NELLAI
COLLEGE OF ENGINEERING

(Formerly National College of Engineering)

24 Years of Academic Excellence

Maruthakulam PO., Tirunelveli, Tamilnadu 627 151.

(Promoted by Manarul Huda Trust, Thiruvananthapuram)

MANDATORY DISCLOSURE

MANDATORYDISCLOSURE

NameoftheInstitution

NameOf theCollege	NELLAICOLLEGEOFENGINEERING
Address	MARUTHAKULAMP.O,NANGUNERITALUK,TIRUNELVELI
Pincode	627151
Year of establishment of thecollege	2000
Typeofthe Institution	SELFFINANCING
Category of the College	MUSLIM MINORITY
Type of college	ENGINEERING
Isthe College Autonomous	NO
Is the college Functioning at the abovesaid-approved site?	YES
MobileNumbers	9787009922
TelephoneNumbers	04635-256343
Other TelephoneNumbers	04635-256420
FaxNumbers	04635-256344
EmailID	nceng@mhtrust.com
WebsiteAddress	WWW.NCE.AC.IN
InclusionunderSections 2(f)and 12(B)oftheUGCAct, 1956	
Section 2(f)	Included
LetterNo.anddate, ifincluded	F.No.8-82/2013(CPP-I/C)&21-08-2013
Section 12(B)	NotIncluded
Any other Accreditation /Recognition	NoneoftheOption--

TrustandSociety Details

TheHeadof theTrust	Chairman
NameOftheTrust/Society	ManarulHudaTrust
AddressoftheRegisteredOffice	P.O.No. 5829, EMKE MANZIL,KALLATTUMUKKU,MANACAUDP.O,
	THIRUVANANTHAPURAM - 695 009,KERALA.
District	Others
NameoftheChairman	Mr.ZAKIRHUSSAINK
FatherName	Mr.KAMALUDDINM.K.
E-mail	headoffice@mhtrust.com
MobileNumberoftheChairman	9494554446
Telephonenumber	0471-2462206
Telephonenumber -Office	0471-2450480
Telephonenumber -Residence	0471-2462206
RegistrationNumber&Date	No.46/2000/mht/15.11.2000

NameandaddressofthePrincipal

Name of the Principal	Dr.JINNAH SHEIKMOHAMED M
Exact Designation	PRINCIPAL
Highest Degree	Ph.D.
Field of specialization	Powder Metallurgy (Mechanical Engineering)
FatherName	Mr.MEERASAS

Telephone number - Office	04635-256343
Telephone number - Residence	04635-256343
Fax number	04635-256344
Mobile number	9787009922
E-mail	principal@nce.ac.in
Residential AddressLine 1	4/892J,JINNAH MANZIL19TH STREETRAHMATHNAGAR
Line 2	TIRUNELVELI-627 011
District	Tirunelveli
EducationalQualification	**Degree** / **Specialization** / **Class** B.E. / MechanicalEngineering / Distinction M.E. / EngineeringDesign / Distinction Ph.D. / FacultyofMechanicalEngineering / FirstClass
Titleof thePh.D.Thesis	EXPERIMENTAL ANALYSIS ON FORMABILITYBEHAVIOUR OF AA5052 COATED WITH MOLYBDENUMBASEDCERAMIC NANOCOMPOSITE

NameoftheUniversity

AffiliatedtotheAnna University,Chennai,Tamilnadu,India.

GoverningCouncil

Name	Position	Qualification	Present Designation /Occupation	TelephoneNumbers	MobileNo.	E-mailid	Address
Dr.ATHIMOOLAMS	University Nominee	Ph.D.-Others-FACULTY OFScIENCEANDHUMANIT	ASSISTANTPROFESSOR HODPHYSICS	04652-260511	9787100212	athi81s@yahoo.co.in	NO.58/10,VAITHIYALINGAMSTREET,VICRAMSINGAPURAM - 627425-TIRUNELVELI - 627425

		IES					Tirunelveli
Mrs.ANULABEAUTYS	Members	M.E.-HighVoltageEngineering	ASSISTANTPROFESSOR ANDHOD EEE	04635-256343	9894112984	HOD_EEE@NCE.AC.IN	NO.12B-2,ST.PAULSROAD,OPPOSITETOKURINJINURSERYGARDENS-PALAYAMKOTTAI,TIRUNELVELI -627002 Tirunelveli
Dr.Vijayarajm	Others-DOTENOMINEE	Ph.D.-Electronicsand CommunicationEngineering	PROFESSOR ANDHOD	0462-2552450	9442964798	m_vijayaraj@yahoo.co.in	governmentcollegeofengineering,-TIRUNELVELI -627007 Tirunelveli
Dr.JINNAHSHEIKMOHAMEDm	MemberSecretary	Ph.D.-MechanicalEngineering	PRINCIPAL	04635-256420	9787009922	principal@nce.ac.in	4/892 J, JINNAHMANZIL19THSTREETRAHMATHNAGAR-TIRUNELVELI627011 Tirunelveli
Mr.SAMEERKUTTYS	Members	B.E.-ComputerScienceandEngineering	CEO	0471-2467011	9494554446	sameer@technoalliance.in	TECHNOALLIANCE-THIRUVANANTHAPURAM-695009 Others-THIRUVANANTHAPURAM
Mr. SHERIFKOTTAPURATHS	Members	B.E.-ComputerScienceandEngineering	Chiefexecutiveofficer	080-22118548	9494554446	sherifkm@gmail.com	I-CalibratorTraining PvtLtd -BENGALURU -560070 Others-BENGALURU
Mr.SHANAVASKHANS	Members	M.Tech.-InformationTechnology	MANAGINGDIRECTOR	080-25538632	9494554446	headoffice@mhtrust.com	CARAVELINFOSYSTEM, -BENGALURU -560070 Others-BENGALURU
Mr.ABDULLAHIRA	Members	B.Sc.-Others-Engineering	Member	0471-2460095	9494554446	headoffice@mhtrust.com	NO.5829,EMKEMANZIL,KALLATTUMUKKU,MANACAUDP.O.,-THIRUVANANTHAPURAM-695009,KERALASTATE Others-THIRUVANANTHAPURAM

Mr.SAMIRBINKAMALK	Members	M.B.A.-MasterofBusinessAdministration	VICECHAIRMAN CUM MANAGINGDIRECTOR	0471-2460095	9494554446	headoffice@mhtrust.com	NO.5829,EMKEMANZIL,KALLATTUMUKKU,MANACAUDP.O.,-THIRUVANANTHAPURAM-625009,KERALASTATE Others-THIRUVANANTHAPURAM
Mr.ZakirHussainK	Chairman	M.B.A.-MasterofBusinessAdministration	Chairman	0471-2460095	9494554446	headoffice@mhtrust.com	NO.5829 EMKEMANZIL,KALLATTUMUKKU,MANACAUDP.O.,-THIRUVANANTHAPURAM-695009,KERALASTATE Others-THIRUVANANTHAPURAM
Mr.SameerKuttyA	Members	B.E.-ElectronicsandCommunication Engineering	ceo	-	4712467111	headoffice@mhtrust.com	technoalliance - trivandrum Others-trivandrum
Mr.SheirfKottapurathA	Members	B.E.-ElectronicsandCommunication Engineering	ceo	-	9180221185	sherifkm@gmail.com	i-calibratortraining pvtltd - bengaluruOthers-bengaluru
Mr.NabilHasanLahirA	Members	B.E.-ComputerScienceandEngineering	member	-	9443692948	headoffice@mhtrust.com	manarul hudatrust, emkemanzil, kallattumukku,- manacaudpo Others-trivandrum

Programmes

Sl.No.	Degree	Course(s)	Year ofStarting	Sanctioned Intake	
				2020-2021	2021-2022
1.	B.E.	CivilEngineering	2012	60	60
2.	B.E.	ComputerScienceandEngineering	2000	60	60
3.	B.E.	ElectricalandElectronicsEngineering	2002	60	60
4.	B.E.	ElectronicsandCommunicationEngineering	2000	60	60
5.	B.E.	MechanicalEngineering	2011	60	60

