department Of Petrochemical Engineering					
	Heat Transfer Lab					
	List Of Eq	uipments				
S.No	Description Of The Machinery / Equipment Etc.,	Specification	Qty			
1	Thermal Conductivity of Metal Bar	-	1			
2	Heat loss in pipes	-	1			
3	Double Pipe Heat Exchanger by co-current Flow	-	1			
4	Double Pipe Heat Exchanger by counter-current Flow	-	1			
5	Emissivity apparatus	-	1			
6	Stefan Boltzmann apparatus	-	1			
7	Horizontal Condenser	-	1			
8	Forced Convection Heat Transfer	-	1			
9	Natural convection	-	1			
10	Vertical condenser	-	1			

	Department Of Petrochemical Engineering					
Mass Transfer Lab						
	List Of Equipments					
S.No	Description Of The Machinery / Equipment Etc.,	Specification	Qty			
1	Simple Distillation	-	1			
2	Vapour- Liquid Equilibrium	-	1			

3	Steam Distillation	-	1
4	Liquid-Liquid Extraction	-	1
5	Soxhlet Extraction	-	1
6	Tray Drier	-	1
7	Crystallization by Cooling	-	1
8	Crystallization by Evaporation	-	1
9	Decolourization by Adsorption	-	1
10	Diffusivity Measurements	-	1

	Department Of Petrochemical Engineering					
	Mechanical Operations Lab					
	List Of Eq	uipments				
S.No	Description Of The Machinery / Equipment Etc.,	Specification	Qty			
1	Stoke's Law of Settling	-	1			
2	Industrial Mixer	-	1			
3	Leaf filter	-	1			
4	Sieve Analysis	-	1			
5	Jaw Crusher	-	1			
6	Roller crusher	-	1			
7	Ball mill	-	1			
8	Filter press (Plate and Frame)	-	1			
9	Cyclone Separator	-	1			

Department Of Petrochemical Engineering

Distillate Testing Lab - I

List Of Equipments

S.No	Description Of The Machinery / Equipment Etc.,	Specification	Qty
1	Aniline point apparatus	-	1
2	A.S.T.M Distillation apparatus	-	1
3	Smoke point apparatus	-	1
4	Drop point apparatus	-	1
5	Centrifuge apparatus -		1
6	Melting point apparatus	-	1
7	Ring & ball apparatus	-	1

Department Of Petrochemical Engineering

Process Instrumentation And Control Lab

List Of Equipments

S.No	Description Of The Machinery / Equipment Etc.,	Specification	Qty
1	Temperature Sensors Like Thermocouple, RTD And Thermocouple	-	1
2	Strain Gauge Type Pressure Transducer	-	1
3	Bourdon Pressure Transducer	-	1

4	P/I And I/P Converter	-	1
5	Differential Pressure Transmitter	-	1
6	Pneumatic Control Valve (Linear, Equal % And Quick Opening) Set Up	-	1
7	Temperature Control Trainer Kit With SCADA Or Analog	-	1
8	Liquid Level Control Trainer Kit With SCADA Or Analog	-	1
9	Pressure Control Trainer Kit With SCADA Or Analog	-	1
10	Thermistor Characterstics Trainer Kit	-	1

Department Of Petrochemical Engineering					
	Distillate Testing Lab - II				
	List Of Equipments				
S.No	Description Of The Machinery / Equipment Etc.,	Specification	Qty		
1	Copper Corrosion test	-	1		
2	Say bolt color test	-	1		
3	Reid vapor Pressure	-	1		
4	Refractive Index	-	1		
5	Carbon residue by Conradson method	-	1		
6	Carbon residue by Rams bottom method	-	1		
7	Sediments by extraction	-	1		

8	Kinematic Viscosity	-	1
9	Penetration number	-	1

Department Of Computer Engineering Computer Laboratory List Of Equipments Description Of The S.No **Specification** Qty Machinery / Equipment Etc., Intel 945gc Chipset,2gb Ddr2 Ram,16gb Sata Hard Disk.17"Wide Tet 1 Zenith Computer System 66 Monitor, Keyboard And Ps2 Optical Mouse. Intel Core 2quad 2.33ghz,2gb Ram,320gb 2 **Acer Power System** 1 Hard Disk,20"tet Monitor. Intel 2.6ghz Processor,2gb Ram, 160gb Hard 2 Disk, 19'lnch Monitor, Keyboard And Mouse. 17 Intel Cpu 3rdgen,8gb Ram.256 Assemble System 3 Ssd,IntelFan,Bluetooth,H save Cabinet With 1 Smbs, Mother Board, VgaC able,PowerCable,Keyboa rd, Mouse, Lenovo Monitor Desktop PC from Pride 8 systems Intel P4 .4processor,40gb Hard Disk,1gb 4 Lenovo Seconds System Ram,LanCard,ParallelCar 7 d.Kev Board, Mouse, 15'hp Crt Monitor. Ibm Net Vista Branded Pc Intel P4 Processor, Intel 845 5 **IBM Seconds System** Mother Board, 1gbddr 13 Ram,40gb Hard Disk,15'ibm CrtMonitor, Keyboard

			And Mouse.	
	6	Lenovo System	Lenovo I3 Processor, 2gb Ram, 500gb Hard Disk, 18.5' Inches Lenovo Monitor, Key Board And Mouse.	75
			Lenovo Tower i3 processor,4gb RAM,500gb HDD, Lenovo Keyboard & Mouse	50
	7	Hp Laptop	Hp Laptop Corporate Series Core Duo1.8/2.0ghz,320gb Hard Disk, Ram 2gb, Wifi,Webcam,Dvd Writer.	2
	8	Server	Ibm X3200 M3 Server Intel Xeon Processor 2.4hz, 2gb Ddr3 1333mhz Ecc Ram, 300gb 15krpm Sas Harddisk, Raid 01 Builtin, 18.5' Tet Monitor, Keyboard And Mouse.	2
	9		20.0kva Online Ups	1
	10	UPS	Micro Best Power Ctrl System(1.0kva)	1
	11		Web 500va Special Ups	1
	12		1.0kva Online Ups System 1ph To 1ph 36vdc	1
	13		1.0kva Online Ups System 1ph To 1ph 24vdc	1
	14		Numeric 5kva Ups System With Dc Power Rack	1
	15		10.0kva Ups System	1
	16		5.0kva Online Ups System	1
	17		5.0kva Online Ups System	1
	18	Battery	Bit 40 Base Tubular Battery 12v/40ah	5
	19	Buttery	Bsttery Exide 6el 75	10

20		Bsttery Exide 6el 75	30
21		Cannon Lbp2900 Laser Printer	2
22		Wipro Ex330+Dx Dot Matrix Printer	1
23	Duinton	Cannon Lbp2900 Laser Printer	1
24	Printer	Hp Laserjet M1005mfp	1
25	Hp Laserjet 1020 Plus	1	
26		Cannon Lbp2900 Laser Printer	3
27		Wep Ex300+Dx Dot Matrix	1
28	28 Printer 29	Hp Laserjet 1020 Plus	2
29		Hp Laserjet 1020 Plus	3
30		Epson L200 Color Printer	1
31	Toner	H12a Toner	1
32		Hp Scanjet G3110 Photo Scanner	1
33	Scanner	Datalogic Magellan M3410-2dscanner	1
34		Epson Dc 870	1
35	Cabinet	Assembled Cabinet	2
36	Graphics Card	Nvidia Geforce 1gb Ddr3 Zotac Graphics Card	75
37	Monitor	Lenova 22	5
38	Modam	Alcatel Usb Modam	1
39	Dlink Switch	Dlink 24port Gigabyte Switch	4
40	Power Manager	Rack Power Manager	1
41	Cable Manager	Rack Cable Manager	2
42	Patch Panel	24 Port Cat6 Patch Panel	4
43	Dlink Switch	Dlink 8port Gigabyte Switch	4
44	Dlink Switch	Dlink 16port Gigabyte Switch	2

45	Outlet Box	Cat6 Information Outlet Box	89
46	Dlink Switch	Dlink 8port 10/100 Normal Switch	2
47	Rack	Rack	1
48		Lg UsbDvd Writer(External)	1
49		Smart Style Pc Dvd Writer	2
50	DVD Writer	Lg Dvd Writer	5
51	DVD WIIter	Ide Dvd Writer	2
52		Sony Blueray Disk	2
53		Trancend External Dvd Writer	3
54	Head Phone	Zebronics Head Phone With Microphone	10
55		Apnet Headphone	10
56	Web Camera	Web Camera	1
57		Live Tech Webcamera	1
58		FingureWebcamera 1080	9
59	Tools Box	Screw Driver	7
51		500gb Sata Hard Disk	1
52	Hard Disk Internal & External	300gb 15krpm Sas Hard Disk	2
53	Trait Disk internal & External	Wd 500gb Hard Disk	1
54		500gb Toshiba Hard Disk	1
55	Digital Camera	Sony Digital Camera	1
56	Digital Gaillera	Canon Digital Camera	1
57	Projector	Hansa Cine Equipment Sony	1
58	Projector	Image Icon Sony Projector	2
59	Projector	Epson Projector Eb-E01 Projector Wallmount Kit Projector Screen 8*6	2 1 1
60	Scholer White Board	White Board	1

61		Vpn Converter	1
62		Ac Media Convertor	4
63	Converter	Fdms	2
64		Dc Media Convertor	2
65		8gb Segate	1
66	RAM	2gb Ddr3 Umax	1
67		4gb Ddr3 1333mhz	1
68	Wall Mount	Wall Mount Tray	9
69		Live Tech Hdd Casing 2.5	2
70	W 15:10 G	Segate 500gb Sata Harddisk	4
71	Hard Disk & Casing	Segate 1tb Desktop Harddisk	2
72		Harddisk 256 Gb Nvme,Ssd	3
73	Mother Board	Intel Mother Board	1
74	Mouse	Mouse	40
75		Ds-7104hqhi-Fi 4ch 1080p Dvr	1
76		Ds2cf56dot-1rp 3.6mm 1080p Dome	2
77		1tb Toshiba Av Harddisk	1
78		8 Port Network Switch	1
79	Camera (Examcell)	Rack 2u	1
80		4*4 Sunwood Ip Box	2
81		Smps 2a Cctv	1
82		Bnc Pin Connector	4
83		Dc Connector(Male Type)	2
84		Dlink 24 Port Gigabit Switch	2
85	Networking (Cim Lab)	Dlink 8port Gigabit Switch	1
86		Legrand Cat 6 Patch Panel	2
	75		

87		Dlink Cat6 Cable	700mtrs
88		9u Rack	1
89		Legrand Mylink Cat 6 Io Box	40
90		Legrand Mylink Faceplate 1m	38
91	Networking (Cim Lab)	Legrand Mylink Faceplate 2m	2
92		Legrand Mylink Surface Box	2
93		Dlink Batch Cable 1.5mtr	90
94		Power Manager	1
95	Networking (Library)	Dlink 24port Gigabit Switch	1
96		Legrand Mylink Cat Io Socket	14
97		Legrand Mylink Faceplate 1m	14
98		4u Rack	1
99		Smbs	10
100	CMDC		1
101	SMBS	Intel Intel SMBS	1
102			1
103		Lan Network Card	3
104		1x Lan Card	1
105	Network Card	150mbps UsbWifi Adaptor	2
106		Pci Dc Expresscard	1
107		Lan Spliter	1
108	Iot Kit	Iot Kit	10
109	Lan Charles	Lan Checker	1
110	Lan Checker	Iball Lan Tester	5
111	Crimping Tool	Crimping Tool	1

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14) List of Experimental Setup in each Laboratory/Workshop

Institution Code	Institution Name	Course Code	Course Name		
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE	1000	BASIC ENGINEERING (FULL TIME)		
Subject Code	Name of the Practical Subject				
WP231360	Basic Workshop Practices				
DS231270	Digital Workplace Skills				
BE231280	Basic English for Employability				
MA232431	Applied Mathematics-I (Non-Circuit Branc	ches)			
MA232432	Applied Mathematics-II (Circuit Branches)			
РН232441	Applied Physics - I (Non-Circuit Branches)			
PH232442	Applied Physics - II (Circuit Branches)				
СН232451	Applied Chemistry – I (Non - Circuit Brand	ches)			
CH232452	Applied Chemistry - II (Circuit Branches)				
EN232480	Communicative English -II				
DP232360	Drafting Practices				
EP232460	Basic Engineering Practices				

Institution Code	Institution Name		Course Code		Course Name		
816	SHREE VENKATESHWARA HI- POLYTECHNIC COLLEGE	ГЕСН	1000		BASIC ENGINEERING (FULL TIME)		
Subject Code		Name	of the Practic	al S	ubject		
WP231360		BASIC	WORKSHOP I	PRA	CTICES		
Exercise No	Name of the exercise	Equipments / Apparatus / Consumables Required		ed	Number required as per Syllabus	Number available in Working Condition	Remarks
1	Fitting-cutting &Filing of a profile	Bench Vice Drilling Machine Flat File (Rough &		&	30 2 20	30 2 20	
2	Fitting- Drilling, Reaming, Tapping	Vernier Try Squ Steel R	r Height Gauge r Caliper ıare	Out	3 10 20 30 10	3 10 20 30 10	
3	L-Mating	Scriber File Tri Half Ro Circula Square	angular und File r File File ular File t ng Tool g Set		10 6 6 6 6 6	10 6 6 6 6 Sufficent qty Sufficent qty Sufficent qty 5	

	Wiring-Connection Of Two	Screw Driver	20	20	
4	Lamp, Two Switch With Socket- Parallel& Series	Cutting Plier	10	10	
	Wiring- Connection For Fan	Neon Tester	10	10	
5	Switch Regulator	Nose Plier	10	10	
		Multi Meter	5	5	
6	Wiring -Stair Case Wiring	Hammer	20	20	
		Wire Cutter	10	10	
7	Installation of a battery,	Soldering Iron	5	5	
,	charging & testing battery with hydrometer	Center Punch	10	10	
		Rubber Gloves	5	5	
		Water Meter	_		
8	Plumbing-connect a tap using-	Pipe Cutting M/C	2	2	
	pvc pipe, fitting & a tap.	Pipe Vice	2	2	
		Hacwsaw Frame	2	2	
9	Plumbing- connect the pipe	Hand Drilling M/C	2	2	
9	line for the sink/wash basin	Spirit Level Water	2	2	
	**	Meter	3	3	
		Spirit Level	5	5	
	Plumbing – connection for Rain	Adjustable Spanner	5	5	
10	water harvesting.	Hammer	5	5	
	water narvesting.	Spanner Set	5	-	
		Pipe With Suitable		Sufficent qty	
		Accessories			

Institution Code	Institution Name	Course Code	Course Name				
816	SHREE VENKATESHWARA HI- TECH POLYTECHNIC COLLEGE	1000	BASIC ENGINEERING (FULL TIME)				
Subject Code		Name	of the Practical Subject				
DS231270		DIGITA	AL WORKPLACE SKILLS				
Exercise No	Name of the exercise		Equipments / Apparatus / Consumables Required	Number required as per Syllabus	Number available in Working Condition	Remarks	
1	a) Basic Navigations in Operating Windows, Ubuntu etc b) Usage of Browsers (Edge, chron c) Usage of search engines (Google	ne etc)					
2	Create a document with basic editing, formatting options, Tables, Equations, Hyperlinks, Pictures						
3	Create a standard covering letter mail merge to generate customize and generate labels by creating a	ed letters	Desktop Computers	30	30		
4	Spreadsheet creation, data handling, formatting, calculations using formulae and functions using Excel / Google Sheets.		Laser Printer	01	02		
5	Sorting, Filtering, and creation of charts. Print Preview, Printing-Us Google Sheets.	different ing Excel /					
6	Creation of Presentation, editing, Slide creation, Charts, Tables, Pict Art, Slide Number, Header, Footer	tures, Smart					

	Shapes, Video and Sound. Slide Animation, Running a slide show, Print Preview. – PowerPoint, Google slides etc
7	Designing with Canva, Figma.
8	a. Scheduling-meetings-Google Calendar. b. Mail-Gmail c. Information management- Collection of student Bio data using google forms
9	Hands-on Video Conferencing Experience with Webex, zoom, Google Meet etc
10	Password protection for sheets, Google drive sharing-permission.

Institution Code	Institution Name	Course Code	Course Name				
816	SHREE VENKATESHWARA HI- TECH POLYTECHNIC COLLEGE	1000	BASIC ENGINEERING (FULL TIME)				
Subject Code	Name of the Practical Subject						
BE231280		BASIC ENG	LISH FOR EMPLOYABILITY				
Exercise No	Name of the exercise		Equipments / Apparatus / Consumables Required	Number required as per Syllabus	Number available in Working Condition	Remarks	
1	Reading (descriptive) - for gist and detail - Grammar - Adjectives - Mind-mapping and writing structure - Listening (descriptive) - for gist & detail.		Hardware Requirement: 1. Desktop or laptop 2. Compatible speakers or headphones with	30	30		
2	Functional Language (writing) - Describe personal experiences - Reading (prospectus) - for locate and isolate - Grammar - Conjunctions - Functional language (speaking) - Making comparisons.		microphone 3. Projector Software Requirement:- 1. Chrome version 52+, or	01	01		
3	(speaking) - Making comparisons. Listening (prospectus) - for locate and isolate - Functional Language (speaking) - expressing feelings and emotions - Reading (geographical information) - for gist and detail - Punctuations.		Firefox version 50+, or Edge Windows 10 build 15019 2. Operating System – Windows7+, Ubuntu				

	Functional Language (speaking) - giving	3. Access to You Tube	
	reasons and explanations - Listening	4. Access to	
	(geographical information) - for gist & detail	https://english.steptest.in/	
4	- Functional Language (writing) - Making	5. Stable internet	
	appointments & reservations - Reading	connection with 2Mbps	
	(rules & regulation) - for gist and detail.	speed via Wi-Fi or Ethernet	
	Grammar - Adverbs - Functional Language	or 4G hotspot	
	(Speaking) - Accepting & Rejecting offers and		
5	invitations - Listening (rules and		
	regulations) - for gist & detail - Phonics -		
	Commonly Made Speaking Errors.		

Institution Code	Institution Name		Course Code		Co	urse Name	
816	SHREE VENKATESHWARA HITECH PO COLLEGE	OLYTECHNIC 1000 BASIC ENGINEERING (FULL TIME				LL TIME)	
Subject Code	N	Name of the Practical Subject					
MA232431	APPLIED MAT	APPLIED MATHEMATICS-I (NON-CIRCUIT BRANCHES)					
1	Contact of Circles	<u>Hardware Re</u>	<u>quirement</u>				
2	Application of External Contact of Circles: Spur Gear		Computers			30 1	-
3	Parabola & Ellipse	Water In The Control of the Control	and screen			2	2000
4	Application of Parabola : Parabolic	• Printer					
5	Limits & Derivatives						
6	Application of Limits & Derivatives : Reverse Curve	• Operating	uirement g System :			Available	=
7	Integration	-	7 or later			Available	-
8	Application of Integration : Area of Irregular Plane Figure	• Geogebra	a Classic 5				
9	Probability-Normal Distribution						
10	Application of Statistics : Statistical Process control						

Instituti on Code	Institution Name		Course Code	Cou	ırse Name	
816	SHREE VENKATESHWARA HITECH COLLEGE	POLYTECHNIC	1000		INEERING TIME)	(FULL
Subject Code		Name of the Praction	cal Subject			
MA2324 32	APPLIED MATHEMATICS-II (CIRCUIT BRANCHE			HES)		
Experim ent No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Require d as per Syllabu s	Number availabl e in Working Conditio n	Remar ks
1	Parabola & Ellipse	Hardware Require	ement			
2	Application of Parabola : Parabolic Shaped Dish Antenna	Desktop Comp	outers		30	-
3	Trigonometric & Inverse Trigonometric Functions	Projector and Printer	Screen		1 2	-
4	Application of Trigonometric Functions: Sinusoidal Waveform of	(5,5,5,5,5,5,5)				
5	Complex Numbers	Software Require	ment			
6	Application of Complex Numbers : Phasor Diagram & Power Factor	Operating Sys	tem : Windows	7	Availabl	-
7	Limits & Derivatives	or later			e	0=
8	Application of Limits & Derivatives: Voltage using Derivative of Current	Geogebra Clas	ssic 5		Availabl	
9	Integration				е	
10	Application of Integration : Charge Using Integration of Current					

Instituti on Code	In	stitution Name	Course	Code	Co	urse Name	
816	SHREE VENKATES	HWARA HITECH POLYTECHNIC COLLEGE	100	BASIC ENGINEERING (F TIME)			ULL
Subject Code		Name of the Practi	Name of the Practical Subject				
PH2324 41		APPLIED PHYSICS - I (NON-	CIRCUIT B	RANCHI	ES)		
Experim ent No	Name of the Experiment	Equipments / Apparatus / Required		Consu mabl es	Number Required as per Syllabus	Number available in Working Condition	Re mar ks
1.	TORSION PENDULUM	Torsion pendulum, Two equal masses		.		4	
2.	COMPOUND PENDULUM	Compound pendulum, Hanger and graph sheet		-		4	
3.	SURFACE TENSION	Microscope, 500 ml beaker, wate tube, stand	er, Glass	-		4	
4.	STOKE'S METHOD	Tall jar (glass), small and big bal Castor's oil and stop clock	ls(glass),			4	
5.	SONOMETER	Wooden box, wire, weight hange fork and hammer	r, tuning	-		4	
6.	WHEATSTONE'S BRIDGE	Meter bridge, Galvanometer, Kno &Unknown resistances, Jockey, connecting wires	Meter bridge, Galvanometer, Known &Unknown resistances, Jockey,			4	
7.	LAWS OF RESISTANCE	Resistance boxes, voltmeter, ammeter, Battery, key , Rheostat and connecting wires		-		4	
8	JOULE'S CALORIMETER	Battery, key, rheostat, Voltmeter Ammeter, Calorimeter, Thermon water and wires		-		4	

Institution Code	Institut	tion Name	Course Co	ode	Cours	Course Name	
816		RA HITECH POLYTECHNIC LLEGE	1000		BASIC ENGINEERING (FUL TIME)		
Subject Code		Name of the Prac	tical Subjec	et			
PH232442		APPLIED PHYSICS - II (C	IRCUIT BRA	ANCHE	S)		
Experimen t No	Name of the Experiment	Equipments / Apparatus / Required		Cons uma bles	Number Required as per Syllabus	Number available in Working Conditio n	Re mar ks
1.	REFRACTIVE INDEX OF GLASS	Glass slab, white paper, pin		-		4	
2.	REFRACTIVE INDEX OF LIQUID	Microscope, 100 ml beaker, water, dust.		-		4	
3.	SOLAR CELL	Solar kit, ammeter, voltme Rheostat & wires	ter,	::=		4	
4.	DEFLECTION MAGNETOMETER	Wooden rectangular plate, Magnets and Magnetomete		-		5	
5.	SONOMETER	Wooden box, wire, weight tuning fork and hammer	hanger,	-		4	
6.	POTENTIOMETER	Meter bridge, Galvanometer, resistances, Jockey, Battery, key connecting wires		-		5	
7.	LAWS OF RESISTANCE	Resistance boxes, voltmeter, ammeter, Battery, key , Rheostat and connecting wires		-		4	
8	JOULE'S CALORIMETER	Battery, key, rheostat, Voltm Ammeter, Calorimeter, Ther water and wires		-		4	

Instituti on Code		Institution Name		Course Code	Course Name			
816	SHREE VENKAT	ESHWARA HITECH F COLLEGE	POLYTECHNIC	1000	BASIC ENGINEERING			
Subject Code		Name of the Practical Subject						
CH2324 51		APPLIED CHEMI	ISTRY – I (NON - CI	RCUIT BRANCHES)			
1.	Estimation of Total hardness of water by EDTA method	EDTA, Erichrome black – T indicator Ammonia buffer solution, Calcium carbonate	Burette (50ml) Burette stand, Conical flask (250ml) Funnel Pipette (20ml) Porcelain tile Wash bottle	Burette (50ml) - 30 Burette stand - 30	Burette (50ml) - 35 Burette stand - 35 Conical flask (250ml) -			
2.	Determination of alkalinity of sample of hard water	Hydrochloric acid Phenolphthalein indicator, Methyl orange indicator, Alkaline water	Burette (50ml) Burette stand, Conical flask (250ml), Funnel Pipette (20ml) Porcelain tile Wash bottle	- 30 Conical flask (250ml) - 30 Funnel - 30 Pipette (20ml) - 30 Porcelain tile - 30 Cleaning brush - 30 Wash bottle - 30 Pii Meter - 4 TDS Meter - 2	35 Funnel – 35 Pipette (20ml) – 35 Porcelain tile – 35 Cleaning brush			
3.	Estimation of Residual chlorine in a given water sample	Sodium thio sulphate, KMNO ₄ , starch indicator, KI, Dil.H ₂ SO ₄ , Acetic acid,	Burette (50ml) Burette stand, Conical flask (250ml) Funnel ,Pipette (20ml) Porcelain tile, Wash bottle		- 35 Wash bottle - 35 P ^H Meter - 4 TDS Meter - 2			

4.	Estimation of oxalic acid by Permanganometry (Non circuit Branch)	Ferrous ammonium sulphate, Oxalic acid Potassium permanganate Dil.H ₂ SO ₄	Burette (50ml) Burette stand, Conical flask (250ml), Funnel Pipette (20ml) Porcelain tile Wash bottle
5.	Calculation of H+ ion and TDS of difference samples of acids and bases	Sample acid and base	P ^H meter,TDS meter
6.	Estimation of copper by complexometry	Zinc sulphate, Copper sulphate, Erichrome black – T indicator, Ammonia buffer solution,FastSulph one Black – F EDTA	Burette (50ml) Burette stand, Conical flask (250ml), Funnel Pipette (20ml) Porcelain tile Wash bottle
7.	Effluent analysis of Heavy metal ions – Lead,Copper and Zinc	Ammonium chloride, AmmoniumHydro xide H ₂ S, Sodium hydroxide, potassium iodide	Test tube, watch glass, spatula,test tube stand
8.	Analysis of acid radicals such as Carbonate, Nitrate and Sulphate ions.	Dil.HCl,Conc.H ₂ SO ₄ Copper turnings, Barium chloride, Ferrous sulphate.	Test tube, watch glass, spatula,test tube stand

Instituti on Code		Institution Name		Course Code	Course Name			
816	SHREE VENKA	TESHWARA HITECH PO COLLEGE	OLYTECHNIC	1000	BASIC ENGINEERING			
Subject Code		Name of the Practical Subject						
CH2324 52		APPLIED CHEMISTRY - II (CIRCUIT BRANCHES)						
1.	Estimation of Total hardness of water by EDTA method	EDTA, Erichrome black – T indicator Ammonia buffer solution, Calciumcarbonate	Burette (50ml) Burette stand, Conical flask (250ml) Funnel Pipette (20ml) Porcelain tile Wash bottle	Burette (50ml) - 30 Burette stand - 30 Conical flask (250ml) - 30 Funnel - 30 Pipette (20ml)	Burette (50ml) - 35 Burette stand - 35 Conical flask (250ml) - 35 Funnel -			
2.	Determination of alkalinity of sample of hard water	Hydrochloric acid Phenolphthalein indicator, Methyl orange indicator, Alkaline water	Burette (50ml) Burette stand, Conical flask (250ml) ,Funnel Pipette (20ml) Porcelain tile Wash bottle	- 30 Porcelain tile - 30 Cleaning brush - 30 Wash bottle - 30 PH Meter - 4	Pipette (20ml) - 35 Porcelain tile - 35 Cleaning brush - 35 Wash bottle - 35			
3.	Estimation of Residual chlorine in a given water sample	Sodium thio sulphate KMNO ₄ ,Starch indicator, KI,Dil.H ₂ SO ₄ ,Acetic acid,	Burette (50ml) Burette stand, Conical flask (250ml) Funnel ,Pipette(20ml) Porcelain tile.Washbottle	TDS Meter -2 Copper plate - 2 Iron plate - 2 Copper voltameter-2 Electrolytic cell	P ^H Meter - 4 TDS Meter -2 Copper plate - 2 Iron plate - 2			

