



Anna University, Chennai
Government College of Engineering Bargur - 6107

Consolidated_Report

1.College

Name Of the College	GOVERNMENT COLLEGE OF ENGINEERING BARGUR
Address	BARGUR MADEPALLI, BARGUR, KRISHNAGIRI
Pincode	635104
Year of establishment of the college	1994
Type of the Institution	GOVERNMENT
Category Of the College	NOT APPLICABLE
Type of college	ENGINEERING
Is the College Autonomous	YES
Autonomous Approved From the year	2017
Autonomous Validity period of the year	2017-2023
Is the college Functioning at the above said-approved site?	YES
Mobile	9442566101
Telephone	04343 - 266067
Other Telephone	-
Fax	04343 - 266067
E mail ID	principal503@gmail.com
Website Address	www.gcebargur.ac.in
Inclusion under Sections 2(f) and 12(B) of the UGC Act, 1956	
Section 2(f)	Included
Letter No. and date, if included	f.no.8-120/2014(CPP-I/C) & 14-09-2015
Section 12(B)	Included
Letter No. and date, if included	f.no.8-120/2014 (CPP-I/c) & 14-09-2015
Any other Accreditation / Recognition	Others-NBA

2. Trust details

The Head of the Trust	Chairman		
Name Of the Trust/Society			
Address of the Registered Office			
District			
Name of the Chairman			
Father Name			
E-mail	principal503@gmail.com		
Mobile Number of the Chairman	9442566101		
Telephone number	-		
Telephone number - Office	-		
Telephone number - Residence	04343 - 266067		
Registration Number & Date	<table border="1"><tr><td>Registration Number</td><td>Date</td></tr></table>	Registration Number	Date
Registration Number	Date		

3. Principal

Name	Dr. CHANDRASEKARAN M		
Date of birth	14-04-1961		
Age	58		
Father Name	Mr. MUTHIAL CHETTY		
Date of joining	22-09-2017		
Experience	34		
Telephone number - Office	04343 - 266101		
Telephone number - Residence	04343 - 266101		
Fax number	04343 - 266067		
Mobile number	9442566101		
E-mail	principal503@gmail.com		
Residential Address Line 1	166, KANNAGI NAGAR II STREET, ANGAMMAL COLONY		
Line 2	SALEM 636009		
District	Salem		
Educational Qualification	Degree	Specialization	Class
	Ph.D.	Faculty of Information and Communication Engineering	Distinction
Title of the Ph.D. Thesis	PERFORMANCE EVALUATION OF POLYNOMIAL CONGESTION CONTROL ALGORITHMS MIMD POLY AND PIPD POLY IN VARIOUS TCP IP NETWORKS		

4. Governing council

Name	Position	Qualification	Present Designation / Occupation	Telephone Numbers	Mobile No	E-mail ID	Address
Dr. PRAKASH J	Members	Ph.D.-Faculty of Electrical Engineering	PROFESSOR	-	4422516320	prakaiit@gmail.com	DEPARTMENT OF INSTRUMENTATION ENGINEERING, MIT CAMPUS, ANNA UNIVERSITY - CHENNAI, 600025 Chennai
Mr. KANNAN VARADACHARIAR	Members	Ph.D.- Mathematics	PROFESSOR	040 - 23134001	9949193737	vksm@uohyd.ernet.in	DEPARTMENT OF MATHEMATICS AND STATISTICS, UNIVERSITY OF HYDERABAD - GACHIBOWLI, CENTRAL UNIVERSITY PO 500046 Others-HYDERABAD
Dr. ARULARASU M	Members	Ph.D.-Production Engineering	ADDITIONAL DIRECTOR	044 - 22350525	4422350525	adadote@gmail.com	ADDITIONAL DIRECTOR EXAMS, DIRECTORATE OF TECHNICAL EDUCATION - CHENNAI 600025 Chennai
Dr. CHANDRASEKARAN M	Others-PRINCIPAL	Ph.D.-Faculty of Information and Communication Engineering	PRINCIPAL	04343 - 266067	9597817412	principal503@gmail.com	166, KANNAGI NAGAR II STREET, ANGAMMAL COLONY - SALEM 636009 Salem
Dr. MADHUKAR M RAO	Members	Ph.D.-Others-AEROSPACE ENGINEERING	TECHNICAL DIRECTOR AND GENERAL MANGER	-	9845481291	madhukar.m.rao@gmail.com	ACR INFOTECH PVT LTD, NO 64, 7th MAIN, BTM 2nd STAGE, - BANGALORE 560076 Others-bangalore
Mr. NATARAJ KM	Chairman	M.E.- Manufacturing Engineering	TECHNICAL ARCHITECT	-	9342577832	natarajakm@gmail.com	EMBASSY TECH SQUARE, CESSNA BUSINESS PARK INTERNATIONAL - BANGALORE 560103 Others-BANGALORE
Dr. JAYADEV PK	Members	Ph.D.-Mechanical Engineering	PRINCIPAL RETIRED	-	9443056469	pkjayadev@gmail.com	GOVERNMENT COLLEGE OF ENGINEERING - SALEM Salem
Dr. THIRUMAL P	Members	Ph.D.-Mechanical Engineering	ASSISTANT PROFESSOR	0427 - 266067	9443455580	ptml76@gmail.com	NO 1, STAFF QUARTERS, GOVERNMENT COLLEGE OF ENGINEERING BARGUR - 635104 Krishnagiri

5.planning and monitoring

Name	Position	Category	Qualification	Present Designation / Occupation	Telephone Numbers	Mobile Numbers	E-mail ID	Address
Dr. CHANDRASEKARAN M	Chairman	Principal of the college	Ph.D. - Faculty of Information and Communication Engineering	Principal	04343 - 266067	9597817412	PRINCIPAL503@GMAIL.COM	166, KANNAGI NAGAR II ST, ANGAMMAL COLONY-SALEM 636009 Salem
Mr. NATARAJ KM	Member	Industrial expert in the field of engineering and technology	M.E. - Manufacturing Engineering	Others - TECHNICAL ARCHITECT	-	9342577832	NATARAJAKM@GMAIL.COM	EMBASSY TECH SQUARE,-CESSNA BUSINESS PARK INTERNATIONAL 560103 Others - BANGALORE
Dr. NAFEESA BEGUM J	Member	Senior faculty member of the college	Ph.D. - Computer Science and Engineering	Assistant Professor	-	9486254133	nafeesa.research@gmail.com	hod cse-gce bargur Krishnagiri
Dr. THIRUMAL P	Member	Senior faculty member of the college	Ph.D. - Mechanical Engineering	Assistant Professor	-	9443455580	ptml76@gmail.com	NO 1, staff quarters-gce bargur - 635 104 Krishnagiri
Dr. MADHUKAR RAO M	Member	Industrial expert in the field of engineering and technology	Ph.D. - AEROSPACE ENGINEERING	Others - TECHNICAL DIRECTOR AND GENERAL MANAGER	-	9845481291	madhukar.m.rao@gmail.com	ACR INFOTECH PVT LTD NO 64-7TH MAIN BTM 2ND STAGE Others - BANGALORE
Mr. RAGUNATH A	Member	Architect /Civil Engineer	B.E. - Civil Engineering	Others - AE PWD CIVIL	-	9952666193	AE1964SIM@gmail.com	692 hod quarters-govt polytechnic college Krishnagiri

6(i). Anti-Ragging Committee

S l · N o ·	Name	Position	Category	Present Designation / Occupation	Telephone Numbers	Mobile Numbers	E-mail ID	Address
1	Dr. CHANDRASEKARAN M	Chairman	Principal	PRINCIPAL	04343 - 266067	9597817412	PRINCIPAL503@GMAIL.COM	166, KANNAGI NAGAR II ST, ANGAMMAL COLONY - SALEM 636009 Salem
2	Mr. PRIYANATH RAO K	Member	Police Department	SPECIAL SUB INSPECTOR	-	9443618468	sushmitha sindhe58@gmail.com	13/3,jakkappan nagar 4th cross - krishnagiri Krishnagiri
3	Mr. KUMAR A	Member	Representatives of parents	GOLD SMITH	-	9443430494	aakumar55@gmail.com	nO 43, PONNUKRISHNASAMY STREET - PUDHUPET ROAD, TIRUPATTUR 635601 Vellore
4	Mr. sivappa r	Member	Representatives of parents	tnstc cONDUCTOR hosur	-	9442875805	haribaske r08@gmail.com	3/470,Periyar nagar iii cross near watertank - krishnagiri,635715 Krishnagiri
5	Ms. RATHI MEENA M	Member	Representatives of Students	STUDENT	-	9865252036	rathimaadhu@gmail.com	12/54, EDANCHERI VILAI, MARYAPURAM, VILAVANCODE - KAPPUKADU, 629162 Kanyakumari
6	Ms. RAGAVI T	Member	Representatives of Students	STUDENT	-	9865517373	tragavi1998@gmail.com	D/O K THANGAMANI, DR GOVINDHARAJ NAGAR, PLOT NO 36, FIRST STREET - DINDIGUL, 624005 Dindigul
7	Mr. ARAVINDH V	Member	Representatives of Students	STUDENT	-	9751900551	assailaravindh@gmail.com	4/175-5, KAMARAJPET V, DHINNABELLUR PO,PENNAGARAM TK - PENNAGARAM, 636810 Dharmapuri
8	Mr. THANGARASU S	Member	Representatives of Students	STUDENT	-	8098107608	thangarasu309@gmail.com	s/o a sami nathan, 15/a chinnabommpatti, nochipatti po, uthangarai tk - krishnagiri district 635207 Krishnagiri
9	Mr. MANIGANDAN R	Member	Representatives of Students	STUDENT	-	9677667115	manireddy997@gmail.com	13/89 ARNI TO ARCOT MAIN ROAD, DAMARAIPAKKAM - ARCOT TK, 632504 Vellore
10	Ms. SUSHMITHA P	Member	Representatives of Students	STUDENT	-	9585264424	sushmitha sindhe58@gmail.com	13/3, JAKAPPAN NAGAR, 4TH CROSS, KRISHNAGIRI - KRISHNAGIRI, 635101 Krishnagiri
11	Mr. VIGNESH V	Member	Representatives of Students	STUDENT	-	8940564106	vickyvignesh24298@gmail.com	S/O P.VELMURUGAN, 2/135 NESAVALAR COLONY, VEPPAMPOONDI PO - GANGAVALLI, 636101 Salem
12	Ms. DHARANYA V	Member	Representatives of Students	STUDENT	-	9444773479	vijayagopalalharanya@gmail.com	D/O N.VIJAYAGOPAL, 10/2, JUG AGRAHARAM STREET, ARCOT - ARCOT, 632503 Vellore
13	Dr. NAFEESA BEGUM J	Others	MEMBER	ASSISTANT PROFESSOR SR.GRADE	-	9486254133	NAFEESA_JEDDY@YAHOO.COM	27, MULLAH ST, KHADERPET - VANIYAMBADI 635751 Vellore
14	Dr. THIRUMAL P	Others	MEMBER	ASSISTANT PROFESSOR SR.GRADE	-	9443455580	PTML76@GMAIL.COM	NO.1, STAFF QUARTERS, GOVERNMENT COLLEGE OF ENGINEERING - BARGUR 635104 Krishnagiri
15	Mr. MOHAN K	Others	CONVENER NODAL OFFICER	ASSISTANT PROFESSOR	-	9443308497	K.MOHAN@GCEBARGURA.C.IN	NO.51/2A, SRI SIVASAKTHI ILLAM, HOSPITAL ROAD - BARGUR 635104 Krishnagiri

6(ii). Anti-Ragging Squad

Name	Position	Category	Present Designation / Occupation	Telephone Numbers	Mobile Numbers	E-mail ID	Address
Dr. THIRUMAL P	Chairman	Principal	ASSISTANT PROFESSOR SENIOR GRADE	04343-266067	9443455580	ptml76@gmail.com	no 1, staff quarters, gce bargur-bargur 635104 Krishnagiri
Dr. SARASWATHY G	Member	HOD1	DEPUTY WARDEN GIRLS HOSTEL	04343-266067	9443038410	saraswathirumal@yahoo.co.in	no 1, staff quarters, gce bargur-bargur 635104 Krishnagiri
Dr. THANGARAJU I	Member	Faculty members (Preferably 2 Male and 2 Female)	deputy warden boys hostel	04343-266067	9894752362	thangarajui@yahoo.co.in	no 6, staff quarters, gce bargur-bargur 635104 Krishnagiri
Mr. BAKKIYARAJ R	Member	Faculty members (Preferably 2 Male and 2 Female)	DEPUTY WARDEN BOYS HOSTEL	04343-266067	9943428463	r.bakkiyaraj@gmail.com	NO 4, STAFF QUARTERS, GCE BARGUR-BARGUR 635104 Krishnagiri
Mrs. SELVI S	Member	Faculty members (Preferably 2 Male and 2 Female)	RESIDENTIAL TUTOR GIRLS HOSTEL	04343-266067	9940092831	s.selvi@gcebargur.ac.in	PLOT NO MIG 5899, TNHB, AYAPAKKAM-CHENNAI 600077 Chennai
Mr. ARULKUMAR M	Member	Faculty members (Preferably 2 Male and 2 Female)	ASSISTANT PROFESSOR	-	8940814134	m.arulkumar@gcebargur.ac.in	NO. 3, STAFF QUARTERS, GOVERNMENT COLLEGE OF ENGINEERING-BARGUR 635104 Krishnagiri

7(i). Discipline and Welfare Committee

Sl.No.	Name	Position	Category	Telephone Numbers	Mobile Numbers	E-mail ID	Address
1	Dr..NAFEESA BEGUM.J	Member	Head of the Department	-	9486254133	nafeesa.research@gmail.com	27, MULLAH ST, KHADERPET-VANIYAMBADI 635751
2	Mrs..USHA.M.B	Member	Head of the Department	-	9442292879	M.B.USHA@GCEBARGUR.AC.IN	15-1, SECOND EAST MAIN ROAD, GANDHI NAGAR- KATPADI, VELLORE 632006
3	Dr..CHANDRASEKARAN.M	Chairman	Principal	04343-266067	9597817412	PRINCIPAL503@GMAIL.COM	166, KANNAGI NAGAR II ST, ANGAMMAL COLONY- SALEM 636009
4	Dr..SHANTHI.TK	Member	Lady faculty member	-	9942490860	tkshanthi@gmail.com	LADIES HOSTEL, GCE BARGUR-BARGUR, 635104
5	Dr..SARASWATHY.G	Member	Warden / Deputy Warden of Girls Hostel	-	9443038410	saraswathirumal@yahoo.co.in	NO.1, STAFF QUARTERS, GOVERNMENT COLLEGE OF ENGINEERING-bargur 635104
6	Dr..THANGARAJU.I	Member	Warden / Deputy Warden of Boys Hostel	-	9894752362	THANGARAJUI@YAHOO.CO.IN	NO.6, STAFF QUARTERS, GOVERNMENT COLLEGE OF ENGINEERING-BARGUR 635104

7(ii). Complaints cum Redressal Committee

Sl.No.	Name	Category	Present Designation / Occupation	Telephone Numbers	Mobile Numbers	E-mail ID	Address
1	Dr. CHANDRASEKARAN M	PRINCIPAL	Principal	-	9597817412	PRINCIPAL503@GMAIL.COM	166, KANNAGI NAGAR II ST, ANGAMMAL COLONY- SALEM 636009 Salem
2	Mrs. SELVI S	FACULTY MEMBER	Assistant Professor	-	9940092831	S.SELVI@GCEBARGUR.AC.IN	PLOT NO. MIG 5899, TNHB- AYAPAKKAM, CHENNAI 600077 Chennai
3	Mr. SELVARAJ S	MEMBER OF NGO	Others-MJF LIONS CLUB	-	9486101625	SMSAMMAN@GMAIL.COM	NO.73, SANTHAIPETTAL, KRISHNAGIRI MAIN ROAD- BARGUR 635104 Krishnagiri
4	Mr. BAKKIYARAJ R	SENIOR FACULTY	Assistant Professor	-	9943428463	R.BAKKIYARAJ@GMAIL.COM	NO.4 STAFF QUARTERS, GOVERNMENT COLLEGE OF ENGINEERING-BARGUR 635104 Krishnagiri
5	Dr. NAFEESA BEGUM J	HEAD	Assistant Professor	-	9486254133	nafeesa.research@gmail.com	27, MULLAH ST, KHADERPET-VANIYAMBADI 635751 Vellore
6	Dr. SARASWATHY G	SENIOR FACULTY	Assistant Professor	-	9443038410	SARASWATHIRUMAL@GMAIL.COM	NO.1, STAFF QUARTERS, GOVERNMENT COLLEGE OF ENGINEERING-BARGUR 635104 Krishnagiri

8(i). Savings Bank / Current Accounts

Bank Account Type	Bank Name	Branch	Account Number	IFSC Code	Balance amount at the end of last financial year(Rs)	Balance amount as on date(Rs.)
Saving Account	INDIAN BANK	BARGUR	850022367	IDIB000B010	67134	67134
Saving Account	INDIAN BANK	BARGUR	568618590	IDIB000B10	1979902	1979902
Saving Account	INDIAN BANK	BARGUR	568580347	IDIB000B010	20331	20331
Saving Account	INDIAN BANK	BARGUR	6334880038	IDIB000B010	238332	238332
Saving Account	INDIAN BANK	BARGUR	568555730	IDIB000B010	262783	262783
Saving Account	INDIAN BANK	BARGUR	568557556	IDIB000B010	2869240	2869240
Saving Account	INDIAN BANK	BARGUR	568557498	IDIB000B010	2838202	2838202
Saving Account	INDIAN BANK	BARGUR	568557512	IDIB000B010	10610	10610
Saving Account	INDIAN BANK	BARGUR	568577662	IDIB000B010	1183	1183
Saving Account	INDIAN BANK	BARGUR	746597520	IDIB000B010	5760	5760
Saving Account	INDIAN BANK	BARGUR	568557523	IDIB000B010	160612	160612
Saving Account	INDIAN BANK	BARGUR	568557501	IDIB000B010	3710383	3710383
Saving Account	INDIAN BANK	BARGUR	568557545	IDIB000B010	229761	229761
Saving Account	INDIAN BANK	BARGUR	568557534	IDIB000B010	1737331	1737331