Fees Structure forAcademic Year2022-23

S.No.	Courses	TuitionFees
1	B.E–MechanicalEngineering	Prescribed by Committee forfixation fee in respect of selffinancingprofessionalcolleges,Governmentof Tamilnadu
2	B.E–CivilEngineering	
3	B.E–ComputerScience and Engineering	
4	B.E–ElectricalandElectronics Engineering	
5	B.E–Electronicsand CommunicationEngineering	

LetterofApproval

9-1 (F) 36-278/99

Tel.(011) 3379015-18
Telefax :011-3379023

अखिल भारतीय तकनीकी शिक्षा परिषद्
ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
(An Autonomous Body of the Govt. of India by Parliament Act (52), 1987)

प्रो. बी. जी. संगमेश्वर
Pror. B. G. Sangameshwara
सलाहकार
Advisor

LETTER OF VIABILITY

F.No. 732-52-066/NDEG/ET/99
Date: 01.09.1999

6-9-99 17752 6/9/99
7.9.99 6.9.99 DA

THE CHAIRMAN/PRESIDENT
MANARUL HUDA TRUST,
KALLATTUMUKKU,MANACAUD P.O.
THIRVANDRUM - 695 009

SUB: Proposal for establishment of new institution during 1999-2000 - Regarding (New Institution for NEW DEGREE ENGINEERING programme)

Sir/Madam,

This is in pursuance of the order of Hon'ble High Court of Madras dtd. 27.07.1999 in W.P.No. 8061/99 for establishment of a new Technical Institution under the name and style of NATIONAL COLLEGE OF ENGINEERING, MARUTHUKULAM P.O.,, NANGUNERI TALUK,, THIRUNELVELI - 627 151 for its establishment during the academic year 1999-2000.

In accordance with the Regulations/Guidelines of the Council, I am directed to inform you that your proposal has been found viable prima facie based on the details furnished in your application form and in subsequent presentation before a duly constituted EC-subcommittee.

To facilitate further processing of the proposal you are now requested to furnish the following to the AICTE, The Regional Officer, Southern Regional Office, AICTE, 26 Haddows Road, Chennai 600 006.

1. Registered sale deed "in original" showing absolute ownership and title of the proposed land in the name of the Trust/Society. (Please note that lease deed is not acceptable, unless it is a Government Lease)" It is the responsibility of the Trust/Society to ensure that the land is in the name of the Trust/Society and not in any individual's name.

In case it is planned to establish the proposed institution in the campus of an existing institution, the area as required for the proposed Institution (Annexure I) should be exclusively earmarked for the Institution. The area must be earmarked by an irrevocable resolution of the Trust/Society recorded on a non-judicial stamp paper duly notorised

Data Entry Entered on 6/9/99

Contd\2...

2. The land use certificate from the concerned Competent Authority;

   (i) Municipal Corporation in the case of Metro-Cities, State capitals and District Headquarters
   (ii) Panchayat or other Competent Authority in the case of areas not covered in the Municipal Limits of Metro Cities, State Capitals and District Headquarters.

3. A Cumulative Fixed Deposit only in a Nationalized/Scheduled Bank in the joint name of Trust/Society and the concerned Regional officer for a period of 10 years for the amount as applicable to the category of the institution indicated in the annexure to this letter(Annexure I). FDR should be created by duly obtaining the signature of the concerned Regional Officer on the FDR application form(Please refer the Guidelines at Annexure II). FDR should be opened only in the Branch on whose application form signature of the concerned Regional Officer was obtained.

4. A non-refundable processing fee of Rs. 50,000/-(Rupees Fifty thousand only) in the form of a crossed(account payee) demand draft (Payable at the city where the Regional Office is situated) in favour of the Regional Officer concerned. Only after the receipt of the processing fee, the Regional Office will start consideration of your proposal and will take up further examination of the proposal and entertain any further correspondence in this regard.

You are to fulfill all the requirements indicated at 1,2,3, and 4 at the earliest but not later than September 15 1999, the cut-off date.

It shall be the responsibility of the Trust/Society to submit all documents strictly in accordance with the requirements of this Letter of Viability before the cut-off date. Failure to do so will result in ipso facto cancellation of this Letter of Viability. Please note that the Council shall not entertain any request for relaxation in the cut-off date due to any reason.

An Expert Committee of the Council shall visit the proposed institution if the compliance of all the conditions are met before the cut off date. It shall be the responsibility of the Trust/Society to keep ready the following documents and facilities prior to the Expert Committee visit:

a. A master plan for the entire institutional complex with the details of the plinth area, for the facilities such as laboratories, class rooms, drawing halls, workshops, library, administrative block, hostels, etc., which are required for the course.

Contd\3....

b. Proof of temporary/ permanent accommodation alongwith layout plan and photographs of the premises where the Trust/Society proposes to start the Institute.

c. Furnished Classrooms, Laboratories, Workshops, Administrative Block, etc. for the full requirements of the first two semesters as per the Norms of the Council.

d. Library with adequate number of pertinent books as per the approved curriculum of the affiliating body and technical journals as per Norms for the first two semesters (kindly refer Norms and Standards published by the Council).

e. Computer Centre with required number of terminals and Legal software required for the first two semesters as per Norms.

f. Full Time Director/ Principal as per AICTE qualifications.

g. Identification and consent of atleast 70% staff and faculty.

It is further stressed that if the Trust/Society is not able to fulfill any of the requirements as mentioned above, it shall forfeit its claim for further consideration of the proposal. The Council may not give any further opportunity for re-consideration if the facilities as asked for above is found unsatisfactory/inadequate.

Kindly, note that this is only a Viability Letter and is NOT a Letter of Approval.

Yours faithfully,

(B.G. Sangameshwara)

copy to : The Regional Officer, Southern Regional Office, AICTE, 26 Haddows Road, Chennai 600 006.

Encl: 1. Relevant norms for Land & Bunds attached at Annexure I
2. Guidelines for submission of FDR is attached at Annexure II.
3. Proforma for declaration from Bank Manager is attached at FORM

ANNEXURE I

NORMS FOR LAND AND FUNDS

Subject	Requirement of Land (in acres)			Requirement of Fixed Deposit (Rs. in Lakhs)
	*Rural	Dist. HQ Corporation Limit	Metro City Corporation Limit	
Engineering & Technology (Degree)	25	10	5	50
Engineering & Technology (Diploma)	20	10	5	25
Pharmacy(Degree)	5	2.5	0.5	20
Hotel Management & Catering Technology(Degree)	5	2.5	0.5	20
Hotel Management & Catering Technology (Diploma)	3	1.5	0.5	15
Hotel Management & Catering Technology (Degree+Diploma)	5	2.5	0.5	30
Architecture(Degree)	10	5	2	20
MBA or MCA	2.5	1.25	0.5	20
Applied Arts(Diploma)	2.5	1.5	0.5	15

* Any area which is not covered under District Headquarter or Metro City shall be considered under Rural.

INSTRUCTIONS FOR SUBMISSION OF THE FIXED DEPOSIT IN THE JOINT NAMES.

The procedure prescribed by the Council for creating a FDR jointly in the name of the Trust/ Society and the respective Regional Officers is as follows :-

1. The applicant Trust/ Society shall bring to the Regional Officer the application form from a Nationalized /Scheduled Bank duly signed along with the seal of the authorised signatory on behalf of the Trust/ Society.

2. The Regional officer shall affix his/her signature on the form and mark it with official seal.

3. The Trust/ Society shall create a single Cumulative joint Fixed deposit in the name of the Trust/ Society and Regional Officer, AICTE,(city) for a period of ten years in the Bank.

4. A declaration from the Bank Manager along with his/her name and seal on Form A(enclosed) shall be taken after the Fixed Deposit is created.

5. The original Fixed Deposit Receipt along with the Declaration in Form-A shall be submitted to the Regional Office before the cut-off date.

6. The Regional Officer shall retain the original Fixed Deposit Receipt and the duly signed Form A in safe custody and shall verify it periodically.