				- 2	Copper voltameter-2 Electrolytic cell - 2
4.	Estimation of copper by complexometry	Zinc sulphate, Copper sulphate, Erichrome black – T indicator, Ammonia buffer solution, Fast Sulphone Black – F EDTA	Burette (50ml) Burette stand, Conical flask (250ml), Funnel Pipette (20ml) Porcelain tile Wash bottle		
5.	Calculation of H+ ion and TDS of difference samples of acids and bases	Sample acid and base	P ^H meter,TDS meter		
6.	Effluent analysis of Heavy metal ions –Lead,Copper and Zinc	Ammonium chloride, AmmoniumHydroxide H ₂ S, Sodium hydroxide, potassium iodide	Test tube, watch glass, spatula,test tube stand		
7.	Process of electroplating – Copper plating by copper voltameter	Copper sulphate solution,	Copper plate, Iron plate, Copper Voltameter, Electrolytic cell		
8.	Analysis of acid radicals such as Carbonate, Nitrate and Sulphate ions.	Dil.HCl, Conc.H ₂ SO ₄ , Copper turnings, Bariumchloride,Ferrou s sulphate.	Test tube, watch glass, spatula,test tube stand		

Institution Code	Institution Name		Course Cod	le	Course Nan	ne
816	SHREE VENKATESHWARA HITECH P COLLEGE	OLYTECHNIC	1000	BA	SIC ENGINE	ERING
Subject Code	Na	Name of the Practical Subject				
EN232480	CC	OMMUNICATIV	E ENGLISH	П		
Experiment No	Name of the Experiment	Equipm Appara Consumable	itus /	Number Required as per Syllabus	Number available in Working Condition	Remarks
1	Listening to Scientific and Technological Passages & One Word Substitution	1. An echo fre		1	1	
2	Speaking – Word Cloud & Homophones and their meanings	with internet		1 2	1 2	
3	Reading Idiomatic Expressions with their meanings	4. Projector 5. Any Englis	•	1 1	1	
4	Writing- Advertisement Writing	Newspaper	(a) 109150	1	1	
5	Speaking- Describing Oneself	6. A white bo Markers 7.Comics / St		2	2	

Institution Code	Institution Name	Course Code	C	ourse Name		
816	SHREE VENKATESHWARA HITECH POLYTECHNIC COLLEGE	1000	BASIC ENGINEERING			
Subject Code	Name	of the Practical S	Subject			
DP232360	DI	RAFTING PRACTI	CES			
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required	Number Required as per Syllabus	Number available in Working Condition	Remarks	
1.	a) Rewrite the given statement in a single stroke vertical uppercase letters b) Rewrite the given statement in a single stroke vertical lowercase letters					
2.	Redraw the given drawing and dimension it as per BIS					
3.	a) Divide a straight line and circle into given number of equal divisions b) Construct an arc touching two straight line. c) Construct an arc touching two arcs.		-	-		
4.	Construct the polygon of given size (Triangle, Rectangle, Square, Pentagon and Hexagon)					
5.	Draw the given drawing and dimension it as per BIS using CAD.	Personal computer Laser Printer	As per	As per		
6.	Draw the orthographic views of the given component	Software : CAD Software	Requirement	Requirement		

(for Mechanical and Allied)	Packages		
Draw the given civil engineering			
drawing using CAD (for Civil Engg.)			
(a) Cross sectional view of L -section,			
T-section, Channel and I - Section			
(b) Plan, Elevation and Sectional view			
of a Single storey, Single room			
consisting of RCC			
Flat Roof, Masonry walls, Lintel cum			
Sunshade, Door and windows of			
standard size.			
(c) Floor plan of a 2BHK residential			
building.			
(d) Plan and Sectional Elevation of a			
RCC Column with square isolated			
footings.			
Draw the given Electrical circuit			
diagram using CAD (for EEE)			
(a) Stair-case wiring electric circuit			
(b) Control and main circuit of			
automatic star delta starter			
(c) Control circuit for jogging in cage			
induction motor			
(d) Single phase wiring circuit			
Draw the given Electronics circuit			
diagram using CAD (for ECE)			
(a) Half Wave Rectifier circuit			
(b) Bridge Rectifier circuit			
(c) Common Emitter Amplifier circuit			
(d) Fire Alarm circuit			

Institutio n Code	Institution Name	Course Code		Course Nai	ne	
816	SHREE VENKATESHWARA HITECH POLYTECHNIC COLLEGE 1000 BASIC ENGINEER				ERING	
Subject Code	Name of t	he Practical Subjec	:t			
EP232460	BASIC ENGI	NEERING PRACTIC	ES			
Exercise No	Name of the exercise	Equipments / Apparatus / Consumables Required	Number require d as per Syllabu s	Number available in Working Condition	Remarks	
1.	Install the water supply system as shown in the layout(shower with hot and cold water supply) and prepare the bill of material with specifications.					
2.	Install the drainage system as shown in the layout and prepare the bill of material with specifications.	As per requirement		As per requirem		
3.	Install the given pump for the water supply to storage. Prepare the list of components with specifications.	requirement	ment	ent		
4.	Install the Water Purifier and mount the filter. Demonstrate how to replace the damaged components, membrane, filter, valve and watertank.					

5.	Connect the single phase power supply for domestic applications as per the circuit diagram. List the bill of materials with specifications.		
6.	Prepare an earth bit and erect the earth electrode / plate. Mention the importance of Earthing and Lightning arrester.		
7.	Install a CCTV camera and configure. Mention the list of components.		
8.	Install the Smoke Detector Alarm / Fire alarm system as per the circuit. (Electrical / IOT based)		

Institution Code	Institution Name	Course Code	Course Name			
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE	1010	CIVIL ENGINEERING			
Subject Code	Name of the Pra	actical Subject				
4010350	Civil Engineering Drawing and CAD Practi	Civil Engineering Drawing and CAD Practical I				
4010360	Material Testing Laboratory I					
4010370	Surveying Practice I					
4010440	Hydraulics Laboratory	ydraulics Laboratory				
4010450	Material Testing Laboratory- Ii	Material Testing Laboratory- Ii				
4010460	Construction Practice Laboratory					
4010470	Surveying Practice- II					
4010540	Civil Engineering Drawing and CAD Practi	cal II				
4010550	Environmental Engineering Laboratory					
4010562	Concrete Technology Practical					
4010570	Entrepreneurship and startups					
4010640	Computer Applications In Civil Engineerin	g Practice				
4010651	Estimation And Costing Laboratory					
4010660	Project Work And Internship					

Institution Code	Institution Name		Course Code		Course Name	e		
816	SHREE VENKATESWHARA HI-TECH P COLLEGE	OLYTECHNIC	1010	0 CIVIL ENGINEERING				
Subject Code		Name of the P	ractical Sul	oject				
4010350	CIVIL ENGI	NEERING DRAV	VING AND C	AD PRACTI	CAL I			
Experimen t No	Name of the Experiment	Equipmo Appara Consumables	tus /	Number Required as per Syllabus	Number available in Working Condition	Remarks		
1	Definition of various commands used in CAD software.							
2	Simple Exercises for familiarizing the drawing commands in CAD software							
3	Section of semicircular Arch	Compu Laser pr		30	30			
4	Elevation of door, partly panelled	-		3	3			
1.30	and partly glazed Preparation of Plan showing	CAD soft	ware	30	30			
5	arrangement of furniture / fixtures and other features with standard sizes for the followings (Each room to be drawn separately - features and furniture may be pasted from the Blocks available in the packages)							

Steel Structures: Cross section of I, Channel, T, Angle and Tubular section, Compound Beams.		(i) Living (ii) Bed Room (iii) Kitchen		T T	
6 Channel, T., Angle and Tubular section, Compound Beams. 7 Section of Load bearing wall from parapet to foundation showing all the details across the section. (Single storey) 8 Single bed roomed building (R.C.C. Roof) Plan, Section and Elevation of a single bed roomed building (R.C.C. Roof) 10 Plan, Section and Elevation of a pouble bed roomed building (R.C.C. Roof) 11 Plan, Section and Elevation of a Primary School Building 12 Plan, Section and Elevation of a Primary School Building 13 Plan, Section and Elevation of a Primary School Building 14 Plan, Section and Elevation of a Primary School Building 15 Plan, Section and Elevation of a Primary School Building 16 Plan, Section and Elevation of a Primary School Building 17 Plan, Section and Elevation of a Primary School Building 18 Preparation of approval drawing to be submitted to Corporation or Municipality showing required details in one sheet such as a) Site Plan (Land boundary, Building boundary, Car Parking, Passage, sanitary layout, septic tank location etc. b) G.F. Plan, F.F. Plan, Section and Elevation (line diagram is enough) c) Key Plan d) Septic tank Plan and section (line diagram is enough) c) Key Plan d) Septic tank Plan and section (line diagram) e) Rain water harvesting pit (with all detail) f) Typical foundation details (Column foundation or spread footing) g) Title foundation details (Column foundation or spread footing) g) Figure Index, Title of the property, space for owners Signature and Licensed Surveyor's					
6 Channel, T., Angle and Tubular section, Compound Beams. 7 Section of Load bearing wall from parapet to foundation showing all the details across the section. (Single storey) 8 Single bed roomed building (R.C.C. Roof) Plan, Section and Elevation of a single bed roomed building (R.C.C. Roof) 10 Plan, Section and Elevation of a pouble bed roomed building (R.C.C. Roof) 11 Plan, Section and Elevation of a Primary School Building 12 Plan, Section and Elevation of a Primary School Building 13 Plan, Section and Elevation of a Primary School Building 14 Plan, Section and Elevation of a Primary School Building 15 Plan, Section and Elevation of a Primary School Building 16 Plan, Section and Elevation of a Primary School Building 17 Plan, Section and Elevation of a Primary School Building 18 Preparation of approval drawing to be submitted to Corporation or Municipality showing required details in one sheet such as a) Site Plan (Land boundary, Building boundary, Car Parking, Passage, sanitary layout, septic tank location etc. b) G.F. Plan, F.F. Plan, Section and Elevation (line diagram is enough) c) Key Plan d) Septic tank Plan and section (line diagram is enough) c) Key Plan d) Septic tank Plan and section (line diagram) e) Rain water harvesting pit (with all detail) f) Typical foundation details (Column foundation or spread footing) g) Title foundation details (Column foundation or spread footing) g) Figure Index, Title of the property, space for owners Signature and Licensed Surveyor's					
6 Channel, T. Angle and Tubular section, Compound Beams. 7 Section of Load bearing wall from parapet to foundation showing all the details across the section. (Single storey) Plan, Section and Elevation of a single bed roomed building (R.C.C. Roof) Plan, Section and Elevation of a pouble bed roomed building (R.C.C. Roof) Plan, Section and Elevation of a primary School Building Plan, Section and Elevation of a Primary School Building Plan, Section and Elevation of a Primary School Building Plan, Section and Elevation of a Primary School Building Plan, Section and Elevation of a Preparation of approval drawing to be submitted to Corporation or Municipality showing required details in one sheet such as a) Site Plan (Land boundary, Building boundary, Car Parking, Passage, sanitary layout, septic tank location etc. b) G.F. Plan, F.F. Plan, Section and Elevation (line diagram is enough) c) Key Plan d) Septic tank Plan and section (line diagram) e) Rain water harvesting pit (with all detail) of Typical foundation or spread footing) By Title block showing - joinery details, Specification, Area statement, colour Index, Title of the property, space for owners Signature and Licensed Surveyor's					
6 Channel, T. Angle and Tubular section, Compound Beams. 7 Section of Load bearing wall from parapet to foundation showing all the details across the section. (Single storey) Plan, Section and Elevation of a single bed roomed building (R.C.C. Roof) Plan, Section and Elevation of a Double bed roomed building (R.C.C. Roof) Plan, Section and Elevation of a Primary School Building Plan, Section and Elevation of a Primary School Building Plan, Section and Elevation of a Primary School Building Plan, Section and Elevation of a Primary School Building Plan, Section and Elevation of a Preparation of approval drawing to be submitted to Corporation or Municipality showing required details in one sheet such as a) Site Plan (Land boundary, Building boundary, Car Parking, Passage, sanitary layout, septic tank location etc. b) G.F. Plan, F.F. Plan, Section and Elevation (line diagram is enough) c) Key Plan d) Septic tank Plan and section (line diagram) e) Rain water harvesting pit (with all detail) f) Typical foundation or spread footing g) Title block showing – joinery details, Specification, Area statement, colour Index, Title of the property, space for owners Signature and Licensed Surveyor's					
parapet to foundation showing all the details across the section. (Single storey) Plan, Section and Elevation of a single bed roomed building (R.C.C. Roof) Plan, Section and Elevation of a Double bed roomed building (R.C.C. Roof) Plan, Section and Elevation of a Primary School Building Primary School Building Plan, Section and Elevation of a Hospital Building Plan, Section and Elevation of a Hospital Building Plan, Section and Elevation of a Hospital Building Preparation of approval drawing to be submitted to Corporation or Municipality showing required details in one sheet such as a j Site Plan (Land boundary, Building boundary, Car Parking, Passage, sanitary layout, septic tank location etc. b) G.F. Plan, F.F. Plan, Section and Elevation (line diagram is enough) c) Key Plan of J Septic tank location etc. b) G.F. Plan, F.F. Plan, Section and Elevation (line diagram is enough) c) Key Plan of J Septic tank location etc. b) G.F. Plan (I be diagram is enough) c) Key Plan of J Septic tank location etc. b) G.F. Plan F.F. Plan, Section and Elevation (line diagram is enough) c) Key Plan of J Septic tank location etc. b) G.F. Plan F.F. Plan, Section and Elevation (line diagram is enough) c) Key Plan of J Septic tank location etc. b) G.F. Plan F.F. Plan, Section and Elevation (line diagram) etc. b) G.F. Plan f.F. Plan, Section and Elevation (line diagram) etc. b) G.F. Plan f.F. Plan, Section and Elevation (line diagram) etc. b) G.F. Plan f.F. Plan, Section etc. b) G.F.	6	Channel, T, Angle and Tubular			
8 single bed roomed building (R.C.C. Roof) Plan, Section and Elevation of a Double bed roomed building (R.C.C. Roof) 10 Plan, Section and Elevation of a Primary School Building 11 Plan, Section and Elevation of a Hospital Building 12 Workshop with steel columns, Steel roof truss and Metal sheet Roofing of about 300 m2 area. Preparation of approval drawing to be submitted to Corporation or Municipality showing required details in one sheet such as a) Site Plan (Land boundary, Building boundary, Car Parking, Passage, sanitary layout, septic tank location etc. b) G.F. Plan, F.F. Plan, Section and Elevation (line diagram is enough) c) Key Plan d) Septic tank Plan and section (line diagram) e) Rain water harvesting pit (with all detail) f) Typical foundation of spread footing) g) Title block showing joinery details, Specification, Area statement, colour Index, Title of the property, space for owners Signature and Licensed Surveyor's	7	parapet to foundation showing all the details across the section.			
9 Double bed roomed building (R.C.C. Roof) 10 Plan, Section and Elevation of a Primary School Building 11 Plan, Section and Elevation of a Hospital Building 12 Workshop with steel columns, Steel roof truss and Metal sheet Roofing of about 300 m2 area. Preparation of approval drawing to be submitted to Corporation or Municipality showing required details in one sheet such as a) Site Plan (Land boundary, Building boundary, Car Parking, Passage, sanitary layout, sepic tank location etc. b) G.F. Plan, F.F. Plan, Section and Elevation (line diagram is enough) c) Key Plan d) Sepic tank Plan and section (line diagram) e) Rain water harvesting pit (with all detail) f) Typical foundation details (Column foundation or spread footing) g) Title block showing joinery details, Specification, Area statement, colour Index, Title of the property, space for owners Signature and Licensed Surveyor's	8	single bed roomed building (R.C.C.			
Plan, Section and Elevation of a Hospital Building Plan, Section and Elevation of a Workshop with steel columns, Steel roof truss and Metal sheet Roofing of about 300 m2 area. Preparation of approval drawing to be submitted to Corporation or Municipality showing required details in one sheet such as a) Site Plan (Land boundary, Building boundary, Car Parking, Passage, sanitary layout, septic tank location etc. b) G.F. Plan, F.F. Plan, Section and Elevation (line diagram is enough) c) Key Plan d) Septic tank Plan and section (line diagram) e) Rain water harvesting pit (with all detail) f) Typical foundation details (Column foundation or spread footing) g) Title block showing - joinery details, Specification, Area statement, colour Index, Title of the property, space for owners Signature and Licensed Surveyor's	9	Double bed roomed building (R.C.C.			
Plan, Section and Elevation of a Workshop with steel columns, Steel roof truss and Metal sheet Roofing of about 300 m2 area. Preparation of approval drawing to be submitted to Corporation or Municipality showing required details in one sheet such as a) Site Plan (Land boundary, Building boundary, Car Parking, Passage, sanitary layout, septic tank location etc. b) G.F. Plan, F.F. Plan, Section and Elevation (line diagram is enough) c) Key Plan d) Septic tank Plan and section (line diagram) e) Rain water harvesting pit (with all detail) f) Typical foundation details (Column foundation or spread footing) g) Title block showing – joinery details, Specification, Area statement, colour Index, Title of the property, space for owners Signature and Licensed Surveyor's	10				
Workshop with steel columns, Steel roof truss and Metal sheet Roofing of about 300 m2 area. Preparation of approval drawing to be submitted to Corporation or Municipality showing required details in one sheet such as a) Site Plan (Land boundary, Building boundary, Car Parking, Passage, sanitary layout, septic tank location etc. b) G.F. Plan, F.F. Plan, Section and Elevation (line diagram is enough) c) Key Plan d) Septic tank Plan and section (line diagram) e) Rain water harvesting pit (with all detail) f) Typical foundation details (Column foundation or spread footing) g) Title block showing – joinery details, Specification, Area statement, colour index, Title of the property, space for owners Signature and Licensed Surveyor's	11				
Workshop with steel columns, Steel roof truss and Metal sheet Roofing of about 300 m2 area. Preparation of approval drawing to be submitted to Corporation or Municipality showing required details in one sheet such as a) Site Plan (Land boundary, Building boundary, Car Parking, Passage, sanitary layout, septic tank location etc. b) G.F. Plan, F.F. Plan, Section and Elevation (line diagram is enough) c) Key Plan d) Septic tank Plan and section (line diagram) e) Rain water harvesting pit (with all detail) f) Typical foundation details (Column foundation or spread footing) g) Title block showing – joinery details, Specification, Area statement, colour index, Title of the property, space for owners Signature and Licensed Surveyor's		<u>I</u>			
Workshop with steel columns, Steel roof truss and Metal sheet Roofing of about 300 m2 area. Preparation of approval drawing to be submitted to Corporation or Municipality showing required details in one sheet such as a) Site Plan (Land boundary, Building boundary, Car Parking, Passage, sanitary layout, septic tank location etc. b) G.F. Plan, F.F. Plan, Section and Elevation (line diagram is enough) c) Key Plan d) Septic tank Plan and section (line diagram) e) Rain water harvesting pit (with all detail) f) Typical foundation details (Column foundation or spread footing) g) Title block showing – joinery details, Specification, Area statement, colour Index, Title of the property, space for owners Signature and Licensed Surveyor's					
Workshop with steel columns, Steel roof truss and Metal sheet Roofing of about 300 m2 area. Preparation of approval drawing to be submitted to Corporation or Municipality showing required details in one sheet such as a) Site Plan (Land boundary, Building boundary, Car Parking, Passage, sanitary layout, septic tank location etc. b) G.F. Plan, F.F. Plan, Section and Elevation (line diagram is enough) c) Key Plan d) Septic tank Plan and section (line diagram) e) Rain water harvesting pit (with all detail) f) Typical foundation details (Column foundation or spread footing) g) Title block showing – joinery details, Specification, Area statement, colour index, Title of the property, space for owners Signature and Licensed Surveyor's		Plan Section and Elevation of a		2	
be submitted to Corporation or Municipality showing required details in one sheet such as a) Site Plan (Land boundary, Building boundary, Car Parking, Passage, sanitary layout, septic tank location etc. b) G.F. Plan, F.F. Plan, Section and Elevation (line diagram is enough) c) Key Plan d) Septic tank Plan and section (line diagram) e) Rain water harvesting pit (with all detail) f) Typical foundation details (Column foundation or spread footing) g) Title block showing – joinery details, Specification, Area statement, colour Index, Title of the property, space for owners Signature and Licensed Surveyor's	12	Workshop with steel columns, Steel roof truss and Metal sheet Roofing			
Signature with address.	13	be submitted to Corporation or Municipality showing required details in one sheet such as a) Site Plan (Land boundary, Building boundary, Car Parking, Passage, sanitary layout, septic tank location etc. b) G.F. Plan, F.F. Plan, Section and Elevation (line diagram is enough) c) Key Plan d) Septic tank Plan and section (line diagram) e) Rain water harvesting pit (with all detail) f) Typical foundation details (Column foundation or spread footing) g) Title block showing – joinery details, Specification, Area statement, colour Index, Title of the property, space for owners			
1					

Institution Code	Institution Name		Course Code	(Course Name	:
816	SHREE VENKATESWHARA HI-TECH P COLLEGE	OLYTECHNIC	1010	CIVI	L ENGINEER	ING
Subject Code	Na	ame of the Prac	tical Subject			
4010360	MATE	ERIAL TESTING	LABORATORY	71		
Exercise No	Name of the exercise	Equipments , Consumable	/ Apparatus / es Required	Number required as per Syllabus	Number available in Working Condition	Remarks
1	Tension test on mild steel / deformed steel bars.	UTM		1	1	
2	Deflection test on Simply Supported Beams of a. wood and b. steel to find young's modulus	Deflection tes of Maxwell th magnetic star gauge, weight beam(floor ty	eorem with id, deflection is and sets of	1	1	
3	Torsion test on mild steel bar to determine the Modulus of Rigidity.	Torsion testing machine		1	1	
4	Double shear test on M.S. bar	UTM		1	1	
5	Impact Test on mild steel by performing Izod / Charpy tests	Impact testin		1	1	
6	Find Brinnel's hardness numbers of the following materials. a. Mild steel b. Brass c. Aluminum	Rock well-cui Hardness tes		1	1	

7	Find Rockwell"s hardness numbers of the following materials. a. Mild steel b. Brass c. Aluminium.	Rock well-cum-Brinell Hardness testing machine	1	1	
8	Compression Test on Wooden cube.	Compression testing machine 100 tons capacity (electrical operated)	1	1	
9	Compression test on Bricks.	Compression testing machine 100 tons capacity (electrical operated)	1	1	
10	Compression test on Solid Blocks	Compression testing machine 100 tons capacity (electrical operated)	1	1	
11	Water absorption test on Bricks /pressed tiles.	Bucket/ Weighing balance-digital 10 kg capacity	1	1	
12	Flexure test on Tiles.	Flexural Testing Machine for Tiles	1	1	
13	Casting of Cement Mortar cubes after determining the normal consistency of cement.	Vicat needle apparatus (to conduct cement test)	1	1	
14	Determining the compressive strength of Cement Mortar cubes.	Compression testing machine 100 tons capacity (electrical operated)	1	1	

Institution Code	Institution Name		Course Code		Course Na	me
816	SHREE VENKATESWHARA HI-TECH P COLLEGE	OLYTECHNIC	1010	CI	VIL ENGINE	ERING
Subject Code	1	Name of the Pr	actical Subject			
4010370		SURVEYING	PRACTICE I			
Exercise No	Name of the exercise		/ Apparatus / es Required	Number required as per Syllabus	Number available in Working Condition	Remarks
1	Study of chain, tape and accessories used for chain survey.	Chain with arrows Cross staff		6 6	6 6	
2	Study of Prismatic compass, setting up over a station and observe bearings of lines.					
3	Running closed traverse and finding the included angles Use Chain / Tape and Compass. Minimum 5 points.	Prismatio	compass	6	6	
4	Determination of distance between two points when their base is accessible. Use Chain / Tape and Compass.	Rangi	ng rod	2	2	
5	Determination of distance between two points when their base is inaccessible. Use Chain / Tape and Compass.					