8(ii). Long term deposits

Deposits Type	Bank/Govt./Govt.approved Institution Name	Branch	Reference No. of the Fixed Deposit	Amount(Rs)	Date of maturity
Bank	INDIAN BANK	BARGUR	6334880038	27442000	03-06-2019

8(iii).Endowment

Created with	Deposited in the Bank Name	Branch	Amount(Rs)	Instrument No&Date	Date of expiry
	INDIAN BANK	BARGUR	27442000	-	
Financial Stability Total financial reserves : Annual maintenance and development expenditure :					

9. Details of Land Availability

Location of the College	Rural
Location	MADHEPPALLI
District	Krishnagiri
Taluk	Krishnagiri
Village	MADHEPPALLI
Place	BARGUR
Pincode	635104
Extent of land required(in acres)(refer norms)	7.5
Total Extent of land earmarked for the college(in acres)	49.81
Deficiency %	0
Total Built-up Area required (sq.m.)	0
Total Extent Built-up Area available (sq.m.)	16674.1

Document no	Date	Survey no	Land earmarked
645	27-11-1996	323/1	1.63
1026	27-11-1996	323/2	2.47
1008	27-11-1996	311/1B	5.97
834	27-11-1996	175/1	2.24
1008	29-11-1996	173/1	1.79
1008	29-11-1996	174/1	0.7
1423	04-12-1996	187/2B3D	0.05
949	27-11-1996	173/2	2.25
835	27-11-1996	177/1	3
759	27-11-1996	177/2	0.5
760	27-11-1996	178	1.5
1440	27-11-1996	187/2B3A	0.05
1441	27-11-1996	187/2B3B	0.05
1432	27-11-1996	187/2B3C	0.05
1444	27-12-1996	187/2B3E	0.02
246	27-11-1996	187/2B3F	1
949	27-11-1996	174/2	1.5
604	27-11-1996	326/2	2
834	27-11-1996	187/2B2	0.46
1006	27-11-1996	187/2b1	0.15
246	27-11-1996	175/1	2
949	27-11-1996	176/1	0.1
834	27-11-1996	176/2	4
759	27-11-1996	319	2
841	27-11-1996	320/1	2
278	27-11-1996	320/2	2.5
1165	27-11-1996	321	3.5
955	27-11-1996	322/1	1.5
347	27-11-1996	322/2	1.4
645	27-11-1996	323/1	1.5
1026	27-11-1996	323/2	2.5
955	27-11-1996	323/3	1
1165	27-11-1996	324/2	4.5
1165	27-11-1996	325/2	2
453	27-11-1996	326/2	2
834	27-11-1996	175/1A2B	1.95
1008	29-11-1996	173/1B2	1.33
1008	29-11-1996	174/1	1.38
1423	04-12-1996	187/2b3d	0.05
949	27-11-1996	173/2B2B	1.55
835	27-11-1996	177/1	3
759	27-11-1996	177/2	0.5
760	27-11-1996	178	1.5
1440	27-11-1996	187/2b3a	0.05
1441	27-11-1996	187/2b3b	0.05
1432	27-11-1996	187/2b3c	0.05
1444	27-12-1996	187/2b3e	0.02
246	27-11-1996	187/2b3f	1
949	27-11-1996	174/2	1.63
604	27-11-1996	326/2	2
1006	27-11-1996	187/2b3F2	0.71
246	27-11-1996	175/2	2.07
949	27-11-1996	176/1	0.148
759	27-11-1996	319	1.95
834	27-11-1996	176/2	4
955	27-11-1996	323/3	0.98
1165	27-11-1996	324/2C	3.43
347	27-11-1996	322/2	1.4
1165	27-11-1996	325/2	2
453	27-11-1996	326/2	2
834	27-11-1996	187/2b2B	0.04
841	27-11-1996	320/1	2.12
278	27-11-1996	320/2	2.49
1165	27-11-1996	321/3	2.69

Document number, Date & Survey no & Land earmarked

10(i). Existing Affiliated Courses

Department	Degree	Course	Year of introduction	Nature of affiliation	Year of Permanent	Accreditation status	Period of accreditation	Letter No. and date	Sanctioned 2014 - 2015	Sanctioned 2015 - 2016	Sanctioned 2016 - 2017	Sanctioned 2017 - 2018	Sanctioned 2018 - 2019	Fifth Year	Fourth Year	Third Year	Second Year	First year
COMPUTER SCIENCE AND ENGINEERING - -	B.E.	Computer Science and Engineering	2004	Permanent	2014	Not Accredited	-	--	0	60	60	60	60	0	64	62	56	53
ELECTRICAL AND ELECTRONICS ENGINEERING - -	B.E.	Electrical and Electronics Engineering	1994	Permanent	2014	Not Accredited	-	--	0	60	60	60	60	0	47	57	56	55
COMPUTER SCIENCE AND ENGINEERING - -	B.E.	Electronics and Communication Engineering	1994	Permanent	2014	Accredited	2018-07-01 - 2021-06-30	33-285/2013-NBA - 2018-10-20	0	60	60	60	60	0	68	45	54	50
MECHANICAL ENGINEERING - -	B.E.	Mechanical Engineering	2009	Provisional	-	Not Accredited	-	--	0	60	60	60	60	0	55	49	54	54
ELECTRONICS AND COMMUNICATION ENGINEERING - -	M.E.	Applied Electronics	2017	Provisional	-	Not Accredited	-	--	0	0	0	18	18	0	0	0	0	5
COMPUTER SCIENCE AND ENGINEERING - -	M.E.	Computer Science and Engineering	2017	Provisional	-	Not Accredited	-	--	0	0	0	18	18	0	0	0	2	4
ELECTRICAL AND ELECTRONICS ENGINEERING - -	M.E.	Power Electronics and Drives	2017	Provisional	-	Not Accredited	-	--	0	0	0	18	18	0	0	0	9	3

10(ii). Existing approved courses

Sl.No.	Degree	Name of the Course	Sanctioned intake in the academic year 2018 - 2019	Intake sought for the academic year 2019-2020	Remarks
1.	B.E.	Computer Science and Engineering	60	60	B.E. Computer Science and Engineering Continuous for approval
2.	B.E.	Electrical and Electronics Engineering	60	60	B.E. Electrical and Electronics Engineering Continuous for approval
3.	B.E.	Electronics and Communication Engineering	60	60	B.E. Electronics and Communication Engineering Continuous for approval
4.	B.E.	Mechanical Engineering	60	60	B.E. Mechanical Engineering Continuous for approval
5.	M.E.	Applied Electronics	18	18	M.E. Applied Electronics Continuous for approval
6.	M.E.	Computer Science and Engineering	18	18	M.E. Computer Science and Engineering Continuous for approval
7.	M.E.	Power Electronics and Drives	18	18	M.E. Power Electronics and Drives Continuous for approval

11. Additional Course(s) for which approval is sought for the academic year '2019-2020'

Sl.No.	Degree	Name of the Course	Intake Sought 2019-2020
1.	B.E.	Computer Science and Engineering	60
2.	B.E.	Electrical and Electronics Engineering	60
3.	B.E.	Electronics and Communication Engineering	60
4.	B.E.	Mechanical Engineering	60
5.	M.E.	Applied Electronics	18
6.	M.E.	Computer Science and Engineering	18
7.	M.E.	Power Electronics and Drives	18

12(i). Details of students presently studying in all the years

Sl.No	Courses	Total Students			Number of Students - Religion wise										Number of Students - community wise										No.of students- Nationality													
															Hindus					Muslims		Christians											Total					
		Hindus		Muslims		Christians		Others		Total		SC	ST	MBC	BC	OC	OBC	OBC	Total	Indian		NRI		Foreign		Total												
		B	G	T	B	G	B	G	B	G	B	G	B	G	B	G	B	G	B	G	B	G	B	G	B	G	B	G	B	G								
1	B.E.-Electrical and Electronics Engineering	122	94	216	116	88	4	3	2	3	0	0	122	94	16	26	2	0	43	22	51	39	4	1	4	3	2	3	122	94	122	94	0	0	0	0	122	94
2	B.E.-Mechanical Engineering	207	5	212	197	5	9	0	1	0	0	0	207	5	32	1	2	0	83	2	79	2	1	0	9	0	1	0	207	5	207	5	0	0	0	0	207	5
3	B.E.-Electronics and Communication Engineering	87	130	217	83	122	3	5	1	3	0	0	87	130	13	21	1	0	31	32	38	68	0	1	3	5	1	3	87	130	87	130	0	0	0	0	87	130
4	B.E.-Computer Science and Engineering	107	128	235	102	122	4	5	1	1	0	0	107	128	18	18	2	2	36	34	44	65	2	3	4	5	1	1	107	128	107	128	0	0	0	0	107	128
5	M.E.-Computer Science and Engineering	2	4	6	2	3	0	0	0	1	0	0	2	4	0	1	0	0	1	1	2	0	0	0	0	0	0	0	2	4	2	4	0	0	0	0	2	4
6	M.E.-Power Electronics and Drives	2	10	12	2	10	0	0	0	0	0	0	2	10	1	4	0	0	0	2	1	4	0	0	0	0	0	0	2	10	2	10	0	0	0	0	2	10
7	M.E.-Applied Electronics	0	5	5	0	5	0	0	0	0	0	0	0	5	0	0	0	0	0	3	0	2	0	0	0	0	0	0	0	5	0	5	0	0	0	0	0	5

12(ii). Students admitted under minority quota

Sl.No.	Course	Boys	Girls	Total
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14(i). Consolidated details of faculty available for Science, Humanities & General Engineering

Designation	Maths	Physics	Chemistry	English	Gen. Engg.	Total
Professor	0	0	0	0	0	0
Associate Professor	0	1	1	0	0	2
Assistant Professor	4	3	3	2	0	12
Grand Total (A)						14
Total intake applied for the academic year 2019-2020 of all the B.E. & B.Tech. Courses (S1)						240
Total no. of faculty members required (R) = (S1/15)						12
% Deficiency [(1-A/R)*100]						0

14(ii). Consolidated details of faculty for all the courses except M.E. / M.Tech.

S.No	Degree	Course(s)	Total Sanctioned Strngth*(s)	professor				Asso.prof				Asst.prof				Total no.of faculty members available (T=A1+A2+A3)	SSR 1:S/T
				R	A1	D%	AD	R	A2	D%	AD	R	A3	D%	AD		
1	B.E.	Mechanical Engineering	180	1	1	0	0	2	1	50	1	6	9	0	0	11	16
2	B.E.	Computer Science and Engineering	180	1	0	100	1	2	1	50	1	6	6	0	0	7	26
3	B.E.	Electrical and Electronics Engineering	180	1	1	0	0	2	0	100	2	6	8	0	0	9	20
4	B.E.	Electronics and Communication Engineering	180	1	1	0	0	2	0	100	2	6	10	0	0	11	16

14(iii). Consolidated details of faculty for M.E. / M.Tech. only

Sl.No	Name of the Course(s)	Qualification(s)	Required	Available	Deficiency%	Actual Deficient
1	M.E.-Computer Science and Engineering	Ph.D	1	0	100	1
		M.E./M.Tech.	2	3	0	0
		Total	3	3	0	33.33
2	M.E.-Power Electronics and Drives	Ph.D	1	0	100	1
		M.E./M.Tech.	2	3	0	0
		Total	3	3	0	33.33
3	M.E.-Applied Electronics	Ph.D	1	1	0	0
		M.E./M.Tech.	2	2	0	0
		Total	3	3	0	0

15. Non-teaching staff

SL.No	Category	Department	Name of the staff	Designation	Qualification	Date of joining the present post	Previous experience	Date of Birth	Age	Scale of pay	Basic Pay	Total emoluments
1	Ministerial Staff . .	OTHERS-ADMINISTRATION	Mr. CHAKRAVARTHY MV	Others-P A TO PRINCIPAL	Others-SSLC	06-08-1990	28.00	05-06-1962	57	59500	59500	68055
2	Ministerial Staff . .	OTHERS-ADMINISTRATION	Mr. NEHRU G	Others-junior assistant	Others-HSC	21-04-2008	9.00	10-04-1987	30	5200-20200-gp-2400	29500	32775
3	Ministerial Staff . .	OTHERS-ADMINISTRATION	Mr. PONNURAJ K	Others-SUPERINTENDENT	Bachelor	17-10-1994	20.00	28-07-1965	51	13990-51000-gp-4800	51000	43133
4	Ministerial Staff . .	OTHERS-ADMINISTRATION	Mr. TEEKARAM N	Others-BURSAR	Diploma	05-11-1997	0.00	29-11-1972	45	15600-39100	15600	46653
5	Ministerial Staff . .	OTHERS-ADMINISTRATION	Mr. SENTHIL C	Others-ASSISTANT	Bachelor	04-08-2017	0.00	10-05-1985	32	5200-2800-20200	5200	22730
6	Ministerial Staff . .	OTHERS-ADMINISTRATION	Mr. VIGNESH B	Others-JUNIOR ASSISTANT	Bachelor	03-11-2017	0.00	31-05-1991	26	2690	19500	21575
7	Ministerial Staff . .	OTHERS-ADMINISTRATION	Mr. DURAIRAJU S	Others-OFFICE ASSISTANT	Others-SSLC	05-12-2007	10.00	20-06-1973	44	4800-10000-GP-1300	6230	18457
8	Ministerial Staff . .	OTHERS-ADMINISTRATION	Mr. SARAVANAN D	Others-JUNIOR ASSISTANT	Masters	13-05-2003	15.00	01-06-1975	42	5200-20200-GP-2400	9820	30066
9	Ministerial Staff . .	OTHERS-ADMINISTRATION	Mr. NATARAJAN M	Others-JUNIOR ASSISTANT	Bachelor	01-10-2003	14.00	10-03-1969	48	5200-20200-GP-2400	7050	23226
10	Ministerial Staff . .	OTHERS-ADMINISTRATION	Mr. VENKATESAN K	Others-JUNIOR ASSISTANT	Masters	01-10-2003	14.00	28-07-1972	45	5200-20200-GP-2400	8260	26217
11	Ministerial Staff . .	OTHERS-administration	Mr. mani g	Others-office assistant	Others-iti	16-05-2017	0.00	25-03-1984	34	6230-gr1300	6230	10467
12	Others - SECURITY	OTHERS-SECURITY	Mr. PERUMAL M	Others-SECURITY	Others-EIGHTH STD	01-09-2016	24.00	20-05-1972	46	13000	13000	13000
13	Others - watch man	OTHERS-watch man	Mr. baskar t	Others-watch man	Others-eighth	01-01-2010	7.00	06-06-1973	45	6230-gr1300	6230	10467
14	Others - watch man	OTHERS-watchman	Mr. balamurugan p	Others-watch man	Others-ninth std	16-05-2017	0.00	18-06-1982	36	6230-gr-1300	6230	10467
15	Others - watch man	OTHERS-watch man	Mr. karthikeyan v	Others-watch man	Others-ninth	16-05-2017	0.00	13-03-1977	41	6230-gr-1300	6230	10467
16	Technical Staff . .	ELECTRONICS AND COMMUNICATION ENGINEERING--	Mr. PAUL EDWIN ANDREWS J	Lab Assistant	Diploma	25-11-2010	24.00	13-04-1971	45	5200-20200-gp-2400	6430	19878
17	Technical Staff . .	MECHANICAL ENGINEERING--	Mr. danasekaran s	Others-artisan	Diploma	04-10-2005	14.00	09-02-1977	39	5200-20200-gp-2400	10360	28804
18	Technical Staff . .	CHEMISTRY--	Mr. CHITRAVEL P	Lab Assistant	Others-eighth pass	12-08-1985	32.00	22-12-1966	52	5200-20200-gp-2400	35200	38960
19	Technical Staff . .	COMPUTER SCIENCE AND ENGINEERING--	Mr. JOHN JOSEPH ANTONY J	Lab Assistant	Others-iti	25-02-2012	14.00	05-05-1971	45	5200-20200pb1-gp-2400	23300	25765
20	Technical Staff . .	ELECTRICAL AND ELECTRONICS ENGINEERING--	Mr. SOUNDARARAJAN M	Lab Assistant	Diploma	03-07-2010	25.00	05-05-1973	43	19500-62000	24700	27435