Note : The procedure mentioned above shall be strictly followed and if the original FDR is not deposited with the Regional Office before the cut-off date, the proposed Institution shall not be visited and no further consideration shall be given to the proposal.

FORM A

6

The Regional officer
Southern Regional Office,
All India Council for Technical Education,
Shastri Bhavan,
26, Haddows Road,
Chennai - 600 006.

Subject : Creation of Fixed Deposit in the Joint name of the _____ and the Regional Officer _____ , AICTE for establishment of new institution/ programme.

Sir,

This is to certify that a Cumulative Fixed Deposit Receipt No. _____ dated ___/___/___ for Rs. _____ (Rupees _____ only) for the maturity period of 10 years from ___/___/___ to ___/___/___ in the joint name of _____ and the Regional Officer_____ has been created. The application for Fixed Deposit Certificate has been signed by Shri _____, President/Secretary on behalf of the Trust/ Society and Shri _____, Regional Officer on behalf of AICTE.

The Cumulative Fixed Deposit so created shall not be encashed, broken or utilised in any manner or for any other purpose before the maturity period and without obtaining clearance from the concerned Regional Officer, AICTE.

Thanking you,

Yours sincerely,

( )

Encl : a/a

copy to :

1. President/ Secretary of the Trust/ Society
2. Adviser(E&T), AICTE, I.G. Sports Complex, I.P. Estate, New Delhi.

ExtensionofApproval

AllIndia CouncilforTechnicalEducation

(AStatutorybodyunderMinistryofEducation, Govt. ofIndia)

NelsonMandelaMarg,VasantKunj,NewDelhi-110070Website:www.aicte-india.org

APPROVALPROCESS2021-22

Extensionof Approval(EoA)

F.No.Southern/1-9322192387/2021/EOA **Date:10-Jul-2021**

To,

ThePrincipalSecretary
(HigherEducation)Govt.ofTamilNadu,
N. K. M. Bld. 6th
FloorSecretariat,Chennai-
600009

Sub:ExtensionofApprovalfortheAcademicYear2021-22

Ref:ApplicationoftheInstitutionforExtensionofApprovalfortheAcademicYear2021-

22Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Education) (1stAmendment)Regulations, 2021 notified on 24th February 2021 and other notifications as applicable and published from time totime,I amdirectedtoconveytheapproval to

PermanentId	1-4378723	**ApplicationId**	1-9322192387
NameoftheInstitution /University	NELLAI COLLEGE OFENGINEERING	**NameoftheSociety/Trust**	MANARULHUDATRUST
Institution /UniversityAddress	MARUTHAKULAM P.O NANGUNERITALUK, TIRUNELVELI,TIRUNELVELI, TamilNadu,627151	**Society/TrustAddress**	EMKE MANZIL, MANACAUD,KALLATTUMUKKU, THIRUVANANTHAPURAM-9,KALLATTUMUKKU,TRIVANDRU M,Kerala,695009
Institution /UniversityType	Private-SelfFinancing	**Region**	Southern

ToconductfollowingPrograms/CourseswiththeIntakeindicatedbelowfortheAcademicYear2021-22

Program	Level	Course	Affiliating Body(University/ Body)	IntakeApprovedfor2020-21	IntakeApprovedfor2021-22	NRI Approval Status	FN / Gulfquota/ OCI/ApprovalStatus
ENGINEERING ANDTECHNOLOGY	UNDERGRADUATE	COMPUTERSCIENCE ANDENGINEERING	AnnaUniversity, Chennai	60	60	NA	NA
ENGINEERING ANDTECHNOLOGY	UNDERGRADUATE	ELECTRONICS &COMMUNICATIONENGG	AnnaUniversity, Chennai	60	60	NA	NA
ENGINEERING ANDTECHNOLOGY	UNDERGRADUATE	ELECTRICALANDELECTRONICSENGINEERING	AnnaUniversity, Chennai	60	60	NA	NA

ENGINEERING ANDTECHNOLOGY	UNDERGRADUATE	MECHANICAL ENGINEERING	AnnaUniversity, Chennai	60	60	NA	NA
ENGINEERING ANDTECHNOLOGY	UNDERGRADUATE	CIVILENGINEERING	AnnaUniversity, Chennai	60	60	NA	NA

ItismandatorytocomplywithalltheessentialrequirementsasgiveninAPH2021-22 (Appendix6)
TheInstitution/Universityishavingthefollowingdeficienciesas perthe onlineapplication submittedtoAICTE(self-disclosurebased)andthesameshallbecompliedwithinSix Months fromthedateofissue ofthis EoA

Deficiencies*Noted(basedonSelfDisclosure)
Establishment:InternalComplaintCommittee(ICC).

***PleasereferDeficiencyReportfordetails**

ImportantInstructions

1. **The State Government/ UT/ Directorate of Technical Education/ Directorate of Medical Education shall ensure that 10% ofreservation for Economically Weaker Section (EWS) as per the reservation policy for admission, operational from theAcademic year 2019-20 is implemented without affecting the reservation percentages of SC/ ST/ OBC/General. However,this would not be applicable in the case of Minority Institutions referred to the Clause (1) of Article 30 of Constitution ofIndia.SuchInstitutionshallbepermittedto increaseinannual permittedstrengthoveramaximumperiodoftwoyears.**

2. **The Institution offering courses earlier in the Regular Shift, First Shift, Second Shift/Part Time now amalgamated as totalintake shall have to fulfil all facilities such as Infrastructure, Faculty and other requirements as per the norms specified intheApprovalProcessHandbook2021-22fortheTotalApprovedIntake.Further,theInstitutionsDeemedtobeUniversities/InstitutionshavingAccreditation/Autonomy status shallhave tomaintain the Faculty:Studentratio asspecifiedintheApprovalProcessHandbook.**

3. **StrictcomplianceofAnti-RaggingRegulation,EstablishmentofCommitteeforSC/ST,EstablishmentofInternalComplaint Committee(ICC),Establishmentof Online Grievance Redressal Mechanism, Barrier Free Built Environmentfor disabled and elderly persons, Fire and Safety Certificate should be maintained as per the provisions made in ApprovalProcessHandbookand AICTERegulationnotifiedfromtimeto time.**

Prof.Rajive KumarMemberSecretary, AICTE

Copyto:**

1. **TheDirectorofTechnicalEducation**,TamilNadu**
2. **TheRegistrar**,**
   AnnaUniversity,Chennai
3. **ThePrincipal/Director,**
   NELLAICOLLEGEOFENGINEERING
   MaruthakulamP.ONanguneriTaluk,Tirunelveli,Tirunelveli,TamilNadu,627151
4. **TheSecretary/ Chairman,**

EMKE MANZIL, MANACAUD,
KALLATTUMUKKU,THIRUVANANTHAPURAM-
9KALLATTUMUKKU,TRIVANDRUM
Kerala,695009

5. **TheRegionalOfficer,**
All India Council
forTechnical
EducationShastriBhawan
26, Haddows RoadChennai
- 600 006, TamilNadu

6. **GuardFile(AICTE)**

Note:ValidityoftheCoursedetailsmaybeverifiedathttp://www.aicte-india.org/.

******IndividualApprovallettercopywillnot becommunicatedthroughPost/Email. However,consolidated listofApprovedInstitutions(bulk)willbesharedthroughofficialEmail Addresstotheconcerned Authoritiesmentioned above.