6	Reading of various Maps like Taluk map, District Map and Topo sheets.	Study Experiment	-	-	
7	Study of Hand held GPS.				
8	Measurement of Latitude, Longitude and Altitude using hand held GPS.	Hand held GPS	6	6	
9	Selection and marking of routings (Way points) using hand held GPS.				
10	Study of a Level - Temporary adjustment, taking readings and booking in a field book.				
11	Fly leveling Reduction by Height of Collimation method - Minimum 6 points with two change points (Minimum Two exercises)				
12	Fly leveling Reduction by Rise and Fall method - Minimum 6 points with two change points (Minimum Two exercises).	Dumpy Level Levelling staff	10	10	
13	Fly levelling covering minimum 6 points with 2 inverted readings (Minimum Two exercises).				
14	Check levelling and reduction of levels (Minimum Two exercises)				

Institution Code	Institution Name		Course Code		Course Na	ıme
816	SHREE VENKATESWHARA HI-TECH PO COLLEGE	DLYTECHNIC	1010	C	IVIL ENGINI	EERING
Subject Code		Name of the Pi	ractical Subjec	t		
4010440		HYDRAULICS	LABORATORY			
Exercise No	Name of the exercise	Equipments / Apparatus / Consumables Required		Number required as per Syllabus	Number available in Working Condition	Remarks
1	Verification of Bernoulli's theorem.	Bernoulli"s theorem apparatus (closed circuit) with all accessories		01	01	
2	Flow through Venturimeter - Determination of Co-efficient of Discharge	Venturimete (closed circ access	uit) with all	01	01	
3	Flow through Orificemeter - Determination of Co-efficient of Discharge	Orificemete (closed circ access	uit) with all	01	01	
4	Determination of Co-efficient of Discharge by Time fall - Head method	Orifice apparatus (closed circuit) with all accessories		01	01	
5	Determination of Co-efficient of Discharge by Constant head method	Orifice apparatus (closed circuit) with all accessories		01	01	

6	Determination of Co-efficient of Discharge by Timing fall in head method	Mouthpiece apparatus (closed circuit) with all accessories	01	01	
7	Determination of Co-efficient of Discharge by Constant head method	Mouthpiece apparatus (closed circuit) with all accessories	01	01	
8	Determination of friction factor for the given GI pipe / PVC pipe.	Pipe Friction apparatus (closed circuit) with all accessories	01	01	
9	Determination of Co-efficient of Discharge for Rectangular Notch / V- Notch	Notch apparatus (closed circuit) with accessories	01	01	
10	Reciprocating pump - To draw characteristic curves and determine the efficiency	Reciprocating Pump test rig with accessories	01	01	
11	Centrifugal pump – To draw characteristic curves and determine the efficiency	Centrifugal Pump test rig	01	01	
12	Study of working principle of a pelton wheel.	Pelton wheel	01	01	

Institution Code	Institution Name		Course Code		Course Nar	ne
816	SHREE VENKATESWHARA HI-TECH P COLLEGE	OLYTECHNIC	1010	CIV	VIL ENGINE	ERING
Subject Code	N	ame of the Pra	ctical Subject			
4010450	MATE	MATERIAL TESTING LABORATORY- II				
Exercise No	Name of the exercise	Equipments / Apparatus / Consumables Required		Number required as per Syllabus	Number available in Working Condition	Remarks
1	Determination of Voids ratio and porosity of sand.	Pycnometer		04	04	
2	Determination of liquid limit and plastic limit of the given soil.		evice with all sories	02	02	
3	Determination of bulk density and specific gravity of Fine aggregates.	Pycnometer		04	04	
4	Determination of bulk density and specific gravity of Coarse aggregates.	Pycno	meter	04	04	

	90				
5	Proctor's compaction test on soil.	Proctor compaction mould with all accessories	02	02	
6	Direct shear test on sand.	Direct shear machine with complete accessories	01	01	
7	Field Density of Soil by core cutter method / sand replacement method.	Field density of soil apparatus (sand pouring cylinder) with complete set	02	02	
8	Attrition test on Aggregate	Devals attrition testing machine with complete accessories	01	01	
9	Abrasion test on Aggregate	Dorry's abrasion testing machine with complete accessories	01	01	
10	Aggregate crushing value test.	Crushing strength apparatus	01	01	
11	Aggregate impact value test.	Aggregate impact testing machine with complete accessories	01	01	

12	Determination of Water absorption of coarse aggregate.	-	-	_	
13	Determination of Total solids present in the given sample of water.	-	-		
14	Determination of Turbidity of water by "Jackson candle turbidity meter."	Jackson Candle Turbidity Meter	01	01	
15	Determination of settleable solids present in the given sample of water/waste water by "Imhoff cone."	Imhoff Cone	01	01	
16	Determination of Organic and inorganic matters present in the given sample of water.	-	5	-	

Institution Code	Institution Name		Course Code		Course Nam	e	
816	SHREE VENKATESWHARA HI-TECH P COLLEGE	SHREE VENKATESWHARA HI-TECH POLYTECHNIC COLLEGE 1010			CIVIL ENGINEERING		
Subject Code	Na	Name of the Practical Subject					
4010460	CONSTR	CONSTRUCTION PRACTICE LABORATORY					
Exercise No	Name of the exercise		/ Apparatus / es Required	Number required as per Syllabus	Number available in Working Condition	Remarks	
1	Identify various sizes of available coarse aggregates from sample of 10 kg in laboratory and prepare report (60,40, 20,10 mm)	Aggregate Basic materials					
2	Identify the available construction materials in the laboratory on the basis of their sources.			As required	As required		
3	Identify the grain distribution pattern in given sample of teak wood in the laboratory and draw the various patterns. (along and perpendicular to the grains)	Wo	ood				

9	adopting safe practices. Prepare mortar using cement and Sand/ Fly ash or Granite/marble polishing waste in the proportion 1:6 or 1:3.	Cement , Sand		
8	Apply two or more coats of selected paint on the prepared base of a given wall surface for the area of 1m x 1m using suitable brush/rollers	Paint		
7	Apply the relevant termite chemical on given damaged sample of timber.	Termite proof		
6	Measure dimension of 10 bricks and find average dimension and weight. Perform field tests - dropping, striking and scratching by nail and correlate the results obtained.	Bricks		
5	Select first class, second class and third class bricks from the stake of bricks and prepare report on the basis of its properties.	Bricks		
4	Identify various layers and types of soil in foundation pit by visiting at least 3 construction sites in different locations of city and prepare report consisting photographs and samples.	-		

			, ,		
10	Prepare and develop a centre line plan, foundation Plan and set out spread footing in the field for the given line sketch of a building.	Pegs, Thread, Lime powder, Tape			
11	Prepare and develop a centre line plan, foundation Plan and set out the layout of columns and footing in the field for the given line sketch of a building (Framed structure).	Pegs, Thread, Lime powder, Tape			
12	Arrangement of bricks using English bond for one brick thick wall and one and half brick thick wall for right angled corner junction.	Bricks			
13	Arrangement of bricks using English Bond for one brick thick wall, one and half brick thick wall for Tee junction.	Bricks			
14	Arrangement of bricks using English bond for one brick thick, one and half and two brick thick square pillars.	Bricks			
15	Cutting, hooking, cranking and arrangement of reinforcement for: a.Singly reinforced Beam b Lintel and sunshade c Column and footing	Bar bending tools		1	

Institution Code	Institution Name		Course Code		Course Nam	e
816	SHREE VENKATESWHARA HI-TECH POLYTECHNIC COLLEGE 1010			CIV	IL ENGINEEI	RING
Subject Code	Na	Name of the Practical Subject				
4010470	5	SURVEYING PE	ACTICE- II			
Exercise No	Name of the exercise	Equipments Consumabl		Number required as per Syllabus	Number available in Working Condition	Remarks
1	Study of a Theodolite – Temporary adjustments Reading horizontal angles.					
2	Measurement of horizontal angle by: i. Reiteration method (not for Exam) ii. Repetition method (not for Exam)					
3	Determination of distance between two points when their bases are accessible, using Theodolite – Measuring Horizontal angles by repetition method and distances from a Theodolite Station.	Vernier Theodolite		06	06	
4	Determination of distance between two points when their bases are inaccessible, using Theodolite - Measuring Horizontal angles by reiteration method from a baseline.					
5	Measurements of vertical angles to different points.					

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6	Determination of Elevation of an				
	object when the base is accessible.				
	Determination of Elevation of an				
	object when the base is inaccessible				
7	by:				
	a) Single plane method				
	b) Double plane method.				
	Run a closed theodolite traverse for				
8	measuring length, included angles				
	and bearing at initial				
	Station and Plot the traverse				
9	Determination of constants of a				
9	tacheometer.				
	Determination of distance and				
10	elevation of points by Stadia			06	
	tacheometry.	Tacheometer	06		
	Determination of gradient between			06	
11	two points (with different				
	elevations) by Stadia tacheometry.				
	Determination of distance and				
12	elevation of points by Tangential				
	tacheometry.				
	Study of Total Station General				
13	commands used - Instrument				
	preparation and setting Reading	Total Station	02		
	distances and angles. Measurement of distances and co-			02	
14					
14	ordinates of given points, using Total station.				
L	Total Station.				

15	Measurement of altitude of given elevated points, using Total Station.		
16	Run closed traverse using Total Station and plotting the traverse .		
17	Determination of area of a field / land / College Campus etc. using Total station.		

Institution Code	Institution Name		Course Code		Course Name		
816	SHREE VENKATESWHARA HI-TECH P COLLEGE			CIV	CIVIL ENGINEERING		
Subject Code	Na	Name of the Practical Subject					
4010540	CIVIL ENGINEE	CIVIL ENGINEERING DRAWING AND CAD PRACTICAL - II					
Exercise No	Name of the exercise	Equipments / required availal Apparatus / as per in Work		Number available in Working Condition	Remarks		
1	LPUBLIC HEALTH ENGINEERING Rapid sand filter						
2	Septic tank with dispersion trench / Soak pit.	Drawing table with board		30	30		
3	RCC square overhead tank supported by four columns.						

4	II.BRIDGE DRAWING Steel foot over bridge across a highway				
5	Two span tee beam bridge with square returns.				
6	III.STRUCTURAL ENGINEERING Continuous one-way slab (with three equal spans)	Computers Laser printer CAD Software	30 01 30	30 01 30	
7	Simply supported two-way slab				
8	Restrained two-way slab				
9	Singly reinforced rectangular beam				
10	Doubly reinforced continuous beam (Rectangular beam with two spans)				
11	Tee Beams supporting continuous slab				
12	Lintel and sunshade				
13	Dog legged staircase				
14	R.C.C Column with square isolated footings exercises				

Institution Code	Institution Name		Course Code	Co	ourse Name	
816	SHREE VENKATESWHARA HI-TECH P COLLEGE	OLYTECHNIC	1010	CIVII	. ENGINEERI	NG
Subject Code	N	ame of the Pra	ctical Subject			
4010550	ENVIRONM	IENTAL ENGIN	EERING LABO	RATORY		
1	Collection of water samples from sources and Estimation of sulphate content in water sample.	Spectrometer tubes	r, Nessler	1	1	
2	Determination of PH value by Electrometric method using Ph Meter/ Calorimetric method and comparison by paper method.	PH meter, PH Universal ind		2	2	
3	Determine the optimum dose of coagulation in a given raw water sample by jar test.	Jar Test appa	ratus	1	1	
4	Determine the dissolved oxygen in the given sample of water.	BOD bottle w	ith stopper	1	1	
5	Determination of suspended solids and dissolved solids present in the given sample of water/waste water	Porcelain dis	h ,oven	1	1	
6	Determination of Temporary and permanent Hardness present in the given sample of water by EDTA titration method.	Burette ,pipe flask, beaker	tte, conical	15	15	
7	Estimation of chlorides in the given sample of water by silver titration method.	Burette ,pipe flask, beaker	tte, conical	15	15	

8	Prepare a report of a field visit to water treatment plant.	Field visit/Report		-	
9	Study of pipe fitting used in water supply(with actual models displayed on board)	Pipe fitting	Each	Each	
10	Study of sanitary wares (with actual models displayed on board)	Sanitary wares fitting	Each	Each	
11	Cutting, threading and joining of G.I pipes/ cutting and pasting of PVC pipes using solvents.	Bench vice, PVC pipe, GI pipes, Hacksaw frame, Die set with die, Solvent	Each	Each	
12	Making a bathroom connection from an existing water supply main(making indents, drawing a neat sketch of the connection with details)	Pipe fittings	Each	Each	
13	Making suction and delivery pipe connection to a centrifugal pump(making indents, drawing a neat sketch of the connection with details)	Foot valve, Pipe Fitting	Each	Each	
14	Study of air pollution control equipments(Gravity settling chamber, cyclone filter with models /devices)	Cyclone filter	1	1	
15	Prepare a report of a field visit to sewage treatment plant	Field visit/Report	-	- 1	

Institution Code	Institution Name Course Code		Course Name		e		
816	SHREE VENKATESWHARA HI-TECH P COLLEGE	OLYTECHNIC	1010	CIVI	L ENGINEER	RING	
Subject Code	N:	Name of the Practical Subject					
4010562	CONC	RETE TECHNO	LOGY PRACTIC	CAL			
1	Determination of the fineness of cement by blains permeability apparatus or bye sieve analysis	Sieve no 9		2	2		
2	Determination of initial setting time of cement by using vicat's apparatus	Vicat's apparatus with needle for initial setting time		2	2		
3	Determination of final setting time of cement by using vicat's apparatus	Vicat's apparatus with needle for final setting time		2	2		
4	Shape test for coarse aggregate - Flakiness Index test	Standard thio IS sieve	ckness gauge,	1	1		
5	Shape test for coarse aggregate - Elongation Index test	Length gauge, IS sieve		1	1		
6	Shape test for coarse aggregate - Angularity number test	Metal cylinde	er , tamping	1	1		

7	Determine the building characteristics of given sand sample	Measuring jar, mixing pan	1	1	
8	Determination of workability of concrete by slump cone test	Slump cone apparatus	2	2	
9	Determination of workability of concrete by compaction factor test	Compaction factor apparatus	1	1	
10	Casting of concrete cube and compression test on concrete cube	Concrete cube mould (150x150x150)	9	9	
11	Determination of fineness modulus of fine aggregate sample and plot a particle size distribution curve and also find the effective size and uniformity co-efficient	Sieve set for fine aggregate	2	2	
12	Determination of fineness modulus of coarse aggregate sample by conducting sieve analysis	Sieve set for coarse aggregate	2	2	
13	Vee-Bee Consistometer test on concrete test	Vee-Bee Consistometer	1	1	
14	Study of workability of self compacting concrete	Slump cone apparatus	2	2	

Institution Code	Institution Name	Course Code	Course Name					
816	SHREE VENKATESWHARA HI-TECH POLYTECHNIC COLLEGE	1010	CIVIL ENGINEERING					
Subject Code	Name of the Practical Subject							
4010640	COMPUTER APPLICATIONS IN	CIVIL ENGINEERING	G PRACTICI	E				
1	Prepare the Estimate sheet with given data (provide all the measurement details) and calculate the quantity using formula bar.	Computers						
2	Prepare the Abstract sheet for the given data and calculate Amount and Total Amount using Formula bar (Use separate column for rates and	Laser Printer Auto Cad- Auto	30	30				
3	units) Design and Analysis problems 1. Calculate Area and Elongation using Formula bar 2. Calculate Effective depth,,d" and Area of Steel ,,Ast"using Formula Bar for given singly reinforced section.	Rebar Microsoft Office - Project						
4	For given dimension of Masonry/R.C.C Dam ie. top width, bottom width, height of Dam, height of water, Specific weight of masonry/R.C.C., Sp.wt of Water etc,. Find the base pressure and check the stability of the dam.	Staad Pro V8i Gis Software-						
5	Finding centre of gravity; Ixxand IYY of I, L, T and channel sections	Espactialc						

		 	_
6	Continuous one way slab (with three equal spans)		
7	Simply supported two-way slab		
8	Restrained two - way slab		
9	Singly reinforced rectangular beam		
10	Doubly reinforced continuous rectangular beam with two equal span		
11	Dog-legged staircase		
12	R.C.C Column with square Isolated footing		
13	Carry out the analysis and design of simple RCC structures using any one of the available packages like STAADPRO, ETAB, CADS3D or any other suitable packages.		
14	Develop the CPM / PERT Network for the proposed simple building project using any one of the available packages mentioned below or any other suitable packages.		
15	Develop Aerial map of given area using any one of the available packages mentioned below or any other suitable packages.		

Institution Code	Institution Name	Course Code	Course Name			
816	SHREE VENKATESWHARA HI-TECH POLYTECHNI COLLEGE	1010	1010 CIVIL ENGINEERING			
Subject Code	Name of the P	ractical Subject				
4010651	ESTIMATION AND CO	OSTING LABORAT	ГORY			
Exercise No	Name of the exercise	Number required as per Syllabus	Number available in Working Condition	Remarks		
1	Prepare the list of items to be executed with units for detailed estimate of a given structure from the given drawing.	Œ	-	=		
2	Prepare a report on market rates for given material, labour wages, hire charges of tools & equipments required to construct the given structure as mentioned in at Serial number 1 above	-	-	-		
3	Recording in Measurement Book (MB) for any four items	Ε	=	-		
4	Prepare bill of quantities of given item from actual measurements. (any four items).	-	-			
5	Prepare approximate estimate for the given engineering works	=		H		
6	Calculate the quantity of items of work from the given set of drawings using standard measurement sheet for load bearing residential structure using description of item from (1BHK	Ξ	-	-		

	Building with staircase).				
7	Prepare detailed estimate from the given set of drawings using "standard measurement and abstract format" for RCC framed structure using description of item (G+1Building)	-	-	-	
8	Calculate the reinforcement quantities from the given set of drawings for a room size of 3 m x 4m with bar bending schedule.	6	-	-	
9	Prepare detailed estimate of bitumen road of one kilometre length from the given drawing.	-	-	-	
10	Prepare detailed estimate of small Septic tank from the given set of drawings	-	-	-	
11	Prepare bar bending schedule for the given singly reinforced and doubly reinforced beams		-	-	
12	Prepare bar bending schedule for the given continuous beam	-	-	-	
13	Prepare bar bending schedule for the given one way slab		-	-	
14	Prepare bar bending schedule for the given two way slab		-	-	
15	Prepare bar bending schedule for the given square column and square footing		-	-	

Institution Code	Institution Name	Course Code	Course Name				
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE	1020	MECHANICAL ENGINEERING				
Subject Code	Name of the Practical Subject						
4020350	Machine Drawing And Cad Practical						
4020360	Manufacturing Technology – I Practical						
4020370	Measurements And Metrology Practical						
4020450	Strength Of Materials And Fluid Mechan	ics Practical					
4020460	Manufacturing Technology-II Practical						
4020470	Electrical Drives And Control Practical						
4020540	Process Automation Practical						
4020550	Thermal Engineering Practical						
4020561	Computer Integrated Manufacturing Pra	ectical					
4020570	Entrepreneurship& Startup						
4020640	Solid Modeling Practical						
4020653	Automobile Technology Practical						
4020660	Project Work And Internship						

Institution Code	Institution Name				Course Name	
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE 1020 MECHANICAL E				ANICAL ENGIN	EERING
Subject Code	Na	me of the Pra	ctical Sul	oject		
4020350	MACHINE	DRAWING A	ND CAD I	PRACTICAL		
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Condition	Remarks
Draw The Front View / Sectional Front View (Full Section / Half Section) And Top View / Left Side View / R Side View For The Following Given Part Drawing Of The Components After Assemble In The Drawing Sheet And Cad Package.						
1	To create the assemble Front View / Sectional Front View for sleeve and cotter joint					
2	To create the assemble Front View / Sectional Front View for screw jack					
3	To create the assemble Front View / Sectional Front View for Plummer block	Personal co	•	30 sufficient	30 sufficient	
4	To create the assemble Front View / Sectional Front View for simple eccentric	Printe		01	01	
5	To create the assemble Front View / Sectional Front View for machine vice					
6	To create the assemble Front View / Sectional Front View for flanged coupling					

Institution Code	Institution Name Course Code Course Name			ne			
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE		1020	1020 MECHANICAL ENGINEERING			
Subject Code		Name of the Practical Subject					
4020360	MANUF	ACTURING T	ECHNOLOGY-	I PRACTICAL			
Exercise No	Name of the exercise	Equipments / Apparatus / Consumables Required		Number required as per Syllabus	Number available in Working Condition	Remarks	
	Prepare the specimen and make			10	10		
01	the Step turning & Taper turning			10	10		
		1		10	10		
02	Prepare the specimen and make the Step turning & Knurling			10	10		
	Prepare the specimen and make	1000 01		10	10		
03	the Step turning &BSW Thread cutting		r Lathe t cutting tool	10	10		
0.4	Prepare the specimen and make			10	10		
04	the Shaft and Bush			10	10		
	Prepare the specimen and make			10	10		
05	the Step turning & BSW and Metric Thread			10	10		
06	Prepare the specimen and make the Eccentric turning			10	10		

			10	10	
			05	05	
07	07 Prepare the green sand moulding using any one Solid Pattern		10	10	
			20	20	
		Patterns	05	05	
08	Prepare the green sand moulding using any one Split Pattern	Cope box, Drag box Runner & riser	10	10	
			20	20	
	Prepare the green sand moulding		05	05	
09	using any one Loose Piece		10	10	
	pattern		20	20	
		Arc welding booth	02	02	
10	Prepare the specimen and make the Lab joint by the Arc Welding	Safety Glass	10	10	
	the bab joine by the rate welding	Electrode 10 SWG	200	200	
	Prepare the specimen and make	Gas welding unit	01	01	
11	the the	Gas welding goggles	02	02	
	Corner joint by the Gas Welding	Flux chipping hammer	04	04	
12	Prepare the specimen and make the Butt joint by the Spot welding	Spot welding machine	01	01	·

Institution Code	Institution Name Course Code				Course Na	ıme	
816	SHREE VENKATESHWARA HI-TEC POLYTECHNIC COLLEGE	Н	1020	МЕСН	IANICAL EN	GINEERING	
Subject Code	Nan	Name of the Practical Subject					
4020370	MEASUREME	NTS AND	METROLOGY P	RACTICAL			
Exercise No	Name of the exercise	Equipments / Apparatus / Consumables Required		Number required as per Syllabus	Number available in Working Condition	Remarks	
01	Measure the dimensions of ground MS flat / cylindrical bush using Vernier Caliper compare with Digital / Dial Vernier Caliper.	Vernier Caliper Digital / Dial Vernier Caliper		02	02		
02	Measure the diameter of a wire using micrometer and compare the result		nicrometer	02	02		
02	with digital micrometer	Digital / I microme		02	02		
03	Measure the thickness of ground MS plates using slip gauges	Slip gaug	es	02	02	is a second	
	Measure the inside diameter of the bore of a bush cylindrical component using	Inside mi	crometer	02	02		
04	inside micrometer compare the result with digital micro meter	Digital inside micrometer		02	01		
05	Measure the height of gauge blocks or parallel bars using Vernier height gauge	Height gauge		01	01		
06	Detect of cracks of the given two specimens using liquid penetrant test and	Magnetic	yoke	01	01		

	magnetic particle test				
07	Measure the angle of a V-block / Taper Shank of Drill / Dovetail using universal bevel protractor	Universal bevel protractor	02	02	
		Sine bar	02	02	8
08	Measure the angle of the machined surface using sine bar with slip gauges	Slip gauge	02	02	
09	Measure the geometrical dimensions of V-Thread using thread micrometer	Thread micrometer	01	01	
10	Measure the geometrical dimensions of spur gear	Gear tooth Vernier	02	02	
11	Find out the measurement of given component and compare with a standard component using mechanical comparator and slip gauge	Mechanical comparator	02	02	
	Duanana a ana simon ta avamin J fi J	Abrasive grinder	01	01	
12	Prepare a specimen to examine and find the grain structure using the	Polishing Machine	01	01	
	Metallurgical Microscope	Mounting machine	01	01	

Institution Code	Institution Name Course Code				Course Na	ame	
816	SHREE VENKATESWHARA HI-TECH P COLLEGE	SHREE VENKATESWHARA HI-TECH POLYTECHNIC COLLEGE 1020 MECHANICAL ENGINEERING					
Subject Code		Name of the Practical Subject					
4020450	STRENGTH OF M	ATERIALS ANI	FLUID MECH	ANICS PRA	CTICAL		
Exercise No	Name of the exercise	Equipments , Consumable	/ Apparatus / es Required	Number required as per Syllabus	Number available in Working Condition	Remarks	
1	Test On Ductile Materials	Utm.		01	01		
2	Hardness Test		Hardness Machine	01	01		
		Torsion Tes	ting Machine	01	01		
3	Torsion Test	Vernier Caliper		02	02		
4	Impact Test	Impact Testing Machine		01	01		
5	Tests On Springs Of Circular Section		Testing ements	01	01		

		Vernier Caliper	02	02	
6	Shear Test	Shear Testing Machine	01	01	
7	Verify The Bernoulli's Theorem	The Bernoulli's Apparatus	01	01	
8	Determination Of Co-Efficient Of Discharge Of A Mouth Piece By Variable Head Method	Mouthpiece Apparatus	01	01	
9	Determination Of Co-Efficient Of Discharge Of A Venturimeter	Venturimeter Apparatus	01	01	
10	Determination Of The Friction Factor In A Pipe	Pipe Friction Apparatus	01	01	
11	Performance Test On Reciprocating Pump And To Draw The Characteristics Curves	Reciprocating Pump Apparatus	01	01	
12	Performance Test On Impulse Turbine And To Find Out The Efficiency	Impluse Turbine Apparatus	01	01	

Institution Code	Institution Name		Course Code		Course Nam	ie		
816	SHREE VENKATESWHARA HI POLYTECHNIC COLLEGI		1020	MECHANICAL ENGINEERING				
Subject Code	Name of the Practical Subject							
4020460	MANU	MANUFACTURING TECHNOLOGY-11 PRACTICAL						
Exercise No	Name of the exercise	Equipments / Apparatus / Consumables Required		Number required as per Syllabus	Number available in Working Condition	Remarks		
	Make W Disab Using Chaning	Shaping Machine		02	02			
1	Make 'V' Block Using Shaping Machine	Tools And Measuring Gauge		Sufficient Quantity	Sufficient Quantity			
	Make Dovetail Using Shaping	Shaping Machine		02	02			
2	Machine Machine		d Measuring auge	Sufficient Quantity	Sufficient Quantity			
	Mala Cuasus Cut Hains Slatting	Slottin	g Machine	01	01			
3	Make Groove Cut Using Slotting Machine	A	Tools And Measuring Gauge		Sufficient Quantity			
4	Make Round To Hexagon In Milling Machine.	Universal Milling Machine		02	02			
5	Make Spur Gear Using Milling Machine	1	sal Milling achine	02	02			

6	Make Helical Gear Using Milling Machine	Universal Milling Machine	02	02	
7	Make Slot Cut Using Milling	Veritical Milling Machine	02	02	
,	/ Machine	Tools And Measuring Gauge	Sufficient Quantity	Sufficient Quantity	
8	Make Progressive Type Plug Gauge Using Cylindrical Grinding Machine	Cylindrical Grinding	01	01	
8		Measuring Gauge	Sufficient Quantity	Sufficient Quantity	
9	Make A Turning Tool Using Tool And Cutter Grinder	Tool And Cutter Grinder	01	01	
10	Make Plain Surfaces (Four	Surface Grinder	01	01	
10	Surfaces)Using Surface Grinder	Measuring Gauge	Sufficient Quantity	Sufficient Quantity	
11	Make The Component In The Cnc Turing Centre	Cnc Turning Centre	01	01	
12	Make The Component In The Cnc Milling Centre	Cnc Milling Centre	01	01	

Institution Code	Institution Name	Course Code		Course Na	ame	
816	SHREE VENKATESWHARA HI-TECH POLYTECHNIC COLLEGE 102			МЕСН	HANICAL EN	GINEERING
Subject Code	Name of the Practical Subject					
4020470	ELECTI	RICAL DRIVES	AND CONTROL PR	ACTICAL		
Exercise No	Name of the exercise	Equipments / Apparatus / Consumables Required		Number required as per Syllabus	Number available in Working Condition	Remarks
		Resistor 1kΩ		1	1	
1	Verification Of Ohm's Law	DC Ammeter	0-100mA	1	1	
		DC Voltmeter 0-30V		1	1	
		DC Voltmeter	· 0-300V	1	1	
		Rheostat - 30	00 Ω/1Α	1	1	
2	Load Test On Dc Shunt Motor	DC Ammeter	0-10A	1	1	
		Three Point Starter 20A, 220V		1	1	
		AC Ammeter	0-10A	2	2	
3	Load Teston Single Phase Induction	AC Voltmeter 0-300V		3	3	
	Motor	Wattmeter - 9	various ranges /,5/10A	3	3	

		Loading Rheostat 5A,230V	1	1	
		AC Ammeter 0-10A	1	1	
		Wattmeter 600V/10A UPF	2	2	
4	Load Test On Three Phase Squirrel Cage Motor	Tachometer	1	1	
		DOL Starter 16A, 415V	1	1	
	Testing Of Relays, Contactors, Push Buttons And Limit Switch	Star Delta Starter 20A,600V	1	1	
		Over Load Relay 1 to 2.5A	1	1	
5		Air Break Contactors 20A,220V	4	4	
		Push Button 2A,220V	2	2	
		Limit Switch 20A, 220V	1	1	
	Connection And Testing Of Mcb, Elcb	MCB 20A ,single pole	1	1	
6		MCB 20A ,double pole	1	1	
		ELCB 2POLE 20A, 100mA	1	1	
		ELCB 4POLE 20A, 100mA	1	1	

		Transformer 230/9-0-9V,1A	2	2	S.
	Construction And Testing Of	Resistor 1kΩ/1/2W	3	3	
7	Halfwave And Fullwave Rectifier	Diode 1N4001	2	2	
		Capacitor 1000μF/25V	4	4	
8	Construction And Testing Of Ic Voltage Regulator Using Ic 7805	IC 7805	1	1	
9	Verification Of Truth Tables For Logic Gates	Logic gates IC 7400,7408,7432,7404,7402, 7486	Each 1	Each 1	
10	Verification Of Universal Gates	Logic gates IC 7402, 7400	1	1	
11	Identification And Testing Of Display Devices - Led, 7segment Led, Laser Diode	LED,7 Segment LED, Laser diode	1	1	
12	Testing Of Stepper Motor Drive	Stepper motor Driver kit	1	1	
13	Testing Of Servomotor Drive	Servo motor Driver kit	1	1	

Institution Code	Institution Name Course Code			Course Name		
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE 1020			MECHANICAL ENGINEERING		
Subject Code		Name of th	ne Practical Su	bject		
4020540	P	PROCESS AUTOMATION PRACTICAL				
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Condition	Remarks
01	Direct operation of single and double acting cylinder	Pneumatic training kit		03	02	
02	Operation of double acting cylinder with quick exhaust valve			03	02	
03	Speed control of double acting cylinder using metering-in and metering-out Circuits			03	02	
04	Automatic operation of double acting cylinder in single cycle - using limit Switch.			03	02	