16(i). Space Requirement

SL.No	Degree & Course	Laboratory/Workshop/Studio	Name of the Laboratory	Area of the Laboratory required(sq.m.)	Area of the Laboratory available(sq.m.)	Deficiency %
1	B.E.-Mechanical Engineering	Engg. & Tech. Laboratory	ME6711 SIMULATION AND ANALYSIS LABORATORY	66	76	0
2	B.E.-Mechanical Engineering	Engg. & Tech. Laboratory	18MPC308 MACHINE DRAWING	66	180	0
3	B.E.-Mechanical Engineering	Engg. & Tech. Laboratory	18MPC307 FLUID MECHANICS AND FLUID MACHINERY LABORATORY	66	180	0
4	B.E.-Mechanical Engineering	Engg. & Tech. Laboratory	18MPC408 THERMAL ENGINEERING LABORATORY	66	180	0
5	B.E.-Mechanical Engineering	Engg. & Tech. Laboratory	18MPC407 STRENGTH OF MATERIALS LABORATORY	66	180	0
6	B.E.-Mechanical Engineering	Engg. & Tech. Laboratory	17MPC508 DYNAMICS LABORATORY	66	76	0
7	B.E.-Mechanical Engineering	Engg. & Tech. Laboratory	17MPC507 HEAT AND MASS TRANSFER LABORATORY	66	180	0
8	B.E.-Mechanical Engineering	Engg. & Tech. Laboratory	17MPC608 CAD CAM LABORATORY	66	76	0
9	B.E.-Mechanical Engineering	Engg. & Tech. Laboratory	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	66	76	0
10	B.E.-Mechanical Engineering	Engg. & Tech. Laboratory	ME6712 MECHATRONICS LABORATORY	66	76	0
11	B.E.-Computer Science and Engineering	Engg. & Tech. Laboratory	18SES307 DIGITAL PRINCIPLES AND SYSTEM DESIGN LABORATORY	66	86.4	0
12	B.E.-Computer Science and Engineering	Engg. & Tech. Laboratory	18SPC308 OBJECT ORIENTED PROGRAMMING USING C AND JAVA	66	178	0
13	B.E.-Computer Science and Engineering	Engg. & Tech. Laboratory	18SPC407 OPERATING SYSTEMS LABORATORY	66	178	0
14	B.E.-Computer Science and Engineering	Engg. & Tech. Laboratory	18SPC408 DATABASE MANAGEMENT SYSTEMS LABORATORY	66	86.4	0

15	B.E.-Computer Science and Engineering	Engg. & Tech. Laboratory	18SPC309 DATA STRUCTURES LABORATORY	66	86.4	0
16	B.E.-Computer Science and Engineering	Engg. & Tech. Laboratory	18ZES207 PROGRAMMING IN C LABORATORY	66	178	0
17	B.E.-Computer Science and Engineering	Engg. & Tech. Laboratory	17SPC507 COMPUTER NETWORKS LABORATORY	66	178	0
18	B.E.-Computer Science and Engineering	Engg. & Tech. Laboratory	17SPC508 EMBEDDED COMPUTING SYSTEMS LABORATORY	66	86.4	0
19	B.E.-Computer Science and Engineering	Engg. & Tech. Laboratory	17SPC607 MOBILE APPLICATION DEVELOPMENT LABORATORY	66	178	0
20	B.E.-Computer Science and Engineering	Engg. & Tech. Laboratory	17SPC608 COMPILER LABORATORY	66	178	0
21	B.E.-Computer Science and Engineering	Engg. & Tech. Laboratory	CS6711 SECURITY LABORATORY	66	86.4	0
22	B.E.-Computer Science and Engineering	Engg. & Tech. Laboratory	CS6712 GRID AND CLOUD COMPUTING LABORATORY	66	86.4	0
23	B.E.-Electronics and Communication Engineering	Engg. & Tech. Laboratory	EC6712 OPTICAL AND MICROWAVE LAB	66	88	0
24	B.E.-Electronics and Communication Engineering	Engg. & Tech. Laboratory	EC6711	66	143	0
25	B.E.-Electronics and Communication Engineering	Engg. & Tech. Laboratory	18zesc307 data structures and object oriented programming language laboratory	66	131	0
26	B.E.-Electronics and Communication Engineering	Engg. & Tech. Laboratory	18lpc308 circuits and devices laboratory	66	116	0
27	B.E.-Electronics and Communication Engineering	Engg. & Tech. Laboratory	18lpc309 electrical engineering laboratory	66	66	0
28	B.E.-Electronics and Communication Engineering	Engg. & Tech. Laboratory	18lpc407 electronic circuits laboratory	66	193.5	0
29	B.E.-Electronics and Communication Engineering	Engg. & Tech. Laboratory	18lpc408 analog and digital circuits laboratory	66	116	0
30	B.E.-Electronics and Communication Engineering	Engg. & Tech. Laboratory	17lpc507 analog communication laboratory	66	143	0

31	B.E.-Electronics and Communication Engineering	Engg. & Tech. Laboratory	17lpc508 dsp and vlsi laboratory	66	193.5	0
32	B.E.-Electronics and Communication Engineering	Engg. & Tech. Laboratory	17lpc607 embedded system laboratory	66	143	0
33	B.E.-Electronics and Communication Engineering	Engg. & Tech. Laboratory	17lpc608 digital communication laboratory	66	143	0
34	B.E.- General Engineering	Engg. & Tech. Laboratory	17ZEE509 COMMUNICATION AND SOFT SKILLS LABORATORY	66	259.6	0
35	B.E.- General Engineering	Engg. & Tech. Laboratory	18EMS206 CHEMISTRY LABORATORY	66	180	0
36	B.E.- General Engineering	Engg. & Tech. Laboratory	18ZES107 BASIC ELECTRICAL ENGINEERING LABORATORY	66	192.9	0
37	B.E.- General Engineering	Engg. & Tech. Laboratory	18EMS106 PHYSICS LABORATORY	66	180	0
38	B.E.- General Engineering	Engg. & Tech. Laboratory	18SLS206 PHYSICS LABORATORY	66	180	0
39	B.E.- General Engineering	Engg. & Tech. Laboratory	18ZES208 WORKSHOP PRACTICE	66	180	0
40	B.E.- General Engineering	Engg. & Tech. Laboratory	18SLS106 CHEMISTRY LABORATORY	66	180	0
41	B.E.- General Engineering	Engg. & Tech. Laboratory	18ZBS206 CHEMISTRY LABORATORY	66	180	0
42	B.E.- General Engineering	Engg. & Tech. Laboratory	18ZBS106 PHYSICS LABORATORY	66	180	0
43	B.E.- General Engineering	Engg. & Tech. Laboratory	18ZHS107 COMMUNICATION ENGLISH LABORATORY	66	178	0
44	B.E.- General Engineering	Engg. & Tech. Laboratory	17MEE609 PROFESSIONAL SKILLS DEVELOPMENT LABORATORY	66	259.6	0
45	B.E.- General Engineering	Engg. & Tech. Laboratory	18ZHS209 COMMUNICATION ENGLISH LABORATORY	66	259.6	0
46	B.E.- General Engineering	Engg. & Tech. Laboratory	18MES207 PROGRAMMING IN PYTHON LABORATORY	66	178	0
47	M.E.-Applied Electronics	Engg. & Tech. Laboratory	18AEPC11 ELECTRONIC SYSTEM DESIGN LABORATORY	66	193.5	0

48	M.E.-Applied Electronics	Engg. & Tech. Laboratory	18AEPC06 ELECTRONIC SYSTEM DESIGN LABORATORY 1	66	143	0
49	M.E.-Computer Science and Engineering	Engg. & Tech. Laboratory	ELECTIVE LABORATORY I	66	86.4	0
50	M.E.-Computer Science and Engineering	Engg. & Tech. Laboratory	ELECTIVE LABORATORY II	66	86.4	0
51	M.E.-Computer Science and Engineering	Engg. & Tech. Laboratory	18CSPC09 CLOUD AND VIRTUALIZATION TECHNIQUES LABORATORY	66	86.4	0
52	M.E.-Computer Science and Engineering	Engg. & Tech. Laboratory	18CSPC05 ADVANCES IN DATA STRUCTURES AND ALGORITHM ANALYSIS LABORATORY	66	86.4	0

16(ii). Equipments

SL.No	Degree	Course	Semester	Regulation	Name of the Laboratory subject	Name of the Equipments / Software	Required	Available	Deficiency %
1	B.E.	Computer Science and Engineering	2	2018	18ZES207 PROGRAMMING IN C LABORATORY	Computer	30	30	0
2	B.E.	Computer Science and Engineering	2	2018	18ZES207 PROGRAMMING IN C LABORATORY	C Compiler	30	30	0
3	B.E.	Computer Science and Engineering	7	2013	CS6711 SECURITY LABORATORY	FIXED OR FLOATING POINT DSP PROCESSOR KIT	30	30	0
4	B.E.	Computer Science and Engineering	7	2013	CS6711 SECURITY LABORATORY	JAVA OR EQUIVALENT COMPILER KF SENSOR OR EQUIVALENT NET STUMBLER OR EQUIVALENT	30	30	0
5	B.E.	Electronics and Communication Engineering	8	2013	ec6712 optical and microwave laboratory	kit for measuring numerical aperture and attenuation of fiber	2	2	0
6	B.E.	Electronics and Communication Engineering	8	2013	ec6712 optical and microwave laboratory	leds with st sc e2000 receptacles 650 nm 850 nm	2	2	0
7	B.E.	Electronics and Communication Engineering	8	2013	ec6712 optical and microwave laboratory	trainer kit for determining the mode characteristics losses in optical fiber	2	2	0
8	B.E.	Electronics and Communication Engineering	8	2013	ec6712 optical and microwave laboratory	microwave test bench at x band to determine directional coupler characteristics losses in optical fiber	2	2	0
9	B.E.	Electronics and Communication Engineering	8	2013	ec6712 optical and microwave laboratory	microwave test bench at x band to determine vswr for isolator and circulator vswr meter isolator circulator e plane tee h plane tee	2	2	0
10	B.E.	Electronics and Communication Engineering	8	2013	ec6712 optical and microwave laboratory	microwave test bench at x band variable attenuator detector and 20mhz digital and analog oscilloscope	2	2	0
11	B.E.	Electronics and Communication Engineering	8	2013	ec6712 optical and microwave laboratory	mm sm glass and plastic fiber patch chords with st sc e2000 connectors	2	2	0
12	B.E.	Electronics and Communication Engineering	8	2013	ec6712 optical and microwave laboratory	trainer kit for analyzing analog and digital link performance 2 mbps prbs data source 10 mhz signal generator 20 mhz digital storage oscilloscope	2	2	0
13	B.E.	Electronics and Communication Engineering	8	2013	ec6712 optical and microwave laboratory	trainer kit for carrying out led and pin diode characteristics digital multi meter optical power meter	2	2	0
14	B.E.	Electronics and Communication Engineering	6	2017	17lpc607 embedded system laboratory	embedded kits with arm board	10	10	0
15	B.E.	Electronics and Communication Engineering	6	2017	17lpc607 embedded system laboratory	embedded trainer kit suitable for wireless communication	10	10	0
16	B.E.	Electronics and Communication Engineering	6	2017	17lpc607 embedded system laboratory	adequate quantities of hardware software and consumables	10	10	0
17	B.E.	Electronics and Communication Engineering	6	2017	17lpc308 digital communication laboratory	cros	15	15	0

18	B.E.	Electronics and Communication Engineering	6	2017	17pc308 digital communication laboratory	pcs	10	10	0
19	B.E.	Electronics and Communication Engineering	6	2017	17pc308 digital communication laboratory	matlab scilab or equivalent software package for simulation experiments	10	10	0
20	B.E.	Electronics and Communication Engineering	6	2017	17pc308 digital communication laboratory	kits for signal sampling tdm am fm pcm dm and line coding	15	15	0
21	B.E.	Electronics and Communication Engineering	5	2017	17pc507 analog communication laboratory	PCS	10	10	0
22	B.E.	Electronics and Communication Engineering	5	2017	17LPC507 ANALOG COMMUNICATION LABORATORY	CROS	15	15	0
23	B.E.	Electronics and Communication Engineering	5	2017	17LPC507 ANALOG COMMUNICATION LABORATORY	PCS	10	10	0
24	B.E.	Electronics and Communication Engineering	5	2017	17LPC507 ANALOG COMMUNICATION LABORATORY	MATLAB SCILAB OR EQUIVALENT SOFTWARE PACKAGE FOR SIMULATION	10	10	0
25	B.E.	Electronics and Communication Engineering	5	2017	17LPC507 ANALOG COMMUNICATION LABORATORY	KITS FOR SIGNAL SAMPLING TDM AM FM PCM DM AND LINE CODING SCHEMES	15	15	0
26	B.E.	Electronics and Communication Engineering	5	2017	17LPC508 DSP and VLSI LABORATORY	CRO 20 MHZ	15	15	0
27	B.E.	Electronics and Communication Engineering	5	2017	17LPC508 DSP and VLSI LABORATORY	SIGNAL GENERATORS 1MHZ	15	15	0
28	B.E.	Electronics and Communication Engineering	5	2017	17LPC508 DSP and VLSI LABORATORY	PCS WITH Fixed Floating Point DSP Processors kits add on cards	15	15	0
29	B.E.	Electronics and Communication Engineering	5	2017	17LPC508 DSP and VLSI LABORATORY	matlab with simulink and signal processing tool box or equivalent software in desktop systems	15	15	0
30	B.E.	Electronics and Communication Engineering	5	2017	17LPC508 DSP and VLSI LABORATORY	xilinx or a FPGA	10	10	0
31	B.E.	Electronics and Communication Engineering	5	2017	17LPC508 DSP and VLSI LABORATORY	CADENCE MAGMA TANNER OR EQUIVALENT SOFTWARE PACKAGE	10	10	0
32	B.E.	Electronics and Communication Engineering	5	2017	17LPC508 DSP and VLSI LABORATORY	PCS	10	10	0
33	B.E.	Electronics and Communication Engineering	4	2018	18LPC407 ELECTRONIC CIRCUITS LABORATORY	PCS WITH SPICE SOFTWARE	15	15	0
34	B.E.	Electronics and Communication Engineering	4	2018	18LPC407 ELECTRONIC CIRCUITS LABORATORY	TRANSISTOR FET BJT	50	50	0
35	B.E.	Electronics and Communication Engineering	4	2018	18LPC407 ELECTRONIC CIRCUITS LABORATORY	SIGNAL GENERATOR FUNCTION GENERATOR	15	15	0
36	B.E.	Electronics and Communication Engineering	4	2018	18LPC407 ELECTRONIC CIRCUITS LABORATORY	SEVEN SEGMENT DISPLAY	15	15	0

37	B.E.	Electronics and Communication Engineering	4	2018	18LPC407 ELECTRONIC CIRCUITS LABORATORY	MULTIMETER	15	15	0
38	B.E.	Electronics and Communication Engineering	4	2018	18LPC407 ELECTRONIC CIRCUITS LABORATORY	IC TRAINER KIT	15	15	0
39	B.E.	Electronics and Communication Engineering	4	2018	18LPC407 ELECTRONIC CIRCUITS LABORATORY	ICS 7400 7402 7404 7486 7408 7432 7483 74150 74151 74147 7445 7476 7491 555 7494 7447 74180 7485 7473 74138 7411 7474	50	50	0
40	B.E.	Electronics and Communication Engineering	4	2018	18LPC407 ELECTRONIC CIRCUITS LABORATORY	DUAL REGULATED POWER SUPPLY 0 30V	15	15	0
41	B.E.	Electronics and Communication Engineering	4	2018	18LPC407 ELECTRONIC CIRCUITS LABORATORY	DUAL POWER SUPPLY SINGLE MODE POWER SUPPLY	15	15	0
42	B.E.	Electronics and Communication Engineering	4	2018	18LPC407 ELECTRONIC CIRCUITS LABORATORY	CRO 30MHZ	15	15	0
43	B.E.	Electronics and Communication Engineering	4	2018	18LPC407 ELECTRONIC CIRCUITS LABORATORY	COMPUTER WITH HDL SOFTWARE	15	15	0
44	B.E.	Electronics and Communication Engineering	4	2018	18LPC407 ELECTRONIC CIRCUITS LABORATORY	BREAD BOARDS	15	15	0
45	B.E.	Electronics and Communication Engineering	4	2018	18LPC408 ANALOG AND DIGITAL CIRCUITS LABORATORY	DUAL REGULATED POWER SUPPLIES 0 30V	15	15	0
46	B.E.	Electronics and Communication Engineering	4	2018	18LPC408 ANALOG AND DIGITAL CIRCUITS LABORATORY	SIGNAL GENERATORS 3 MHZ	15	15	0
47	B.E.	Electronics and Communication Engineering	4	2018	18LPC408 ANALOG AND DIGITAL CIRCUITS LABORATORY	PCS	15	15	0
48	B.E.	Electronics and Communication Engineering	4	2018	18LPC408 ANALOG AND DIGITAL CIRCUITS LABORATORY	TRANSISTOR FET BJT	50	50	0
49	B.E.	Electronics and Communication Engineering	4	2018	18LPC408 ANALOG AND DIGITAL CIRCUITS LABORATORY	TRANSISTORS RESISTORS CAPACITORS DIODES BREAD BOARDS TRANSFORMERS	50	50	0
50	B.E.	Electronics and Communication Engineering	4	2018	18LPC408 ANALOG AND DIGITAL CIRCUITS LABORATORY	DIGITAL LCR METER	2	2	0
51	B.E.	Electronics and Communication Engineering	4	2018	18LPC408 ANALOG AND DIGITAL CIRCUITS LABORATORY	CRO 30MHZ	15	15	0
52	B.E.	Electronics and Communication Engineering	4	2018	18LPC408 ANALOG AND DIGITAL CIRCUITS LABORATORY	DIGITAL MULTIMETER	15	15	0
53	B.E.	Electronics and Communication Engineering	4	2018	18LPC408 ANALOG AND DIGITAL CIRCUITS LABORATORY	BREAD BOARD	15	15	0