ThisisacomputergeneratedStatement.NosignatureRequired

NCEwasinauguratedbytheformerGovernorofTamilNadu,JusticeMs.M.FathimaBeevion7September2000.Approvedby AICTEandaffiliatedtoANNAUNIVERSITY.It isanISO9001:2015certifiedinstitution

FACILITIESINNCE

CLASSROOMS

We are proud to provide our students with such kind of healthy environment in the classrooms that arespacious,airy, wellequipped withlatestgadgets

AUDITORIUM

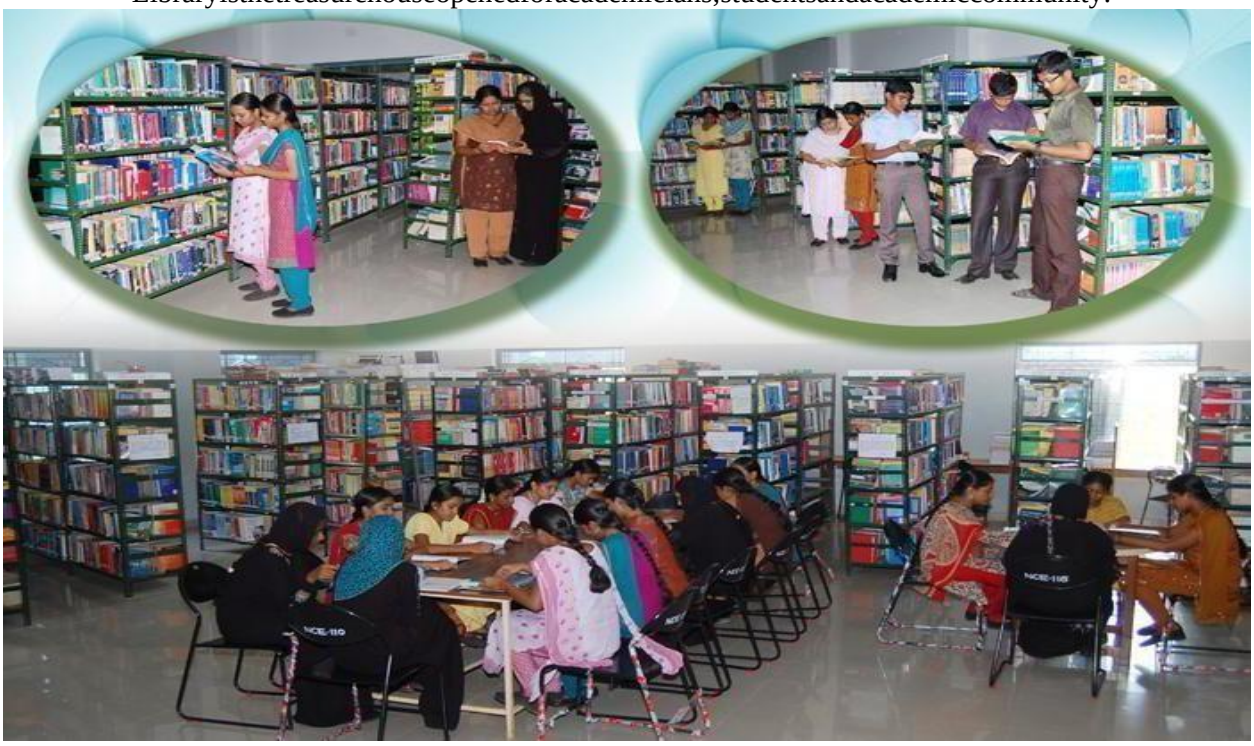
Ahuge 1000 seater indoorstadiumcumauditorium.

TRANSPORTFACILITIES

ThefullfledgedTransportdepartment plyingbusestoprovidetransportfacilityforstudents andstafffromvariousplaces

LIBRARY

Libraryisthetreasurehouseopenedforacademicians,studentsandacademiccommunity.

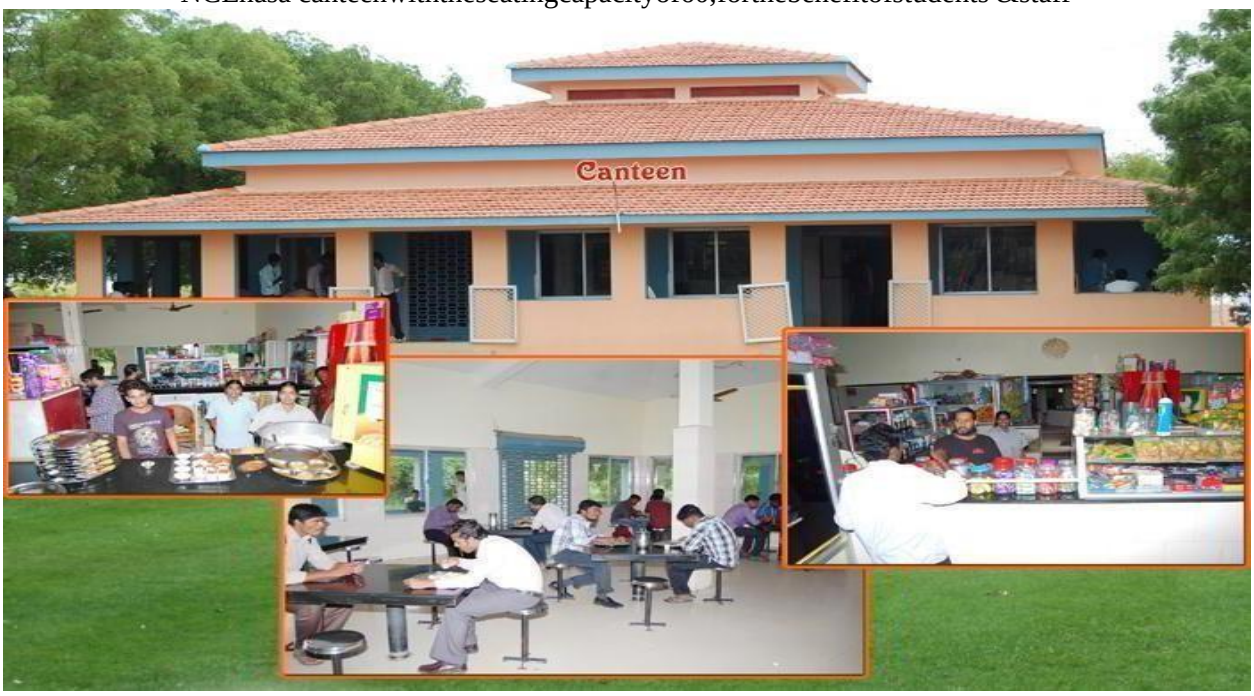


LabFACILITIES

Computerswith10Mbps InternetConnectivity

NCECANTEEN

NCEhasa canteenwiththeseatingcapacityof60,forthebenefitofstudents &staff

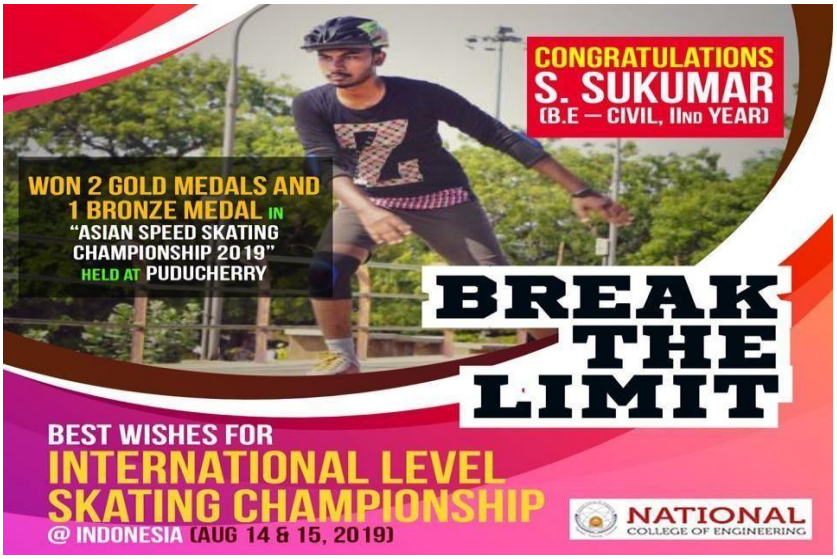


HOSTELFACILITIES

With the intention of providing comfort for students, separate hostels for boys and girls with cozy andaesthetically designed rooms with round-the-clock security, Dining halls, common study halls and prayer hallsare provided

SPORTSINNCE

Thedepartmentofphysicaleducationhasinfrastructuresforalltheindoorandoutdoorgames.activitiesarecarriedoutthroughoutthe year