05	Direct operation of double acting cylinder	Hydraulics Trainer Kit	02	01	
06	Direct operation of hydraulic motor		02	01	
07	Speed control of double acting cylinder metering-in and metering-out control.		02	01	
08	Direct operation of a motor		03	02	
00	using latching circuit.		10	10	
09	Operation of a motor using		03	02	
0,7	'AND' logic control		10	10	
10	Operation of a motor using 'OR'		03	02	
10	'control.		10	10	
11	On-Delay control of a motor and		03	02	
11	Off -Delay control of a motor.	PLC kit	10	10	
	Automatic operation of a Double	Computer with software	03	02	
12	acting cylinder-single cycle forward, time delay, return		10	10	
	Automatic operation of Double		03	02	
13	acting cylinder-Multi cycle		10	10	
•	Sequential operation of double		03	02	
14	acting cylinder and a motor		10	10	

Institution Code	Institution Name		Course Code	Co	ourse Nam	ie
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE 1020			MECHAN	ICAL ENGI	NEERING
Subject Code	Na	Name of the Practical Subject				
4020550	THERM	1AL ENGINEER	ING PRACTICAI	L.		
Experimen t No	Name of the Experiment		/ Apparatus / les Required	Number Require d as per Syllabu s	Number availabl e in Workin g Conditi on	Remarks
01	Flash and fire point of the given oil using open cup and closed cup	Open cup apparatus		02	02	
01	Apparatus	Close cup apparatus		02	02	
02	The absolute viscosity of the given lubricating oil using Redwood Viscometer	Redwood viscometer		02	02	
03	The absolute viscosity of the given lubricating oil using Say bolt Viscometer	Say bolt viscometer		02	02	
04	Port timing diagram of two stroke petrol Engine	Two stroke p Model	etrol engine	02	02	

05	Valve time diagram for four stroke petrol Engine	Four stroke petrol engine Model	02	02	
06	Valve time diagram for four stroke diesel engines	Four stroke diesel engine Model	02	02	
07	Load test (Performance test) on Four Stroke Petrol Engine	Four stroke Petrol Engine Test rig	01	01	
08	Load test (Performance test) on Four Stroke diesel Engine	Four stroke Diesel engine Test rig	01	01	
09	Morse test on Multi-cylinder petrol engine	Multi -cylinder petrol engine test rig	01	01	
10	Heat balance test on Four Stroke Diesel / Petrol Engine	Four stroke Diesel engine Test rig	01	01	
11	Volumetric efficiency of Air Compressor.	Air compressor test rig	01	01	
12	Determination of COP of Refrigeration System	Refrigeration Test rig	01	01	

Institution Code	Institution Name		Course Code		Course Na	ıme
816	SHREE VENKATESHWARA HITEC PO COLLEGE	1020	МЕСН	ANICAL EN	GINEERING	
Subject Code		Name of the P	ractical Subje	:t		
4020561	COMPUTER I	NTEGRATED M	IANUFACTURI	NG PRACTI	CAL	
Experiment No	Name of the Experiment	Equipments , Consumable	/ Apparatus / es Required	Number Required as per Syllabus	Number available in Working Condition	Remarks
01	Geneva Wheel					
02	Bearing Block					
03	Bushed bearing	Personal computer	30	30		
04	Gib and Cotter joint		3D Solid Modeling sufficient software	sufficient 01	sufficient 01	
05	Screw Jack	Laser / Ink	ijet Printer	01	01	
06	Universal Coupling					

07	Using Linear and Circular interpolation - Create a part program and produce component in the Machine Using Stock removal cycle - Create a				
08	part program for multiple turning operations and produce component in the Machine				
09	Using canned cycle - Create a part program for thread cutting, grooving	Personal computer CNC milling	30 02	30 01	
10	Using Linear interpolation and Circular interpolation - Create a part program for grooving and produce component in the Machine	Consumable Laser / Inkjet Printer	Sufficient 01	Sufficient 01	
11	Using canned cycle - Create a part program for drilling, tapping, counter sinking and produce component in the Machine.				
12	Using subprogram - Create a part program and produce component in the Machine				

Institution Code	Institution Name	Course Code	Course Name				
816	SHREE VENKATESWHARA HI-TECH POLYTECHNIC COLLEGE	1020	MECHANICAL ENGINEERING				
Subject Code	Name of the	e Practical Subject					
4020640	SOLID MOD	ELING PRACTICAL					
1	3D Modeling Of Model 1						
2	3D Modeling Of Model 2						
3	3D Modeling Of Model 3						
4	3D Modeling Of Model 4		Sufficient Sufficient				
5	3D Modeling Of Model 5						
6	3D Modeling Of Model 6	CREO					
7	Draw The Part Models And Assembling Of Revolving Center	Computer	30	30			
8	Draw The Part Models And Assembling Of Tail Stock						
9	Draw The Part Models And Assembling Of Machine Vice						
10	Draw The Part Models And Assembling Of Crank Hook						
11	Draw The Part Models And Assembling Of Connecting Rod						
12	Draw The Part Model And Assembling Of Pipe Vice						

Institution Code	Institution Name Course Code				Course Name		
816	SHREE VENKATESWHARA HI-TECH POLYTECHNIC COLLEGE 1020			МЕСН	HANICAL EN	GINEERING	
Subject Code		Name of the P	ractical Subje	ct			
4020653	AUTO	MOBILE TECH	NOLOGY PRA	CTICAL			
Experiment No	Name of the Experiment			Number Required as per Syllabus	Number available in Working Condition	Remarks	
1	Dismantling and assembling of four stroke petrol engine and identification of parts	4 Stroke Petrol Engine		01	03		
2	Removing camshaft, replacing timing gears, removing valves, lapping and adjusting valve clearance	4 Stroke Diesel Engine		01	03		
	Removing, servicing and replacing	Oil p	ump	01	02		
3	of fuel pump, oil pump & water pump	Water	pump.	01	02		
4	Removing, servicing & replacing MPFI system	MPFI S	System	01	01		
5	Dismantling and assembling of inline fuel injection pump / CRDI system	CRDI system		01	01		
6	Test a battery with specific gravity test and charge the battery with constant amperage / voltage method.		charging set p.	01	01		

Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required	Number Required as per Syllabus	Number available in Working Condition	Remarks
7	Removing and replacing of pressure plate and clutch plate, fingers adjustment	Clutch set arrangement with tools	01	02	
8	Dismantling, inspecting and assembling of constant mesh gear box and find Out the gear ratios.	Complete gear box with tools	01	01	
9	Dismantling, assembling and adjusting of steering gear box	Complete steering arrangement	01	03	
10	Dismantling, overhauling and	starter motor	01	02	
10	assembling of starter motor / alternator	alternator	01	03	
11	Trace the automobile electrical system with respect to battery coil ignition system	battery coil ignition system	01	01	
12	Trace the automobile electrical system with respect to (i) horn relay circuit, (ii)	horn relay	01	01	
	Wiper circuit & explain with neat circuit diagram.	Wiper circuit	01	01	

Institution Code	Institution Name	Course Code	Course Name			
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE	1021	AUTOMOBILE ENGINEERING			
Subject Code	Name of the Practical Subject					
4021350	Material Testing and Fluids Mechanics & Pneumatics Practical					
4021360	Production Technology Practical					
4020370	Measurements and Metrology Practical					
4020350	Machine Drawing And Cad Practical					
4021460	Automobile Electrical And Electronics Sy	stems Pract	ical			
4021470	Automotive Engines Practical					
4021540	Automobile Servicing Practical					
4021550	Engine Testing and Emission Measureme	nt Practical				
4021561	Two- Wheeler and Three- Wheeler Techr	ology Pract	ical			
4020570	Entrepreneurship and Startup					
4021640	Hybrid Electrical Vehicle Practical					
4020561	Computer Aided Design And Manufacturi	ng Practical				
4020660	Project Work And Internship					

Institution Code	Institution Name		Course Code		Course Nam	e		
816	SHREE VENKATESHWARA HI-TE POLYTECHNIC COLLEGE	СН	1021	AUTON	OBILE ENGI	NEERING		
Subject Code	Nan	ne of the Pi	actical Subjec	:t				
4021350	MATERIAL TESTING AND	FLUIDS ME	CHANICS & PN	NEUMATICS	PRACTICAL			
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Condition	Remarks		
	PART A							
1	Tension test on Ductile Materials- Finding Young's Modulus of Elasticity, Yield Points, Percentage Elongation and Percentage Reduction in Area, Stress Strain Diagram Plotting test on Mild Steel with the help of a Universal Testing machine.	Universal Machine (1	1			
2	Torsion test - Torsion test on mild steel - relation between torque and angle of twist determination of shear modulus and shear stress. Draw a graph between torque and angle of twist in radians.	Torsion testing machine		1	1			
3	Test on spring - Compression Tests on open coil spring - Determination of modulus of rigidity, strain energy, shear stress and stiffness by load deflection method. Draw a graph	Spring tes machine	sting	1	1			

	between load and deflection				
4	Test on orifice - Determination of coefficient of discharge of a orifice by variable head method and a graph between $\sqrt{H_1-\sqrt{H_2}}$ Vs time taken (t).	Orifice testing kit setup	1	1	
5	Test on venturimeter - Determination of co-efficient of discharge of the venturimeter and draw the following graphs between (i) head Loss (hf) Vs Actual discharge (Qa) and (ii) head loss (hf) Vs co-efficient of discharge (Cd)	Venturimeter Apparatus	1	1	
6	Test on pipe friction apparatus - Determine the friction factor of the given pipe and draw a graph between friction head (hf) and Velocity (v).	Pipe friction Apparatus	1	1	
		PART B			
7	Direct operation of pilot control of single acting cylinder and double acting cylinder.		2	2	

8	Speed control of double acting cylinder using metering-in and metering-out circuits.	Pneumatic Trainer Kit with all standard accessories	2	2	
9	Automatic operation of double acting cylinder in single cycle – using limit switch.		2	2	
10	Direct operation of double acting cylinder	Hydraulics Trainer Kit with all standard accessories	2	1	
11	Direct operation of hydraulic motor.	Hydraulics Trainer Kit with all standard accessories	2	1	
12	Speed control of double acting cylinder metering-in and metering-out control.		2	1	

Institution Code	Institution Name	Course Code		Course Name			
816	SHREE VENKATESHWARA HITECH POLYTECHNIC COLLEGE	1021	AUTOMOBILE ENGINEERING				
Subject Code	Name of the P	ne of the Practical Subject					
4021360	PRODUCTION TECH	INOLOGY PRACTI	CAL				
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required	Number Required as per Syllabus	Number available in Working Condition	Remarks		
1	Prepare the green sand moulding using any one Solid Pattern in the foundry	Moulding board Cope box Drag box Core box Shovel Rammer set Slick Strike-off bar Riddle Trowel Lifter Cleaning Brush Vent rod Draw spike Gate cutter Runner & riser each	5 Nos 5	5 Nos 5			

2	Prepare the green sand moulding using any one Split Pattern in the foundry				
3	Prepare the specimen and make the T-joint by the Arc Welding (Both sidewelded) (Raw material 25mmX6mm MS flat)	Arcwelding transformer Welding shield Chipping hammer Leather Glows 18"	1 No 5 Nos 10 Nos 10 Set	1 No 5 Nos 10 Nos 10 Set	
4	Prepare the specimen and make the Butt joint by the Gas Welding. (Raw material 25mmX3mm MS sheet)	Gas welding unit Gas welding goggles	1 Set 5 Nos	1 Set 5 Nos	
5	Prepare the specimen and make the drilling and counter boring as shown in figure using the upright drilling machine/ Radial drilling machine.	Upright drilling machine / Radial drilling machine Vernier Height Gauge Surface plate	1 No 1 No 1 No	1 No 1 No 1 No	
6	Prepare the specimen and make the plain surfaces as shown in figure using the surface Grinder.	Surface Grinding Machine	1 No	1 No	

Prepare the specimen and make the Step Turning & Taper Turning as shown in figure using the Lathe.	Lathe	2 No	2 No	
Prepare the specimen and make the Step Turing & Thread cutting as shown in figure using the Lathe.	Lathe	2 No	2 No	
Prepare the specimen and make 'V' Block as shown in figure using Shaping machine	Shaping Machine	1 No	1 No	
Prepare the specimen and make round to square as shown in figure using milling machine	Vertical Milling Machine	1 No	1 No	
Prepare the specimen and make Spur Gear as shown in figure using milling machine by indexing method.	Universal Milling Machine	1 No	1 No	
Prepare the specimen and make the turning tool as shown in figure using the Tool and Cutter Grinder	Tool and Cutter Grinder	1 No	1 No	
	Turning & Taper Turning as shown in figure using the Lathe. Prepare the specimen and make the Step Turing & Thread cutting as shown in figure using the Lathe. Prepare the specimen and make 'V' Block as shown in figure using Shaping machine Prepare the specimen and make round to square as shown in figure using milling machine Prepare the specimen and make Spur Gear as shown in figure using milling machine by indexing method. Prepare the specimen and make the turning tool as shown in figure using the Tool and	Turning & Taper Turning as shown in figure using the Lathe. Prepare the specimen and make the Step Turing & Thread cutting as shown in figure using the Lathe. Prepare the specimen and make 'V' Block as shown in figure using Shaping machine Prepare the specimen and make round to square as shown in figure using milling machine Prepare the specimen and make Spur Gear as shown in figure using milling machine by indexing method. Universal Milling Machine Tool and Cutter Grinder	Turning & Taper Turning as shown in figure using the Lathe. Prepare the specimen and make the Step Turing & Thread cutting as shown in figure using the Lathe. Prepare the specimen and make 'V' Block as shown in figure using Shaping machine Prepare the specimen and make round to square as shown in figure using milling machine Prepare the specimen and make Spur Gear as shown in figure using milling machine by indexing method. Prepare the specimen and make the turning tool as shown in figure using the Tool and Tool and Cutter Grinder	Turning & Taper Turning as shown in figure using the Lathe. Lathe 2 No 2 N

Institution Code	Institution Name Course Cod		Course Code	(Course Name	e
816	SHREE VENKATESHWARA HITECH POLYTECHNIC COLLEGE 1021		1021	AUTOMO	AUTOMOBILE ENGINEERING	
Subject Code	Name o	Name of the Practical Subject				
4020370	MEASUREMENTS	AND ME	ETROLOGY PRAC	CTICAL		
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Condition	Remarks
01	Measure the dimensions of ground MS flat / cylindrical bush using VernierCaliper		· Caliper	02	02	
01 6	compare with Digital / Dial Vernier Caliper.	Digital Caliper	/ Dial Vernier	02	02	
00	Measure the diameter of a wire using	Outside	e micrometer	02	02	
02	micrometer and compare the result with digital micrometer.	Digital micron	Language Color	02	02	
03	Measure the thickness of ground MS plates using slip gauges.	Slip gauges		02	02	
04	Measure the inside diameter of the bore of a bush cylindrical component using	Inside i	nicrometer	02	02	
04	inside micrometer compare the result with digital micro meter.	Digital micron		02	01	

05	Measure the height of gauge blocks or parallel bars using vernier height gauge.	Height gauge	01	01	
06	Detect of cracks of the given two specimens using liquid penetrant test and magnetic particle test.	Magnetic yoke	01	01	
07	Measure the angle of a V-block / Taper Shank of Drill / Dovetail using universal bevelprotractor	Universal bevel protractor	02	02	
08	Measure the angle of the machined	Side bar	02	02	
08	ırface using sine bar with slip gauges	Slip gauge	02	02	
09	Measure the geometrical dimensions of V- Thread using thread micrometer	Thread micrometer	01	01	
10	Measure the geometrical dimensions of spur gear	Gear tooth Vernier	02	02	
11	Find out the measurement of given component and compare with a standard component using mechanical comparator and slip gauge	Mechanical comparator	02	02	
		Abrasive grinder	01	01	
12	Prepare a specimen to examine and find the grain structure using the Metallurgical Microscope	Polishing Machine	01	01	
		Mounting machine	01	01	

Institution Code	Institution Name		Course Code	(Course Name	•	
816	SHREE VENKATESHWARA HI-TECH P COLLEGE	OLYTECHNIC	1021	AUTOMO	AUTOMOBILE ENGINEERING		
Subject Code	Na	Name of the Practical Subject					
4020350	MACHIN	E DRAWING A	ND CAD PRAC	CTICAL			
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Condition	Remarks	
Draw The Front View / Sectional Front View (Full Section / Half Section) And Top View / Left Side View Side View For The Following Given Part Drawing Of The Components After Assemble In The Drawing St Cad Package.							
1	Sleeve & Cotter Joint						
2	Screw Jack	Personal c	omputor	30	30		
3	Plummer Block	CAD sof	•	sufficient	sufficient		
4	Simple Eccentric	Prin	ter	01	01		
5	Machine Vice						
6	Protected Type Flanged Coupling						

Institution Code	Institution Name Course Code		C	Course Name		
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE 1021		AUTOMO	AUTOMOBILE ENGINEERING		
Subject Code	Name o	of the Pra	ctical Subject			
4021460	AUTOMOTIVE ELECTRICAL	L AND ELE	ECTRONICS SYS	TEMS PRAC	TICAL	
1	Testing Of Alternator Parts Such As Stator, Rotor And Rectifier For Resistance, Continuity For Insulation Effectiveness Using Multifunction Tester.	Alternator		2	2	
2	Testing Of Starter Motor Parts Such As Test Field Windings, Brush Holders, Armature And Solenoid Switch For Continuity Using Multifunction Tester.	Starter Motor		2	2	
3	Testing Of Electronics Fuel Ignition System	Electronic Fuel Ignition Systems Kit		1	1	
<u> </u>	Servicing Of The Wiper Motor And Horns	Wiper M	otor	2	2	
4	- Tuning.	HORN		2	2	
5	Identifying And Testing Of The Various Terminals Of 4-Point, 5-Point, 6-Point &	Relay (4 Point, 6	Point, 5 Point,8 Point)	Each 1 No	Each 1 No	
3	8-Point Relays Through Their Markings Using Multifunction Tester.	Digital M	Iultimeter	1	1	
6	Testing Of Stepper Motor Drive	Stepper Motor Drive Kit		1 No	1 No	
7	Construction And Testing Of Half Wave Rectifier, Full Wave Bridge Rectifier	Transfor	mer (230 V/	2	2	

	Without Filters.	Transformer (230 V/ 6 V - 0 V- 6 V	2	2	
		Diode 1n400	10	10	
		Bread Board	2	2	
8	Identification And Testing Of Display	Led	1	1	
o	Devices- Led, 7 Segment Led	7 Segment Of Led	1	1	
		Engine Crankshaft Angular Position Sensor	2	2	
		Speed Sensor	2	2	
9	Testing Of Various Sensors Using Multifunction Tester	Pressure Sensor	2	2	
		Knock Sensor	1	1	
		Oxygen Sensor	1	1	
		Analog Multimeter	1	1	
10	Construction And Testing Of Fuel And	Fuel Gauge	1	1	
10	Temperature Gauges Circuit.	Temperature Gauge	1	1	
	Construction And Testing Of Head Lights,	Head Light	1	1	
11	Parking Lights And Direction Indicators	Parking Light	1	1	
	Circuit.	Direction Indicator	1	1	
12	Connection And Testing Of Mok El-L	Elcb	1	1	
12	Connection And Testing Of Mcb, Elcb	МСВ	1	1	

Institution Code	Institution Name Course Code Course Name				•	
816	SHREE VENKATESHWARA HITEC PO COLLEGE	DLYTECHNIC	1021	AUTON	OBILE ENGIN	EERING
Subject Code	1	Name of the Practical Subject				
4021470	AUT	TOMOTIVE ENG	INES PRACT	ICAL		
Experiment No	Name of the Experiment	Equipments /		Number Required as per Syllabus	Number available in Working Condition	Remarks
	PART - A					
1	Find Flash And Fire Point Of Fuel Using Open Cup And Closed Cup Apparatus And Compare The Value For The Given Sample.	Open Cup App Closed Cup Ap		1	1	
2	Find Viscosity Of Lubricating Oil Using Saybolt Viscometer.	Saybolt Visco	meter	1	1	
3	Find Viscosity Of Lubricating Oil Using Red Wood Viscometer.	Redwood Vis	cometer	1	1	
4	Draw The Port Timing Diagram Of A Single Cylinder Two Stroke Diesel Engine Or Petrol Engine	Two Stroke Diesel Or Petrol Engine Cut Section		1	1	
5	Draw The Valve Timing Diagram Of A Single Cylinder Four Stroke Diesel Engine Or Petrol Engine.	Four Stroke D Petrol Engine		1	1	

6	Determine The Cop Of The Vapour Compression Refrigerator System.	Refrigerator Test Rig	1	1	
		PART - B			
7	Dismantle And Assemble Camshaft, Timing Gear And Valves. Adjust The Valve Clearance.	Four Stroke Diesel Engine Cut Section Model, Cam Shaft, Timing Gear	1	1	
8	Dismantle And Assemble Oil Pump And Water Pump After Inspection And Service.	Oil & Water Pump	1	1	
9	Dismantle And Assemble The Fuel Pump In A Petrol Engine After Inspection And Service.	Fuel Pump	1	1	
10	Dismantle And Assemble The Distributor Pump And Injector After Inspection And Service.	Distributor Pump	1	1	
11	Identify The Components Of The Mpfi System In The Kit.	Mpfi Kit	1	1	
12	Identify The Components Of The Crdi System In The Kit.	Crdi Kit	1	1	

Institution Code	Institution Name	Institution Name Course Code			Course Name		
816	SHREE VENKATESHWARA HI POLYTECHNIC COLLEGE		1021	AUTO	AUTOMOBILE ENGINEERING		
Subject Code	1	Name of the Pr	actical Subject				
4021550	Engine Testi	ng and Emissi	on Measureme	nt Practica	l		
1	Conduct the variable speed performance test of a single cylinder petrol engine	Single cylinder petrol engine		01	01		
2	Conduct the variable speed performance test of a single cylinder diesel engine	Single cylinder diesel engine		01	01		
3	Find the indicated horse power of a multi cylinder engine by morse test	Multi cylinder petrol engine		01	01		
4	Prepare the heat balance sheet on single cylinder diesel engine	Single cylinde engine	er diesel	01	01		
5	Prepare the heat balance sheet on multi cylinder petrol engine	Multi cylinde engine	r petrol	01	01		
6	Analysis of exhaust gases from engine by Orsat apparatus	Orsat appara	tus	01	01		
7	Find the intensity of smoke from a diesel engine using smoke meter	Smoke meter		01	01		
8	Measure the emissions in exhaust of an engine by exhaust gas analyser	Exhaust gas analyser		01	01		
9	Find the calorific value of diesel using bomb calorimeter	Bomb calorin accessories	neter with all	01	01		

Institution Code	Institution Name		Course Course Name			e
816	SHREE VENKATESHWARA HITECH POLYTECI COLLEGE	TECHNIC 1021 AUTOMOBILE ENGINEER			NEERING	
Subject Code	Name of the	Name of the Practical Subject				
4021540	AUTOMOBILE	AUTOMOBILE SERVICING PRACTICAL				
1	Check and identify the status of the following as per the preventive maintenance procedure under the hood as per the service manual of a car.	LMV		02	02	
2	Check and identify the status of the following as per the maintenance procedure of a vehicle cooling system.	Coolant system		01	01	
3	Check and identify the status of the following as per drive train of a car.	Drive train system		01	01	
4	Check and identify the status of the following as per the manual of a vehicle in the brake system.	Brake	system	01	01	
5	Check and identify the status of the following as per the manual of a vehicle in the steering and suspension systems.	Steering system Suspension systems		01 01	01 01	
6	Check and identify the status of the spark plug.	Timin Dwel	ng Light I meter r gauge	01 01 01	01 01 01	

7	Check and identify the status of the Fuel system.	Fuel system	01	01	
8	Check and identify the status of the engine	Oil fillter		01	
	on.	Engine oil		2L	
9	Check and identify the status of the lubrication oil.	Lubricant		2L	
10	Check and identify the status of the tires.	Tires	01	02	
11	Check and identify for the heart burn issues in car.	Engine with Cooling Systems		01	
12	Check, measure and adjust the caster, chamfer, king pin inclination, toe-in and toe-out of a car using Wheel alignment.	Wheel aligner	01	01	
13	Remove the wheel from the vehicle and balance the wheel using wheel balancing machine.	Wheel balancer	01	01	

Institution Code	Institution Name Course Code Course			Course Na	ıme	
816		SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE 1021			MOBILE EN	GINEERING
Subject Code		Name of the Practical Subject				
4021561	TWO- WHEELER A	TWO- WHEELER AND THREE- WHEELER TECHNOLOGY PRACTICAL				
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Condition	Remarks
1	Dismantle, check and assemble the engine cooling system of Two and			2 Nos	5 Nos	
	Three wheeler			1 Nos	2 Nos	
2	Check the engine oil level and replace the oil in Two and Three	Two W	heeler	2 Nos	5 Nos	
	wheeler	Three V	Vheeler	1 Nos	2 Nos	
3	Dismantle and assemble the clutch			2 Nos	5 Nos	
3	used in Two and Three wheeler			1 Nos	2 Nos	

4	Adjust the clutch free play, throttle cable and inspect the common troubles and causes in Two and		2 Nos	5 Nos	
	Three wheeler		1 Nos	2 Nos	
5	Overhaul and lubricate the gear box		2 Nos	5 Nos	
3	of Two and Three wheeler		1 Nos	2 Nos	
6	Dismantle, lubricate and assemble the propeller shaft and differential	Three Wheeler	1 Nos	2 Nos	
7	Dismantle, lubricate and assemble the rear axle of the three wheeler	Three Wheeler	1 Nos	2 Nos	
8	Check frame alignment, dismantle and assemble the leaf spring assembly	Three Wheeler	1 Nos	2 Nos	
9	Dismantle and assemble the front suspension and rear suspension of two wheeler	Two Wheeler	2 Nos	5 Nos	
10	Remove the tire, lubricate bearings, refit and adjust the chain of two wheeler	Two Wheeler	2 Nos	5 Nos	
11	Dismantle, Service and assemble the disc brake system – Master cylinder, Wheel Cylinder, Caliper and brake pad of two wheeler	Two Wheeler	2 Nos	5 Nos	

Institution Code	Institution Name Course Code				Course Nam	e
816	SHREE VENKATESHWARA HI-TECH POLYECHNIC COLLEGE			AUTOM	OBILE ENGI	NEERING
Subject Code	N	ame of the Pra	ctical Subject			
4021640	HYBRII	D ELECTRIC VI	EHICLE PRACT	TICAL		
Experiment No	Name of the Experiment		/ Apparatus les Required	Number Required as per Syllabus	Number available in Working Condition	Remarks
		PART- A				
8	Test The Lead Acid Battery On	Battery		8	8	
1	Open Circuit Voltage, Hydrometer	Battery Load	Tester	2	2	
	And High Discharge Tests	Hydrometer		1	2	
222	Construct A Battery Pack For An	Battery		8	8	
2	Electric Vehicle. (Test The Battery Pack Supply To Glow Head Lamp)	Two Wheele Harness Kit	r Wiring	1	1	
3	Test On Buck Converter (Dc To Dc	Battery		8	8	5
3	Converter)	Buck Conver	ter (24 V)	2	2	
4	Test The Inverter Circuit (Dc To Ac	Battery		8	8	
4	Converter)	Inverter Trainer Kit		1	1	
	Test The Bldc Motor With	Battery		8	8	
5	5 Triggering Angle Or Throttle Control		ontol Or	2	2	

_	Test The Battery Charger Unit And	Battery	8	8	
6	Note The Various Charging Parameters	Battery Charger Unit	2	2	
		PART- B			
	Assemble And Test The Wiring	Battery	8	8	
1	Harness For Two- Wheeler Accessories	Two Wheeler Wiring Harness Kit	1	1	
200.00	Identify And Test Ev Components	Battery	8	8	
2	(Controller, Throttle, Ev Motor, Power On Key & Brake)	E- Bicycle Kit	2	2	
	Test The Lead Acid Battery By	Battery	8	8	
3	Using Battery Voltage Or Current Tester And Indicate The Status	Multi Meter	1	1	
		Voltage Tester	1	1	
		Battery	8	8	
4	Assemble And Test E- Bicycle Wiring Harness	E Bicycle Test	2	2	
	wang na ness	Continuity Tester	1	1	
5	Assemble And Test E- Bike With	E Bike Kit	2	2	
5	Central Drive Mechanism (Chain Drive) Wiring Harness	Battery	8	8	
		E Auto Rickshaw	1	1	
	Assemble And Test E- Auto	Differential Set Up	1	1	
6	Rickshaw With Differential Wiring	Battery	8	8	
	Hai ness	Screw Driver Set	1	1	
		Spanners Set	1	1	