54	B.E.	Electronics and Communication Engineering	4	2018	18LPC408 ANALOG AND DIGITAL CIRCUITS LABORATORY	SPICE SIMULATION SOFTWARE	15	15	0
55	B.E.	Electronics and Communication Engineering	4	2018	18LPC408 ANALOG AND DIGITAL CIRCUITS LABORATORY	IC TESTER	5	5	0
56	B.E.	Electronics and Communication Engineering	4	2018	18LPC408 ANALOG AND DIGITAL CIRCUITS LABORATORY	IC 7400 7402 7404 7486 7408 7432 7483 74150 7411 7474 7485 555	50	50	0
57	B.E.	Electronics and Communication Engineering	3	2018	18ZESC307 DATA STRUCTURES AND OOPS LABORATORY	PCS	30	30	0
58	B.E.	Electronics and Communication Engineering	3	2018	18ZESC307 DATA STRUCTURES AND OOPS LABORATORY	C COMPLIER	30	30	0
59	B.E.	Electronics and Communication Engineering	3	2018	18LPC308 CIRCUITS AND DEVICES LABORATORY	CRO	15	15	0
60	B.E.	Electronics and Communication Engineering	3	2018	18LPC308 CIRCUITS AND DEVICES LABORATORY	DUAL REGULATED POWER SUPPLY	15	15	0
61	B.E.	Electronics and Communication Engineering	3	2018	18LPC308 CIRCUITS AND DEVICES LABORATORY	BC 107 BC148 2N2646 NFW10	25	25	0
62	B.E.	Electronics and Communication Engineering	3	2018	18LPC308 CIRCUITS AND DEVICES LABORATORY	BREAD BOARDS	15	15	0
63	B.E.	Electronics and Communication Engineering	3	2018	18LPC308 CIRCUITS AND DEVICES LABORATORY	FUNCTION GENERATORS 3 MHZ	15	15	0
64	B.E.	Electronics and Communication Engineering	3	2018	18LPC308 CIRCUITS AND DEVICES LABORATORY	RESISTORS CAPACITORS INDUCTORS	100	100	0
65	B.E.	Electronics and Communication Engineering	3	2018	18LPC308 CIRCUITS AND DEVICES LABORATORY	DIODES AND TRANSISTORS	100	100	0
66	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	MC VOLTMETER 0 300 600V	5	5	0
67	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	SINGLE PHASE RESISTIVE LOADING BANK 10KW	2	2	0
68	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	SINGLE PHASE TRANSFORMER	1	1	0
69	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	SPST SWITCH	2	2	0
70	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	TACHOMETER DIGITAL ANALOG	8	8	0
71	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	THREE PHASE ALTERNATOR	1	1	0
72	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	THREE PHASE AUTO TRANSFORMER 0 270V	1	1	0

73	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	THREE PHASE INDUCTION MOTOR WITH LOADING ARRAGEMENT	1	1	0
74	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	THREE PHASE RESISTIVE LOADING BANK	2	2	0
75	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	UPF WATTMETER	4	4	0
76	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	WIRES	50	50	0
77	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	SHUNT FIELD	1	1	0
78	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	PCS WITH MATLAB SOFTWARE	30	30	0
79	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	DC SHUNT MOTOR COUPLED WITH THREE PHASE ALTERNATOR DC SHUNT MOTOR	1	1	0
80	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	DC SHUNT MOTOR WITH LOADING ARRAGEMENT	2	2	0
81	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	FUSE VARIOUS RANGES	1	1	0
82	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	LPF WATTMETER	4	4	0
83	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	MC AMMETER	5	5	0
84	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	SINGLE PHASE WITH LOADING ARRAGEMENTS	1	1	0
85	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	SINGLE PHASE WITH AUTO TRANSFORMER	2	2	0
86	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	RHEOSTATS	2	2	0
87	B.E.	Electronics and Communication Engineering	3	2018	18LPC309 ELECTRICAL ENGINEERING LABORATORY	VOLTMETER AMMETER	20	20	0
88	B.E.	Electronics and Communication Engineering	2	2018	PROGRAMMING IN C LABORATORY	PCS	30	30	0
89	B.E.	Electronics and Communication Engineering	2	2018	PROGRAMMING IN C LABORATORY	TURBO C SOFTWARE	30	30	0
90	B.E.	Electronics and Communication Engineering	2	2018	PROGRAMMING IN C LABORATORY	C COMPLIER	30	30	0

91	B.E.	Electronics and Communication Engineering	2	2018	18ZBS206 PHYSICS LABORATORY	pH METER	5	5	0
92	B.E.	Electronics and Communication Engineering	2	2018	18ZBS206 PHYSICS LABORATORY	Carey Foster s bridge set up	5	5	0
93	B.E.	Electronics and Communication Engineering	2	2018	18ZBS206 PHYSICS LABORATORY	conductivity meter	5	5	0
94	B.E.	Electronics and Communication Engineering	2	2018	18ZBS206 PHYSICS LABORATORY	diode laser	5	5	0
95	B.E.	Electronics and Communication Engineering	2	2018	18ZBS206 PHYSICS LABORATORY	oswald viscometer	10	10	0
96	B.E.	Electronics and Communication Engineering	2	2018	18ZBS206 PHYSICS LABORATORY	lees disc experimental set up	5	5	0
97	B.E.	Electronics and Communication Engineering	2	2018	18ZBS206 PHYSICS LABORATORY	ultra sonic interferometer	2	2	0
98	B.E.	Electronics and Communication Engineering	2	2018	18zbs206 physics laboratory	travelling microscope meter scale knife edge weights	5	5	0
99	B.E.	Electronics and Communication Engineering	2	2018	18zbs206 physics laboratory	spectrophotometer	2	2	0
100	B.E.	Electronics and Communication Engineering	2	2018	18zbs206 physics laboratory	potentiometer	5	5	0
101	B.E.	Electronics and Communication Engineering	2	2018	18zbs206 physics laboratory	mercurylamp grating	5	5	0
102	B.E.	Electronics and Communication Engineering	2	2018	18zbs206 physics laboratory	flame photo meter	5	5	0
103	B.E.	Electronics and Communication Engineering	2	2018	18zbs206 physics laboratory	pendulum set up	5	5	0
104	B.E.	Electronics and Communication Engineering	2	2018	18zbs206 physics laboratory	prism sodium vapour lamp	5	5	0
105	B.E.	Electronics and Communication Engineering	2	2018	18zbs206 physics laboratory	band gap experimental set up	5	5	0
106	B.E.	Electronics and Communication Engineering	2	2018	18zbs206 physics laboratory	air wedge experimental set up	5	5	0
107	B.E.	Electronics and Communication Engineering	2	2018	18zbs206 physics laboratory	weighing balance	5	5	0
108	B.E.	Electronics and Communication Engineering	2	2018	18zbs206 physics laboratory	traveling microscope meter scale knife edge weights	5	5	0
109	M.E.	Applied Electronics	1	2018	18AEPC06 ELECTRONIC SYSTEM DESIGN SYSTEM LABORATORY I	EMBEDDED TRAINER KIT WITH ARM BOARD	10	10	0
110	M.E.	Applied Electronics	1	2018	18AEPC06 ELECTRONIC SYSTEM DESIGN SYSTEM LABORATORY I	ADEQUATE QUANTITIES OF HARDWARE SOFTWARE AND CONSUMABLES	10	10	0

111	M.E.	Applied Electronics	1	2018	18AEP06 ELECTRONIC SYSTEM DESIGN SYSTEM LABORATORY I	EMBEDDED KITS SUITABLE FOR WIRELESS COMMUNICATION	10	10	0
112	M.E.	Applied Electronics	1	2018	18AEP06 ELECTRONIC SYSTEM DESIGN SYSTEM LABORATORY I	XILINX OR ALTERA SOFTWARE	15	15	0
113	M.E.	Applied Electronics	1	2018	18AEP06 ELECTRONIC SYSTEM DESIGN SYSTEM LABORATORY I	PCS	15	15	0
114	M.E.	Applied Electronics	2	2018	18AEP11 ELECTRONIC SYSTEM DESIGN LABORATORY II	XILINX OR ALTERA	10	10	0
115	M.E.	Applied Electronics	2	2018	18AEP11 ELECTRONIC SYSTEM DESIGN LABORATORY II	CADENCE	10	10	0
116	M.E.	Applied Electronics	2	2018	18AEP11 ELECTRONIC SYSTEM DESIGN LABORATORY II	PCS	10	10	0
117	B.E.	Electrical and Electronics Engineering	7	2013	EE6711 POWER SYSTEM SIMULATION LABORATORY	PERSONAL COMPUTERS PENTIUM IV 80GB 512MB RAM	25	25	0
118	B.E.	Electrical and Electronics Engineering	7	2013	EE6711 POWER SYSTEM SIMULATION LABORATORY	COMPILERS C CPLUSPLUS VB VCPLUSPLUS	25	25	0
119	B.E.	Mechanical Engineering	3	2018	18MPC308 MACHINE DRAWING	licensed software for drafting and modeling	30	30	0
120	B.E.	Mechanical Engineering	3	2018	18MPC308 MACHINE DRAWING	laser printer or plotter to print plot drawings	2	2	0
121	B.E.	Mechanical Engineering	3	2018	18MPC308 MACHINE DRAWING	computers with latest operating softwares	30	30	0
122	B.E.	Mechanical Engineering	4	2018	18MPC408 THERMAL ENGINEERING LABORATORY	IC ENGINE 2 STROKE AND 4 STROKE MODEL	1	1	0
123	B.E.	Mechanical Engineering	4	2018	18MPC408 THERMAL ENGINEERING LABORATORY	APPARATUS FOR FLASH AND FIRE POINT	1	1	0
124	B.E.	Mechanical Engineering	4	2018	18MPC408 THERMAL ENGINEERING LABORATORY	4 STROKE DIESEL ENGINE WITH MECHANICAL LOADING	1	1	0
125	B.E.	Mechanical Engineering	4	2018	18MPC408 THERMAL ENGINEERING LABORATORY	4 STROKE DIESEL ENGINE WITH HYDRAULIC LOADING	1	1	0
126	B.E.	Mechanical Engineering	4	2018	18MPC408 THERMAL ENGINEERING LABORATORY	4 STROKE DIESEL ENGINE WITH ELECTRICAL LOADING	1	1	0
127	B.E.	Mechanical Engineering	4	2018	18MPC408 THERMAL ENGINEERING LABORATORY	MULTI CYLINDER PETROL ENGINE	1	1	0

128	B.E.	Mechanical Engineering	4	2018	18MPC408 THERMAL ENGINEERING LABORATORY	SINGLE CYLINDER PETROL ENGINE	1	1	0
129	B.E.	Mechanical Engineering	4	2018	18MPC408 THERMAL ENGINEERING LABORATORY	DATA ACQUISITION SYSTEM WITH ANY ONE OF THE ABOVE ENGINES	1	1	0
130	B.E.	Mechanical Engineering	4	2018	18MPC408 THERMAL ENGINEERING LABORATORY	STEAM BOILER WITH TURBINE SETUP	1	1	0
131	B.E.	Mechanical Engineering	4	2018	18MPC407 STRENGTH OF MATERIALS LABORATORY	Universal Tensile Testing Machine with double 1 shear attachment 40 TON Capacity	1	1	0
132	B.E.	Mechanical Engineering	4	2018	18MPC407 STRENGTH OF MATERIALS LABORATORY	Torsion Testing Machine 60 NM Capacity	1	1	0
133	B.E.	Mechanical Engineering	4	2018	18MPC407 STRENGTH OF MATERIALS LABORATORY	Impact Testing Machine 300 J Capacity	1	1	0
134	B.E.	Mechanical Engineering	4	2018	18MPC407 STRENGTH OF MATERIALS LABORATORY	Brinell Hardness Testing Machine	1	1	0
135	B.E.	Mechanical Engineering	4	2018	18MPC407 STRENGTH OF MATERIALS LABORATORY	Rockwell Hardness Testing Machine	1	1	0
136	B.E.	Mechanical Engineering	4	2018	18MPC407 STRENGTH OF MATERIALS LABORATORY	Spring Testing Machine for tensile and Compressive Loads 2500 N	1	1	0
137	B.E.	Mechanical Engineering	4	2018	18MPC407 STRENGTH OF MATERIALS LABORATORY	Metallurgical Microscope	3	3	0
138	B.E.	Mechanical Engineering	4	2018	18MPC407 STRENGTH OF MATERIALS LABORATORY	Muffle Furnace 800 C	1	1	0
139	B.E.	Mechanical Engineering	6	2017	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	MICROMETER	5	5	0
140	B.E.	Mechanical Engineering	6	2017	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	VERNIER CALIPER	5	5	0
141	B.E.	Mechanical Engineering	6	2017	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	VERNIER HEIGHT GAUGE	2	2	0
142	B.E.	Mechanical Engineering	6	2017	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	VERNIER DEPTH GAUGE	2	2	0
143	B.E.	Mechanical Engineering	6	2017	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	SLIP GAUGE SET	1	1	0
144	B.E.	Mechanical Engineering	6	2017	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	GEAR TOOTH VERNIER	1	1	0

145	B.E.	Mechanical Engineering	6	2017	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	SINE BAR	1	1	0
146	B.E.	Mechanical Engineering	6	2017	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	FLOTING CARRAGE MICROMETER	1	1	0
147	B.E.	Mechanical Engineering	6	2017	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	PROFILE PROJECTOR TOOL MAKERS MICROSCOPE	1	1	0
148	B.E.	Mechanical Engineering	6	2017	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	PARALLEL COUNTER FLOW HEAT EXCHANGER APPARATUS	1	1	0
149	B.E.	Mechanical Engineering	6	2017	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	MECHANICAL ELECTRICAL PNEUMATIC COMPARATOR	1	1	0
150	B.E.	Mechanical Engineering	6	2017	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	AUTOCOLLIMATOR	1	1	0
151	B.E.	Mechanical Engineering	6	2017	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	TEMPERATURE MEASURING SETUP	1	1	0
152	B.E.	Mechanical Engineering	6	2017	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	FORCE MEASURING SETUP	1	1	0
153	B.E.	Mechanical Engineering	6	2017	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	TORQUE MEASURING SETUP	1	1	0
154	B.E.	Mechanical Engineering	6	2017	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	COORDINATE MEASURING SETUP	1	1	0
155	B.E.	Mechanical Engineering	6	2017	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	SURFACE FINISH MEASURING EQUIPMENTS	1	1	0
156	B.E.	Mechanical Engineering	6	2017	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	BORE GAUGE	1	1	0
157	B.E.	Mechanical Engineering	6	2017	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	TELESCOPE GAUGE	1	1	0
158	B.E.	Mechanical Engineering	6	2017	17MPC607 METROLOGY AND MEASUREMENTS LABORATORY	ROUNDNESS MEASUREMENT INSTRUMENT	1	1	0
159	B.E.	General Engineering	1	2018	18zes107 basic electrical engineering	assorted electrical components for house wiring	15	27	0
160	B.E.	General Engineering	1	2018	18zes107 basic electrical engineering	electrical measuring instruments	10	18	0
161	B.E.	General Engineering	1	2018	18zes107 basic electrical engineering	study purpose items iron box fan and regulator emergency lamp	1	2	0
162	B.E.	General Engineering	1	2018	18zes107 basic electrical engineering	megger 250V 500v	1	2	0

163	B.E.	General Engineering	1	2018	18zes107 basic electrical engineering	power tools range finder	2	3	0
164	B.E.	General Engineering	1	2018	18zes107 basic electrical engineering	power tools digital live wire detector	2	3	0
165	B.E.	General Engineering	1	2018	18zes107 basic electrical engineering	soldering guns	10	10	0
166	B.E.	General Engineering	1	2018	18zes107 basic electrical engineering	assorted electronic components for making circuits	50	50	0
167	B.E.	General Engineering	1	2018	18zes107 basic electrical engineering	small pcb	10	10	0
168	B.E.	General Engineering	1	2018	18zes107 basic electrical engineering	multimeters	10	10	0
169	B.E.	General Engineering	1	2018	18zes107 basic electrical engineering	study purpose items telephone fm radio low voltage power supply	2	2	0
170	B.E.	Mechanical Engineering	6	2017	17MPC608 CAD/CAM LABORATORY	Licensed Operating System Adequate	30	30	0
171	B.E.	Mechanical Engineering	6	2017	17MPC608 CAD/CAM LABORATORY	Any High End Integrated Modeling and Manufacturing CAD/CAM Software	15	15	0
172	B.E.	Mechanical Engineering	6	2017	17MPC608 CAD/CAM LABORATORY	CNC Milling Machine	1	1	0
173	B.E.	Mechanical Engineering	6	2017	17MPC608 CAD/CAM LABORATORY	CNC Lathe	1	1	0
174	B.E.	Mechanical Engineering	6	2017	17MPC608 CAD/CAM LABORATORY	Laser Printer	1	1	0
175	B.E.	Mechanical Engineering	6	2017	17MPC608 CAD/CAM LABORATORY	Computer Nodes or Systems High end CPU with atleast 1 GB Main Memory Networked to the Server	30	30	0
176	B.E.	Mechanical Engineering	6	2017	17MPC608 CAD/CAM LABORATORY	Computer Server	1	1	0
177	B.E.	Mechanical Engineering	6	2017	17MPC608 CAD/CAM LABORATORY	A3 Size Plotter	1	1	0
178	B.E.	Mechanical Engineering	5	2017	17MPC507 HEAT AND MASS TRANSFER LABORATORY	GUARDED PLATE APPARATUS	1	1	0
179	B.E.	Mechanical Engineering	5	2017	17MPC507 HEAT AND MASS TRANSFER LABORATORY	LAGGED PIPE APPARATUS	1	1	0
180	B.E.	Mechanical Engineering	5	2017	17MPC507 HEAT AND MASS TRANSFER LABORATORY	NATURAL CONVECTION VERTICAL CYLINDER APPARATUS	1	1	0
181	B.E.	Mechanical Engineering	5	2017	17MPC507 HEAT AND MASS TRANSFER LABORATORY	FORCED CONVECTION INSIDE THE TUBE APPARATUS	1	1	0
182	B.E.	Mechanical Engineering	5	2017	17MPC507 HEAT AND MASS TRANSFER LABORATORY	COMPOSITE WALL APPARATUS	1	1	0
183	B.E.	Mechanical Engineering	5	2017	17MPC507 HEAT AND MASS TRANSFER LABORATORY	THERMAL CONDUCTIVITY OF INSULATING POWDER APPARATUS	1	1	0