NSS

The National Service Scheme (NSS) is an Indian government-sponsored public service program conducted bythe Department of Youth Affairs and Sports of the Government of India.The NSS Activities in CollegePremisesisinauguratedintheyear2002anditisfunctioningefficientlythroughNSSVolunteersfromVariousDepartments

EEELABORATORIES

WellequippedLaboratories

NELLAI COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

<table>
<tr><td>Nameofthe Faculty member</td><td colspan="3">Dr.M. JINNAH SHEIK MOHAMED</td><td rowspan="5">  </td></tr>
<tr><td>Designation</td><td colspan="3">PRINCIPAL</td></tr>
<tr><td>Department</td><td colspan="3">MECHANICAL ENGINEEIRNG</td></tr>
<tr><td>UniqueId</td><td colspan="3">1-1096522821</td></tr>
<tr><td rowspan="3">EducationalQualification with class/Grade</td><td>UG</td><td>PG</td><td>Ph.D.</td></tr>
<tr><td>B.E. Mechanical Engineering</td><td>M.E. Mechanical Engineering</td><td>Ph.D. in Mechanical Engineering</td></tr>
<tr><td>Distinction</td><td>Distinction</td><td>Not Applicable</td></tr>
<tr><td rowspan="2">TotalExperienceinYears</td><td>Teaching</td><td colspan="2">Industry</td><td>Research</td></tr>
<tr><td>15 Years 7Months</td><td colspan="2">—</td><td>8 Years</td></tr>
<tr><td rowspan="2">PapersPublished</td><td colspan="2">National</td><td colspan="2">International</td></tr>
<tr><td colspan="2">10</td><td colspan="2">21</td></tr>
<tr><td>ProjectsGuided</td><td colspan="4">48</td></tr>
<tr><td rowspan="2">PhD guide? Give field & University</td><td colspan="2">Field</td><td colspan="2">University</td></tr>
<tr><td colspan="2">Faculty of Mechanical Engineering</td><td colspan="2">Anna University</td></tr>
<tr><td>Funded Projects completed</td><td colspan="4">03</td></tr>
<tr><td>Patents</td><td colspan="4">Granted: 4 Filed: 2</td></tr>
<tr><td>Consultancy Projects carried out</td><td colspan="4">03</td></tr>
<tr><td>Books Published</td><td colspan="4">01-</td></tr>
<tr><td>Professional Bodies/Societies</td><td colspan="4">12 (ISTE, IE, SEA, IWS, IAENG, APMI, SCIEI, IRED)</td></tr>
<tr><td>AreaofSpecialization</td><td colspan="4">Engineering Design, Powder Metallurgy, Nano Composite coatings</td></tr>
<tr><td>CoursesTaught</td><td colspan="4">Engineering Graphics, Engineering Mechanics, Fluid Mechanics and Machinery, Strength of Materials, Dynamic of Machinery, Manufacturing Technology - I & II, Process Planning and Cost Estimation, Machine Design, Finite Element Analysis, Engineering Materials, Design of Machine Elements, Heat and Mass Transfer, Surface Engineering, Nanocomposites, Computer Applications in Design, Design of Jigs and Fixtures.</td></tr>
</table>

Name of the Teaching Staff*	**Mr. P.M.AKBAR HUSSAIN**			
				
Designation	**HOD / ASSISTANT PROFESSOR**			
Department	**MECHANICAL ENGINEERING**			
D.O.B	**01-06-1971**			
Unique ID	**1-1362239018**			
Educational Qualification	**Degree**	**Specialization**	**Year of passing**	**University**
	B.E	**MECH**	**1993**	**Madurai Kamaraj University**
	M.E	**THERMAL ENGINEERING**	**2011**	**Anna University**
Total Experience in Years	**Teaching**	**Industry**	**Research**	
	11Years9Months			
Papers Published	**-**			
Projects Guided	**25**			
Area of Specialization	THERMAL ENGINEERING			
Courses Taught	Thermal Engineering, Engineering Thermodynamics, Principles of management, Power Plant Engineering, Heat & Mass Transfer, Non-Traditional machining process, Automobile engineering			

	Mr.ALANGARAM.S

Name of Teaching Staff*	
Designation	**ASSISTANT PROFESSOR**
Department	**MECHANICAL ENGINEERING**
D.O.B	**16-07-1988**
Unique Id	**1-2190849888**

Educational Qualification

Degree	Specialization	Year of passing	University
B.E	MECH	2009	Anna University
M.E	ENGG.DESIGN	2013	Anna University

Total Experience in Years

Teaching	Industry	Research
10Years 9Months		

Papers Published	-
Projects Guided	23
Area of Specialization	ENGINEERING DESIGN
CoursesTaught	Theory of Machines, Design of Machine Elements, Fluid Mechanics and machinery, Strength of Materials and Engineering Graphics.

	Mr. MANIKANDAN N

<table>
<tr><td>Name of Teaching Staff*</td><td>  </td></tr>
<tr><td>Designation</td><td>ASSISTANT PROFESSOR</td></tr>
<tr><td>Department</td><td>MECHANICAL ENGINEERING</td></tr>
<tr><td>D.O.B</td><td>05-09-1989</td></tr>
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<tr><td>Area of Specialization</td><td>COMPUTER AIDED DESIGN</td></tr>
<tr><td>Courses Taught</td><td>Fluid Mechanics and Machinery, Engineering Graphics Total Quality Management, Principles of management.</td></tr>
</table>

	Mr. SANKARANARAYANAN C

<table>
<tr><td>Name of Teaching Staff*</td><td>  </td></tr>
<tr><td>Designation</td><td>ASSISTANT PROFESSOR</td></tr>
<tr><td>Department</td><td>MECHANICAL ENGINEERING</td></tr>
<tr><td>D.O.B</td><td>15-02-1980</td></tr>
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<tr><td>Area of Specialization</td><td>COMPUTER AIDED DESIGN</td></tr>
<tr><td>Courses Taught</td><td>Manufacturing Technology – I, Strength of Materials, Engineering Mechanics, Unconventional Machining Process.</td></tr>
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	Mr. RAJA RANJITH KUMAR P

<table>
<tr><td>Name of Teaching Staff*</td><td>  </td></tr>
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<tr><td>D.O.B</td><td>28-01-1992</td></tr>
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<tr><td>Courses Taught</td><td>Engineering Mechanics of Materials, Design of Machine Elements, Engineering Thermodynamics</td></tr>
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	Mr. NAGARAJAN S

<table>
<tr><td>Name of Teaching Staff*</td><td>  </td></tr>
<tr><td>Designation</td><td>ASSISTANT PROFESSOR</td></tr>
<tr><td>Department</td><td>MECHANICAL ENGINEERING</td></tr>
<tr><td>D.O.B</td><td>18.04.1991</td></tr>
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<tr><td>Area of Specialization</td><td>THERMAL ENGINEERING</td></tr>
<tr><td>Courses Taught</td><td>Thermal Engineering, Thermodynamics, Heat and mass transfer, Design of machine elements.</td></tr>
</table>

	Mr. RAVIKRISHNAN M

Name of Teaching Staff*	
Designation	**ASSISTANT PROFESSOR**
Department	**MECHANICAL ENGINEERING**
D.O.B	**07-03-1978**
Unique Id	1-2198306457

Educational Qualification

Degree	Specialization	Year of passing	University
B.E	**MECH**	**2000**	**Anna University**
M.E	**CAD**	**2014**	**Anna University**

Total Experience in Years

Teaching	Industry	Research
9Years 10Months		

Papers Published	**-**
Projects Guided	**15**
Area of Specialization	COMPUTER AIDED DESIGN
Courses Taught	Strength of Materials, Engineering Mechanics, Unconventional Machining Process, Kinematics of Machines, Computer Integrated Manufacturing Systems.