Institution Code	Institution Name	Course Code	(Course Name	•	
816	SHREE VENKATESHWARA HI-TECH I COLLEGE	1021	AUTOMOBILE ENGINEERING			
Subject Code	Na	ıme of the Pra	ctical Subject	÷		
4020561	COMPUTER INT	EGRATED MA	NUFACTURING	G PRACTICA	L	
Experiment No	Name of the Experiment		/ Apparatus les Required	Number Required as per Syllabus	Number available in Working Condition	Remarks
	PART- A	(SOLID MODE	LLING)			
1	Geneva Wheel					
2	Bearing Block					
3	Bushed Bearing	Personal Cor			20	
4	Gib And Cotter Joint	3d Solid Mod Simulation S		30	30	
5	Screw Jack					
6	Universal Coupling					

	PART-B						
1	Using Linear And Circular Interpolation- Create A Part Program And Produce Component In Machine	Cnc Turning Machine					
2	Using Stock Removal Cycle- Create A Part Program For Multiple Turning Operations And Produce Components In The Machine		2	1			
3	Usin Canned Cycle- Create A Part Program For Thread Cutting, Grooving And Produce Component In Machine						
4	Using Linear Interpolation And Circular Interpolation- Create A Part Program For Grooving And Produce Component In Machine						
5	Using Canned Cycle- Create A Part Program For Drilling, Tapping, Countr Sinking And Produce Component In Machine	Cnc Milling Machine	2	1			
6	Using Sub Program- Create A Part Program And Produce Component In Machine						
7		Ink Jet Printer	1	1			

Institution Code	Institution Name	Course Code	Course Name			
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE	1030	ELECTRICAL AND ELECTRONICS ENGINEERING			
Subject Code	Name of the	e Practical Su	bject			
4040340	Electronic Devices and Circuits Pract	ical				
4030350	Electrical Circuits and Machines Prac	tical				
4030360	Electrical Workshop Practical					
4030370	Wiring & Winding Practical					
4030450	Electrical Machines and Instrumenta	tion Practica	I			
4040460	Analog and Digital Electronics Practi	cal				
4030470	Electrical Circuits and Simulation Pr	actical				
4030514	Control of Electrical Machines Practic	cal				
4030540	Computer Aided Electrical Drawing F	Practical				
4040550	Micro Controller Practical					
4040570	Entrepreneurship and Startups					
4030640	Electrical Estimation and Costing Pra	ctical				
4030651	Power Electronics Practical	Power Electronics Practical				
4020660	Project Work & Internship					

Institution Code	Institution Name	Institution Name Course Code		Course Name		
816	SHREE VENKATESHWARA HI-T POLYTECHNIC COLLEGE	ЕСН	1030	DATES AND COORDINGS AND A STATE OF	CAL AND EL ENGINEERI	ECTRONICS NG
Subject Code		Name	of the Practical Subjec	:t		
4030350	ELECTRIC	CAL CIR	CUITS AND MACHINES	PRACTICAL	L	
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Condition	Remarks
1	Verification of Super Position Theorem with two different DC Voltages for a common load.	DC Ser	ries Motor 3/5 KW	1	1	
2	Verification of Thevenin's Theorem with DC Supply	DC Compound Motor 3/5 KW DC Shunt Generator 3/5 KW		1 1	1 1	
3	Measurement of Power a. using Ammeter and Voltmeter b. using Wattmeter for Single Phase Resistive Load.	DC Series Generator 3/5 KW 1 Phase Transformer 1KVA		3	3 1	

4	No load and FULL Load Characteristics of Self Excited DC Shunt Generator.	(or more) 220V/110V 3 Phase Transformer 1KVA (or more) 440V/220V 1 Phase Variac 15 amps	3	3 1	
5	Load Characteristics of Self Excited DC Series Generator.	3 Phase Variac 15 amps Dual Regulated Power	2	2	
		Supply 0-30V/2A	2	2	
6	Load Test on DC Shunt Motor and Draw the Performance Curve.	Single Regulated Power Supply 0-30V / 2A	2	2	
		Single Phase Resistive Load	2	2	
7	Load Test on DC Series Motor and Draw the Performance Curve.	3/5 KW, 220V Three Phase Resistive Load 3KW,415V	3	3	
	n 1	Tachometer Analog type	4	4	
8	Predetermine the Efficiency of DC Machines by Swinburne"s Test.	Rheostat – various ranges $50\Omega/5A,100\Omega/5A,300$	8	8	
9	Speed Control of DC Shunt Motor by a. Armature Control Method b.	Ω/2A, 600 Ω/2A (or equivalent) AC Ammeter – various ranges 0-500mA,0-1/2A, 0-	8	8	
	Field Control Method	5/10A,0-10/20A (or	8	8	

10	Load Test on Single Phase Transformer	equivalent) DC Ammeter – various ranges 0-500mA, 0-2A,0- 5A,0-10A,0-15/30A (or equivalent)	8	8	
11	Load Test on Three Phase Transformer	DC Voltmeter - 0-5/10V, 0- 30V, 0-300V AC Voltmeter - 0-75V, 0- 150V, 0-300V, 0-600V Wattmeter - various	6	6	
12	Predetermine the Efficiency and Regulation of Single-Phase Transformer by conducting O.Cand S.C Tests	ranges LPF 150/300/600V 2.5A/5A,1/2.5A Wattmeter - various ranges UPF -75/150/300,5/10A	EACH 1	EACH 1	
13	Find the Equivalent Circuit Constants of Single-Phase Transformer by conducting O.C and S.C Tests.	Wattmeter – various ranges UPF 150/300/600V 10/20A Transformer oil tester kit, Acidity test kit			
14	Connect two Single Phase Transformers for Parallel Operation.	Towns, corns			
15	a) Perform Breakdown Test And determine the Dielectric Strength of Transformer Oil b) Conduct Acidity Test on Transformer Oil.				

Institution Code	Institution Name Course Cod			Course Name		
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE 1030			ELECTR	CTRONICS G	
Subject Code	1	Name of t	he Practical Su	ıbject		
4030360	ELEC	CTRICAL V	WORKSHOP PE	RACTICAL		
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Condition	Remarks
1	Familiarization of tools used for Electrical repair works and personal Protection Equipments.	Cutting Stripper	crew driver, pliers, Wire r, Hammer, r set, Line	Each 2 set	Each 2 set	
2	Dismantling of Electrical Iron Box, identifying the parts, checking the conditions, assembling, and testing.	Spanner set, Line Tester, Nose pliers. Personal Protective Equipments: Safety helmet, Google, Safety gloves, Nose mask, Ear plug, Safety Belt. Automatic Iron Box		Each 2 set	Each 2 set	
3	Dismantling of Mixer Grinder, identifying the parts, checking the conditions, assembling and testing.			02	02 02	

		Wet Grinder			
4	Dismantling of Wet Grinder, identifying the parts, checking the conditions, assembling, and testing.				
5	Assembling the accessories of Ceiling Fan, test the connections of winding & Capacitor and run the Fan with Speed Regulator.	Mixer Grinder Ceiling Fan	02	02	
6	Connect the Battery and Inverter to supply partial load in a Domestic Wiring during Mains Failure.	LED Light, PCB, Driver Circuit and Outer Cover	10	10	
7	Assembling and testing of 15watts LED Light.	Lead Acid Battery	02	02	
8	Battery Charging through Solar Panel. Connect Solar Panel to charge Battery through Charge Controller.	Inverter Solar Photo Voltaic Module	02 02	02	
9	Dismantling of Induction Heater, identifying the parts, checking the conditions, assembling, and testing	Charge controller	01 08	01 08	
10	Dismantling of Microwave Oven, identifying the parts, checking the conditions, assembling and testing.	Multimeter Induction Heater	01	01	

Institution Code	Institution Name Course Code		C	Course Name	e	
816	SHREE VENKATESHWARA HI- POLYTECHNIC COLLEGE	TECH 1030		ELECTRICAL AND ELECTRONICS ENGINEERIN		
Subject Code	3	Name of the Practical Subject				
4030370	W	RING A	ND WINDING PRACTI	CAL		
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Condition	Remarks
1	Emergency alarm wiring with 3 Bells and 3 Pushbuttons.	SPST Flush Type Switch (250V/5A)		10	13	
2	House Wiring for a Service Connection with Single Phase Digital Energy Meter Cutout, Main Switch, 4 Way D.B, Indicator Lamp.	(250V) Rotary Switch		10 6 2	10 6 2	
3	Wiring and Testing of 3 Phase Supply using 3 Rotary Switches, MCB and DB to change the Phases by connecting Single Phase Lamp Load.	Board Batten Lamp Holder Round Block Switch Board 20cmX15cm		10 20 4 15 5	15 20 4 15 8	
4	Wiring of Single-Phase Motor using Single Phase Main Switch, D.O.L Starter and MCB.	Push Button switch (250 V / 5A) 2 Plate Ceiling Rose (250 V		10	10	
5	Wiring of Three Phase Induction Motor with Main Switch, Star/Delta Starter and	/ 5A) Electri (250 V		3	4	

	ELCB.		3	5	
		Single Phase DPIC Main			
6	Wiring of Sodium Vapor and Mercury Vapor Lamp.	Switch (250 V / 16A)	2	3	
7	Wiring and troubleshooting the Fluorescent Tube light.	Three Phase TPIC Main Switch (500 V / 30A)	1	2	
8	Design and implement a Test Board with Indicator Lamp,	Single Phase DOL Starter (250 V / 10A) Star Delta Starter (440V	1	2	
	Fuse Unit to Test Electrical Appliances.	/5 HP) ELCB (30mA/1000mA)	1	2	
9	Go down / Tunnel wiring using 4 Lamps.	Cutout (16A) 4 Way Distribution	2	2	
10	Controlling a Lamp by Six Places by using Two, 2-Way Switches & Four Intermediate	Box(250V/15A) Mercury Vapour Lamp	1 Set	1 Set	
	Switches.	with Accessories Sodium Vapour Lamp with	1 Set	1 Set	
11	Design, construct and test a 230/12-0-12 Volt, 500mA Transformer.	Accessories Fluorescent tube light with electronic choke and	1 Set	2 Set	
12	Design No Volt Coil for a 230/440 AC Contactor.	Holder	15 4	15 4	
13	Demonstrate the end connection for a 3 Phase Induction Motor Winding for a 2 Poles / 4Pole Operations.	Two Way Flush Type Switch Wooden Box (30 cm X 15 cm)	Required Qty	Required Qty	
14	Dismantling a faulty Ceiling Fan and identify the fault, run the fan after rectifying the fault.	PVC Pipe ¾"/ 1" Saddle Clips 3/4"" / 1" Copper Wire 2.5 Sq mm 1.5Sq mm 1" Junction Box 1 way ,2 way,3way Screws			

	T T		
Bare Copper Wi			
2.5 Sq mm	55	55	
Lamps (C.F.L.)			
E160 Type Stam			
0.35 Mm Thickn	ess		
	Required	Required	
	Qty	Qty	
Readymade Bob	bins		
(EI60/21)	95.55256es		
Enameled Coppe	er Wire		
26 SWG, 36 SWG			
37 SWG, 38 SWG	(2)		
Varnish	01	02	
Winding Machin	e 02	02	
Ceiling Fan			
Single Phase Ind	uction 01	01	
Motor (0.5HP,24		01	
Three Phase Squ			
Induction Motor		01	
Gauge Plate for	(====,,	33-3-3-3	
Measurement of	SWG 01	01	
Winding Study N		01	
Squirrel Cage Ty		01	
Single Phase, Di			
Energy Meter	06	06	
(250V,15A,50Hz		03	
M.C.B 250V /10A	5 to the second	03	
	1,2 Fule		
440V/32A			

Institution Code	Institution Name		Course Code		Course Name	е
816	SHREE VENKATESWARA HI TECH EN COLLEGE	GINEERING	1030		IA IN ELECTR RONICS ENGIN	
Subject Code		Name of the Pi	ractical Subject			
4030450	ELECTRICAL MA	CHINES AND I	NSTRUMENTATIO	N PRACTIC	AL	
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Condition	Remarks
1	Predetermine the regulation of alternator.	3 phase Alternator with prime mover.		2	2	
2	Load test on 3 phase alternator.		ternator with e mover.	2	2	
3	Synchronization of 3Φ alternators.		ternator with e mover.	2	2	
	Synchro		nizing panel.	1	1	
4	Load test on 1 phase induction motor.	with starin	induction motoring and loading 2 2HP, 250V, 10A, 10 rpm.	1	2	
5	Load test on 3 phase induction motor.	Induction m 940/1450 rg	ase Slip ring otor 5HP, 440V, om with starting g arrangement.	1	1	
6	Determine the equivalent circuit constants of 3 phase induction motor.	Induction 440V,1440 r	e Squirrel cage n motor 5 HP, pm with starting g arrangement.	3	3	

	Predetermine the performance of a 3	Three Phase Squirrel cage Induction motor 5 HP,			
7	phase induction motor.	440V,1440 rpm with starting	3	3	
		and loading arrangement.			
		Three Phase Squirrel cage			
		Induction motor 5 HP,	3		
8	Improvement of power factor of an	440V,1440 rpm with starting	3	3	
o	induction motor with load.	and loading arrangement.			į.
		3 phase capacitor bank rating	1	1	
		of 1KVAR, 400/440 V.	18-51		
		Single phase autotransformer	1	1	
9		Ammeter(0-10A)	2	2]
	voiuncei.	Voltmeter(0-300V)	2	2	
	Calibration of given wattmeter.	Ammeter(0-10A)	1	1	
10		Voltmeter(0-300V)	1	1]
		Wattmeter(300V/10A/UPF)	1	1	
		3 Phase Energy meter	2	2	
		Induction type 440V, 10/20A.]
11	Calibration of 3 phase energy meter.	Ammeter(0-10A)	1	1]
		Voltmeter(0-300V)	1	1	
		Wattmeter(300V/10A/UPF)	1	1	
12	Measurement of alternator winding resistance using Wheatstone bridge	Wheatstone bridge.	2	2	
13	Measurement of value of unknown capacitance using Schering Bridge.	Schering Bridge.	2	2	
14	Measurement of value of unknown inductance using Anderson Bridge.	Anderson Bridge.	2	2	
15	Displacement measurement using LVDT.	LVDT trainer.	2	2	
16	Measurement of earth resistance by using megger.	Earth megger with necessary connecting leads and rods.	1	1	

Institutio n Code	Institution Nan	ie	Course Code	Cou	rse Name	
816	SHREE VENKATESHWAR POLYTECHNIC COL	1030				
Subject Code		Name of th	e Practical Subject			
4040460	ANA	ALOG AND DIGITA	AL ELECTRONICS PRA	CTICAL		
Experim ent No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Conditio n	Remark s
1	Realization of basic gates using NAND & NOR gates.	Bread Board , IC74XX, IC78XX (series ic's), RPS, Connecting wires. LED, Resistor		EACH-1	1/STUDE NT	
2	Realization of logic circuit for De-Morgans Theorems	Bread Board ,IC7 ic's), RPS, Connec Resistor	4XX, IC78XX (series cting wires, LED,	EACH-1	1/STUDE NT	
3	Test the performance of Half Adder and Full Adder.		Bread Board ,IC 74XX, IC 78XX (series ic's), RPS, Connecting wires, LED,		1/STUDE NT	
4	Test the performance of Half Subtractor and Full Subtractor.		ntch Chords, IC 74XX, I),Connecting wires.	EACH-1	1/STUDE NT	
5	Test the performance of Decoder/ Encoder.		atch Chords, IC74XX, c's),Connecting wires.	EACH-1	1/STUDE NT	
6	Test the performance of RS, D, T & JK flip-flops.		atch Chords, IC74XX, c's),Connecting wires.	EACH-1	1/STUDE NT	

7	Test the performance of Parity generator and checker using parity checker/generator IC's.	IC Trainer Kit, Patch Chords, IC74XX, IC78XX (series ic's),Connecting wires.	EACH-1	1/STUDE NT	
8	Test the performance of Multiplexer/ De-multiplexer using IC 4051	IC Trainer Kit, Patch Chords, IC 4051 (series ic's),Connecting wires.	EACH-1	1/STUDE NT	
9	Test the performance of Inverting Amplifier and Non inverting amplifier using Op- amp IC 741.	IC741, Resistor, Bread Board ,Connecting wires, Function Generator, RPS,CRO	EACH-1	1/STUDE NT	
10	Test the performance of Summing Amplifier, Difference Amplifier.	IC741, Resistor, Bread Board ,Connecting wires, RPS, Voltmeter, Ammeter	EACH-1	1/STUDE NT	
11	Test the performance of Zero Crossing Detector and Voltage Comparator using Op amp IC 741.	IC741, Resistor, Bread Board ,Connecting wires, RPS,CRO ,Voltmeter, Ammeter	EACH-1	1/STUDE NT	
12	Test the performance of Integrator and Differentiator using Op-amp IC 741.	IC741, Resistor, capacitor, Bread Board ,Connecting wires, Function Generator, RPS,CRO	EACH-1	1/STUDE NT	
13	Test the performance of Astable multivibrator using IC 555.	Bread Board, Resistor, Capacitor, RPS, IC555, Connecting wires, CRO.	EACH-1	1/STUDE NT	
14	Test the performance of IC Voltage Regulator Power Supplies using IC 7805, IC 7912.	Bread Board, RPS,IC 7805,IC 7912 ,Connecting wires, Capacitor, Voltmeter.	EACH-1	1/STUDE NT	
15	Design the PCB of4- bit ripple counter using FF using Software tool Multisim/Or CAD etc	Multisim software, computer, printer	EACH-1	1/STUDE NT	

Instituti on Code	Institution Name		Course Code	Co	urse Name	
816	SHREE VENKATESHWARA HI-TECH POLYTECH COLLEGE	NIC	1030	DIPLOMA II ELECTRON	N ELECTRIC	
Subject Code	Name of the	Pract	ical Subject			
4030470	ELECTRICAL CIRCUITS A	ND SI	MULATION PRA	CTICAL		
Experim ent No	Name of the Experiment	1	quipments / Apparatus / onsumables Required	Number Required as per Syllabus	Number available in Working Conditio n	Remar ks
1	Generation of Following Waveforms i.Sinusoidal Waveform of Fundamental Frequency (50Hz) ii.3rd ,5th,7th Order Harmonics for the Fundamental Frequency					
2	Simulation of RLC Series and RLC Parallel Response Circuits					
3	Step Response of RL and RC Series Circuit		ith any suitable lation software		30	
4	Simulation of Mesh and Nodal Analysis for Dc Circuits		5KVA with half our battery up	01	01	
5	Verification of Superposition Theorem	Prin		01	01	

		-	-	_
6	Verification of Thevenin's and Norton's theorem			
7	Verification of Maximum Power Transfer Theorem			
8	Simulation of Full wave Rectifier(Center Tapped and Bridge) with RL Load			
9	Simulation of Single Phase Half Wave Converter with RL Load and Free Wheeling Diode			
10	Simulation of Single Phase Full Wave Converter With RL Load and Free Wheeling Diode			
11	Simulation of Three Phase Star Connected Balanced Load and Unbalanced Load			
12	Simulation of Three Phase Delta Connected Balanced Load and Unbalanced Load			
13	Simulation of Three Phase Non Linear Star Connected Load With Three Phase 3 Wire System			
14	Simulation of Three Phase Non Linear Star Connected Load With Three Phase 4 Wire System			
15	Simulation of Basic Logic Gates, Universal Logic Gates and Realization of Logic Gates Using Universal Logic Gates			
16	Simulation of Half Adders and Full Adder			

Institution Code	Institution Name		Course Code		Course Name	e
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE 1030		ELECTR	ICAL AND ELE ENGINEERIN		
Subject Code		Name of the F	Practical Subje	ct		
4030514	CONTROL	OF ELECTRIC	AL MACHINES	PRACTICAI		
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Condition	Remarks
1	Wire and test the control circuit for jogging in cage induction motor	Transformer oil Tester Kit, Acidity test kit		Each one	Each one	
2	Wire and test the control circuit for semi-automatic star -delta starter.	Thermal Ov	erload Relay	3	3	
3	Wire and test the control circuit for automatic star -delta starter.	AC contacto	r 230v/440v,	26	26	
4	Wire and test the control circuit for dynamic braking of cage motor.	1	6A	20	20	
5	Wire and test the control circuit for two speed pole changing motor.		n With NO/NC ments	30	30	
6	Wire and test the control circuit for forward and reverse operation	1440 rpm, a	motor 440 V, any HP rating m EM-II lab)	03	03	
		Proximi	ity switch	02	02	

7	Wire and test the control circuit for automatic rotor resistance starter.				
8	Wire and test the DOL starter with single phase preventer using PLC.				
9	Wire and test the Star -Delta starter using PLC.	PLC (any brand)	05	05	
10	Wire and test the control circuit for automatic rotor resistance starter using PLC.	Solenoid valve	02	02	
11	Develop & execute the ladder logic diagram in PLC for 3 stage lift operation.	Three stage lift model, conveyor model	Each one	Each one	
12	Wire and test the sequential operation of solenoid valve and a motor for tank filling operation using PLC.	Forward,Reverse and jogging (Forward and Reverse) Operation	1	1	
13	Develop and execute the ladder logic to interface PLC with conveyor model for counting the object moving in the conveyer.	Model			
14	Wire and test the control circuit for Jog Forward, Jog Reverse, Forward and Reverse Operations using PLC.				

Institution Code	Institution Name	Course Code	(Course Name	•
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE	1030	ELECTRICAL AND ELECTRONIC ENGINEERING		
Subject Code	Name of the Pra	ctical Subject			
4030540	COMPUTER AIDED ELECTRIC	CAL DRAWING PR	ACTICAL		
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required	Number Required as per Syllabus	Number available in Working Condition	Remarks
1	Draw the symbols for components: Resistor, Capacitor, Inductor, Diode, Transistor, FET, SCR, UJT, TRIAC, DIAC, and Gates AND, OR, NOT, NAND, NOR, EXOR.	PC - Pentium Dual Core	30	30	
2	Draw the symbols used in electrical wiring: Relays, Contactors, Fuses, Main Switch, Electric Bell, Earth, DPST, DPDT, TPST, Neutral Link.	Electrical CAD Software multi user	01	01	
3	Draw the symbols for instruments: Ammeter, Voltmeter, Wattmeter, Energy meter, Frequency Meter, Power Factor Meter, Timer and Buzzers.	UPS – 5KVA with half an hour battery	01	01	
4	Draw the symbols for machines: Armatures, Alternators, Field winding (Shunt, Series and Compound) Transformer and Autotransformer.	backup			

5	Draw the Single Line diagram of Single Phase MCB Distribution Board.		
6	Draw the Single Line diagram of Three Phase MCB Distribution Board.		
7	Draw the Single Line diagram of typical MV Panel.		
8	Draw the Single Line diagram of Motor Control Centre (MCC) Panel.		
9	Draw the Single Line diagram of fire alarm riser arrangement in multi-storey building.		
10	Draw the Single Line diagram of intercom arrangement in multi-storey building.		
11	Draw the Front- End Schematic Diagram of typical Sub Switch Board (SSB).		
12	Draw the winding Diagram of Lap Connected DC Armature with Commutator Connections and Brush Positions.		
13	Draw the Control and Main Circuit of Automatic Star Delta Starter.		
14	Draw the Mush Winding Diagram of a Three Phase Induction Motor.		
15	Draw the Concentric Winding Diagram of a Single Phase Induction Motor.		

Institution Code	Institution Nar	ne	Course Code		Course Nam	e
816	SHREE VENKATESHWAI POLYTECHNIC CO		1030		AL AND ELE	
Subject Code		Name of the Pr	actical Subject			
4040550		MICROCONTROL	LER PRACTICAI	L		
Experiment No	Name of the Experiment	Equipments / A Consumables		Number Required as per Syllabus	Number available in Working Condition	Remarks
1.	8 / 16 bit addition	1.8051 Microcont		14 02	14 05	
2.	8 / 16 bit subtraction	2. Digital I/O Inter 3. Seven segment				
3.	8 bit multiplication	Interface Board		02	05	
4.	8 bit division	4. 8 bit DAC Interf		02	05	
5.	BCD to Hex code conversion	5. Stepper Motor (Interface Board		02 02	05 05	
6.	Hex to BCD code conversion	6. DC motor contro	ol Interface	02	05	
7.	Smallest / Biggest number	Board		02	05	
				02	05	

		7. RS232 serial port cable 8. LCD interface board 9. Laptop / Desktop Computer		
8.	Time delay routine (Demonstrate by Blinking LEDS).			
9.	Using Timer/ counter of 8051			
10.	Interfacing Digital I/O board			
11.	Interfacing DAC			
12.	Interfacing Stepper motor			
13.	Interfacing Seven segment LED display or LCD			
14.	Sending data through the serial port between microcontroller kits			
15.	Interfacing DC motor using PWM.			