184	B.E.	Mechanical Engineering	5	2017	17MPC507 HEAT AND MASS TRANSFER LABORATORY	PIN FIN APPARATUS	1	1	0
185	B.E.	Mechanical Engineering	5	2017	17MPC507 HEAT AND MASS TRANSFER LABORATORY	STEFAN BOLTZMANN APPARATUS	1	1	0
186	B.E.	Mechanical Engineering	5	2017	17MPC507 HEAT AND MASS TRANSFER LABORATORY	EMISSIVITY MEASUREMENT APPARATUS	1	1	0
187	B.E.	Mechanical Engineering	5	2017	17MPC507 HEAT AND MASS TRANSFER LABORATORY	PARALLEL COUNTER FLOW HEAT EXCHANGER APPARATUS	1	1	0
188	B.E.	Mechanical Engineering	5	2017	17MPC507 HEAT AND MASS TRANSFER LABORATORY	DEVICES FOR THERMAL COLLECTORS AND STORAGE	1	1	0
189	B.E.	General Engineering	2	2018	18zes 208 workshop practice	arc welding transformer with cables and holders	5	5	0
190	B.E.	General Engineering	2	2018	18zes 208 workshop practice	welding booth with exhaust facility	5	5	0
191	B.E.	General Engineering	2	2018	18zes 208 workshop practice	welding accessories like welding shield chipping hammer wire brush etc	5	5	0
192	B.E.	General Engineering	2	2018	18zes 208 workshop practice	centre lathe	2	2	0
193	B.E.	General Engineering	2	2018	18zes 208 workshop practice	hearth furnace anvil and smithy tools	2	2	0
194	B.E.	General Engineering	2	2018	18zes 208 workshop practice	moulding table foundry tools	2	2	0
195	B.E.	General Engineering	2	2018	18zes 208 workshop practice	power tool angle grinder	2	2	0
196	B.E.	General Engineering	2	2018	18zes 208 workshop practice	study purpose items centrifugal pump air conditioner	1	1	0
197	B.E.	General Engineering	2	2018	18zes 208 workshop practice	cnc lathe	1	1	0
198	B.E.	General Engineering	2	2018	18zes 208 workshop practice	additive manufacturing machine 3d printer	1	1	0
199	B.E.	General Engineering	2	2018	18zes 208 workshop practice	assorted components for plumbing consisting of metallic pipes plastic pipes flexible pipes couplings s elbows plugs and other fitting items	15	15	0
200	B.E.	General Engineering	2	2018	18zes 208 workshop practice	carpentry vice fitted to work bench	15	15	0
201	B.E.	General Engineering	2	2018	18zes 208 workshop practice	standard woodworking tools	15	15	0
202	B.E.	General Engineering	2	2018	18zes 208 workshop practice	models of industrial trusses door joints furniture joints	5	5	0
203	B.E.	General Engineering	2	2018	18zes 208 workshop practice	rotary hammer	2	2	0
204	B.E.	General Engineering	2	2018	18zes 208 workshop practice	demolition hammer	2	2	0
205	B.E.	General Engineering	2	2018	18zes 208 workshop practice	circular saw	2	2	0
206	B.E.	General Engineering	2	2018	18zes 208 workshop practice	planer	2	2	0
207	B.E.	General Engineering	2	2018	18zes 208 workshop practice	hand drilling machine	2	2	0

208	B.E.	General Engineering	2	2018	18zes 208 workshop practice	jigsaw	2	2	0
209	B.E.	Mechanical Engineering	5	2017	17MPC508 DYNAMICS LABORATORY	Cam follower setup	1	1	0
210	B.E.	Mechanical Engineering	5	2017	17MPC508 DYNAMICS LABORATORY	Motorised gyroscope	1	1	0
211	B.E.	Mechanical Engineering	5	2017	17MPC508 DYNAMICS LABORATORY	Governor Apparatus Watt Porter Proell and Hartnell Governors	1	1	0
212	B.E.	Mechanical Engineering	5	2017	17MPC508 DYNAMICS LABORATORY	Whirling of Shaft Apparatus	1	1	0
213	B.E.	Mechanical Engineering	5	2017	17MPC508 DYNAMICS LABORATORY	Dynamic Balancing Machine	1	1	0
214	B.E.	Mechanical Engineering	5	2017	17MPC508 DYNAMICS LABORATORY	Two Rotor Vibration Setup	1	1	0
215	B.E.	Mechanical Engineering	5	2017	17MPC508 DYNAMICS LABORATORY	Spring Mass Vibration System	1	1	0
216	B.E.	Mechanical Engineering	5	2017	17MPC508 DYNAMICS LABORATORY	Torsional Vibration of Single Rotor System Setup	1	1	0
217	B.E.	Mechanical Engineering	5	2017	17MPC508 DYNAMICS LABORATORY	Gear Models	1	1	0
218	B.E.	Mechanical Engineering	5	2017	17MPC508 DYNAMICS LABORATORY	Kinematic Models to Study various Mechanisms	1	1	0
219	B.E.	Mechanical Engineering	5	2017	17MPC508 DYNAMICS LABORATORY	Turn Table Apparatus	1	1	0
220	B.E.	Mechanical Engineering	5	2017	17MPC508 DYNAMICS LABORATORY	Transverse Vibration Setup of Centilever Free Free Beam Simply Supported Beam	1	1	0
221	B.E.	Mechanical Engineering	6	2017	17MPC608 CAD/CAM LABORATORY	Support for CAPP Adequate	30	30	0
222	B.E.	Mechanical Engineering	3	2018	18mpc307 fluid mechanics and fluid machinery lab	orifice meter setup	1	1	0
223	B.E.	Mechanical Engineering	3	2018	18mpc307 fluid mechanics and fluid machinery lab	venturi meter setup	1	1	0
224	B.E.	Mechanical Engineering	3	2018	18mpc307 fluid mechanics and fluid machinery lab	rotameter setup	1	1	0
225	B.E.	Mechanical Engineering	3	2018	18mpc307 fluid mechanics and fluid machinery lab	pipe flow analysis setup	1	1	0
226	B.E.	Mechanical Engineering	3	2018	18mpc307 fluid mechanics and fluid machinery lab	centrifugal pump submersible pump setup	1	1	0
227	B.E.	Mechanical Engineering	3	2018	18mpc307 fluid mechanics and fluid machinery lab	reciprocating pump setup	1	1	0
228	B.E.	Mechanical Engineering	3	2018	18mpc307 fluid mechanics and fluid machinery lab	gear pump setup	1	1	0
229	B.E.	Mechanical Engineering	3	2018	18mpc307 fluid mechanics and fluid machinery lab	pelton wheel setup	1	1	0

230	B.E.	Mechanical Engineering	3	2018	18mpc307 fluid mechanics and fluid machinery lab	francis turbine setup	1	1	0
231	B.E.	Mechanical Engineering	3	2018	18mpc307 fluid mechanics and fluid machinery lab	kaplan turbine	1	1	0
232	B.E.	Mechanical Engineering	6	2017	17MPC608 CAD/CAM LABORATORY	CAM Software For Machining Centre and Turning Centre CNC Programming and Tool Path Simulation for FANUC Sinumeric and Heidenhain Controller	15	15	0
233	B.E.	Electrical and Electronics Engineering	4	2018	18EPC408 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	DUAL 30V VARIABLE POWER SUPPLY	10	10	0
234	B.E.	Electrical and Electronics Engineering	4	2018	18EPC408 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	CRO 30MHz	9	9	0
235	B.E.	Electrical and Electronics Engineering	4	2018	18EPC408 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	DIGITAL MULTIMETER	10	10	0
236	B.E.	Electrical and Electronics Engineering	4	2018	18EPC408 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	FUNCTION GENERATOR 1MHZ	8	8	0
237	B.E.	Electrical and Electronics Engineering	4	2018	18EPC408 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	IC TESTER ANALOG	2	2	0
238	B.E.	Electrical and Electronics Engineering	4	2018	18EPC408 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	BREADBOARD	10	10	0
239	B.E.	Electrical and Electronics Engineering	4	2018	18EPC408 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	IC 741 IC NE555 566 565	25	25	0
240	B.E.	Electrical and Electronics Engineering	4	2018	18EPC408 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	DIGITAL IC TYPES	25	25	0
241	B.E.	Electrical and Electronics Engineering	4	2018	18EPC408 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	LED	25	25	0
242	B.E.	Electrical and Electronics Engineering	4	2018	18EPC408 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	LM317	25	25	0
243	B.E.	Electrical and Electronics Engineering	4	2018	18EPC408 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	LM723	25	25	0
244	B.E.	Electrical and Electronics Engineering	4	2018	18EPC408 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	ICSG3524 SG3525	25	25	0

245	B.E.	Electrical and Electronics Engineering	4	2018	18EPC408 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	TRANSISTOR 2N3391	25	25	0
246	B.E.	Electrical and Electronics Engineering	4	2018	18EPC408 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	DIODES IN4001 DY126	25	25	0
247	B.E.	Electrical and Electronics Engineering	4	2018	18EPC408 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	ZENER DIODE	25	25	0
248	B.E.	Electrical and Electronics Engineering	4	2018	18EPC408 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	POTENTIOMETER	25	25	0
249	B.E.	Electrical and Electronics Engineering	4	2018	18EPC408 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	STEPDOWN TRANSFORMER 230V 12V	1	1	0
250	B.E.	Electrical and Electronics Engineering	4	2018	18EPC408 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	CAPACITOR	25	25	0
251	B.E.	Electrical and Electronics Engineering	4	2018	18EPC408 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	RESISTOR 025W	25	25	0
252	B.E.	Electrical and Electronics Engineering	4	2018	18EPC408 LINEAR AND DIGITAL INTEGRATED CIRCUITS LABORATORY	SINGLE STRAND WIRE	100	100	0
253	B.E.	Electrical and Electronics Engineering	4	2018	18EPC407 SYNCHRONOUS AND ASYNCHRONOUS LABORATORY	sYNCHRONOUS INDUCTION MOTOR	1	1	0
254	B.E.	Electrical and Electronics Engineering	4	2018	18EPC407 SYNCHRONOUS AND ASYNCHRONOUS LABORATORY	DC SHUNT MOTOR COUPLED WITH THREE PHASE ALTERNATOR	4	4	0
255	B.E.	Electrical and Electronics Engineering	4	2018	18EPC407 SYNCHRONOUS AND ASYNCHRONOUS LABORATORY	DC SHUNT MOTOR COUPLED WITH THREE PHASE SLIP RING INDUCTION MOTOR	1	1	0
256	B.E.	Electrical and Electronics Engineering	4	2018	18EPC407 SYNCHRONOUS AND ASYNCHRONOUS LABORATORY	THREE PHASE INDUCTION MOTOR WITH LOADING ARRANGEMENT	2	2	0
257	B.E.	Electrical and Electronics Engineering	4	2018	18EPC407 SYNCHRONOUS AND ASYNCHRONOUS LABORATORY	SINGLE PHASE INDUCTION MOTOR WITH LOADING ARRANGEMENT	2	2	0
258	B.E.	Electrical and Electronics Engineering	4	2018	18EPC407 SYNCHRONOUS AND ASYNCHRONOUS LABORATORY	TACHOMETER DIGITAL ANALOG	8	8	0

259	B.E.	Electrical and Electronics Engineering	4	2018	18EPC407 SYNCHRONOUS AND ASYNCHRONOUS LABORATORY	SINGLE PHASE AUTOTRANSFORMER	2	2	0
260	B.E.	Electrical and Electronics Engineering	4	2018	18EPC407 SYNCHRONOUS AND ASYNCHRONOUS LABORATORY	THREE PHASE AUTOTRANSFORMER	2	2	0
261	B.E.	Electrical and Electronics Engineering	4	2018	18EPC407 SYNCHRONOUS AND ASYNCHRONOUS LABORATORY	SINGLE PHASE RESISTIVE LOADING BANK	2	2	0
262	B.E.	Electrical and Electronics Engineering	4	2018	18EPC407 SYNCHRONOUS AND ASYNCHRONOUS LABORATORY	THREE PHASE RESISTIVE LOADING BANK	2	2	0
263	B.E.	Electrical and Electronics Engineering	4	2018	18EPC407 SYNCHRONOUS AND ASYNCHRONOUS LABORATORY	CAPACITOR BANK	1	1	0
264	B.E.	Electrical and Electronics Engineering	5	2017	17EPC507 SYNCHRONOUS AND ASYNCHRONOUS MACHINES LABORATORY	SYNCHRONOUS INDUCTION MOTOR 3HP	1	1	0
265	B.E.	Electrical and Electronics Engineering	5	2017	17EPC507 SYNCHRONOUS AND ASYNCHRONOUS MACHINES LABORATORY	DC SHUNT MOTOR COUPLED WITH THREE PHASE ALTERNATOR	4	4	0
266	B.E.	Electrical and Electronics Engineering	5	2017	17EPC507 SYNCHRONOUS AND ASYNCHRONOUS MACHINES LABORATORY	DC SHUNT MOTOR COUPLED WITH THREE PHASE SLIP RING INDUCTION MOTOR	1	1	0
267	B.E.	Electrical and Electronics Engineering	5	2017	17EPC507 SYNCHRONOUS AND ASYNCHRONOUS MACHINES LABORATORY	THREE PHASE INDUCTION MOTOR WITH LOADING ARRANGEMENT	2	2	0
268	B.E.	Electrical and Electronics Engineering	5	2017	17EPC507 SYNCHRONOUS AND ASYNCHRONOUS MACHINES LABORATORY	SINGLE PHASE INDUCTION MOTOR WITH LOADING ARRANGEMENT	2	2	0
269	B.E.	Electrical and Electronics Engineering	5	2017	17EPC507 SYNCHRONOUS AND ASYNCHRONOUS MACHINES LABORATORY	TACHOMETER DIGITAL ANALOG	8	8	0
270	B.E.	Electrical and Electronics Engineering	5	2017	17EPC507 SYNCHRONOUS AND ASYNCHRONOUS MACHINES LABORATORY	BLDC MOTOR	1	1	0
271	B.E.	Electrical and Electronics Engineering	5	2017	17EPC507 SYNCHRONOUS AND ASYNCHRONOUS MACHINES LABORATORY	SINGLE PHASE AUTOTRANSFORMER	2	2	0

272	B.E.	Electrical and Electronics Engineering	5	2017	17EPC507 SYNCHRONOUS AND ASYNCHRONOUS MACHINES LABORATORY	THREE PHASE AUTOTRANSFORMER	3	3	0
273	B.E.	Electrical and Electronics Engineering	5	2017	17EPC507 SYNCHRONOUS AND ASYNCHRONOUS MACHINES LABORATORY	SINGLE PHASE RESISTIVE LOADING BANK	2	2	0
274	B.E.	Electrical and Electronics Engineering	5	2017	17EPC507 SYNCHRONOUS AND ASYNCHRONOUS MACHINES LABORATORY	THREE PHASE RESISTIVE LOADING BANK	2	2	0
275	B.E.	Electrical and Electronics Engineering	5	2017	17EPC507 SYNCHRONOUS AND ASYNCHRONOUS MACHINES LABORATORY	CAPACITOR BANK	1	1	0
276	B.E.	Electrical and Electronics Engineering	5	2017	17EPC507 SYNCHRONOUS AND ASYNCHRONOUS MACHINES LABORATORY	SPST SWITCH	2	2	0
277	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	PID KIT	2	2	0
278	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	DSO	2	2	0
279	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	PERSONAL COMPUTER	25	25	0
280	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	CRO 30MHZ	1	1	0
281	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	2MHZ FUNCTION GENERATOR	1	1	0
282	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	POSITION CONTROL SYSTEM KIT	1	1	0
283	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	AC SYNCHRO TRANSMITTER AND RECEIVER	1	1	0
284	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	DIGITAL MUTIMETER	10	10	0
285	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	R L C BRIDGE KIT	2	2	0
286	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	ELECTRIC HEATER	1	1	0

287	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	THERMOMETER	1	1	0
288	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	THERMISTOR RTD NICKLE TYPE	1	1	0
289	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	30PSI PRESSURE CHAMBER	1	1	0
290	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	CURRENT GENERATOR	1	1	0
291	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	AIR FOOT PUMP	1	1	0
292	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	LVDT 20MM CORE LENGTH MOVABLE TYPE	1	1	0
293	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	OPTICAL SENSOR KIT	1	1	0
294	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	STRAIN GAUGE KIT WITH HAND LEVER BEAM	1	1	0
295	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	100GRAM WEIGHT	10	10	0
296	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	FLOW MEASUREMENT KIT	1	1	0
297	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	SINGLE PHASE AUTOTRANSFORMER	1	1	0
298	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	ENERGY METER	1	1	0
299	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	VOLTMETER	1	1	0
300	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	RHEOSTAT	1	1	0
301	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	STOP WATCH	1	1	0
302	B.E.	Electrical and Electronics Engineering	5	2017	17EPC508 CONTROL AND INSTRUMENTATION LABORATORY	IC TRANSISTOR KIT	1	1	0
303	M.E.	Power Electronics and Drives	1	2018	18pepc05 advanced power electronics laboratory	switching charactersits of igbt	1	1	0
304	M.E.	Power Electronics and Drives	1	2018	18pepc05 advanced power electronics laboratory	switching characteristics of mosfet	1	1	0