	Mr. GANESH KUMAR P

Name of Teaching Staff*	
Designation	**ASSISTANT PROFESSOR**
Department	**MECHANICAL ENGINEERING**
D.O.B	**29-07-1990**
Unique Id	**1-2190882683**

Educational Qualification	**Degree**	**Specialization**	**Year of passing**	**University**
	B.E	**MECH**	**2011**	**Anna University**
	M.E	**ENGG.DESIGN**	**2013**	**Anna University**

Total Experience in Years	**Teaching**	**Industry**	**Research**
	10Years 9Months		

Papers Published	**-**
Projects Guided	**15**
Area of Specialization	ENGINEERING DESIGN
Courses Taught	Manufacturing Technology – I & II, Design of Machine Elements, Design of Transmission.

Name of Teaching Staff*	**Mr. VELMURUGAN M**

Designation	**ASSISTANT PROFESSOR**
Department	**MECHANICAL ENGINEERING**
D.O.B	**05-01-1985**
Unique Id	1-9472219939

Educational Qualification

Degree	Specialization	Year of passing	University
B.E	**MECH**	**2011**	**Anna University**
M.E	**ENERGY ENGG.**	**2014**	**Anna University**

Total Experience in Years

Teaching	Industry	Research
4Years		

Papers Published	**-**
Projects Guided	**6**
Area of Specialization	ENERGY ENGINEERING
Courses Taught	Heat and Mass Transfer, Thermal Engineering – I & II, Power Plant Engineering.
	Mr. DEVAMONISH D

<table>
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<tr><td>Department</td><td colspan="4">MECHANICAL ENGINEERING</td></tr>
<tr><td>D.O.B</td><td colspan="4">05-11-1996</td></tr>
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<tr><td>Area of Specialization</td><td colspan="4">ENGINEERING DESIGN</td></tr>
<tr><td>Courses Taught</td><td colspan="4">Testing of Materials, Power Plant Engineering.</td></tr>
</table>

Name of Teaching Staff*	**Mrs. ANULA BEAUTY S**
	
Designation	**ASSISTANT PROFESSOR AND HEAD**
Department	**Electrical and Electronics Engineering**
D.O.B	14-05-1982
Unique Id	1443573883

Educational Qualification

Degree	Specialization	Year of passing	University
B.E	**EEE**	**2003**	**Anna University**
M.E	**HIGH VOLTAGE ENGINEERING**	**2010**	**Anna University**

Total Experience in Years

Teaching	Industry	Research
16 YEARS 7 MONTHS	0	0

Papers Published	**1**
Projects Guided	**20**
Area of Specialization	HIGH VOLTAGES ENGINEERING
CoursesTaught	High voltage engineering, electronics devices and circuits, power plant engineering, protection and switchgear, measurements and instrumentation, basic electrical and electronics engineering, principle of management.
Name of Teaching Staff*	**Mr. SUBASH V**

<table>
<tr><td></td><td>  </td></tr>
<tr><td>Designation</td><td>ASSISTANTPROFESSOR</td></tr>
<tr><td>Department</td><td>Electrical and Electronics Engineering</td></tr>
<tr><td>D.O.B</td><td>28-09-1983</td></tr>
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<tr><td>Area of Specialization</td><td>POWER ELECTRONICS</td></tr>
<tr><td>Courses Taught</td><td>Basic electrical and electronics engineering, circuit theory,Power electronics and drives, solid state drives, hvdc transmission, renewable energy systems, power electronics for renewable energy,FACTS,</td></tr>
</table>

Name of Teaching Staff*	**MS. RAJALAKSHMI A**

Designation	**ASSISTANT PROFESSOR**
Department	**Electrical and Electronics Engineering**
D.O.B	07-08-1994
Unique Id	110650274387

Educational Qualification

Degree	**Specialization**	**Year of passing**	**University**
B.E	**EEE**	**2016**	**Anna University**
M.E	**PED**	**2018**	**Anna University**

Total Experience in Years

Teaching	**Industry**	**Research**
2 years 7 months	0	0

Papers Published	**0**
Projects Guided	**2**
Area of Specialization	Power electronics and drives
CoursesTaught	Transmission and distribution, electromagnetic theory, basic electrical, electronics and instrumentation engineering

	MRS. HAJERAL N

Name of Teaching Staff*	
Designation	**ASSISTANT PROFESSOR**
Department	**Electrical and Electronics Engineering**
D.O.B	29-10-1985
Unique Id	19313578708

Educational Qualification	Degree	Specialization	Year of passing	University
	B.E	**EEE**	**2006**	**Anna University**
	M.E	**PED**	**2010**	**Anna University**

Total Experience in Years	Teaching	Industry	Research
	2 years 1 months	0	0

Papers Published	**0**
Projects Guided	**2**
Area of Specialization	Power electronics and drives
Courses Taught	Electronic devices and circuits, protection and switchgear
Name of Teaching Staff*	**MR. SYED MOHAMED MUZZAMMIL M H**

Designation	**ASSISTANT PROFESSOR**
Department	**Electrical and Electronics Engineering**
D.O.B	12-04-1987
Unique Id	19313578778

Educational Qualification	**Degree**	**Specialization**	**Year of passing**	**University**
	B.E	**EEE**	**2010**	**Anna University**
	M.E	**APPLIED ELECTRONICS**	**2014**	**Anna University**

Total Experience in Years	**Teaching**	**Industry**	**Research**
	2 years 1 months	0	0

Papers Published	**0**
Projects Guided	**5**
Area of Specialization	Control and instrumentation engineering
Courses Taught	Embedded systems, basic electrical and electronics engineering, power system analysis, electrical machines i

	MRS. HAMEETHA SHIREEN O K

Name of Teaching Staff*	
Designation	**ASSISTANT PROFESSOR**
Department	**Electrical and Electronics Engineering**
D.O.B	12-09-1986
Unique Id	111273438088

Educational Qualification	**Degree**	**Specialization**	**Year of passing**	**University**
	B.E	**EEE**	**2008**	**Anna University**
	M.E	**POWER ELECTRONICS AND DRIVES**	**2021**	**Anna University**

Total Experience in Years	**Teaching**	**Industry**	**Research**
	2 years 1 months	0	0

Papers Published	**0**
Projects Guided	**5**
Area of Specialization	Control and instrumentation engineering
Courses Taught	Embedded systems, basic electrical and electronics engineering, power system analysis, electrical machines i

	MRS. AMUTHA M

Designation	**ASSISTANT PROFESSOR**
Department	**Electrical and Electronics Engineering**
D.O.B	30-05-1982
Unique Id	143808325945

Educational Qualification

Degree	Specialization	Year of passing	University
B.E	**EEE**	**2003**	**Anna University**
M.E	**Control and Instrumentation Engineering**	**2012**	**Anna University**

Total Experience in Years

Teaching	Industry	Research
5 years 8 months	0	0

Papers Published	**0**
Projects Guided	**5**
Area of Specialization	Control and instrumentation engineering
Courses Taught	Embedded systems, basic electrical and electronics engineering, power system analysis, electrical machines i

	Mrs. SARASWATHI I

Name of Teaching Staff*	
Designation	**ASSISTANTPROFESSOR**
Department	**Electrical and Electronics Engineering**
D.O.B	25-05-1999
Unique Id	

Educational Qualification	**Degree**	**Specialisation**	**Year of passing**	**Universty**
	B.E	**EEE**	**2020**	**Anna University**
	M.E	**EMBEDDEDAND REAL TIME SYSTEMS**	**2022**	**Anna University**

Total Experience in Years	**Teaching**	**Industry**	**Research**
	8 MONTHS	0	0

Papers Published	**0**
Projects Guided	**0**
Area of Specialization	EMBEDDED SYSTEMS
CoursesTaught	Smart gird, power system transient, measurement and instrumentation.
Name of Teaching Staff*	**Mr. M. MOHAMED MAHDHOOM RIYAS**

<table>
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<tr><td>CoursesTaught</td><td>Electrical machines, FACTS</td></tr>
<tr><td>Name of Teaching Staff*</td><td>Mr. SURIYAKUMAR V</td></tr>
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Designation	**ASSISTANTPROFESSOR**			
Department	**Electrical and Electronics Engineering**			
D.O.B	**20-05-1997**			
Unique Id				
Educational Qualification	**Degree**	**Specialisation**	**Year of passing**	**Universty**
	B.E	**EEE**	**2018**	**Anna University**
	M.E	**PED**	**2023**	**Anna University**
Total Experience in Years	**Teaching**	**Industry**	**Research**	
	1 MONTH	0	0	
Papers Published	**0**			
Projects Guided	**0**			
Area of Specialization	POWER ELECTRONICS			
Courses Taught	Basic electrical and electronics engineering.			