Institution Code	Institution Name		Course Code		Course Na	ne
816	SHREE VENKATESHWARA HI TECH P COLLEGE,GOBI	OLYTECHNIC	1030		IA IN ELECT RONICS ENG	
Subject Code	N	ame of the Pra	ctical Su	bject		
4030640	ELECTRICAL	ESTIMATION A	AND COST	TING PRACTIO	CAL	
Experiment No	Name of the Experiment	Equipmer Apparati Consuma Requir	ıs / bles	Number Required as per Syllabus	Number available in Working Condition	Remarks
1	To study the various Electrical Symbols, IE Rules 28, IE Rules 30, IE Rules 31, IE Rules 54, IE Rules 56, IE Rules 87.	-		<u>-</u>	-	
2	To study the various types of Earthing.					
3	To study the various types of Electrical Wiring Methods.	-		-	-	
4	Estimate the quantity of material and cost required for Residential Building (1BHK).	-		-		
5	Estimate the quantity of material and cost required for Computer Centre having 10 Computers, AC Unit, UPS, Light and Fan.	-		-	-	

6	Estimate the quantity of material and cost required for Industrial Power Wiring having 4 Machines.	-	-	-	
7	Estimate the quantity of material and cost required for street light service having 12 Lamps Light Fitting.	-	-	÷	
8	Estimate the quantity of material and cost required for 3 Phase Service connection to a building having 5KW Load.	-	-	-	
9	Estimate the quantity of material and cost required for Irrigation Pump Wiring (5HP).	-	-	Ē	
10	Estimate the quantity of material and cost required for School Building having 3 Class Rooms.	-	-	-	
11	Estimate the quantity of material and cost required for erection of a 15HP Induction Motor in a Saw Mill/Flour Mill.	-	-	ä	

Institution Code	Institution Name		Course Code	(Course Name	•
816	SHREE VENKATESHWARA HI-TECH PO COLLEGE	DLYTECHNIC	1030		N ELECTRIC	
Subject Code	Nai	me of the Prac	tical Subject			
4030651	POWER	RELECTRONICS	S PRACTICAL			
Experiment No	Name of the Experiment	Equipments /		Number Required as per Syllabus	Number available in Working Condition	Remark
1.	Construct the Line synchronized Ramp trigger circuit using UJT with AC load to measure firing angles.	Line synchro trigger circu trainer kit	nized Ramp it using UJT	1	1	
2.	Construct Lamp control circuit using DIAC - TRIAC to measure various output voltage for firing angles.	Lamp control DIAC - TRIAC	circuit using trainer kit	1	1	
3.	Construct and test the SCR commutation circuits (Class B & Class D)	SCR commuta (Class B & Cla kit	ation circuits ass D) trainer	1	1	
4.	Construct and test the Half Wave controlled Rectifier with R- Load ,RL-Load	8	alf Wave ectifier with Load trainer	1	1	
5.	Construct and test the Single phase Fully controlled bridge with RL- Load and Free Wheeling diode	Single ph controlled br Load and Fr diode trainer	ee Wheeling	1	1	
6.	Construct and test the Single phase semi controlled bridge with R- Load	Single ph controlled by Load trainer	0	1	1	
7.	Construct and test the DC Chopper control circuit using Thyristor (Any class)	DC Chopp circuit usin (Any class) tr	g Thyristor	1	1	
8.	Construct and test the step up chopper.	Step up cho		1	1	
9.	Construct the PWM based step down DC chopper using MOSFET/IGBT.	PWM based s chopper MOSFET/IGB	using	1	1	
10.	Construct and test the Single phase Single pulse / Sinusoidal PWM inverter using MOSFET/IGBT.	Single phase / Sinusoi inverter MOSFET/IGB	dal PWM using	1	1	
11.	Construct and test the SMPS using MOSFET/IGBT.	SMPS using M trainer kit.	IOSFET/IGBT	1	1	
12.	Construct and test the open loop speed control circuit for DC shunt motor and Single phase AC Motor			1	1	
13.	Construct and test the control circuit using TRIAC for Universal motor.	Control cir TRIAC for motor trainer		1	1	
14.	Construct and test the Closed loop speed control circuit for DC and AC Motor	Closed loop s	peed control DC and AC	1	1	
15.	Construct and test the Single phase parallel inverter using MOSFET/IGBT	Single pha inverter MOSFET/IGB	using	1	1	
		PIODI LI / IGD	i damer kit			

Institution Code	Institution Name	Course Code	Course Name
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE	1040	ELECTRONICS AND COMMUNICATION ENGINEERING
Subject Code	Name of th	e Practical S	Subject
4040340	Electronic Devices and Circuits Pract	ical	
4040350	Electrical Circuits and Instrumentati	on Practical	
4040360	Programming in 'C' Practical		
4040370	Simulation Practical		
4040440	Industrial Electronics Practical		
4040450	Communication Engineering Practic	al	
4040460	Analog and Digital Electronics Practi	cal	
4040540	Analog and Digital Communication P	ractical	
4040550	Microcontroller Practical		
4040561	Very Large Scale Integration Practica	ıl	
4020570	Entrepreneurship and Start-Ups		
4040640	Computer Hardware servicing And N	etworking P	ractical
4040653	Embedded Systems Practical		
4040660	Project Work and Internship		

Institutio n Code	Institution Name		Course Code		Course Nai	
816	SHREE VENKATESHWARA HI POLYTECHNIC COLLEG		1040	ELECTRON	ICS AND CON ENGINEERI	MMUNICATION NG
Subject Code		Name of the	Practical Subj	ect		
4040340	ELECTRO	NIC DEVICES	AND CIRCUIT	S PRACTICA	L	
Experime nt No	Name of the Experiment		/ Apparatus les Required	Number Required as per Syllabus	Number available in Working Condition	Remarks
1.	Forward and reverse bias characteristics of a PN Junction Silicon diode	DC Regulate supply 0-30V,1A	d power	10	12	
2.	Forward and reverse bias characteristics of a Zener diode	High Voltage		2	2	
3.	Full wave rectifier with and without filter	Supply 0-25 Signal Gene		4	15	
4.	Bridge rectifier with and without filter	Dualtrace Cl	RO 20MHz/	5 10	15 10	
5.	Common Emitter Transistor circuit	Digital Mult	imeter	15	15	

-					
6.	Common Source Field Effect Transistor circuit	DC Voltmeter (Analog/Digital)	15	15	
7.	SCR and find out the forward break over voltage, the value of Latching and Holding currents	DC Ammeter (Analog/Digital)			
8.	DIAC and plot its switching characteristics	(Analog/Digital)			
9.	Bidirectional characteristics of TRIAC				
10.	Common emitter amplifier circuit				
11.	switching characteristics of Astable Multivibrator				
12.	Negative resistance Characteristics of UJT.				

Institutio n Code	Institution Name		Course Code		Course Na	ne
816	SHREE VENKATESHWARA HI POLYTECHNIC COLLEG		1040	ELECTRON	ICS AND CON ENGINEERI	MMUNICATION NG
Subject Code		Name of the	Practical Subj	ect		
4040350	ELECTRICAL C	IRCUITS AND	INSTRUMENT	ATION PRAC	CTICAL	
Experime nt No	Name of the Experiment		/ Apparatus les Required	Number Required as per Syllabus	Number available in Working Condition	Remarks
1.	Construct circuit verify Ohm's law.	DC Regulate supply (0-30V,1A)	d power	8	12 15	
2.	Construct circuit verify Kirchoff's voltage and current law	, ,	rator (1MHz)	4	15	
3.	Construct a circuit to verify Superposition theorem.	Dualtrace Cl 30MHz)	RO (20/	8	Each 10	
4.	Construct a circuit verify Thevenin's Theorem.	DC Voltmete	er	8	Each 10	
5.	Construct a circuit verify Maximum power transfer Theorem.	DC Ammeter	r	1	1	

6.	Construct and test the performance of series resonant circuit.	Galvanometer Decade Resistance Box	1	1	
7.	Calibrate the given ammeter and voltmeter.				
8.	Construct and test the performance of Wheatstone bridge.				
9.	Measure the amplitude and frequency of signals using CRO.				
10.	Test the performance of LVDT.				
11.	Measure strain using straingauge.				
12.	Determine the characteristics of a thermistor.				

Institution Code	Institution Name	5	Course Code		Course Na	ne
816	SHREE VENKATESHWARA HI POLYTECHNIC COLLEGI		1040	ELECTRON	ICS AND CON ENGINEERI	MMUNICATION NG
Subject Code		Name of the	Practical Subj	ect		
4040360	F	ROGRAMMIN	IG IN C PRACT	ICAL		
Experiment No	Name of the Experiment		/ Apparatus les Required	Number Required as per Syllabus	Number available in Working Condition	Remarks
1.	Write C program to calculate simple interest and compound interest.	Hardware R Desktop / La Computers:	equirement: aptop	15	45	
2.	Write C program to find the solution of a quadratic quation.	Laserprinter		01	02	
3.	Write C program to find whether the given number I seven or odd.	C-compiler and editor		Sufficient	Sufficient	

4.	Write C program to find the sum of series using 'While' loop.		
5.	Write C program to perform the Arithmetic operation based on the numeric key press using switch case statement. (1-Addition,2-Subtraction,3-multiplication,4-Division).		
6.	Write C program to find the biggest number among three numbers.		
7.	Write C program to print Fibonacci series.		
8.	Write C program to find factorial of given Nnumbers using function.		
9.	Write C program to prepare the to talmarks for N students by reading the Name,Reg.No,Marks1 to Marks 6 using array of		
	structure.		
10.	Write C program to swap the values of two variables. Write C program to calculate the sum and average of given three		
	Write C program to swap the values of two variables. Write C program to calculate the		
	Write C program to swap the values of two variables. Write C program to calculate the sum and average of given three numbers using		
11.	Write C program to swap the values of two variables. Write C program to calculate the sum and average of given three numbers using function. Write C program to sort the		
11.	Write C program to swap the values of two variables. Write C program to calculate the sum and average of given three numbers using function. Write C program to sort the names in alphabetical order. Write C program to count the number of digits in a given integer and print the reverse		

Institution Code	Institution Name	Course Code	C	Course Name	e		
816	SHREE VENKATESHWARA HI-TECH POLYTECHNI COLLEGE	1040	ELECTRONICS AND COMMUNICATION ENGINEERING				
Subject Code	Name of the Practical Subject						
4040370	SIMULATIO	N PRACTICAL					
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required	Number Required as per Syllabus	Number available in Working Condition	Remarks		
1.	Zener diode (Forward and Reverse bias characteristics)	Simulation Tool Multisim/PSpice	Sufficient	Sufficient 25			
2.	Rectifier circuits (Half wave and Full wave Bridge Rectifiers with Capacitor filter)	Desktop Computers Laser printer	20				
3.	Power supply with Zener diode as Regulator	zasei printei	01	02			
4.	Common Base transistor output characteristics						

5.	Common emitter amplifier (Implementation of Current Series negative feedback)	
6.	Emitter follower (Implementation of Voltage Series negative feedback)	
7.	RC Coupled amplifier (Implementation of the concept of multistage amplifier)	
8.	Clippers and Clampers	
9.	RC Phase shift oscillator (Medium frequency Sine wave generators)	
10.	Hartley oscillator (High frequency Sine wave generator)	
11.	Astable Multivibrator (Square or Rectangular wave generator)	
12.	Gate triggering of SCR with various gate currents.	

Institution Code	Institution Name		Course Code		Course N	ame		
816	SHREE VENKATESHWATECH POLYTECHNIC CO		1040	ELECTRONICS AND COMMUNICATION ENGINEERIN				
Subject Code		Name of the Practical Subject						
4040440		INDUSTRIAL ELECTRONICS PRACTICAL						
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required			Number Required as per Syllabus	Number available in Working Condition	Remarks	
1	Phase control characteristics of SCR and testing a commutation circuit.	Transformer, Bread Board, SCRs, Resistors, Diode, DRB,CRO, Connecting Wires		EACH-1	1/STUDENT			
2	Construct a Lamp dimmer using TRIAC (in Bread Board Only)	Auto Transformer, Bread Board, VR, Resistor, Capacitor, TRIAC, DIAC, Lamp, Connecting Wires		EACH-1	1/STUDENT			
3	Construct and test a MOSFET based PWM chopper circuit	RPS, Bread Board, Function Generator, MOSFET, CRO, Resistor, Voltmeter, Ammeter, Connecting Wires		EACH-1	1/STUDENT			
4	Construct and test an IC based buck converter using PWM	IC Based Buck Converter Using PWM Kit, CRO, Pulse chords, Connecting Cables		EACH-1	1/STUDENT			
5	Write and implement a simple ladder logic program using digital inputs and outputs for PLC		ter, PLC Kit, RS Link), Pi	Software(RS rinter	EACH-1	1/STUDENT		

6	Write and implement a simple ladder logic program for interfacing a lift control with PLC.	Computer, PLC Kit, Software(RS Logix & RS Link), Printer, Lift Control Kit	EACH-1	1/STUDENT
7	Write and implement a simple ladder logic program for interfacing a conveyer control with PLC	Computer, PLC Kit, Software (RS Logix & RS Link), Printer, Conveyer Control Kit	EACH-1	1/STUDENT
8	Write and implement a simple ladder logic program using timer and counter with branching and subroutines with PLC.	Computer, PLC Kit, Software(RS Logix & RS Link), Printer	EACH-1	1/STUDENT
9	Construct and draw the VI characteristics of IGBT.	IGBT, Voltmeter, Ammeter, RPS, Resistor, Capacitor	EACH-1	1/STUDENT
10	Construct and draw the VI characteristics of Power MOSFET.	POWER MOSFET, Voltmeter, Ammeter, RPS, Resistor, Capacitor	EACH-1	1/STUDENT
11	Construct and draw single phase half controlled bridge converter with resistive load.	Bread Board, Function Generator, CRO, Resistors, Connecting Wires, Transformer, SCR(2), Diode(2)	EACH-1	1/STUDENT
12	Construct and design a fan regulator using TRIAC and DIAC.	Transformer, Bread Board, VR (Potentio meter), Resistor, Capacitor, TRIAC,	EACH-1	1/STUDENT

		DIAC, Motor(AC), Connecting Wires					
Institution Code	Institution N	ame	Course Code	Co	Course Name		
816	SHREE VENKATESHW POLYTECHNIC C		1040	ELECTRONICS AND COMMUNICATION ENGINEERING			
Subject Code	Name of the Practical Su			ubject			
4040450		COMMUNICATION ENGINEERING PRACTICAL					
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Condition	Remarks	
1	Construct and test the performance of symmetrical T and Pi attenuators	RPS, Bread Board, Resistors, CRO, Connecting Wires, Function Generator		EACH-1	1/STUDENT		
2	Construct and test the performance of passive Low pass and High pass filters. Find out the cut-off frequency from the frequency response characteristics	RPS, Bread Board, Resistors, CRO, Connecting Wires, Function Generator		EACH-1	1/STUDENT		

3	Construct and test the performance of Band pass filter. Find out the cut-off frequencies and find the Bandwidth from the frequency response characteristics	RPS, Bread Board, Function Generator, CRO, Resistor, Connecting Wires, Capacitor	EACH-1	1/STUDENT	
4	Construct and test the performance of series and shunt equalizers.	SERIES & SHUNT Equalizer Kit, Speaker, Function Generator, patch chords	EACH-1	1/STUDENT	
5	Construct and test the performance of Amplitude modulator	RPS, Bread Board, Function Generator, CRO, Resistor,Connecting Wires, Capacitor, Transistor, Inductor.	EACH-1	1/STUDENT	
6	Construct and test the performance of AM linear diode detector	AM Linear Kit, Function Generator, patch chords, CRO	EACH-1	1/STUDENT	
7	Construct and test the performance of Pulse Width Modulator (PWM)	RPS, Bread Board, Resistors, CRO, Connecting Wires, Function Generator, Diode, IC 555,Capacitor	EACH-1	1/STUDENT	

8	Construct and test the performance of Pulse Position Modulator(PPM).	PPM Kit, Function Generator, patch chords, CRO	EACH-1	1/STUDENT	
9	Determine the directional characteristics of Moving Coil Microphone.	Loud Speaker, Function Generator, Microphone, Multimeter, Connecting wires, Directional chart	EACH-1	1/STUDENT	
10	Determine the directional characteristics of Dynamic cone Loudspeaker	Loud Speaker, Function Generator, Microphone, Multimeter, Connecting wires, Directional chart	EACH-1	1/STUDENT	
11	Determine the frequency response characteristics of Two way cross over network	Cross over network kit, CRO, FG, Patch chord.	EACH-1	1/STUDENT	
12	Design the PCB of AM modulator using simulation tools like Multsim/OrCAD	Multisim software, computer, printer	EACH-1	1/STUDENT	

Instituti on Code	Institution Name		Course Code	Course Name		•	
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE		1040	ELECTRONICS AND COMMUNICATION ENGINEER			
Subject Code		Name of the Practical Subject					
4040460	A	ANALOG AND DIGITA	AL ELECTRONICS PRA	ACTICAL			
1	Realization of basic gates using NAND & NOR gates.	Bread Board , IC74 ic's), RPS, Connect Resistor	EACH-1	1/STUDE NT			
2	Realization of logic circuit for De-Morgans Theorems	Bread Board ,IC74 ic's), RPS, Connect Resistor	EACH-1	1/STUDE NT			
3	Test the performance of Half Adder and Full Adder.	Bread Board ,IC 74 ic's), RPS, Connect Resistor	EACH-1	1/STUDE NT			
4	Test the performance of Half Subtractor and Full Subtractor.	IC Trainer Kit, Patch Chords, IC 74XX, IC 78XX (series ic's),Connecting wires,		EACH-1	1/STUDE NT		
5	Test the performance of Decoder/Encoder.		ch Chords, IC74XX,), Connecting wires.	EACH-1	1/STUDE NT		
6	Test the performance of RS, D, T & JK flip-flops.		IC Trainer Kit, Patch Chords, IC74XX, IC78XX (series ic's), Connecting wires.		1/STUDE NT		
7	Test the performance of Parity generator and checker using parity checker/generator IC's.	IC Trainer Kit, Patch Chords, IC74XX, IC78XX (series ic's), Connecting wires.		EACH-1	1/STUDE NT		
8	Test the performance of Multiplexer/De-	IC Trainer Kit, Pate (series ic's), Conne		EACH-1	1/STUDE NT		

	multiplexer using IC 4051				
9	Test the performance of Inverting Amplifier and Non inverting amplifier using Op-amp IC 741.	IC741, Bread Board, Connecting wires, RPS, CRO, Signal generator.	EACH-1	1/STUDE NT	
10	Test the performance of Summing Amplifier, Difference Amplifier.	IC741, Bread Board ,Connecting wires, RPS, Voltmeter, Ammeter	EACH-1	1/STUDE NT	
11	Test the performance of Zero Crossing Detector and Voltage Comparator using Op amp IC 741.	IC741, Bread Board ,Connecting wires, RPS,CRO, Voltmeter, Ammeter	EACH-1	1/STUDE NT	
12	Test the performance of Integrator and Differentiator using Op- amp IC 741.	IC741, Bread Board, Connecting wires, RPS, CRO, Signal generator.	EACH-1	1/STUDE NT	
13	Test the performance of Astable multivibrator using IC 555.	Bread Board, RPS, IC555, Connecting wires, CRO.	EACH-1	1/STUDE NT	
14	Test the performance of IC Voltage Regulator Power Supplies using IC 7805, IC 7912.	Bread Board, RPS, IC 7805, IC 7912, Connecting wires, Capacitor, Voltmeter.	EACH-1	1/STUDE NT	
15	Design the PCB of4- bit ripple counter using FF using Software tool Multisim/Or CAD etc	Multisim software, computer, printer	EACH-1	1/STUDE NT	

Institution Code	Institution Name		Course Code	С	ourse Name				
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE	1040	ELECTRONICS AND COMMUNICATION ENGINEERING						
Subject Code	Name of the	Name of the Practical Subject							
4040540	ADVANCED COMMUNICATION SYSTEMS PRACTICAL								
Experiment No	Name of the Experiment	Ap	uipments / oparatus / nsumables Required	Number Required as per Syllabus	Number available in Working Condition	Remarks			
1.	Construct a sample and hold circuit	Dual 100M	trace CRO-						
2.	Test the performance of ASK modulator and demodulator	PSK N	Modulator ner kit	02	02				
3.	Test the performance of FSK modulator and demodulator	Train	Demodulator ner kit	01	01				
4.	Test the performance of PSK modulator and demodulator	Fiber optic Trainer kit DTH		01 02	01 02				
5.	Test the performance of Time Division Multiplexer			01	01				

6.	Test the performance of analog transmitter and receiver		
7.	Test the performance of fiber optic analog link		
8.	Test the performance of a fiber optic digital link		
9.	Find the bending loss and propagation loss in fiber with two different fiber lengths		
10.	Test the performance of Manchester encoder and decoder using optical communication.		
11.	Test the performance of a voice link using optical fiber.		
12.	Test the Horizontal and Vertical deflection sensitivity of CRT.		
13.	Install a DTH system and test its performance.		

Institution Code	Institution Name		Course Code	Course Name		
816	SHREE VENKATESHWARA HI-TECI POLYTECHNIC COLLEGE	Н	1040		ECTRONICS ICATION EN	
Subject Code	Name	of the Pra	ctical Subject			
4040550	MICROC	ONTROLL	ER PRACTICAI	L		
Experiment No	Name of the Experiment	App Cons	pments / paratus / sumables equired	Number Required as per Syllabus	Number available in Working Condition	Remarks
1.	8 / 16 bit addition	1.8051 Microc	ontroller Kit	14	14	
2.	8 / 16 bit subtraction	3. Seven	1/0 ace Board segment LED y Interface	02 02	05 05	
3.	8 bit multiplication	Board		02	05 05	
4.	8 bit division	5. Steppe Contro Board	er Motor ol Interface	02	05	
5.	BCD to Hex code conversion	Interfa	tor control ace Board	02 02	05 05	
6.	Hex to BCD code conversion	- 7. RS232 serial port cable		02	05	

7.	Smallest / Biggest number	8. LCD interface board		
8.	Time delay routine (Demonstrate by Blinking LEDS).	9. Laptop / Desktop Computer		
9.	Using Timer/ counter of 8051			
10.	Interfacing Digital I/O board			
11.	Interfacing DAC			
12.	Interfacing Stepper motor			
13.	Interfacing Seven segment LED display or LCD			
14.	Sending data through the serial port between microcontroller kits			
15.	Interfacing DC motor using PWM.			

Institution Code	Institution Name	Course Code	3,	Course Nam	e
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE	1040	ELECTRONICS AND COMMUNICATION ENGINEERIN		
Subject Code	Name of the	ne Practical Subject			
4040561	VERY LARGE SCALI	E INTEGRATION PR	ACTICAL		
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required	Number Required as per Syllabus	Number available in Working Condition	Remarks
1.	Simulation Of VHDL Code For Logic Gates (And Gate,Or Gate)	1. Desktop Computers	Sufficient	45	
2.	Simulation Of VHDL Code For Combinational Function	2. Laser Printer	Sufficient	02	
3.	Simulation Of VHDL Code For Half Adder And Full Adder	3. FPGA KIT 4. Xilinx	Sufficient	10	
4.	Simulation Of VHDL Code For Half Subtractor And Full Subtractor	14.1V			
5.	Simulation Of VHDL Code For Single Bit Digital Comparator				
6.	VHDL Implementation Of 8 To 1 Multiplexer				

7.	VHDL Code For JK Flipflop (Simulation/Implementation)		
8.	VHDL Implementation Of 1 To 8 Demultiplexer		
9.	VHDL Implementation Of 7 Segment Decoder - Boolean Expression		
10.	VHDL Implementation Of 7 Segment Display - With Counter		
11.	VHDL Implementation Of 8 To 3encoder		
12.	VHDL Implementation Of2 To 4 Decoder		
13.	VHDL Implementation For Blinking A Led		
14.	VHDL Implementation For Blinking An Array Of LEDs		
15.	VHDL Implementation Of A Speller With An Array Of LEDs		

Institution Code	Institution Name		Course Code	Course Name		
816	SHREE VENKATESHWARA HI T POLYTECHNIC COLLEGE	ЕСН	1040	ELECTRONICS AND COMMUNICATION ENGINEER		
Subject Code	Na	ame of the	Practical Subject			
4040640	COMPUTER HARDWA	RE SERVIC	ING AND NETWO	RKING PRA	CTICAL	
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Condition	Remarks
1.	IDENTIFICATION OF SYSTEM LAYOUT i) Identify front panel indicators & switches and Front side & rear side connectors ii) Familiarize the computer system layout by marking positions of SMPS, Motherboard, FDD, HDD, CD,DVD and add on cards.	1)Computer		30	55	
2.	HARD DISK i) Configure bios setup program and troubleshoot the typical problems using BIOS utility. ii) Install, Configure, Partition and Format Hard disk.	1)Computer		30	55	
3.	DVD/BLU-RAY WRITER i) Install and Configure a DVD Writer and record a blank DVD. ii) Install and Configure a Blu-ray Writer and record a blank Blu-ray	1)Compu 2)CD/DV 3)Blu-ray 4)Blank l 5)Blank o	'D Writer / writer Blu-ray disk	1)30 2)2 3)- 4)30 5)30	1)55 2)2 3)2 4)30 5)30	

	Disc.	SW: Ashampoo burning s/w			
4.	PRINTER INSTALLATION i) Install and configure Dot matrix printer ii) Install and configure Laser printer	1)Computer 2)Dot matrix Printer 3)Laser Printer	1) 30 2) 2 3) 2	1) 55 2) 2 3) 2	
5.	i) Install and configure Scanner ii) Install and configure Web cam and bio-metric device	1)Computer 2)Scanner 3)Web camera 4)Bio metric device	1) 30 2) 2 3) 2 4) 2	1) 55 2) 2 3) 5 4) 2	
6.	i) Assemble a system with add on cards and check the working condition of the system ii) Install OS in the assembled system.	Computer & SW: Windows 7 Operating System	30	55	
7.	Install Dual OS in a system	Computer & SW: Windows XP,7 Operating System	30	55	
8.	i) Assemble and Disassemble a Laptop to identify the parts. ii) Installation of different device drivers and Installation of different application Software.	Laptop & SW: Windows 7 Operating System	2	2	
9.	Do the following Cabling works for establishing a network i) Crimp the network cable with RJ 45 connector in Standard cabling mode and cross cabling mode. ii) Test the crimped cable using a	1) Crimping Tool 2) RJ45 jack 3) RJ45 Tester and Network Cables	1) 6 2) - 3) 6	1) 7 2) 100 3) 6	

	cable tester.				
10.	Use IPCONFIG, PING, TRACERT and NETSTAT utilities to debug the network issues.	Computer & Internet connection	30	55	
11.	Interface two PCs to form Peer To Peer network using the connectivity devices Switch or Router in a LAN .	1) Computer 2) Hub/Switch & LAN cable	1) 30 2) 2	1) 55 2) 2	
12.	i). Share the files and folders in a LAN, ii). Share a printer in a LAN.	1) Computer 2) Switch & LAN cable	1) 30 2) 2	1) 55 2)2	
13.	Remote Desktop, Remote Assistance, Telnet, HyperTerminal, Team Viewer.	1) Computer 2) Hub/Switch & LAN cable	1) 30 2) 2	1) 55 2) 2	
14.	Configure DNS to establish interconnection between systems and describe how a name is mapped to IP Address	1) Computer with server 2008 & client windows 7 2) Hub/Switch & LAN cable	1) 30 2) 2	1) 55 2) 2	
15.	i) Install and configure Network Devices: HUB, Switch (4/8/16/24 ports),Routers ii) Install and Configure NIC.	1) Computer 2) Hub/Switch & LAN cable 3) NIC card	1) 30 2) 2 3) -	1) 55 2) 2 3) 2	

Institutio n Code	Institution Name	Course Code	Cot	ırse Name	
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE	1040	ELECTRONICS AND COMMUNICATION ENGINEERING		
Subject Code	Name of the Prac	tical Subject			
4040653	EMBEDDED SYSTEM	MS PRACTICAL			
Experime nt No	Name of the Experiment	Equipments / Apparatus / Consumables Required	Number Require d as per Syllabu s	Number available in Working Conditio n	Remar ks
1	STUDY OF ARM PROCESSOR KIT (whatever the ARM processor kit the institution is having) Example: LPC2148 The student should able to Understand the memory mapping of the IO and peripherals List the peripherals present in the processor Explain that how to use an IO pin, related SFRs and instructions Explain that how to use timer, UART, its related SFR and instructions sets		EACH 1	EACH 1	
2	SIMULATION OF ARITHMETIC OPERATION ON ARM IN ASSEMBLY Develop an assembly level code for the single precision (32 bit) arithmetic function. a.Addition b.Subtraction (Note: simulate the program in the software)	SOFTWARE: KEIL VERSION, PC.	EACH 1	EACH 1	
3	SIMULATION OF ARITHMETIC OPERATION ON ARM IN ASSEMBLY Develop an assembly level code for the single precision (32 bit) arithmetic function. a.	SOFTWARE: KEIL VERSION, PC.	EACH 1	EACH 1	

	Multiplication (Note: simulate the program in the software)			
4	SIMULATION OF C PROGRAM FOR SOFT DELAY Develop an C code for the 32 bit or 64 bit delay routine. Calculate the no of clock taken for the routine and adjust the delay value for the desired. (Note: simulate the program in the software)	SOFTWARE: KEIL VERSION, PC.	EACH 1	EACH 1
5	REALIZING TIMER PERIPHERAL IN ARM BY POLLING METHOD Develop a C program for ARM processor to run a timer peripheral in ARM. The timer flag can be pooled for timer end. As timer ends reset the timer and update new value to the LED display.	ARM7 TDMI Kit: LPC 2148 SOFTWARE: KEIL VERSION, FLASH MACHIC, PC.	EACH 1	EACH 1
6	REALIZING TIMER PERIPHERAL IN ARM BY INTERRUPT DRIVEN METHOD Develop a C program for ARM processor to run a timer peripheral in ARM. The timer flag can be pooled for timer end. As timer ends reset the timer and update new value to the LED display.		EACH 1	EACH 1
7	REALIZATION OF INPUT AND OUTPUT PORT IN C Develop an assembly level program of ARM processor to read a port in which switches are connected in the trainer kit. Send back the receive input to output in which LEDs are connected in the trainer kit. Note: Student should study the list of special function registers associated for accessing Port the read and write.	ARM7 TDMI Kit: LPC 2148 SOFTWARE: KEIL VERSION, FLASH MAGIC, PC.	EACH 1	EACH 1
8	COUNT EXTERNAL INTERRUPT PULSES EINTX (using VIC) AND SHOW BINARY COUNT VALUES IN LED USING EMBEDDED C Develop a C program for ARM processor to count external interrupt pulses (using VIC) and show the		EACH 1	EACH 1

	output in LED.				
	SEVEN SEGMENT LED DISPLAY INTERFACE IN C				
	Develop a C program for ARM processor to interface a				
9	seven segment LED display. The display should count		EACH 1	EACH 1	
	up for every one second. The delay can be used from				
	experiment.				
	SERIAL TRANSMISSION AND RECEPTION OF A				
	CHARACTER IN C BY POLLING METHOD				
10	Write a C Programs for receiving a character from		EACH 1	EACH 1	
	other device (Computer) and send the next character				
	of the received one to the device back.				
	SERIAL TRANSMISSION AND RECEPTION OF A				
	CHARACTER IN C BY INTERRUPT METHOD		EACH 1		
11	Write a C Programs for receiving a character from			EACH 1	
	other device (Computer) and send the next character	ARM7 TDMI Kit:			
	of the received one to the device back.	LPC 2148			
	ACCESSING INTERNAL ADC OF THE ARM PROCESSOR	SOFTWARE: KEIL			
	AND TO DISPLAY IN LED	VERSION, FLASH			
	Write a C Program for reading an ADC, convert into	MAGIC, TERMINAL			
12	decimal and to display it The ADC input is connected	SOFTWARE, PC.	EACH 1	EACH 1	
	to any analog sensor. (Note: Student should study the	Net (January 1990) 1997 (2000) 1997 (1990)	Second Control Control Control	1999 200-000-000-000-000-000-000-000-000-000	
	SFR associated with ADC, Manual containing List of				
	SFR for accessing ADC can be given for the				
	examination.)				