305	M.E.	Power Electronics and Drives	1	2018	18pepc05 advanced power electronics laboratory	pc with matlab and scilab softwares	20	20	0
306	M.E.	Power Electronics and Drives	1	2018	18pepc05 advanced power electronics laboratory	multilevel inverter	1	1	0
307	M.E.	Power Electronics and Drives	1	2018	18pepc05 advanced power electronics laboratory	buck converter	1	1	0
308	M.E.	Power Electronics and Drives	1	2018	18pepc05 advanced power electronics laboratory	boost converter	1	1	0
309	M.E.	Power Electronics and Drives	1	2018	18pepc05 advanced power electronics laboratory	buckboost converter	1	1	0
310	M.E.	Power Electronics and Drives	1	2018	18pepc06 digital control of power electronics system laboratory	pwm generation for chopper circuit using dsp	1	1	0
311	M.E.	Power Electronics and Drives	1	2018	18pepc06 digital control of power electronics system laboratory	pwm generation for four quadrant chopper circuit using dsp	1	1	0
312	M.E.	Power Electronics and Drives	1	2018	18pepc06 digital control of power electronics system laboratory	ing circuit for half converter using digital controller	1	1	0
313	M.E.	Power Electronics and Drives	1	2018	18pepc06 digital control of power electronics system laboratory	ing circuit for full converter using digital controller	1	1	0
314	M.E.	Power Electronics and Drives	1	2018	18pepc06 digital control of power electronics system laboratory	pulse generation scheme for cycloconverter using dsp	1	1	0
315	M.E.	Power Electronics and Drives	1	2018	18pepc06 digital control of power electronics system laboratory	pwm generation for single phase inverter using pic controller	1	1	0
316	M.E.	Power Electronics and Drives	1	2018	18pepc06 digital control of power electronics system laboratory	pwm generation for three phase inverter using pic controller	1	1	0
317	M.E.	Power Electronics and Drives	1	2018	18pepc06 digital control of power electronics system laboratory	sine pwm generation for three phase inverter using pic controller	1	1	0
318	M.E.	Power Electronics and Drives	1	2018	18pepc06 digital control of power electronics system laboratory	pwm generation using fpga for multilevel inverter	1	1	0
319	M.E.	Power Electronics and Drives	1	2018	18pepc06 digital control of power electronics system laboratory	plc based controller design for dc chopper	1	1	0
320	M.E.	Power Electronics and Drives	2	2018	18pepc12	speed control of converter fed dc motor kit	1	1	0
321	M.E.	Power Electronics and Drives	2	2018	18pepc12	speed control of chopper fed dc motor	1	1	0
322	M.E.	Power Electronics and Drives	2	2018	18pepc12	regenerative dynamic braking operation of dc motor	1	1	0
323	M.E.	Power Electronics and Drives	2	2018	18pepc12	closed loop speed control of dc motor using test input and pid controller	1	1	0

324	M.E.	Power Electronics and Drives	2	2018	18pepc12	pc plc based dc motor control	1	1	0
325	M.E.	Power Electronics and Drives	2	2018	18pepc12	four quadrant operation of dual converter based dc drive	1	1	0
326	M.E.	Power Electronics and Drives	2	2018	18pepc12	speed control of single phase induction motor using triac	1	1	0
327	M.E.	Power Electronics and Drives	2	2018	18pepc12	microcontroller based speed control of stepper motor	1	1	0
328	M.E.	Power Electronics and Drives	2	2018	18pepc12	dsp based speed control of srm motor	1	1	0
329	M.E.	Power Electronics and Drives	2	2018	18pepc12	single phase dual converter with rl load	1	1	0
330	M.E.	Power Electronics and Drives	2	2018	18pepc13 power electronic inverters and ac drives laboratory	pc with matlab simulink software	20	20	0
331	M.E.	Power Electronics and Drives	2	2018	18pepc13 power electronic inverters and ac drives laboratory	variable frequency operation of three phase ac motor using plc scada	1	1	0
332	M.E.	Power Electronics and Drives	2	2018	18pepc13 power electronic inverters and ac drives laboratory	cycloconverter based induction motor drive	1	1	0
333	M.E.	Power Electronics and Drives	2	2018	18pepc13 power electronic inverters and ac drives laboratory	single phase multilevel inverter based induction motor drive	1	1	0
334	M.E.	Power Electronics and Drives	2	2018	18pepc13 power electronic inverters and ac drives laboratory	voltage regulation of three phase synchronous generator	1	1	0
335	M.E.	Power Electronics and Drives	2	2018	18pepc13 power electronic inverters and ac drives laboratory	four quadrant operation of three phase induction motor	1	1	0
336	M.E.	Power Electronics and Drives	2	2018	18pepc13 power electronic inverters and ac drives laboratory	pc plc based ac motor control operation	1	1	0
337	M.E.	Power Electronics and Drives	2	2018	18pepc13 power electronic inverters and ac drives laboratory	regenerative dynamic braking operation of ac motor	1	1	0
338	M.E.	Power Electronics and Drives	2	2018	18pepc13 power electronic inverters and ac drives laboratory	speed control of three phase slip ring induction motor using static rotor resistance control using rectifier and chopper mosfet	1	1	0
339	M.E.	Power Electronics and Drives	2	2018	18pepc13 power electronic inverters and ac drives laboratory	pic microcontroller based speed control of linear inductin motor	1	1	0
340	M.E.	Power Electronics and Drives	2	2018	18pepc13 power electronic inverters and ac drives laboratory	power quality analyzer	1	1	0
341	M.E.	Power Electronics and Drives	2	2018	18pepc13 power electronic inverters and ac drives laboratory	3 phase ac voltage controller fed induction motor drive	1	1	0

342	M.E.	Power Electronics and Drives	2	2018	18pepc13 power electronic inverters and ac drives laboratory	permanent magnet synchronous motor drive fed by pwm inverter with software	1	1	0
343	M.E.	Power Electronics and Drives	2	2018	18pepc13 power electronic inverters and ac drives laboratory	speed control of bldc motor	1	1	0
344	B.E.	Electrical and Electronics Engineering	3	2018	18EPC307 ANALOG ELECTRONICS LABORATORY	PN JUNCTION DIODE	10	10	0
345	B.E.	Electrical and Electronics Engineering	3	2018	18EPC307 ANALOG ELECTRONICS LABORATORY	ZENER DIODE	10	10	0
346	B.E.	Electrical and Electronics Engineering	3	2018	18EPC307 ANALOG ELECTRONICS LABORATORY	NPN TRANSISTOR	10	10	0
347	B.E.	Electrical and Electronics Engineering	3	2018	18EPC307 ANALOG ELECTRONICS LABORATORY	JFET	10	10	0
348	B.E.	Electrical and Electronics Engineering	3	2018	18EPC307 ANALOG ELECTRONICS LABORATORY	UJT	10	10	0
349	B.E.	Electrical and Electronics Engineering	3	2018	18EPC307 ANALOG ELECTRONICS LABORATORY	PHOTO DIODE	10	10	0
350	B.E.	Electrical and Electronics Engineering	3	2018	18EPC307 ANALOG ELECTRONICS LABORATORY	PHOTO TRANSISTOR	10	10	0
351	B.E.	Electrical and Electronics Engineering	3	2018	18EPC307 ANALOG ELECTRONICS LABORATORY	RESISTORS	25	25	0
352	B.E.	Electrical and Electronics Engineering	3	2018	18EPC307 ANALOG ELECTRONICS LABORATORY	CAPACITORS	25	25	0
353	B.E.	Electrical and Electronics Engineering	3	2018	18EPC307 ANALOG ELECTRONICS LABORATORY	INDUCTORS	25	25	0
354	B.E.	Electrical and Electronics Engineering	3	2018	18EPC307 ANALOG ELECTRONICS LABORATORY	FUNCTION GENERATOR	10	10	0
355	B.E.	Electrical and Electronics Engineering	3	2018	18EPC307 ANALOG ELECTRONICS LABORATORY	REGULATED THREE OUTPUT POWER SUPPLY	10	10	0
356	B.E.	Electrical and Electronics Engineering	3	2018	18EPC307 ANALOG ELECTRONICS LABORATORY	CRO	10	10	0
357	B.E.	Electrical and Electronics Engineering	3	2018	18EPC307 ANALOG ELECTRONICS LABORATORY	STORAGE OSCILLOSCOPE	1	1	0
358	B.E.	Electrical and Electronics Engineering	3	2018	18EPC307 ANALOG ELECTRONICS LABORATORY	BREAD BOARD	10	10	0
359	B.E.	Electrical and Electronics Engineering	3	2018	18EPC308 DC MACHINES AND TRANSFORMERS LABORATORY	DC SHUNT MOTOR WITH LOADING ARRANGEMENT	2	2	0
360	B.E.	Electrical and Electronics Engineering	3	2018	18EPC308 DC MACHINES AND TRANSFORMERS LABORATORY	DC SHUNT MOTOR COUPLED WITH THREE PHASE ALTERNATOR	1	1	0
361	B.E.	Electrical and Electronics Engineering	3	2018	18EPC308 DC MACHINES AND TRANSFORMERS LABORATORY	SINGLE PHASE TRANSFORMER	4	4	0

362	B.E.	Electrical and Electronics Engineering	3	2018	18EPC308 DC MACHINES AND TRANSFORMERS LABORATORY	DC SERIES MOTOR WITH LOADING ARRANGEMENT	1	1	0
363	B.E.	Electrical and Electronics Engineering	3	2018	18EPC308 DC MACHINES AND TRANSFORMERS LABORATORY	DC COMPOUND MOTOR WITH LOADING ARRANGEMENT	1	1	0
364	B.E.	Electrical and Electronics Engineering	3	2018	18EPC308 DC MACHINES AND TRANSFORMERS LABORATORY	THREE PHASE INDUCTION MOTOR WITH LOADING ARRANGEMENT	2	2	0
365	B.E.	Electrical and Electronics Engineering	3	2018	18EPC308 DC MACHINES AND TRANSFORMERS LABORATORY	SINGLE PHASE INDUCTION MOTOR WITH LOADING ARRANGEMENT	1	1	0
366	B.E.	Electrical and Electronics Engineering	3	2018	18EPC308 DC MACHINES AND TRANSFORMERS LABORATORY	DC SHUNT MOTOR COUPLED WITH DC COMPOUND GENERATOR	2	2	0
367	B.E.	Electrical and Electronics Engineering	3	2018	18EPC308 DC MACHINES AND TRANSFORMERS LABORATORY	DC SHUNT MOTOR COUPLED WITH DC SHUNT GENERATOR	1	1	0
368	B.E.	Electrical and Electronics Engineering	3	2018	18EPC308 DC MACHINES AND TRANSFORMERS LABORATORY	TACHOMETER DIGITAL ANALOG	8	8	0
369	B.E.	Electrical and Electronics Engineering	3	2018	18EPC308 DC MACHINES AND TRANSFORMERS LABORATORY	SINGLE PHASE AUTO TRANSFORMER	2	2	0
370	B.E.	Electrical and Electronics Engineering	3	2018	18EPC308 DC MACHINES AND TRANSFORMERS LABORATORY	THREE PHASE AUTO TRANSFORMER	1	1	0
371	B.E.	Electrical and Electronics Engineering	3	2018	18EPC308 DC MACHINES AND TRANSFORMERS LABORATORY	THREE PHASE RESISTIVE LOADING BANK	2	2	0
372	B.E.	Electrical and Electronics Engineering	3	2018	18EPC308 DC MACHINES AND TRANSFORMERS LABORATORY	SINGLE PHASE RESISTIVE LOADING BANK	2	2	0
373	B.E.	Electrical and Electronics Engineering	3	2018	18EPC308 DC MACHINES AND TRANSFORMERS LABORATORY	SPST SWITCH	2	2	0
374	B.E.	Electronics and Communication Engineering	3	2018	18ZES3010 ELECTRICAL ENGINEERING LABORATORY	DC SHUNT MOTOR WITH LOADING ARRANGEMENT	2	2	0
375	B.E.	Electronics and Communication Engineering	3	2018	18ZES3010 ELECTRICAL ENGINEERING LABORATORY	DC SHUNT MOTOR WITH THREE PHASE ALTERNATOR	2	2	0
376	B.E.	Electronics and Communication Engineering	3	2018	18ZES3010 ELECTRICAL ENGINEERING LABORATORY	SINGLE PHASE INDUCTION MOTOR WITH LOADING ARRANGEMENT	2	2	0
377	B.E.	Electronics and Communication Engineering	3	2018	18ZES3010 ELECTRICAL ENGINEERING LABORATORY	THREE PHASE INDUCTION MOTOR WITH LOADING ARRANGEMENT	2	2	0
378	B.E.	Electronics and Communication Engineering	3	2018	18ZES3010 ELECTRICAL ENGINEERING LABORATORY	single phase transformer	2	2	0

379	B.E.	Electronics and Communication Engineering	3	2018	18ZES3010 ELECTRICAL ENGINEERING LABORATORY	single phase resistive load bank	2	2	0
380	B.E.	Electronics and Communication Engineering	3	2018	18ZES3010 ELECTRICAL ENGINEERING LABORATORY	wheatstone bridge kit	4	4	0
381	B.E.	Electronics and Communication Engineering	3	2018	18ZES3010 ELECTRICAL ENGINEERING LABORATORY	maxwell induction bridge kit	4	4	0
382	B.E.	Electronics and Communication Engineering	3	2018	18ZES3010 ELECTRICAL ENGINEERING LABORATORY	sehering bridge kit	4	4	0
383	B.E.	Electronics and Communication Engineering	3	2018	18ZES3010 ELECTRICAL ENGINEERING LABORATORY	separately excited dc generator	1	1	0
384	B.E.	Mechanical Engineering	1	2018	18zbs107 basic electrical engineering laboratory	voltmeter	5	5	0
385	B.E.	Mechanical Engineering	1	2018	18zbs107 basic electrical engineering laboratory	ammeter	5	5	0
386	B.E.	Mechanical Engineering	1	2018	18zbs107 basic electrical engineering laboratory	wattmeter	2	2	0
387	B.E.	Mechanical Engineering	1	2018	18zbs107 basic electrical engineering laboratory	single phase resistive loading bank	2	2	0
388	B.E.	Mechanical Engineering	1	2018	18zbs107 basic electrical engineering laboratory	single phase transformer	4	4	0
389	B.E.	Mechanical Engineering	1	2018	18zbs107 basic electrical engineering laboratory	dc machine	1	1	0
390	B.E.	Mechanical Engineering	1	2018	18zbs107 basic electrical engineering laboratory	three phase induction machine	1	1	0
391	B.E.	Mechanical Engineering	1	2018	18zbs107 basic electrical engineering laboratory	synchronous machine	1	1	0
392	B.E.	Mechanical Engineering	1	2018	18zbs107 basic electrical engineering laboratory	single phase induction machine	1	1	0
393	B.E.	Mechanical Engineering	1	2018	18zbs107 basic electrical engineering laboratory	dc to dc converter kit	1	1	0
394	B.E.	Mechanical Engineering	1	2018	18zbs107 basic electrical engineering laboratory	dc to ac converter kit	1	1	0
395	B.E.	Mechanical Engineering	1	2018	18zbs107 basic electrical engineering laboratory	three phase induction motor with loading arrangement	1	1	0

396	B.E.	Mechanical Engineering	1	2018	18zbs107 basic electrical engineering laboratory	dc shunt motor with three phase nator	1	1	0
397	B.E.	Mechanical Engineering	1	2018	18zbs107 basic electrical engineering laboratory	dso	2	2	0
398	B.E.	Mechanical Engineering	1	2018	18zbs107 basic electrical engineering laboratory	resistor	20	20	0
399	B.E.	Mechanical Engineering	1	2018	18zbs107 basic electrical engineering laboratory	inductor	20	20	0
400	B.E.	Mechanical Engineering	1	2018	18zbs107 basic electrical engineering laboratory	capacitor	20	20	0
401	B.E.	Computer Science and Engineering	1	2018	18zbs107 basic electrical engineering laboratory	voltmeter	5	5	0
402	B.E.	Computer Science and Engineering	1	2018	18zbs107 basic electrical engineering laboratory	ammeter	5	5	0
403	B.E.	Computer Science and Engineering	1	2018	18zbs107 basic electrical engineering laboratory	wattmeter	2	2	0
404	B.E.	Computer Science and Engineering	1	2018	18zbs107 basic electrical engineering laboratory	voltmeter	5	5	0
405	B.E.	Computer Science and Engineering	1	2018	18zbs107 basic electrical engineering laboratory	ammeter	5	5	0
406	B.E.	Computer Science and Engineering	1	2018	18zbs107 basic electrical engineering laboratory	wattmeter	2	2	0
407	B.E.	Computer Science and Engineering	1	2018	18zbs107 basic electrical engineering laboratory	single phase resistive loading bank	2	2	0
408	B.E.	Computer Science and Engineering	1	2018	18zbs107 basic electrical engineering laboratory	single phase transformer	4	4	0
409	B.E.	Computer Science and Engineering	1	2018	18zbs107 basic electrical engineering laboratory	dc machine	1	1	0
410	B.E.	Computer Science and Engineering	1	2018	18zbs107 basic electrical engineering laboratory	three phase induction machine	1	1	0
411	B.E.	Computer Science and Engineering	1	2018	18zbs107 basic electrical engineering laboratory	synchronous machine	1	1	0
412	B.E.	Computer Science and Engineering	1	2018	18zbs107 basic electrical engineering laboratory	single phase induction machine	1	1	0