NELLAI COLLEGE OF ENGINEERING

DEPARTMENT OF ELECRONICS AND COMMUNICATION ENGINEERING

<table>
<tr><td rowspan="2">Name of Teaching Staff*</td><td colspan="4">Mrs MR. PEER MOHAMED M</td></tr>
<tr><td colspan="4">  </td></tr>
<tr><td>Designation</td><td colspan="4">HOD / ASSISTANT PROFESSOR</td></tr>
<tr><td>Department</td><td colspan="4">ELECTRONICS AND COMMUNICATIONENGINEERING</td></tr>
<tr><td>D.O.B</td><td colspan="4">18-07-1984</td></tr>
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<tr><td>Courses Taught</td><td colspan="4">Electromagnetic Field ,Transmission lines and Waves, Antenna and Microwave Engineering, Communication System</td></tr>
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<table>
<tr><td>Name of Teaching Staff*</td><td>Mrs A. JESLIN SISMA
  </td></tr>
<tr><td>Designation</td><td>ASSISTANT PROFESSOR</td></tr>
<tr><td>Department</td><td>ELECTRONICS AND COMMUNICATIONENGINEERING</td></tr>
<tr><td>D.O.B</td><td>02.09.1986</td></tr>
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<tr><td>Area of Specialization</td><td>Communication Systems</td></tr>
<tr><td>Courses Taught</td><td>Wireless Communication, Linear Integrated Circuits, Digital System Design, Embedded and IOT .</td></tr>
</table>

	Mrs. T. ROSELINE SATHYA

Name of Teaching Staff*	
Designation	**ASSISTANT PROFESSOR**
Department	**ELECTRONICS AND COMMUNICATIONENGINEERING**
D.O.B	07.06.1988
UniqueId	143369510628

Educational Qualification

Degree	Specialisation	Year of passing	Universty
B.E	**ECE**	**2009**	**Anna University**
M.E	**CS**	**2011**	**Anna University**

Total Experience in Years

Teaching	Industry	Research
1Year 8 Months		

Papers Published	
Projects Guided	**1**
Area of Specialization	Communication Systems
Courses Taught	Optical Communication, Signals and System, Communication System, Wireless sensor network design

	MR. JAHABAR SATHIC S

<table>
<tr><td>Name of Teaching Staff*</td><td>  </td></tr>
<tr><td>Designation</td><td>ASSISTANT PROFESSOR</td></tr>
<tr><td>Department</td><td>ELECTRONICS AND COMMUNICATIONENGINEERING</td></tr>
<tr><td>D.O.B</td><td>27-05-1989</td></tr>
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<tr><td>Area of Specialization</td><td>Communication Systems</td></tr>
<tr><td>Courses Taught</td><td>Satellite Communication, Circuit Analysis, Communication System, Embedded System</td></tr>
</table>

	Mrs. KALIMA BENAZIR P

Name of Teaching Staff*	
Designation	**ASSISTANT PROFESSOR**
Department	**ELECTRONICS AND COMMUNICATION ENGINEERING**
D.O.B	08-11-1992
Unique Id	19490922945

Educational Qualification

Degree	Specialisation	Year of passing	Universty
B.E	**ECE**	**2014**	**Anna University**
M.E	**Applied Electronics**	**2016**	**Anna University**

Total Experience ein Years

Teaching	Industry	Research
4Years 2 Months		

Papers Published	**2**
Project Guided	**4**
Area of Specialization	Digital Electronics, Wireless Sensor Networks
Courses Taught	Digital Principles and System Design, Microprocessor and Microcontroller, Advanced Microprocessor, Digital Signal Processing, Signals and Systems, Linear Integrated Circuits, Electronic Devices, Wireless Communication

	MRS. SUBAITHA JANNATH A

Name of Teaching Staff*	
Designation	**ASSISTANT PROFESSOR**
Department	**ELECTRONICS AND COMMUNICATION ENGINEERING**
D.O.B	31-03-1993
UniqueId	111044542721

Educational Qualification	**Degree**	**Specialisation**	**Year of passing**	**Universty**
	B.E	**ECE**	**2014**	**Anna University**
	M.E	**Communication System**	**2016**	**Anna University**

Total Experience in Years	**Teaching**	**Industry**	**Research**
	2 Years 1 Month		

Papers Published	
Projects Guided	**2**
Area of Specialization	Communication Systems
Courses Taught	Linear Integrated Circuits , Communication System, Embedded System, Digital Electronics

	Ms. PACKIAPRABA J

Name of Teaching Staff*	
Designation	**ASSISTANT PROFESSOR**
Department	**ELECTRONICS AND COMMUNICATION ENGINEERING**
D.O.B	23-05-1989
UniqueId	

Educational Qualification	**Degree**	**Specialisation**	**Year of passing**	**Universty**
	B.E	**ECE**	**2010**	**Anna University**
	M.E	**Applied Eleectronics**	**2012**	**Anna University**

Total Experience in Years	**Teaching**	**Industry**	**Research**
	1 Years 8 Months		

Papers Published	**2**
Projects Guided	**1**
Area of Specialization	Digital Electronics, Low Power Vlsi
Courses Taught	Digital Principles and System Design, Digital Electronics, Wireless Communication, Measurements and Instrumentation

	MRS. ANTO FELICITA D

Name of Teaching Staff*	
Designation	**ASSISTANT PROFESSOR**
Department	**ELECTRONICS AND COMMUNICATION ENGINEERING**
D.O.B	25-09-1993
UniqueId	

Educational Qualification	**Degree**	**Specialisation**	**Year of passing**	**Universty**
	B.E	**ECE**	**2015**	**Anna University**
	M.E	**VLSI**	**2017**	**Anna University**

Total Experience in Years	**Teaching**	**Industry**	**Research**
	1 Years 3 Months		

Papers Published	
Projects Guided	**1**
Area of Specialization	Digital Electronics, Low Power VLSI
Courses Taught	Digital Principles and System Design, Digital Electronics, Wireless Communication, Measurements and Instrumentation,VLSI