Institution Code	Institution Name	Course Code	Course Name				
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE	1052	COMPUTER ENGINEERING				
Subject Code	Name of the	Name of the Practical Subject					
4052340	Electrical And Electronics Engineerin	ng Practical					
4052350	Linux Practical						
4052360	C Programming And Data Structures	Practical					
4052370	E Publishing Practical	E Publishing Practical					
4052450	Web Design And Programming Practical						
4052460	Java Programming Practical	Java Programming Practical					
4052470	RDBMS Practical						
4052540	Python Programming Practical						
4052550	Cloud Computing and Internet of Thi	ngs Practica	l				
4052561	Component Based Technology Practi	cal					
4052570	Entrepreneurship and Startup						
4052640	Computer Hardware And Networking	g Practical					
4052652	Multimedia Systems Practical						
4052660	Project Work & Internship						

Institutio n Code	Institution Name		Course Code	Co	Course Name		
816	SHREE VENKATESHWARA HI-TEC POLYTECHNIC COLLEGE	H	1052	сомрит	TER ENGINE	ERING	
Subject Code	Name	e of the P	ractical Subject				
4052340	ELECTRICAL AND E	LECTRON	ICS ENGINEERING	PRACTICAL			
Experime nt No	Name of the Experiment		nents / Apparatus Imables Required	Number Required as per Syllabus	Number available in Working Conditio n	Remar ks	
1.	a. Checking of power supply in SMPS. b. Construct the circuit and draw the graph for different stages of Bridge rectifier with filter using CRO.		er (0-50)ma ter (0-20)V, (0-	6	9 10		
2.	Construct the circuit and draw the forward characteristics of PN junction Diode and find input resistance.	1)V Power s	supply 0-30V	6	10 6		
3.	Construct the circuit and draw the reverse characteristics of Zener Diode and find breakdown voltage.	Digital 1 Bread B	Frainer Kit oard	6 2	10 10		
4.	Construct the circuit and draw the VI characteristics of LED	Fixed di (0-15) V	ual power supply	2	10 6		
5.	Construct the circuit and draw the characteristics of LDR	Signal g	enerator (1MHz)				

	Construct CE configuration circuit and	CRO Dual Trace (30MHz)			
6.	draw the input characteristics and	,			
M0.5	also find input resistance.				
	Construct CE configuration circuit and				
7.	draw the output characteristics and				
	also find output resistance.				
	a. Verify the truth tables of				
	NAND,AND,NOR,OR, NOT,XOR using				
8.	IC's. b. Realization of basic gates using				
	either NAND or NOR gate.				
2000-0	Construct and verify Half adder and	Consumables:-			
9.	Half Subtractor	<u>sondamapted</u> .			
		Resistors			
10.	Construct and verify the truth table of	(1150Ω,1ΚΩ,2.2ΚΩ,10ΚΩ			
201	Full adder	,220Ω)			
11.	Construct and verify the truth table of	Capacitor (10μF, 4.7μF)			
11.	Full subtractor	Capacitor (Tour, 4.7µr)		c .c	
	Verify the truth tables of RS,D,T and	PN Diode (IN4007)	Sufficien	Sufficien	
12.	IKFF	38 2000	t	t	
		Zener Diode (Z11.1)	Quantity		
13.	Construct and test the parity generator and checker function using				
13.	IC74180	Transistor (SL100,CL100)			
	Construct and test the 4bit Ripple	IC7400, IC7402, IC7404,			
14.	counter (IC7493)	IC7408,IC7432,IC7486			
		Ic74180,IC74153,IC7476,			
15.	Construct and test decade	IC7474, IC7490,IC7493,			
13.	counter(IC7490)	IC7495			

Institution Code	Institution Name		Course Code		Course Na	me
816	SHREE VENKATESHWARA HI-TEC POLYTECHNIC COLLEGE	Н	1052	COM	IPUTER ENGI	NEERING
Subject Code	Nam	ne of the P	ractical Subjec	:t		
4052350		LINUX P	RACTICAL			
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Condition	Remarks
1.	Usage of Directory Management commands: ls, cd, pwd, mkdir, rmdir	1. De:	sktop	30	45	
2.	Usage of File Management commands :cat, chmod, cp, mv, rm, more	Coi	mputers	01	02	
3.	Use the General Purpose commands: wc, cal, date, who, tty, ln	2. Las	ser Printer			
4.	Using the Simple filters: pr, head, tail, cut, paste, nl ,sort		ig System : ix Based GUI			
5.	Advanced filters: Search for a pattern using grep, egrep, fgrep, uniq Communication Commands: write, wall	Operatin	ng System			
6.	Check the details of process name, PID, status using ps command. Process Management commands:&,nohup, kill, nice					
7.	Device pattern using meta character to match each of the situation					
8.	Write a shell script that accepts a numerical value N. Then display the Decrementing value of N till it reaches 0.					
9.	Write a shell script to search a string and display it.					
10.	Write a shell script that takes three command line arguments. The first argument is the name of the destination file and the other two arguments are Names of files to be placed in the destination file.					
11.	Write a shell script to print contents of file from given line number to next given Number of lines.					
12.	Write a shell script that print out date information in this order: time, day of The week, day number, year- that is like this.21:18:00 IST Mon16 Aug21					
13.	Develop a Basic math Calculator using case statement					
14.	Write a shell script that represents a multiple choice question, gets the user's Answer and report back whether the answer is right, wrong or not one of the choices.					
15.	Write a shell script that takes a command line argument and reports on Whether it is a directory, a file or something else.					

816 SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE 1052 COMPUTER ENGINEERING Subject Code Name of the Practical Subject 4052360 C PROGRAMMING AND DATA STRUCTURES PRACTICAL Equipments / Number Apparatus / Practical Subject available	Institution Code	Institution Name		Course Code		Course Na	me
Subject Code 4052360 C PROGRAMMING AND DATA STRUCTURES PRACTICAL Experiment No Name of the Experiment No Name of the Experiment Power is a Computer of Syllabus Name of the Experiment Power is a Computer of Syllabus Number Required as per Syllabus Number Is a program to swap two variable's using (i) third variable. Number subject to Computer Solfware Requirement: C Computers Noftware Requirement: C Compiler with Editor. Nurite a program to print all prime numbers from 1 to N. Write a program to prepare the total marks for N students by reading the Reg.No, Name, Mark 1 to Mark 6 by using array of structures. Nurite a program to find the length of the given string using pointers. Nurite a program in C't to create a singly linked list containing at least five elements. Make necessary assumptions. Nurite a "C" program to convert an infix expression into post fix expression. Nurite a "C" program to preform operations in stack using array. Write a "C" program to operform operations in queue using array. Write a "C" program to add two 3 x 3 matrices and display the result in Matrix form. Write a "C" program to read 10 elements and sort the above numbers using			Н	1052	сом	IPUTER ENG	INEERING
Experiment No Name of the Experiment Name of the Experiment Name of the Experiment Name of the Experiment No Write a simple C Program a. Print your Name and Address b. Find Simple interest and Compound interest. Write a C program to swap two variable's using (i) third variable and (ii) without using a third variable. Write a program to find the largest number between given three numbers. Write a program to print all prime numbers from 1 to N. Write a program to prepare the total marks for N students by reading the Regon Name, Mark It to Marko by using array of structures. Write a program using the function power (a,b) to calculate the value of a raised to b. 7. Write a program to find the length of the given string using pointers. 8. Write a program in 'C' to create a singly linked list containing at least five elements. Make necessary assumptions. 10. Write a "C" program to convert an infix expression into post fix expression. 11. Write a "C" program to add two 3 x 3 matrices and display the result in Matrix form. Write a "C" program to add two 3 x 3 matrices and display the result in Matrix form. Write a "C" program to read 10 elements and sort the above numbers using Write a "C" program to read 10 elements and sort the above numbers using			ne of the P	ractical Subjec	t		
Averiment No Name of the Experiment Apparatus / Consumables Required as per Syllabus Name of the Experiment Name of the Experiment Name of the Experiment Apparatus / Consumables Required 1. b. Find Simple interest and Compound interest. Name of the Experiment Name of the Susing Name of the Experiment Nation of the Indian of	4052360	C PROGRAMMING	G AND DAT	TA STRUCTUR	ES PRACTIC	CAL	
1. b. A Print your Name and Address b. Find Simple interest and Compound interest. Write a C program to swap two variable's using (i) third variable and (ii) without using a third variable. 3. Write a program to find the largest number between given three numbers. 4. Write a program to print all prime numbers from 1 to N. Write a program to prepare the total marks for N students by reading the numbers for N students by reading the garray of structures. 6. Write a program using the function power (a,b) to calculate the value of a raised to b. 7. Write a program to find the length of the given string using pointers. 8. Write a program to find factorial of a number using recursion. Write a program in 'C' to create a singly linked list containing at least five elements. Make necessary assumptions. 10. Write a "C" program to perform operations in queue using array. 11. Write a "C" program to gerform operations in queue using array. 12. Write a "C" program to add two 3 x 3 matrices and display the result in Matrix form. Write a "C" program to read 10 elements and sort the above numbers using	Experiment No	Name of the Experiment	App	Apparatus / Consumables		available in Working	Remarks
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12. operations in queue using array. Write a "C" program to add two 3 x 3 13. matrices and display the result in Matrix form. Write a "C" program to read 10 elements 14. and sort the above numbers using	11.						
13. matrices and display the result in Matrix form. Write a "C" program to read 10 elements and sort the above numbers using	12.	operations in queue using array.					
Write a "C" program to read 10 elements 14. and sort the above numbers using	13.	matrices and display the result in Matrix form.					
	14.	Write a "C" program to read 10 elements and sort the above numbers using					

Write a "C" Program for binary searching.

15.

Institution Code	Institution Name		Course Code		Course Na	ıme
816	SHREE VENKATESHWARA HI-TECI POLYTECHNIC COLLEGE	Н	1052	сом	PUTER ENG	INEERING
Subject Code	Nam	e of the P	ractical Subjec	:t		
4052370	E P	UBLISHIN	IG PRACTICAL			
Experiment No	Name of the Experiment	App Cons	pments / paratus / sumables equired	Number Required as per Syllabus	Number available in Working Condition	Remarks
1.	Create a Bit Notice with specified height and width with various text styles.	1. De: Coi	sktop nputers	30	45	
2.	Create a design using all basic tools and make changes using shape tool.	2. Las	ser Printer	01	02	
3.	Create a notebook wrapper design using fountain filling and pattern filling tools.	3. Sca		01	01	
4.	Create an invitation using arrange menu commands like transformations, align and distribute and order.					
5.	Create a calendar with the help of Grid Tool, Power clip and import commands.	• GIN				
6.	Create a simple logo using text tool, rectangle tool and ellipse tool.	Kri Pin	ta			

7. 8.	Transform one object into another object using blend tool. Create a design by using the various Selection Tools, cutting and pasting the images.	Shotwell or any equivalent open source software. [or] Corel draw, Photoshop,		
9.	Using multiple layers, create a design with the use of masking various images.	Adobe in design.(optional).		
10.	Create a design by the use of text tools and apply text effects.			
11.	Change the color of an image by the use of selective coloring method.			
12.	Create a design by applying the various filtering effects.			
13.	Create a simple layout and master page by using master page palette and Character Styles.			
14.	Create a multipage document by using character, paragraph, auto flow and text commands.			
15.	Create a stylish monthly calendar sheet by using table and its formatting commands.			

Institution Code	Institution Name		Course Code	C	ourse Name	
816	SHREE VENKATESHWARA HI-TECH PO COLLEGE	OLYTECHNIC	1052	сомри	TER ENGINE	ERING
Subject Code		ame of the Pra	ctical Subject			
4052450	WEB DESI	GN AND PROGE	RAMMING PRAC	CTICAL		
Experiment No	Name of the Experiment	Equipments / Consumable		Number Required as per Syllabus	Number available in Working Condition	Remark
1	Design a HTML page describing your profile in one paragraph. Design in such a waythat it has a heading, a horizontal rule, three links and your photo. Also, write threeHTML documents for the links. Include facilities for forward, backward and HOME.				Contract	
2	Design a HTML page about computer languages. List the language. Each Language's name is a link. Prepare separate HTML documents for each language and call them in the appropriate link.	Desktop Co Laser Print	•	30 01	55 04	
3	Design a single page website for your polytechnic containing a description of the courses offered. It should also contain some general information about the college such as its history, the campus, and its unique features					
	and so on. The site should be colored and each section should have a different color.					
4	Develop a web page using CSS to create a time table for the class using different border style.					
5	Write a Java script code that converts the entered text to uppercase.					
	Write a Java script code to validate					
6	the username and password. The username and password are stored in variables.					
7	username and password are stored in variables. Write a Java Script code using frames and Events (When a cursor moves over an object it should display the specification of the object in another					
	username and password are stored in variables. Write a Java Script code using frames and Events (When a cursor moves over an object it should display the					

10	Write jQuery Program for Disable/enable the form submit button & Blink the text.		
11	Write a PHP program to implement at least 05 string functions with description		
12	Create a PHP script which display the capital and country name from the given array. Sort the list by the name of the country.		
13	Write a PHP program to implement Date and Time Functions.		
14	Write a PHP script to display table with implementing Form Processing Controls of Insert and Delete data from data base.		
15	Create a simple shopping - cart script using PHP and MySQL.		

Institution Code	Institution Name		Course Code		Course Nan	ne
816	SHREE VENKATESHWARA HI-TECH POLYT COLLEGE	rechnic	1052	сомі	PUTER ENGIN	NEERING
Subject Code	Name o	of the Prac	tical Subjec	:t		
4052460	JAVA PRO	OGRAMMI	NG PRACTIO	CAL		
1.	Write a program to read the temperature in Celsius and convert into Fahrenheit.					
2.	Write a program to read 2 integers and find the largest number using conditional operator.					
3.	Write a program to read an integer and find the factorial of a number.					
4.	Write a program to implement Vector class and its methods.	Desktop				
5.	Write a program to read a string and check whether it is palindrome or not.	Compute	ers	30	55	
6.	Write a program to create a class with following data members 1. register number 2. Name 3. Marks in 3 subjects and member functions 1. parameterised constructor – to assign values to members 2. method to find total mark 3. method to display register number, name, total mark Create 3 objects from the above class and use the members.	Printer		01	04	
7.	Write a program that accepts radius of a circle from command line and display its					

	area.
8.	Write a program to implement multilevel inheritance.
9.	Write a program to create a own exception subclass that throws exception if the given number is not in a range of numbers.
10.	Write a program that creates three threads. First thread displays "Good Morning" everyone second, the second thread displays "Hello" every two seconds and the third thread displays "Welcome" every three seconds.
11.	Write a program to create a file using Byte stream or Character stream class.
12.	Write a program to demonstrate Mouse events.
13.	Write a program to display basic shapes using Graphics class and fill them using Color class.
14.	Write a program to create a simple calculator to perform addition, subtraction, multiplication and division using button, label and text field.

Institutio n Code	Institution Name		Course Code	Соц	ırse Name	
816	SHREE VENKATESHWARA HI-TECH POLYTEC COLLEGE	CHNIC	1052	COMPUTE	ER ENGINEE	RING
Subject Code	Name of t	he Prac	tical Subject			
4052470	RDBMS PRACTICAL					
Experime nt No	Name of the Experiment	A Co	quipments / pparatus / onsumables Required	Number Required as per Syllabus	Number available in Working Conditio n	Remar ks
1	Install, configure and connect to MySQL server and MySQL workbench in windows. Create a database, backup and restore the database.	Deskto Printo	op Computers er	30 01	55 04	
2	To study Basic MySQL commands (create database, create table, use, drop, insert) and execute the following queries using these commands: Create a database named 'employee'. Use the database 'employee' and create a table 'emp' with attributes 'ename', 'ecity', 'salary', 'enumber', 'eaddress', 'deptname'. Create another table 'Company' with attributes 'cname', 'ccity', 'empnumber' in the database 'employee'.	Deskt Printe	op Computers er	30 01	55 04	
3	To study the viewing commands (select, update) and execute the following queries using these commands: Find the names of all employees who live in	Deskto Printo	op Computers er	30 01	55 04	

	Chennai. Increase the salary of all employees by				
	Rs.5,000.				
	Change the company city to Chennai where				
	the company name is 'TCS'.				
	study the commands that involve compound				
	conditions (and, or, in, not in, between, not				
	between, like, not like) and execute the				
	following queries using these commands:				
	Find the names of all employees who live in				
	'Chennai' and whose salary is between				
	Rs.20,000 to Rs.30,000.	Desktop Computers	30	55	
4	Find the names of all employees whose	Printer	01	04	
	names begin with either letter 'A' or B'.				
	Find the company names where the				
	company city is 'Chennai' and the number of				
	employees is not between 5000 and 10,000.				
	Find the names of all companies that do not				
	end with letter 'A'				
	a) Create a database 'polytechnic_collee'.				
	Create 2 users namely 'staff' and 'student'.				
	Grant all privileges to the user 'staff' and				
	grant only 'create' privilege to 'student' user				
5	and verify the same.	Desktop Computers	30	55	
3	Revoke all privileges to the 2 users and	Printer	01	04	
	verify the same.				
	b) Implement the following transactions				
	control statements.				
	i) Commit ii) Rollback iii) Save point				
	Create table 'author' with the following				
6	structure, author_id, author_name, address,	Desktop Computers	30	55	
O	Mobile, book_title, pages published_on	Printer	01	04	
	i) Insert 4 books published by 3 authors				

	each. (12 records) ii) Fetch all the rows and observe how the data duplicated. iii) Apply 1st and 2nd normal forms to fix it.				
7	To study the commands for views and execute the following queries using these commands: Create a view having ename and ecity In the above view change the ecity to 'Chennai' where ename is 'John'. Create a view having attributes from both the tables. Update the above view and increase the salary of all employees of IT department by Rs.1000.	Desktop Computers Printer	30 01	55 04	
8	Create a library table with proper fields. Create another table called library1 and insert rows from library table. Hint: CREATE TABLE new_table LIKE original_table; INSERT INTO new_table SELECT * FROM original table;	Desktop Computers Printer	30 01	55 04	
9	Create a table to store the details of a customer in a Bank. Do some transactions like withdrawal, deposit. Find the Balance amount(Credit Limit). Based on customer's credit limit, write a program using IF or CASE flow control statements to find the customer levels namely SILVER, GOLD or PLATINUM. Curriculum Development Centre Page 84 If the Credit limit is greater than 50K, then the customer level is PLATINUM	Desktop Computers Printer	30 01	55 04	

	less than 50K and greater than 10K, then the				
	customer level is GOLD less than 10K, then				
	the customer level is SILVER				
	Create two tables with the following				
	structure.				
	a) users - table name				
	user_id - UNSIGNED, INT, AUTO INCREMENT,				
	PRIMARY KEY				
	username - VARCHAR (60)				
	password - VARCHAR (128)				
	email - VARCHAR (255)				
	b) users_profiles				
10	user_id - FOREIGN KEY refers to user_id field	Desktop Computers	30	55	
10	of user table	Printer	01	04	
	first_name - VARCHAR(60)				
	last_name - VARCHAR(60)				
	mobile - VARCHAR(15)				
	i) SELECT all the users along with their				
	profile details. (Hint: Use INNER JOIN)				
	ii) SELECT the users who do not have				
	profiles (Hint: USE LEFT JOIN and exclude				
	the rows generated with NULL values from				
	joining table)				
	Create an employee database and create a				
11	stored procedure that accepts employee_Id	Desktop Computers	30	55	
	as input and returns complete details of	Printer	01	04	
	employee as output.				
	Create two tables with the following				
	structure				
12	Authors	Desktop Computers	30	55	
12	author_id - INT	Printer	01	04	
	name VARCHAR (60)				
	titles_count INT holds the total number			1	

	numbers of titles authored.				
	Titles author_id - INT				
	name VARCHAR (512) name of the title				
	a. Create a trigger to update the titles count				
	field of respective row in authors table each				
	time a title gets inserted into titles table.				
	b. Create log table with the following				
	structure author_id - INT				
	name VARCHAR (512) name of the title				
	status VARCHAR(25)				
	ADDITION, DELETION, UPDATION				
	and insert an entry in that table each time				
	the tile is added, deleted or updated. Use a				
	trigger to accomplish this.				
	Create a table containing phone number,	Model Woods and	1700000	5000000	
13	user name, address of the phone user. Write	Desktop Computers	30	55	
13	a function to search the address using phone	Printer	01	04	
	number.				
	Create a table to store the salary details of				
	the employees in a company. Declare the	Desktop Computers	30	55	
14	cursor id to contain employee number,	Printer	01	04	
	employee name and net salary. Use cursor				
	to update the employee.				
	Write a program to connect PHP with MySQL	Desktop Computers	30	55	
15	and create a database using PHP MySQL.	Printer	01	04	I

Institution Code	Institution Name Con			Course Name			
816	SHREE VENKATESHWARA HI-TEC POLYTECHNIC COLLEGE	Н	1052	COMPUTER ENGINEERING			
Subject Code	Name	of the Pra	ctical Subj	ect			
4052540	PYTHON F	ROGRAM	MING PRAC	CTICAL			
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Condition	Remarks	
1.	i) Write a Python program to compute GCD of two numbers.ii) Write a Python Program to print prime numbers in the given range.	Desktop Compute	ers	30 01	45 02		
2.	i) Write a Python Program to check the given year is leap year or not. ii) Write a Python Program to print Armstrong numbers between given range.	Laser Printer Software Requirements: Windows / Linux		Sufficient	Python V3.7 available in		
3.	i) Write a Python Program to do basic trim and slice operations on String. ii) Write a Python Program to accept line of text and find the number ofcharacters, vowels and blank spaces on it.	Python (g System. to run as ive mode E mode).		all computers		

4.	i) Write a Python Program using function to display all such numbers which is divisible by 3 but are not multiple of 5 in a given range. ii) Write a Python Program using recursion to print 'n' terms in Fibonacciseries.	
5.	Write a Python Program to add 'ing' at the end of a given string if the string has 3 or more characters. If the given string is already ends with 'ing' then add 'ly' instead. If the string has less than 3 characters, leave it unchanged.	
6.	Write a Python program to find minimum and maximum of a list of numbers.	
7.	Write a Python program to display a list in reverse order.	
8.	Write a Python Program to print the first half values of tuple in one line and last half values in next line.	
9.	Write a Python Program to take a list of words and return the length of the longest one using string.	

10.	Write a Python Program to find an element in a given set of elements usingLinear Search.	
11.	Write a Python Program to sort a set of elements using Selection sort.	
12.	Write a Python Program to multiply two matrices.	
13.	Write a Python program to demonstrate different operations on Tuple.	
14.	Write a Python Program to demonstrate to use Dictionary and relatedfunctions.	
15.	Write a Python Program to copy file contents from one file to another and display number of words copied.	

Institution Code	Institution Name Course Code			Course Name		
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE	1052 COMPUTER ENGINEERIN			NEERING	
Subject Code	Name o	of the Pra	ctical Subject			
4053550	CLOUD COMPUTING A	ND INTE	RNET OF THINGS	PRACTIC	AL	
Experimen t No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Numb er Requir ed as per Syllab us	Number availabl e in Workin g Conditi on	Remarks
1.	To implement program on SaaS to Create an word document of your class time table and store locally and on cloud with doc and pdf format	23 (Sec.	Desktop Computers		45 02	
2.	To implement program on SaaS to Create a spread sheet to generate a marksheet for student progress report.	1. Arduino kit 2. Node MCU / Raspberry Pi 3. LED Blub 4. 330K Resistor		10 10	10 10	
3.	To implement web services by create your BlogSpot and Collaborating via Wikis			10 10 10	10 10 10	
4.	To implement on PaaS to Install Google App Engine, create a program to validate user; create a database login(username, password)in mysql and deploy to cloud	7. 5V D	Motor 5 V DC	10 10 10 10	10 10 10 10	

5.	Install Virtual box / VMware Workstation with different flavours of	9. 16x2 LCD Display 10. IR Sensor	10 10	10 10	
5.	linux or windows OS on top of windows7 or 8.	11. LM35 Temperature Sensor			
6.	Install OpenStack and use it as Infrastructure as a Service and use technology own Cloud.	12. Connecting Wires Software Requirements			
7.	Case Study on any one Open source and commercial Cloud-Microsoft Azure ,Eucalyptus , Amazon EC2	: Arduino IDE			
8.	To implement LED Blink and LED Pattern With Arduino				
9.	To implement LED Pattern with Push Button Control With Arduino				
10.	To display "Hello World " in LCD 16X2 Display With Arduino				
11.	To implement the Servo Motor Control with Arduino				
12.	To implement and monitor the LM35 Temperature Sensor and Ultrasonic Distance Measurement With Arduino				
13.	To implement the IR Sensor Analog Input With Arduino				
14.	Using ThinkSpeak Cloud Reading Temperature Sensor Monitoring with NodeMCU /Raspberry Pi				

Institution Code	Institution Name		Course Code	Course Name		
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE	I	1052 COMPUTER ENGINEERING			
Subject Code	Na	ıme	of the Practical Subject	t .		
4052561	COMPONEN	NT B	ASED TECHNOLOGY PR	RACTICAL		
Experiment No	Name of the Experiment	Equ	nipments / Apparatus / Consumables Required	Number Required as per Syllabus	Number available in Working Condition	Remarks
1.	Accept a character from console and check the case of the character.		Desktop Computers	30	45	
2.	Write a program to accept any character from keyboard and display whether it isvowel or not.	501	Laser Printer	01	02	
3.	Write a program to implement a calculator with memory and recall operations.		ual Studio 08/2012/2013/2015	Sufficient	available in all computers	

4.	Develop a form in to pick a date from Calendar control and display the day, month, and year details in separate text boxes.	Microsoft SQL Server 2005/2008 or above	Sufficient	available in all computers	
5.	Develop a application using the File and directory controls to implement a commondialog box.				
6.	Develop a database application to store the details of students using ADO.NET				
7.	Create a simple ASP.NET page to Output Text with a form, two HTML text boxes, an HTML button, and an HTML element. Create an event procedurefor the button.				
8.	Develop a menu based application to implement a text editor with cut, copy, paste, save and close operations with accessing and shortcut keys.				
9.	Develop an application to perform timer based quiz of 5 questions.				