413	B.E.	Computer Science and Engineering	1	2018	18zbs107 basic electrical engineering laboratory	dc to dc converter kit	1	1	0
414	B.E.	Computer Science and Engineering	1	2018	18zbs107 basic electrical engineering laboratory	dc to ac converter kit	1	1	0
415	B.E.	Computer Science and Engineering	1	2018	18zbs107 basic electrical engineering laboratory	three phase induction motor with loading arrangement	1	2	0
416	B.E.	Computer Science and Engineering	1	2018	18zbs107 basic electrical engineering laboratory	dc shunt motor with three phase nator	1	1	0
417	B.E.	Computer Science and Engineering	1	2018	18zbs107 basic electrical engineering laboratory	dso	2	2	0
418	B.E.	Computer Science and Engineering	1	2018	18zbs107 basic electrical engineering laboratory	resistor	20	20	0
419	B.E.	Computer Science and Engineering	1	2018	18zbs107 basic electrical engineering laboratory	inductor	20	20	0
420	B.E.	Computer Science and Engineering	1	2018	18zbs107 basic electrical engineering laboratory	capacitor	20	20	0
421	B.E.	General Engineering	1	2018	18SLS106 CHEMISTRY LABORATORY	PIPETTE BURETTE CONICAL FLASK PERCELINE TILE DROPPER	5	5	0
422	B.E.	General Engineering	1	2018	18SLS106 CHEMISTRY LABORATORY	CAPPILERY TUBE RUBBER TUBE STOP CLOCK BEAKER WEIGHING BALANCE	5	5	0
423	B.E.	General Engineering	1	2018	18SLS106 CHEMISTRY LABORATORY	PH METER	5	5	0
424	B.E.	Electrical and Electronics Engineering	6	2017	17epc607 power electronics laboratory	scr triac diac trainer kit	3	3	0
425	B.E.	Electrical and Electronics Engineering	6	2017	17epc607 power electronics laboratory	MOSFET IGBT TRAINER KIT	3	3	0
426	B.E.	Electrical and Electronics Engineering	6	2017	17epc607 power electronics laboratory	AC TO DC FULLY CONTROLLED CONVERTER SINGLE PHASE	2	2	0
427	B.E.	Electrical and Electronics Engineering	6	2017	17epc607 power electronics laboratory	AC TO DC HALF CONTROLLED CONVERTER SINGLE PHASE	2	2	0
428	B.E.	Electrical and Electronics Engineering	6	2017	17epc607 power electronics laboratory	STEP DOWN AND STEP UP CHOPPER	3	3	0
429	B.E.	Electrical and Electronics Engineering	6	2017	17epc607 power electronics laboratory	IGBT BASED PWM INVERTER	2	2	0
430	B.E.	Electrical and Electronics Engineering	6	2017	17epc607 power electronics laboratory	SERIES AND PARALLEL INVERTER	2	2	0
431	B.E.	Electrical and Electronics Engineering	6	2017	17epc607 power electronics laboratory	AC VOLTAGE CONTROLLER	2	2	0

432	B.E.	Electrical and Electronics Engineering	6	2017	17epc607 power electronics laboratory	SWITCHED MODE POWER SUPPLY KIT	2	2	0
433	B.E.	Electrical and Electronics Engineering	6	2017	17epc607 power electronics laboratory	RESONANT AND QUASI RESONANT CONVERTER	2	2	0
434	B.E.	General Engineering	2	2018	18SLS206 PHYSICS LABORATORY	POTENTIOMETER	5	5	0
435	B.E.	General Engineering	2	2018	18SLS206 PHYSICS LABORATORY	CAREY FOSTERS BRIDGE SETUP	5	5	0
436	B.E.	General Engineering	2	2018	18SLS206 PHYSICS LABORATORY	CONDUCTIVITY METER	5	5	0
437	B.E.	General Engineering	2	2018	18SLS206 PHYSICS LABORATORY	DIODE LASER HE NE LASER	5	5	0
438	B.E.	General Engineering	2	2018	18SLS206 PHYSICS LABORATORY	OSWALD VISCOMETER	5	5	0
439	B.E.	General Engineering	2	2018	18SLS206 PHYSICS LABORATORY	LYCOPODIUM POWDER OPTICAL FIBER KIT GLASS PLATE	5	5	0
440	B.E.	General Engineering	2	2018	18SLS206 PHYSICS LABORATORY	ULTRASONIC INFEROMETER	2	2	0
441	B.E.	General Engineering	2	2018	18SLS206 PHYSICS LABORATORY	TRAVELLING MICROSCOPE	5	5	0
442	B.E.	General Engineering	2	2018	18SLS206 PHYSICS LABORATORY	METER SCALE KNIFE EDGE WEIGHTS	5	5	0
443	B.E.	General Engineering	2	2018	18SLS206 PHYSICS LABORATORY	SPECTROMETER MERCURY LAMP GRATING	5	5	0
444	B.E.	General Engineering	2	2018	18SLS206 PHYSICS LABORATORY	SPECTROPHOTOMETER	5	5	0
445	B.E.	General Engineering	2	2018	18SLS206 PHYSICS LABORATORY	AIR WEDGE EXPERIMENTAL SET UP	5	5	0
446	B.E.	General Engineering	2	2018	18SLS206 PHYSICS LABORATORY	BAND GAP EXPERIMENTAL SET UP	5	5	0
447	B.E.	General Engineering	2	2018	18SLS206 PHYSICS LABORATORY	FLAMEPHOTOMETER	5	5	0
448	B.E.	General Engineering	2	2018	18ZHS209 COMMUNICATION ENGLISH LABORATORY	COMPUTER	30	90	0
449	B.E.	General Engineering	2	2018	18ZHS209 COMMUNICATION ENGLISH LABORATORY	ENGLISH LANGUAGE SOFTWARE	30	90	0
450	B.E.	Electrical and Electronics Engineering	6	2017	17eps608 microprocessors microcontrollers and applications laboratory	8085 microprocessor trainer kit	15	15	0
451	B.E.	Electrical and Electronics Engineering	6	2017	17eps608 microprocessors microcontrollers and applications laboratory	8051 microcontroller trainer kit	15	15	0
452	B.E.	Electrical and Electronics Engineering	6	2017	17eps608 microprocessors microcontrollers and applications laboratory	ad and da interfacing with 8085	5	5	0
453	B.E.	Electrical and Electronics Engineering	6	2017	17eps608 microprocessors microcontrollers and applications laboratory	stepper motor using 8085	3	3	0

454	B.E.	Electrical and Electronics Engineering	6	2017	17eps608 microprocessors microcontrollers and applications laboratory	interfacing dc motor speed control using 8085	3	3	0
455	B.E.	Electrical and Electronics Engineering	6	2017	17eps608 microprocessors microcontrollers and applications laboratory	traffic light controller	5	5	0
456	B.E.	Electrical and Electronics Engineering	6	2017	17eps608 microprocessors microcontrollers and applications laboratory	interfacing 8251	4	4	0
457	B.E.	Electrical and Electronics Engineering	6	2017	17eps608 microprocessors microcontrollers and applications laboratory	interfacing 8253	4	4	0
458	B.E.	Electrical and Electronics Engineering	6	2017	17eps608 microprocessors microcontrollers and applications laboratory	interfacing 8279	5	5	0
459	B.E.	Electrical and Electronics Engineering	6	2017	17eps608 microprocessors microcontrollers and applications laboratory	ad and da with 8051	5	5	0
460	B.E.	Electrical and Electronics Engineering	6	2017	17eps608 microprocessors microcontrollers and applications laboratory	interfacing of 8051 with dc motor speed control	3	3	0
461	B.E.	Electrical and Electronics Engineering	6	2017	17eps608 microprocessors microcontrollers and applications laboratory	interfacing of 8051 with stepper motor	3	3	0
462	B.E.	Electrical and Electronics Engineering	6	2017	17eps608 microprocessors microcontrollers and applications laboratory	measurement of frequency using cro	3	3	0
463	B.E.	General Engineering	1	2018	18ZBS106 PHYSICS LABORATORY	POTENTIOMETER	5	5	0
464	B.E.	General Engineering	1	2018	18ZBS106 PHYSICS LABORATORY	CONDUCTIVITY METER	5	5	0
465	B.E.	General Engineering	1	2018	18ZBS106 PHYSICS LABORATORY	DIODE LASER	5	5	0
466	B.E.	General Engineering	1	2018	18ZBS106 PHYSICS LABORATORY	LYCOPODIUM POWDER OPTICAL FIBER KIT GLASS PLATE	5	5	0
467	B.E.	General Engineering	1	2018	18ZBS106 PHYSICS LABORATORY	OSWALD VISCOSCOPE	10	10	0
468	B.E.	General Engineering	1	2018	18ZBS106 PHYSICS LABORATORY	ULTRASONIC INTERFEROMETER	5	5	0
469	B.E.	General Engineering	1	2018	18ZBS106 PHYSICS LABORATORY	TRAVELLING MICROSCOPE	5	5	0
470	B.E.	Electronics and Communication Engineering	8	2018	EC6711 EMBEDDED LABORATORY	EMBEDDED TRAINER KIT SUITABLE FOR WIRELESS COMMUNICATION	10	10	0
471	B.E.	General Engineering	1	2018	18ZBS106 PHYSICS LABORATORY	AIR WEDGE EXPERIMENTAL SETUP	5	5	0
472	B.E.	General Engineering	1	2018	18ZBS106 PHYSICS LABORATORY	SPECTROPHOTOMETER	5	5	0

473	B.E.	General Engineering	1	2018	18ZBS106 PHYSICS LABORATORY	FLAMEPHOTOMETER	5	5	0
474	B.E.	General Engineering	1	2018	18EMS106 PHYSICS LABORATORY	ULTRASONIC INTERFERROMETER	5	5	0
475	B.E.	General Engineering	1	2018	18EMS106 PHYSICS LABORATORY	SPECTROMETER MERCURY LAMP GRAFTING	5	5	0
476	B.E.	General Engineering	1	2018	18EMS106 PHYSICS LABORATORY	LEES DISC EXPERIMENT SETUP	5	5	0
477	B.E.	General Engineering	1	2018	18EMS106 PHYSICS LABORATORY	TRAVELLING MICROSCOPE METER SCALE NNIFE EDGE WEIGHTS	5	5	0
478	B.E.	General Engineering	1	2018	18EMS106 PHYSICS LABORATORY	BEND GAPE EXPERIMENT SETUP	5	5	0
479	B.E.	General Engineering	1	2018	18EMS106 PHYSICS LABORATORY	TORSION PENDULUM SETUP	5	5	0
480	B.E.	General Engineering	2	2018	18mes207 programming in python	python 3 interpreter for windows linux	30	30	0
481	B.E.	Mechanical Engineering	5	2017	17ZEE509 COMMUNICATION AND SOFT SKILLS LABORATORY	COMPUTERS	30	90	0
482	B.E.	Mechanical Engineering	5	2017	17ZEE509 COMMUNICATION AND SOFT SKILLS LABORATORY	ENGLISH LANGUAGE SOFTWARE	30	90	0
483	B.E.	Mechanical Engineering	6	2017	17MEE609 PROFESSIONAL SKILLS DEVELOPMENT LABORATORY	COMPUTERS	30	90	0
484	B.E.	Mechanical Engineering	6	2017	17MEE609 PROFESSIONAL SKILLS DEVELOPMENT LABORATORY	ENGLISH LANGUAGE SOFTWARE	30	90	0
485	B.E.	General Engineering	1	2018	18EMS106 PHYSICS LABORATORY	DIODE LASER 2mW He Ne LASER 2mW	5	5	0
486	B.E.	Mechanical Engineering	7	2013	ME6711 SIMULATION AND ANALYSIS LABORATORY	MULTIBODY DYNAMIC SOFTWARE SUITABLE FOR MECHANISM SIMULATION AND ANALYSIS	15	15	0
487	B.E.	Mechanical Engineering	7	2013	ME6712 MECHATRONICS LABORATORY	IMAGE PROCESSING SYSTEM WITH HARDWARE AND SOFTWARE	1	1	0
488	B.E.	Mechanical Engineering	7	2013	ME6712 MECHATRONICS LABORATORY	8051 MICROCONTROLLER KIT WITH STEPPER MOTOR AND DRIVE CIRCUIT SETS	2	2	0
489	B.E.	Mechanical Engineering	7	2013	ME6712 MECHATRONICS LABORATORY	BASIC HYDRAULIC TRAINER KIT	1	1	0
490	B.E.	Mechanical Engineering	7	2013	ME6712 MECHATRONICS LABORATORY	BASIC PNEUMATIC TRAINER KIT WITH MANUAL AND ELECTRICAL CONTROLS PLC CONTROLS EACH	1	1	0
491	B.E.	Mechanical Engineering	7	2013	ME6712 MECHATRONICS LABORATORY	HYDRAULIC AND PNEUMATIC SYSTEM SIMULATION SOFTWARE	10	10	0

492	B.E.	General Engineering	2	2018	18EMS206 CHEMISTRY LABORATORY	CONDUCTIVITY METER	5	10	0
493	B.E.	General Engineering	2	2018	18EMS206 CHEMISTRY LABORATORY	PH METER	5	10	0
494	B.E.	General Engineering	2	2018	18EMS206 CHEMISTRY LABORATORY	POTENTIOMETER	5	8	0
495	B.E.	General Engineering	2	2018	18EMS206 CHEMISTRY LABORATORY	SPECTROPHOTOMETER	2	2	0
496	B.E.	General Engineering	2	2018	18EMS206 CHEMISTRY LABORATORY	FLAME PHOTOMETER	5	5	0
497	B.E.	General Engineering	2	2018	18ZBS206 CHEMISTRY LABORATORY	PIPETTE BURETTE CONICAL FLASK PERCELIAN TILE DROPPER	5	5	0
498	B.E.	General Engineering	2	2018	18ZBS206 CHEMISTRY LABORATORY	CAPILLARY TUBE RUBBER TUBE STOP CLOCK BEAKER WEIGHING BALANCE	5	5	0
499	B.E.	General Engineering	2	2018	18ZBS206 CHEMISTRY LABORATORY	PH METER	5	5	0
500	B.E.	General Engineering	1	2018	18ZHS107 COMMUNICATION ENGLISH LABORATORY	COMPUTER	30	30	0
501	B.E.	General Engineering	1	2018	18ZHS107 COMMUNICATION ENGLISH LABORATORY	ENGLISH LANGUAGE SOFTWARE	30	30	0
502	B.E.	Computer Science and Engineering	3	2018	18SPC308 OBJECT ORIENTED PROGRAMMING USING C AND JAVA	C COMPILER	30	30	0
503	B.E.	Computer Science and Engineering	3	2018	18SPC308 OBJECT ORIENTED PROGRAMMING USING C AND JAVA	JAVA COMPILER	30	30	0
504	B.E.	Computer Science and Engineering	3	2018	18SPC308 OBJECT ORIENTED PROGRAMMING USING C AND JAVA	COMPUTER	30	30	0
505	B.E.	Computer Science and Engineering	3	2018	18SES307 DIGITAL PRINCIPLES AND SYSTEM DESIGN LABORATORY	WIRE SINGLE STRAND ROLL	1	1	0
506	B.E.	Computer Science and Engineering	3	2018	18SES307 DIGITAL PRINCIPLES AND SYSTEM DESIGN LABORATORY	BREAD BOARDS	15	20	0
507	B.E.	Computer Science and Engineering	3	2018	18SES307 DIGITAL PRINCIPLES AND SYSTEM DESIGN LABORATORY	COMPUTER WITH HDL SOFTWARE	30	30	0
508	B.E.	Computer Science and Engineering	3	2018	18SES307 DIGITAL PRINCIPLES AND SYSTEM DESIGN LABORATORY	IC7400 IC7402 IC7404 IC7408 IC7432 IC7483 IC74150 IC74151 IC74147 IC7445 IC7476 IC7491 IC7494 IC555	60	60	0
509	B.E.	Computer Science and Engineering	3	2018	18SES307 DIGITAL PRINCIPLES AND SYSTEM DESIGN LABORATORY	IC TRAINER 10 BIT	30	50	0

510	B.E.	Computer Science and Engineering	3	2018	18SES307 DIGITAL PRINCIPLES AND SYSTEM DESIGN LABORATORY	MULTIMETER	5	5	0
511	B.E.	Computer Science and Engineering	3	2018	18SPC309 DATA STRUCTURES LABORATORY	COMPUTER	30	30	0
512	B.E.	Computer Science and Engineering	3	2018	18SPC309 DATA STRUCTURES LABORATORY	C COMPILER	30	30	0
513	B.E.	Computer Science and Engineering	4	2018	18SPC407 OPERATING SYSTEMS LABORATORY	SERVER SUPPORTING STANDALONE DESKTOPS	30	30	0
514	B.E.	Computer Science and Engineering	4	2018	18SPC407 OPERATING SYSTEMS LABORATORY	C JAVA COMPILER	30	30	0
515	B.E.	Computer Science and Engineering	4	2018	18SPC408 DATABASE MANAGEMENT SYSTEMS LABORATORY	SERVER SUPPORTING STANDALONE DESKTOPS	30	30	0
516	B.E.	Computer Science and Engineering	4	2018	18SPC408 DATABASE MANAGEMENT SYSTEMS LABORATORY	ORACLE SQL MYSQL DB2 OR EQUIVALENT	30	30	0
517	B.E.	Computer Science and Engineering	5	2017	17SPC507 COMPUTER NETWORKS LABORATORY	STANDALONE DESKTOPS	30	30	0
518	B.E.	Computer Science and Engineering	5	2017	17SPC507 COMPUTER NETWORKS LABORATORY	NETWORK SIMULATOR NS2 GLOMOSIM OPNET OR EQUIVALENT	30	30	0
519	B.E.	Computer Science and Engineering	5	2017	17SPC507 COMPUTER NETWORKS LABORATORY	C JAVA OR EQUIVALENT COMPILER	30	30	0
520	B.E.	Computer Science and Engineering	5	2017	17SPC508 EMBEDDED COMPUTING SYSTEMS LABORATORY	EMBEDDED TRAINER KITS SUITABLE FOR WIRELESS COMMUNICATION	10	10	0
521	B.E.	Computer Science and Engineering	5	2017	17SPC508 EMBEDDED COMPUTING SYSTEMS LABORATORY	EMBEDDED TRAINER KITS WITH ARM BOARD	10	10	0
522	B.E.	Computer Science and Engineering	6	2017	17SPC607 MOBILE APPLICATION DEVELOPMENT LABORATORY	COMPUTERS	30	30	0
523	B.E.	Computer Science and Engineering	6	2017	17SPC607 MOBILE APPLICATION DEVELOPMENT LABORATORY	ANDROID STUDIO OR EQUIVALENT MOBILE APPLICATION DEVELOPMENT TOOL	30	30	0
524	B.E.	Computer Science and Engineering	6	2017	17SPC608 COMPILER LABORATORY	DESKTOP COMPUTERS	30	30	0
525	B.E.	Computer Science and Engineering	6	2017	17SPC608 COMPILER LABORATORY	C COMPILER	30	30	0
526	B.E.	Computer Science and Engineering	6	2017	17SPC608 COMPILER LABORATORY	COMPILER WRITING TOOLS LEX AND YACC	30	30	0
527	B.E.	Computer Science and Engineering	7	2013	CS6711 SECURITY LABORATORY	PCs	30	30	0