10.	Develop a database application using ADO.NET to insert, modify, update and deleteoperations.		
11.	Develop a application using Datagrid to add, edit and modify records.		
12.	Develop a web application to input data through a web form to a database andvalidate the data. Use the Required Field Validator and RangeValidator Controls.		
13.	Develop a Window application to read an XML document containing subject, markscored, year of passing into a Dataset.		
14.	Develop a Window application to read students records from Database using ADO.NET and generate XML document containing students records.		

Institution Code	Institution Name		Course Code	Course Name		
816	SHREE VENKATESHWARA HI TECH POLYTE COLLEGE	CHNIC	1052	сомри	TER ENGINE	ERING
Subject Code	Name of	the Pra	ctical Subject			
4052640	COMPUTER HARDWAF	RE AND	NETWORKING	PRACTICAL	•	
Experimen t No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Condition	Remar ks
1	IDENTIFICATION OF SYSTEM LAYOUT (STUDY EXERCISE) a) Front panel indicators & switches and front side & rear side connectors. b) Familiarize the computer system Layout: Marking positions of SMPS, Motherboard, HDD, DVD and add on cards. c) Configure bios setup program and troubleshoot the typical problems using BIOS utility			30	55	
2	HARD DISK a) Install Hard Disk. b) Configure CMOS-Setup. c) Partition and Format Hard Disk. d) Identify Master /Slave / IDE Devices. e) Practice with scan disk, disk cleanup, disk De-fragmentation, Virus Detecting and Rectifying Software. f) Creating System restore points in windows for system recovery.		uter lisk drive & rus software	30 6	55 6	

		Computer	30	55	
	a) Install and Configure a DVD Writer &	CD/ DVD Writer	3	3	
3	Blu-ray Disc Writer.	Blu-ray writer	3	2	
	b) Recording a Blank DVD & Blu-ray Disc.	Blank Blu-ray disk	20	30	
	, ,	Blank dvd disk	20	30	
5	Install and configure Scanner, Web cam, and bio-metric device with system and troubleshoot the problems	Computer Scanner Web cam Bio -metric device	30 1 1 1	55 1 5 1	
6	Do the following cabling works in a network a) Cable Crimpling b) Standard Cabling c) Cross Cabling d) I/O Connector Crimping e) Testing the Crimped cable using a Cable tester	Crimping Tool RJ45 jack RJ45 Tester and Network Cables	6 - 6	7 100 6	
7	a) Configure Host IP, Subnet Mask and Default Gateway in a system in LAN (TCP/IP Configuration). b) Configure Internet connection and use IPCONFIG, PING / Tracert and Netstat utilities to Debug the Network issues.	Computer	130	55	
8	a) Install and configure Network Devices: HUB, Switch and Routers b) Install and Configure Wired and Wireless NIC and transfer files between systems	Switch Hub Router	1 1 1	3 1 1	
9	Transfer files between systems in LAN using FTP Configuration. Install a printer in LAN and share it in the network.	Computer with server 2003 Computer with windows 7 Switch &LAN cable	1 30 2	2 50 2	

10	Installation of Windows 2008 / 2013 Server.	Computer and windows server 2008 operating system	30	55	
11	Installation and configuration of DHCP Server.	Computer with server 2008 & client windows 7 Hub/Switch &LAN cable	1&30 2	2&30 2	
12	Installation and configuration of Mail Server.	Computer with server 2008 & client windows 7 Hub/Switch &LAN cable	1&30 2	1&30 2	
13	Installation and configuration of Active directory Services. Create a user andpermission using logon script and group permissions.	Computer with server 2008 & client windows 7 Hub/Switch &LAN cable	1&30 2	1&30 2	
14	Installation and configuration of DNS Server	Computer with server 2008 & client windows 7 Hub/Switch &LAN cable	1&30 2	1&30 2	
15	a) Installation of Red Hat Linux using Graphical mode. b) Installation of Red Hat Linux using VMware.	Computer and Red Hat linuxos SW:Vmware software	30	55	
16	Installation of various open source packet sniffing tools and inspect packets inlinux.	RedHatlinux installed system	30	55	

Institution Code	Institution Name		Course Code		Course Nam	e	
816	SHREE VENKATESHWARA HI-TECH P COLLEGE	OLYTECHNIC	1052	сомр	UTER ENGIN	EERING	
Subject Code	Na	ame of the Pra	ctical Subject				
4052652	MUL	MULTIMEDIA SYSTEMS PRACTICAL					
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Condition	Remarks	
1.	Use a audio processing software and perform the audio editing tasks – Import audio, select and edit the sound, create fade-in and fade-out effects, label audio segments, use noise remove filter, mix multiple sound sources, change stereo to mono tracks, export audio to different format and save.	Desktop PC, Laser printer, Microphone., adobe audition cs6		30	55		
2.	Use a video processing Software to perform – Trim video clips, crop video, rotate video, join video, add subtitles, and edit video dimension, bit rate, frame rate, sample rate, channel, and video/audio quality tasks on a video.	Desktop PC, Laser printer,adobe premiere pro cs3		30	55		

3.	Create a Movie from video clips to demonstrate: - Audio-Video Mixing, Music, Video Effects, Video Transitions, and Titles.	Desktop PC, Laser printer, adobe premiere pro cs3	30	55	
4.	Use suitable software to (a) compress / decompress audio / video files. (b). convert audio / video to different formats. (c). split, join, rip audio / video.	Desktop PC, Laser printer, VLC MediaPlayer, adobe premiere pro cs3	30	55	
5.	Use a scanner to create two or more partial scanned images of large poster/photo. Create a panoramic view of multiple photos by stitching together them using any panorama software.	Desktop PC, Laser printer,PTGui photo stitching software 9.1	30	55	
6.	Develop a web page which shows animation with sound effect using any professional HTML editor.	Desktop PC, Laser printer,notepad,browser	30	55	
7.	Convert the given image into pencil sketch using suitable photo editing software.	Desktop PC, Laser printer, adobe photoshop	30	55	
8.	Design a certificate for sports day with different text effects using suitable software	Desktop PC, Laser printer, adobe photoshop	30	55	

9.	Import any two pictures, Morph, Merge and Overlap those two pictures.	Desktop PC, Laser printer, adobe photoshop	30	55	
10.	Draw the raindrop that falls on the ground. Show the splash effect and sound effect using suitable software.	Desktop PC, Laser printer, autodeskmaya	30	55	
11.	Create a moving cloud animation using any animation software.	Desktop PC, Laser printer, adobe photoshop cs3	30	55	
12.	Create a 2D animation using motion guide layer and masking.	Desktop PC, Laser printer, adobe Flash	30	55	
13.	Create a 2D animation of an aeroplane take off using suitable software.	Desktop PC, Laser printer, adobe Flash	30	55	
14.	Design a metallic text using 3D animation tool	Desktop PC, Laser printer,autodeskmaya	30	55	
15.	Import an image with green screen background. Change the background of the imported image with required image using chroma key technique.	Desktop PC, Laser printer, Adobe Premire pro	30	55	

Institution Code	Institution Name	Course Code	Course Name			
816	SHREE VENKATESHWARA HI- TECH POLYTECHNIC COLLEGE	1075	PETROCHEMICAL ENGINEERING			
Subject Code	Name of t	he Practical S	Subject			
4076350	Technical Analysis Practical					
4076360	General Engineering Practical					
4076370	Momentum Transfer Practical					
4076450	Mechanical Operations Practical					
4076460	Heat Transfer Practical					
4075470	Distillate Testing Practical I					
4076550	Chemical Process Simulation Pract	ical				
4076560	Process Instrumentation and Contr	ol Practical				
4075570	Distillate Testing Practical II					
4020570	Entrepreneurship and Starts ups					
4076640	Mass Transfer Practical	Mass Transfer Practical				
4076650	Chemical Cad Practical					
4076660	Project Work & Internship					

Institution Code	Institution Name		Course Code		Course Na	me		
816	SHREE VENKATESHWARA HI-TECH P COLLEGE	POLYTECHNIC 1075		POLYTECHNIC 1075		PETRO CHEMICAL ENGINEERING		
Subject Code	Na	me of the Prac	tical Subject					
4076350	тесн	NICAL ANALYS	SIS PRACTICAL					
Experimen t No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Numb er Requi red as per Syllab us	Number availabl e in Workin g Conditio n	Remarks		
1	Estimation of Hardness of water by EDTA method.	Annual Control of the	nl nl, 20 ml, 10 ml 500 ml, 250 ml,	5 Nos. 5 Nos. 5 Nos.	28 Nos 25 Nos 10 Nos			
2	Estimation of Acid value of Oil	100 ml Burette stand with clamp - Round bottomed flask 500		10 Nos. 5 Nos.	21 Nos 5 Nos 02 Nos 02 Nos			
3	Estimation of Total Fatty Matter content of soap.	ml, 250 ml Liebig's condenser Distillation set		2 Nos. 2 Nos. 5 Nos.	27 Nos 5 Nos.			

5	Estimation of calcium oxide content of cement. Determination of available chlorine in Bleaching Powder	Funnels & Separating funnels Watch Glass 6",3",3" Wash bottles plastics Tripod stand & Wire gauge Hot plate & Muffle Furnace	5 Nos. 5 Nos. 5 Nos. 1 No 1 No. 2 Nos.	10 Nos 05 Nos 01 Nos 05 Nos 02 Nos 01 No	
6	Estimation of purity of Glycerol by Dichromate method.	Silica Crucible with lid Buchner funnel Suction pump Aspirator bottles	1 No. 4 Nos. 1 No	04 Nos 1 No	
7	Determination of purity of Sucrose	Refractometer			
8	Determination of PH using PH meter				
9	Estimation of Saponification of Oil				
10	Estimation of Mixed Oxide content of cement				

Institution Code	Institution Name		Cour se Code		Course N	ame
816	SHREE VENKATESHWARA HI-TE POLYTECHNIC COLLEGE	СН	1075	I	PETRO CHE ENGINEEI	
Subject Code	Name of	the Practical S	ubject			
4076360	GENERAL EN	IGINEERING PI	RACTIC	AL		
Experimen t No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Numb er Requi red as per Syllab us	Number availabl e in Working Conditio n	Remarks
1	Identify the parts of Gate valve, dismantle and assemble the parts of Gate valve.	Gate valve		1	1	
2	Identify the parts of Globe valve, dismantle and assemble the parts of Globe valve.	Globe valve		1	1	
3	Identify the parts of centrifugal pump, dismantle and assemble the parts of Centrifugal pump.	Centrifugal pump.		1	2	

4	Refrigeration Test Rig – COP Determination	Refrigeration Test Rig	1	1	
5	Determine the Hardness Test value of given material (mild steel or plastic material) using hardness testing machine	Hardness Test	1	1	
6	Compressor Test Rig	Compressor Test	1	1	
7	Determination of Unknown Resistance by ohms law	Available	1	1	
8	Energy measurement in a single phase circuit using Lamp load	Available	1	1	
9	Load test on a single phase transformer	single phase transformer	1	1	
10	Verification of Series and parallel circuit	Available	1	1	

Institution Code	Institution Name Course Code			Course Nam	e			
816	SHREE VENKATESHWARA HI-TECH P COLLEGE	OLYTECHNIC	1075	PETRO CH	EMICAL EN	GINEERING		
Subject Code	Na	ame of the Pra	ctical Subject	20				
4076370	мом	ENTUM TRANS	FER PRACTICA	AL		,		
Experimen t No	Name of the Experiment	Equipments / Apparatus / Consumables Required				Number Required as per Syllabus	Number available in Working Conditio n	Remarks
1	Determination of flow rate using Orifice meter	Orifice meter	Orifice meter		1			
2	Determination of flow rate using Venturi meter	Venturi mete	r	1	1			
3	Flow through a straight pipe	Flow Through	h Pipe	1	1			
4	Flow through a helical coil	helical coil		1	1			
5	Rota Meter Calibration	Rota Meter		1	1			
6	Flow through packed column	packed colun	nn	1	1			
7	Flow through fluidization column	fluidization c	olumn	1	1			
8	Centrifugal pump characteristics	Centrifugal pump		1	1			
9	Flow through a Weir	V Notch		1	1			
10	Reciprocating pump characteristics	Reciprocating	g pump	1	1			

Institution Code	Institution Name		Course Code	Course Name		
816	SHREE VENKATESHWARA HI-TECH P COLLEGE	OLYTECHNIC	1075	PETRO	CHEMICALE	NGINEERING
Subject Code		Name of the P	ractical Subjec	t		
4076450	MAG	CHNICAL OPER	ATIONS PRACT	ΓICAL		
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Condition	Remarks
1	Storkes Law of Settling	Long,Wide glass tube		1	1	
2	Batch Settling	Measuring jai	r- 1 Litre	1	1	
3	Industrial Mixer	Mixing tank w	vih	1	1	
4	Leaf Filter	Leaf filter wit	h accessories m pump, /	1	1	
5	Sieve Analysis	Set of sieves a shaker machi	nd sieves	1	1	
6	Jaw Crusher	Jaw Crusher		1	1	
7	Roller Crusher	Double roller	crusher	1	1	
8	Ball Mill	Ball mill with different size of balls		1	1	
9	Filter Press	Plate and frame filter press with accessories		1	1	
10	Cyclone Separator	Cyclone Separ	rator	1	1	

Institution Code	Institution Name		Course Code		Course Na	me
816	SHREE VENKATESHWARA HI-TECH P COLLEGE	POLYTECHNIC	1075	PETROC	HEMICALEN	IGINEERING
Subject Code		Name of the Pr	actical Subject			
4076460		HEAT TRANSFI	ER PRACTICAL			
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Condition	Remarks
1	Thermal Conductivity of Metal Bar	Thermal Conductivity of Metal Bar		1	1	
2	Heat loss in pipe	Heat loss in p	ipe	1	1	
3	Double Pipe Heat Exchanger by co- current Flow	Double Pipe I Exchanger by		1	1	
4	Double Pipe Heat Exchanger by Counter-current flow	Double Pipe I Exchanger by	leat	1	1	
5	Natural Convection Heat Transfer	Natural Conv	ection Heat	1	1	
6	Forced Convection Heat Transfer	Forced Conve	ction Heat	1	1	8
7	Determination of Heat Transfer co- efficient in Vertical Condenser	Heat Transferin Vertical Co		1	1	
8	Determination of Heat Transfer co- efficient in Horizontal Condenser	Heat Transfer co-efficient in Horizontal Condenser		1	1	
9	Determination of Emissivity of a	Emissivity of	a grey Body	1	1	
10	Verification of Stefan Boltzmann constant	Stefan Boltzn	nann constant	1	1	

Institution Code	Institution Name Co		Course Code	Course Name		
816	SHREE VENKATESHWARA HI-TECH P COLLEGE	OLYTECHNIC	1075	PETRO	CHEMICALE	NGINEERING
Subject Code		Name of the P	ractical Subjec	t		
4075470	DI	STILLATE TEST	TING PRACTIC	AL I		
Experiment No	Name of the Experiment	Equipments / Apparatus / Consumables Required		Number Required as per Syllabus	Number available in Working Condition	Remarks
1	Determination of aromatics using aniline point	Aniline point apparatus		01	01	
2	A.S.T.M Distillation of Petroleum	A.S.T.M Distil	lation	01	01	
3	Smoke point of Petroleum Products	Smoke point	apparatus	01	01	
4	Drop point of grease	Drop point ap	paratus	01	01	
5	Determinations of specific gravity by	Centrifuge ap	paratus	01	01	
6	Determination of acidity for	Acidity deteri	mination	01	01	
7	Melting point	Melting point	apparatus	01	01	
8	Softening point	Ring & ball apparatus		01	01	
9	Flash and Fire point of the given	Open cup and closed cup		01	01	
10	Viscosity measurement by saybolt	Saybolt viscometer		01	01	
11	Viscosity measurement by redwood	ERDWOOD vi	scometer	01	01	

Institution Code	Institution Name		Cours	e Code	Course Name		
816	SHREE VENKATESHWARA HI POLYTECHNIC COLLEG		10	75	PETRO	CHEMICALENG	INEERING
Subject Code	N	lame of the Pra	ctical S	ubject)		
4076550	СНЕМІСА	L PROCESS SIM	ULATIO	ON PRA	CTICAL		
Experiment No	Name of the Experiment	Equipmen Apparatu Consumal Require	s / oles	Required as		Number available in Working Condition	Remarks
1	Fractionation column for the distillation of binary mixture	Simulation Software					
2	Batch Reactor	Simulation					
3	Double pipe Heat exchanger	Simulation Software					
4	Size reduction using Ball mill	Simulation					
5	Level and flow control in different sizes of vessel	Simulation Software					
6	CSTR in series	Simulation Software					
7	Centrifugal pump	Simulation					
8	Fluidized bed column	Simulation Software					
9	packed bed column	Simulation Software					
10	Flow through pipe	Simulation					

Institution Code	Institution Name Course Code			C	Course Name	e
816	SHREE VENKATESHWARA HI- POLYTECHNIC COLLEGE		1075		TROCHEMIC NGINEERIN	
Subject Code	N	ame of the Pra	ctical Subject			
4076560	PROCESS INSTR	UMENTATION	AND CONTROL	PRACTICAL		
1	Study of characteristics of Thermocouple module.	Temperature Thermocoupl Thermistor		1	1	
2	Study of characteristics of RTD and Thermistor.	Temperature Thermocoupl Thermistor		1	1	
3	Measurement of Pressure using Strain Gauge type Transducer.	Strain Gauge Transducer	type Pressure	1	1	
4	Measurement of Pressure using Bourdon Pressure Transducer.	Bourdon Transducer	Pressure	1	1	

1	T				
5	Study the linearity of P/I and I/P converter.	P/I and I/P converter	1	1	
6	Level measurement by using Differential Pressure (DP) Transmitter.	Differential Pressure Transmitter	1	1	
7	Study of valve flow coefficients and inherent characteristics of Linear, Equal% and Quick opening.	Pneumatic control valve (Linear, Equal % and Quick opening) set up	1	1	
8	Study of ON- OFF controller using Temperature controller Trainer kit by monitoring the process in SCADA mode or Analog.	Temperature control Trainer Kit with SCADA or Analog - 1 No.	1	1	
9	Study of P, PI and PID controller using Liquid Level controller Trainer kit.	Liquid Level control Trainer Kit with SCADA or Analog - 1 No.	1	1	
10	Study of P, PI and PID controller using Pressure controller Trainer kit by monitoring the process in SCADA mode or Analog.	Pressure Control Trainer Kit with SCADA or Analog	1	1	

Institution Code	Institution Na	me	Course Code	Course Name		
816	SHREE VENKATESHWARA HI-TECH POLYTECHNIC COLLEGE		1075	PETROCHE	MICALENGIN	EERING
Subject Code		Name of the Pra	ctical Subje	ct		
4075570		DISTILLATE TESTIN	NG PRACTIC	AL-II		
Experiment No	Name of the Experiment	Equipments / App Consumables Re		Number Required as per Syllabus	Number available in Working Condition	Remarks
1	Copper Corrosion Test	Copper Corrosion T	est	1	1	
2	Say Bolt Color test	Say Bolt Color test		1	1	
3	Reid Vapour Pressure	Reid Vapour Pressu	re	1	1	
4	Refractive Index	Refractive Index		1	1	
5	Conradson Method	Carbon residue by	Conradson	1	1	
6	Rams Bottom Method	Carbon residue by F	Rams	1	1	
7	Bromine Number Apparatus	Bromine Number A	pparatus	1	1	
8	Sediments By Extraction	Sediments By Extra	ction	1	1	
9	Kinematic Viscosity	Kinematic Viscosity		1	1	
10	Penetration Apparatus	Penetration numbe	r of	1	1	

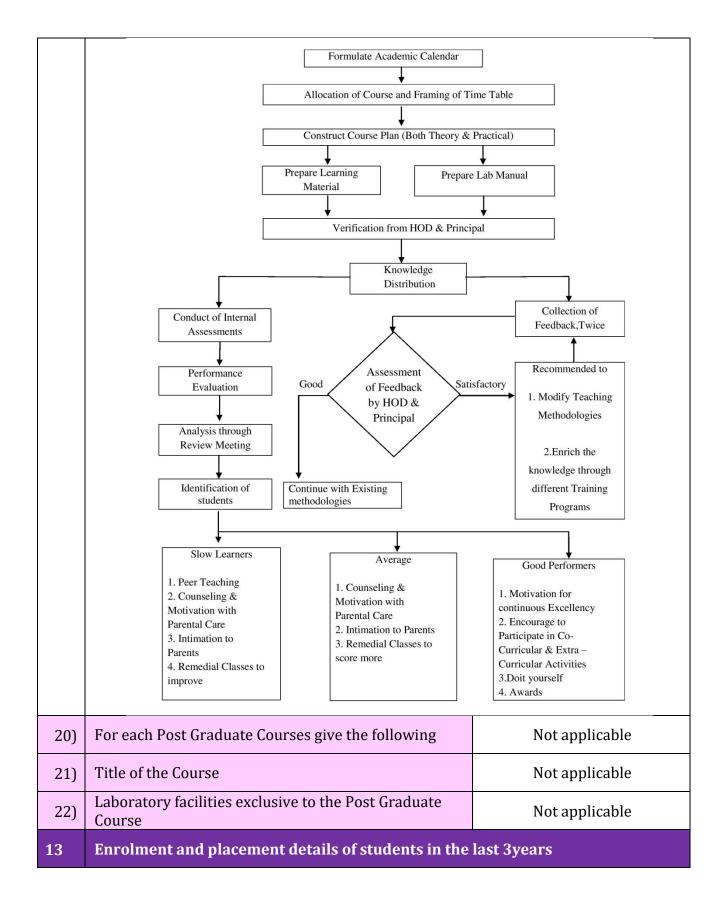
Institution Code	Institution Name Course Co			Co	ourse Name	
816	SHREE VENKATESHWARA HI-TECH COLLEGE	POLYTECHNIC	1075	PETROCHE	MICALENGI	NEERING
Subject Code		Name of the Pra	ctical Subject			
4076640		MASS TRANSFE	R PRACTICAL			
Experiment No	Name of the Experiment	Equipments / Consumable		Number Required as per Syllabus	Number available in Working Condition	Remarks
1	Simple Distillation	Simple Distilla	tion	1	1	
2	Determination of Vapour- Liquid Equilibrium	Vapour Liquid Apparatus	Equilibrium	1	1	
3	Steam Distillation	Steam Distillat Apparatus	ion	1	1	
4	Liquid-Liquid Extraction	Liquid-Liquid I	Extraction	1	1	
5	Soxhlet Extraction	Soxhlet Extract	tor	1	1	
6	Drying Characteristic solid	Drier		1	1	
7	Crystallization by Cooling	Crystallization	by Cooling	1	1	
8	Crystallization by Evaporation	Crystallization Evaporation A		1	1	
9	Decolourization by Adsorption	Decolourizatio Adsorption Equ		1	1	
10	Diffusivity Measurements	Diffusivity Mea	surements	1	1	

Institution Code	Institution Name Course Code Course Nam					
816	SHREE VENKATESHWARA HI-TECH P COLLEGE	OLYTECHNIC	1075	PETROCI	HEMICALENGIN	EERING
Subject Code	Na	ame of the Pra	ctical Sub	ject		
4076650	C	CHEMICAL CAD	PRACTIC	CAL		
Experiment No	Name of the Experiment	Equipmer Apparatı Consuma Require	ıs / bles	Number Required as per Syllabus	Number available in Working Condition	Remarks
1	Fractionation column	Auto Cad Soft 2D	ware		<u>ə</u>	
2	Batch Reactor	Auto Cad Soft 2D	ware		ntity Availab	
3	Shell and tube Heat exchanger	Auto Cad Soft 2D	ware		Sufficient Quantity Available	
4	Long tube Evaporator	Auto Cad Soft 2D	ware		ns	

5	Rotary Drum Filter	Auto Cad Software 2D		
6	Simple piping layout with 2D	Auto Cad Software 2D		
7	Spray Drier	Auto Cad Software 3D		
8	Agitated batch crystallizer	Auto Cad Software 3D		
9	Simple piping layout in isometric view.	Auto Cad Software 3D		
10	Set up Process Instrumentation Diagram (P&ID) of Distillation column	Auto Cad Software 3D		

15)	Social Media Cell	Available
16)	Compliance of the Academic Bank of Credit (ABC), applicable to PGCM/ PGDM Institutions and University Departments	Not Applicable
17)	To upload the respective short video (1-2 min) of Infrastructure and facilities available w.r.t the courses	Available

	in the website	
18)	Games and Sports Facilities	
	Outdoor Games	Indoor Games
	1. Volleyball Court	1. Chess
	2. Throw Ball Court	2. Carrom
	3. Koko Court	
	4. Kabaddi Court	
	5. Tennikoit Court	
	6. Handball Court	
	7. Cricket Court	
19)	Teaching Learning Process	



PLACEMENT DETAILS 2023-24

Sl.	Name of the Company		T	otal No of	Offers			Package
No	Name of the Company	CIVIL	МЕСН	AUTO	EEE	ECE	CSE	Details
01	NOKIA	-	-	-	10	7	23	1.98 LPA
02	FOXCONN	-	-	-	-5	3	21	1.98 LPA
03	PRICOL LIMITED	-	12	17	16	5	0	1.86 LPA
04	ROYAL ENFIELD	-	6	7	14	7	0	2.20 LPA
05	LEDL & LECS	-	22	7	23	13	0	2.02 LPA
06	KYUNGSHIN INDUSTRIAL MOTHERSON PVT.LTD	-	19	16	5	-	-	2.23 LPA
07	TVS TRAINING & SERVICES, CHENNAI	-	10	12	3	2	-	1.98 LPA
08	DESERV INTERNATIONAL, DUBAI	-	4	1	2	-	-	3.54 LPA
09	RAMALINGAM CONSTRUCTION	4	-	-	-	-	-	1.80 LPA
тот	AL NO OF OFFERS	4	73	60	78	37	44	296

PLACEMENT DETAILS 2022-23

S1.	Name of the Company	Total No of Offers						Package	
No		CIVIL	MECH	AUTO	EEE	ECE	CSE	PCT	Details
01	Hyundai Motor India Ltd,Chennai		6	10	10				2.11 LPA
02	JBM Auto Ltd,Chennai		5	4	3	4			1.80 LPA
03	AM/NS INDIA		2		1				2.0 LPA
04	LPT, COIMBATORE		17	17					2.02 LPA
05	LECS,COIMBATORE				13	13			2.02 LPA
06	LMW,COIMBATORE		20		10				2.10 LPA
07	NOKIA,CHENNAI					7	21		1.98 LPA
08	ABI SHOWATECH		2						2.11 LPA
09	VERTICAL SOLUTIONS	1			1	6	20		2.22 LPA
10	BRAKES INDIA PVT LTD							6	1.80 LPA
11	RAMALINGAM CONSTRUCTION	7							1.80 LPA
12	VPG SENSORS – CHENNAI				9	4			1.80 LPA
TOTAL NO OF OFFERS		8	52	31	47	34	41	6	219

List of Research Projects/Consultancy
Works
Nil

MoUs with Industries

	MOU SIGNED COMPANY LIST						
1.	SS TECHNOVATION, COIMBATORE	04.11.2019.					
2.	SREE SARAVANA ENGINEERING BHAVANI PRIVATE LIMITED	09.03.2020.					

	3.	PUMO TECHNOVATION INDIA PVT LTD, COIMBATORE	03.08.2021.
	4.	CALIBER EMBEDDED TECHNOLOGIES INDIA PVT LTD	03.03.2021.
	5.	SHREE TECHNOLOGIES	18.11.2021.
	6.	NEW TECHNOLOGY, COIMBATORE	17.03.2022.
	7.	LIVEWIRE, ERODE	16.09.2022.
	8.	MOBITECH WIRELESS SOLUTION PRIVATE LIMITED, PERUNDURAI	02.12.2023.