528	B.E.	Computer Science and Engineering	7	2013	CS6712 GRID AND CLOUD COMPUTING LABORATORY	GLOBUS TOOLKIT OR EQUIVALENT EUCALYPTUS OR OPEN NEBULA OR EQUIVALENT	30	30	0
529	B.E.	Computer Science and Engineering	7	2013	CS6712 GRID AND CLOUD COMPUTING LABORATORY	DESTKTOP	30	30	0
530	M.E.	Computer Science and Engineering	1	2018	18CSPC05 ADVANCES IN DATA STRUCTURES AND ALGORITHM ANALYSIS LABORATORY	PCs	18	30	0
531	M.E.	Computer Science and Engineering	1	2018	18CSPC05 ADVANCES IN DATA STRUCTURES AND ALGORITHM ANALYSIS LABORATORY	C COMPILER	18	30	0
532	M.E.	Computer Science and Engineering	2	2018	18CSPC10 CLOUD AND VIRTUALIZATION TECHNIQUES LABORATORY	DESKTOP	18	30	0
533	M.E.	Computer Science and Engineering	2	2018	18CSPC10 CLOUD AND VIRTUALIZATION TECHNIQUES LABORATORY	VMWARE OR EQUIVALENT	18	30	0
534	B.E.	General Engineering	1	2018	18ZBS106 PHYSICS LABORATORY	SPECTROMETER MERCURY LAM GRATING	5	5	0
535	B.E.	Electronics and Communication Engineering	8	2018	EC6711 EMBEDDED LABORATORY	EMBEDDED TRAINER KIT WITH ARM BOARDS	10	10	0
536	B.E.	Electronics and Communication Engineering	8	2018	EC6711 EMBEDDED LABORATORY	ADEQUATE QUANTITIES OF HARDWARE SOFTWARE AND CONSUMERABLES	10	10	0
537	B.E.	Electronics and Communication Engineering	8	2013	ec6712 optical and microwave laboratory	microwave test bench at x band and antenna turn table to measure radiation pattern of horn antenna 2 horn antennas	2	2	0

17(i). Central Computing Facility Area

Projected Area (sq.m)	150
Area available(sq.m)	150
Deficiency %	0.00

17.(ii) Terminals Lan Wan

Sl.No.	Course Type	Total Student	Number of Terminals with p4 processor or higher			Number of Terminals On LAN /WAN			Number of Printers		
			Required	Available	Deficiency	Required	Available	Deficiency	Required	Available	Deficiency
1	B.E.	840	140	250	0.00	140	200	0.00	14	30	0.00
2	M.E.	108	27	27	0.00	27	27	0.00	3	3	0.00

17.(iii) Softwares

Software required	Name of the software available
System software -(Three)	<ol style="list-style-type: none">1. operating system windows2. compliers3. anti virus
Application Software -(Twenty)	<ol style="list-style-type: none">1. ibm rational rose2. matlab3. cadmia4. delmia5. adams6. visual studio7. 19 abacus8. mipower9. orcad10. fpga sw11. c12. c plus plus13. java14. visual basic15. ns2 glomosim opnet freeware16. interactive teacher control software17. english language lab software18. career lab software

17.(iv) Network Connectivity

Network Connectivity	
Total Students	294
Required Bandwidth in Mbps	16
Available Bandwidth in Mbps	28
Number of nodes with internet connection	300
Deficiency %	0.00

18(i). Library Area

Type of Institution	Engineering Courses
Projected Area (sq.m)	400
Area available(sq.m)	1662.96
Deficiency %	0.00

18(ii).Library Books

	Required	Available	Deficiency %
Science & Humanities			
No.of volumes(M1)	1000	4736	0.00
Engg./Tech.,Arch &plan., Management and Computer applications			
No.of titles(T)	1100	12178	0.00
No.of volumes(M2)	7650	34396	0.00
No.of volumes added for the year 2019-2020(M3)	110	1900	0.00
Total no.of volumes(M1+M2+M3)	8760	41032	0.00
Overall Deficiency			0.00

18(iii). Library Journals

Degree	Course	Required	Available	Deficiency %	Required	Available	Deficiency %
B.E.	Mechanical Engineering	6	6	0.00	6	6	0.00
B.E.	Computer Science and Engineering	6	6	0.00	6	6	0.00
B.E.	Electronics and Communication Engineering	6	6	0.00	6	6	0.00
B.E.	Electrical and Electronics Engineering	6	6	0.00	6	6	0.00
M.E.	Power Electronics and Drives	5	5	0.00	5	5	0.00
M.E.	Applied Electronics	5	5	0.00	5	5	0.00
M.E.	Computer Science and Engineering	5	5	0.00	5	5	0.00

19(i). Class Rooms availability in the whole college

Sl.No.	Name of the Block	Area (Length * Width) in sq.m.	Number of Rooms	Type of roof	Capacity
1	ELECTRONICS AND COMMUNICATION ENGINEERING	345	4	Permanent	1254.55
2	MECHANICAL ENGINEERING	345.6	4	Permanent	1256.73
3	ADMINISTRATION	345.6	4	Permanent	1256.73
4	ELECTRICAL AND ELECTRONICS ENGINEERING	345.6	4	Permanent	1256.73
5	COMPUTER SCIENCE AND ENGINEERING	345.6	6	Permanent	1885.09

19(ii). Summary of Class Rooms availability

Required	Available	Deficiency %
22	22	0

20. Number of Drawing halls / Conference halls

Degree	Number of Studios Required	Number Available	Deficiency %	Area of the each drawing hall required (sq.m.)	Area of the drawing hall available (sq.m.)	Deficiency %
B.E.	1	1	0	132	132	0

21(i). Administrative Area

SI.NO	Building space for	Carpet Area required (sq.m.)	Available (sq.m.)	Deficiency %
1	Principal	30	30	0 %
2	Director office	30	30	0 %
3	Board Room	20	20	0 %
4	Office all inclusive (One program)	150	750	0 %
5	Department offices	20	140	0 %
6	Cabins for Head of Departments	20	80	0 %
7	Faculty Rooms	5	20	0 %
8	Central Stores	30	30	0 %
9	Maintenance	10	10	0 %
10	Security	10	10	0 %
11	Housekeeping	10	10	0 %
12	Pantry for staff	10	10	0 %
13	Examinations Control office	30	750	0 %
14	Placement office	30	30	0 %

21(ii). Amenities

S.No.	Building space for	OneProgram required (sq.m.)	Available (sq.m.)	Deficiency %
1	Gents Toilet / Ladies Toilet	150	538	0 %
2	Boys Common Room	75	172	0 %
3	Girls Common Room	75	172	0 %
4	Cafeteria	150	200	0 %
5	Stationery Store & Reprography	10	10	0 %
6	First Aid cum Sick room	10	10	0 %
7	Principal's quarters	150	0	100 %
8	Guest House	30	30	0 %
9	Sports Club / Gymnasium	100	200	0 %
10	Auditorium / Amphi Theater	250	250	0 %
11	Boys Hostel	Adequate	1314	0 %
12	Girls Hostel	Adequate	2232	0 %

22(i). Boys Hostel Details

Hostel	Buildings	Location	Distance	Total Admitted Strength	Block Name	Room Type	Other Seated Room Type	Carpet area of room (sq.m.)	Number of rooms Required	Number of rooms Available	Room capacity Required (sq.m.)	Room capacity Available
Yes	Owned	Inside Campus	Within 20 KM	311	boys hostels 1 and 2	Triple Seated Room	0	20	104	104	2080	2080

22(ii). Boys hostel Summary

Room Type	Total hostel capacity required (sq.m.)	Total hostel capacity available (sq.m.)	Deficiency %
Triple Seated Room	2080	2080	0
Triple Seated Room			100

22(iii). Girls Hostel Details

Hostel	Buildings	Location	Distance	Total Admitted Strength	Block Name	Room Type	Other Seated Room Type	Carpet area of room (sq.m.)	Number of rooms Required	Number of rooms Available	Room capacity Required (sq.m.)	Room capacity Available
Yes	Owned	Inside Campus	Within 20 KM	311	boys hostels 1 and 2	Triple Seated Room	0	20	104	104	2080	2080
Yes	Owned	Inside Campus	Within 20 KM	226	girls hostels 1 2 and 3	Triple Seated Room	0	20	75	93	1500	1860

22(iv). Girls hostel Summary

Room Type	Total hostel capacity required (sq.m.)	Total hostel capacity available (sq.m.)	Deficiency %
Triple Seated Room	2080	2080	0
Triple Seated Room	1500	1860	0
Triple Seated Room			100
Triple Seated Room			100

22(v). Other related building areas

Description of the area	Required carpet area (sq.m.) per hostel unit of 120 students	Available carpet area (sq.m.)	Deficiency %
Kitchen and Dining Hall	200	200	0 %
Indoor games cum Common hall	150	150	0 %
Medical room (for all hostels)	50	50	0 %
Canteen	50	50	0 %
Warden office	18	18	0 %
Warden office Additional 4 rooms of 9 (sq.m.) each within the blocks	36	36	0 %
Guest rooms (2 nos)	18	18	0 %
Guest rooms Additional 4 rooms of 9 (sq.m.) each within the blocks	36	36	0 %
Toilets	75	75	0 %

23. Physical Education

SL.No	Description	Details
1	Total area of the play ground(sq.m)	217800.00
2	Details of the outdoor Games available	1 Cricket 2 volley ball 3 shuttle cock 4 ball badminton 5 kho kho 6 foot ball
3	Details of the Indoor Games available	1 table tennis 2 carom 3 chess
4	Details of gymnasium available	1bench press 2weight lifting 3dum bells 4bar 5pushup
5	Funds allotted to physical Education	87182

24(i). Training and Placement Cell

Sl.No.	Name	Designation	Department
1	Dr. KARTHICKEYAN D	Assistant Professor	PHYSICS
2	Mr. ANANTHA BABU M	Assistant Professor	MECHANICAL ENGINEERING

24(ii). Facilities available

Sl.No	Item	Available (Yes/No)
1.	Conference Hall	YES
2.	Interview Room	YES
3.	OHP	YES
4.	LCD projector	YES
5.	Audio visual facilities	YES

25. Alumni Association

Sl.No	Alumni association	Available(YES/NO)
1.	Is alumni association functioning in the college?	YES

26(i). Health Centre

SL.No.	Name of the staff	Designation	Qualification	Experience
1	Dr.GOVINDDRAJU S	Doctor	M.B.B.S. GENERAL MEDICINE	30

26(ii). Other Amenities

Sl.No	Item	Available(Yes/No)
1.	Drinking Water facility	YES
2.	Electric Supply	YES
3.	Generator (min.25 KVA)	YES
4.	Sewage Disposal	YES
5.	Telephone facility	YES
6.	Vehicle Parking Stand	YES
7.	Website	YES
8.	Barrier free built environment for disable	YES
9.	Safety Provisions(Fire and Others)	YES
10.	General Insurance for Assets	NO
11.	All Weather Approach road	YES
12.	Notice Boards	YES
13.	Public announcement System	YES
14.	ERP for student-institution,Parent interaction	YES
15.	Transport facilities for staff and students	YES
16.	Bank /extension counter facility / post	YES
17.	CCTV Security	YES
18.	LCD in Class Rooms	YES
19.	Group Insurance for Employee	YES
20.	Group Insurance for Students	YES
21.	Staff Quarters	YES
22.	Rain Water Harvesting Structures	YES

27. Registers and Records

Sl.No	Name of Register / Record	Is it Maintained properly Yes/No
1.	Department wise faculty profile	YES
2.	Department wise Non-Teaching Staff Profile	YES
3.	Register of Students attendance and assessment record	YES
4.	Attendance for Teaching and non-teaching staff	YES
5.	Advertisement for the recruitment of Faculty members	NO
6.	Minutes of the meeting of staff selection Committee	NO
7.	Appointment / offer letters issued to faculty members	YES
8.	Joining report of staff members	YES
9.	Record of students(course wise)	YES
10.	Academic performance record of students(course wise)	YES
11.	Record of student projects(UG,PG& PhD)	YES
12.	Register of attendance and assessment record(course wise)	YES
13.	Record of scholarships / fellowships / financial assistance for students	YES
14.	Books of Transfer certificate(including counterfoils)	YES
15.	Copy of Regulations, curriculum and syllabi(course wise)	YES
16.	Record of Research /Consultancy /Extension activites(Department wise)	YES
17.	Record of Achievements,Award and Recognition(Department wise)	YES
18.	Master time table and Academic calendar	YES
19.	Accession register for library	YES
20.	Stock register for equipment	YES
21.	Stock register for consumable	YES
22.	Stock register for furniture	YES
23.	Stock register for tools and plants	YES
24.	Minutes of the meetings of the Governing council of the college	YES
25.	Minutes of the meetings of the Planning and Monitoring Board	YES
26.	Minutes of the meetings of the Registered Society /Trust of the college	NO

27.	Year-wise audited statement of the college and also in the format specified by the University	YES
28.	Cash book of the college	YES
29.	Acquaintance register	YES
30.	Fee receipt books(including counterfoils)	YES
31.	Funds position /Bank certificates/FDR copies to indicate financial stability	YES

28. Certificates

Sl.No	Certificate Names	Images
1.	Village field map / Field measurement book sketch	Certificate 1.1
2.	College sitemap / plan	Certificate 2.1 Certificate 2.2
3.	Existing building plan	Certificate 3.1
4.	Building sketch [details of Rooms, Laboratories, Stores, Library etc. for all the floors]	Certificate 4.1 Certificate 4.2 Certificate 4.3 Certificate 4.4 Certificate 4.5 Certificate 4.6 Certificate 4.7 Certificate 4.8 Certificate 4.9 Certificate 4.10
5.	Building plan proposed.	
6.	Irrevocable Trust Registration Deed.	
7.	Documentary proof for ownership of lands exclusively earmarked for the College.	Certificate 7.1
8.	Legal opinion from not below the rank of the Govt. pleader on the ownership of land and extent of coverage.	
9.	Land use Certificate from an appropriate authority (RDO) and Land conversion certificate form the Directorate of Town & Country planning.	
10.	# Certificate under Section 37 (B) of Tamil Nadu Land Reforms (Land fixation and Ceiling) Act, 1961.	
11.	# State Government permission for starting the College.	Certificate 11.1
12.	AICTE approval for the course(s) (copy to be enclosed).	Certificate 12.1 Certificate 12.2 Certificate 12.3 Certificate 12.4
13.	Documents showing the financial viability of the college [details of financial budgeted revenue and expenses statements (Current year)].	Certificate 13.1 Certificate 13.2 Certificate 13.3 Certificate 13.4
14.	Composition of the Governing council.	Certificate 14.1 Certificate 14.2
15.	Master Time - Table for all courses and all sections with classroom arrangements.	Certificate 15.1
16.	Audited statement of accounts of the college for the past three years.	Certificate 16.1 Certificate 16.2

17.	Certificates for fire/boiler/electrical safety from competent authorities.	Certificate 17.1
18.	Certificate from Health Inspector.	
19.	Certificate from PWD Superintendent Engineer for the structural stability of the building.	Certificate 19.1
20.	Building and equipment insurance certificate.	

29. Processing Fee

SL.No	Courses for which affiliation is sought for the year	Number of course(s)	Inspection / Processing fee per course RS	Total Amount	
1	No. of the existing Courses with existing/reduction intake	4	12500	50000	
2	No. of the affiliated course with increase in intake	0	25000	0	
3	No. of the Additional academic courses	0	25000	0	
4	Application Submission LATE FEE	0	25000	0	
Grand Total				50000	
SI.NO	Amount (Rs)	D.D. No	Date	Name of the Bank	Branch

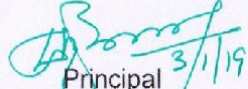
30. Endorsement of the Principal

1/3/2019

Centre for Affiliation of Institutions, Anna University, Chennai

Endorsement of the Principal

I, Thiru. / Tmt. **CHANDRASEKARAN M** Son / Daughter of Thiru. **MUTHIAL CHETTY** on behalf of the (**Government College Of Engineering Bargur**) hereby declare that the particulars furnished in the application are correct to the best of my knowledge.


Principal
(DR. CHANDRASEKARAN M)
PRINCIPAL
Govt. College of Engneer
Bargur-635 104

Place : *Bargur*
Date : 03-01-2019

Seal

31. Declaration by the Management