NELLAI COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

<table>
<tr><td>Name of Teaching Staff*</td><td>MRS. PITCHAMMAL G.
  </td></tr>
<tr><td>Designation</td><td>ASSISTANTPROFESSOR</td></tr>
<tr><td>Department</td><td>COMPUTER SCIENCE AND ENGINEEERING</td></tr>
<tr><td>D.O.B</td><td>27-05-1984</td></tr>
<tr><td>Unique Id</td><td>1445428943</td></tr>
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<tr><td>Courses Taught</td><td>Signals and System ,Digital Signal Processing, Electron Devices and Circuits,Fundamental of Computing, Embedded System, Microprocessor and Microcontrollers,Computer Architecture, Principles of communication, Digital System and design ,Mobile communication , Operating System, Telecommunication System, Antennas andwave propagation , Digital Electronics, Digital Image Processing, Data mining and warehousing , Databasemanagement System…etc..</td></tr>
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<tr><td rowspan="3">Name of Teaching Staff*</td><td>MRS. DHANU BRINDHA M</td></tr>
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<tr><td>Designation</td><td>ASSISTANTPROFESSOR</td></tr>
<tr><td>Department</td><td>COMPUTER SCIENCE</td></tr>
<tr><td>D.O.B</td><td>16-03-1991</td></tr>
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<tr><td>Papers Published</td><td>-</td></tr>
<tr><td>Projects Guided</td><td>2</td></tr>
<tr><td>Area of Specialization</td><td>Artificial Intelligence</td></tr>
<tr><td>Courses Taught</td><td>Problem Solving and Python Programming, Artificial Intelligence, Computer Networks, Foundations of Data Science</td></tr>
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<tr><td rowspan="2">Name of Teaching Staff*</td><td colspan="4">Mrs. RAMALAKSHMI S M</td></tr>
<tr><td colspan="4">  </td></tr>
<tr><td>Designation</td><td colspan="4">ASSISTANT PROFESSOR</td></tr>
<tr><td>Department</td><td colspan="4">COMPUTER SCIENCE</td></tr>
<tr><td>D.O.B</td><td colspan="4">18-01-1995</td></tr>
<tr><td>Unique Id</td><td colspan="4"></td></tr>
<tr><td rowspan="3">Educational Qualification</td><td>Degree</td><td>Specilization</td><td>Year of Passing</td><td>University Name</td></tr>
<tr><td>B.E</td><td>CSE</td><td>2016</td><td>ANNA UNIVERSITY</td></tr>
<tr><td>M.E</td><td>CSE</td><td>2018</td><td>ANNA UNIVERSITY</td></tr>
<tr><td rowspan="2">Total ExperienceinYears</td><td>Teaching</td><td colspan="2">Industry</td><td>Research</td></tr>
<tr><td>7 MONTHS</td><td colspan="2"></td><td></td></tr>
<tr><td>Papers Published</td><td colspan="4"></td></tr>
<tr><td>Projects Guided</td><td colspan="4"></td></tr>
<tr><td>Area of Specialization</td><td colspan="4">Image Processing</td></tr>
<tr><td>Courses Taught</td><td colspan="4">Object Oriented Programming, Digital Principles and Computer Organization</td></tr>
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<table>
<tr><td rowspan="2">NameofTeachingStaff*</td><td colspan="4">MRS. UMMU SABURA H</td></tr>
<tr><td colspan="4">  </td></tr>
<tr><td>Designation</td><td colspan="4">ASSISTANT PROFESSOR</td></tr>
<tr><td>Department</td><td colspan="4">COMPUTER SCIENCE</td></tr>
<tr><td>D.O.B</td><td colspan="4">05-03-1994</td></tr>
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<tr><td>B.E</td><td>CSE</td><td>2015</td><td>ANNA UNIVERSITY</td></tr>
<tr><td>M.E</td><td>CSE</td><td>2017</td><td>ANNA UNIVERSITY</td></tr>
<tr><td rowspan="2">Total ExperienceinYears</td><td colspan="2">Teaching</td><td>Industry</td><td>Research</td></tr>
<tr><td colspan="2">1 YEAR 8 MONTHS</td><td></td><td></td></tr>
<tr><td>PapersPublished</td><td colspan="4">-</td></tr>
<tr><td>ProjectsGuided</td><td colspan="4">1</td></tr>
<tr><td>AreaofSpecialization</td><td colspan="4">Wireless Sensor Network, Machine Learning, IoT</td></tr>
<tr><td>CoursesTaught</td><td colspan="4">Programming in C, Computer Networks, Communication Networks, Compiler Design, Foundations of Data Science, Introduction to Operating Systems, Hospital Management</td></tr>
</table>

<table>
<tr><td rowspan="2">NameofTeachingStaff*</td><td colspan="3">MRS. SUJITHA S K</td></tr>
<tr><td colspan="3">  </td></tr>
<tr><td>Designation</td><td colspan="3">ASSISTANT PROFESSOR</td></tr>
<tr><td>Department</td><td colspan="3">COMPUTER SCIENCE</td></tr>
<tr><td>D.O.B</td><td colspan="3">17-06-1983</td></tr>
<tr><td>UniqueId</td><td colspan="3">19316301621</td></tr>
<tr><td rowspan="3">Educational Qualification</td><td>Degree</td><td>Specilization</td><td>Year of Passing</td></tr>
<tr><td>B.E</td><td>CSE</td><td>2004</td></tr>
<tr><td>M.E</td><td>CSE</td><td>2012</td></tr>
<tr><td rowspan="2">Total Experience in Years</td><td>Teaching</td><td>Industry</td><td>Research</td></tr>
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<tr><td>Projects Guided</td><td colspan="3">3</td></tr>
<tr><td>AreaofSpecialization</td><td colspan="3">Data Mining,Data Structures,Computer Networks</td></tr>
<tr><td>CoursesTaught</td><td colspan="3">Problem Solving and Python Programming, Programming in C, Database And Management System, Operating System</td></tr>
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<table>
<tr><td>Name of Teaching Staff</td><td colspan="4">MRS. STEFFI E</td></tr>
<tr><td></td><td colspan="4">  </td></tr>
<tr><td>Designation</td><td colspan="4">ASSISTANT PROFESSOR</td></tr>
<tr><td>Department</td><td colspan="4">COMPUTER SCIENCE</td></tr>
<tr><td>D.O.B</td><td colspan="4">24-02-1993</td></tr>
<tr><td>UniqueId</td><td colspan="4">17501119015</td></tr>
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<tr><td>B.E</td><td>CSE</td><td>2014</td><td>ANNA UNIVERSITY</td></tr>
<tr><td>M.E</td><td>CSE</td><td>2017</td><td>ANNA UNIVERSITY</td></tr>
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<tr><td>ProjectsGuided</td><td colspan="4">2</td></tr>
<tr><td>AreaofSpecialization</td><td colspan="4">Database Management System</td></tr>
<tr><td>CoursesTaught</td><td colspan="4">Problem Solving and Python Programming, Object Oriented Programming, Theory of Computation, Computer Organization and Architecture, Distributed Computing</td></tr>
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<table>
<tr><td>Name of Teaching Staff</td><td>Mr.A.S.IBRAHIM SADIQ
  </td></tr>
<tr><td>Designation</td><td>ASSISTANT PROFESSOR</td></tr>
<tr><td>Department</td><td>COMPUTER SCIENCE</td></tr>
<tr><td>D.O.B</td><td>28-01-1990</td></tr>
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<tr><th>Degree</th><th>Specilization</th><th>Year of Passing</th><th>University Name</th></tr>
<tr><td>B.E</td><td>CSE</td><td>2011</td><td>ANNA UNIVERSITY</td></tr>
<tr><td>M.E</td><td>CSE</td><td>2013</td><td>ANNA UNIVERSITY</td></tr>
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<tr><td>AreaofSpecialization</td><td>Artificial Intelligence, Python, Object Oriented Programming</td></tr>
</table>

CoursesTaught	Problem Solving and Python Programming, Object Oriented Programming, Artificial Intelligence and Machine Learning

NameofTeachingStaff*	**Mrs. RABIYATHUL HUSSAINA M**			
				
Designation	**ASSISTANT PROFESSOR**			
Department	**COMPUTER SCIENCE AND ENGINEERING**			
D.O.B	26-10-1991			
Unique Id	143819247882			
EducationalQualification	**Degree**	**Specilization**	**Year of Passing**	**University Name**
	B.E	**CSE**	**2013**	**ANNA UNIVERSITY**
	M.E	**CSE**	**2017**	**ANNA UNIVERSITY**
TotalExperienceinYears	**Teaching**	**Industry**	**Research**	
	3 Months			
PapersPublished	-			

ProjectsGuided	-
AreaofSpecialization	OOAD,Software Engineering,Computer Networks
CoursesTaught	Object Oriented Software Engineering,Computer Networks

Name of Teaching Staff*	**Ms. SOBANA V**			
				
Designation	**ASSISTANTPROFESSOR**			
Department	**COMPUTER SCIENCE AND ENGINEERING**			
D.O.B	31.05.1993			
Unique Id	143821533611			
EducationalQualification	**Degree**	**Specialization**	**Year of Passing**	**University Name**
	B.E	**CSE**	**2019**	**ANNA UNIVERSITY**
	M.E	**CSE**	**2021`**	**ANNA UNIVERSITY**
Total Experience in Years	**Teaching**	**Industry**		**Research**
	3 months			
PapersPublished	**-**			

ProjectsGuided	-
AreaofSpecialization	Data Mining,Operating Systems
CoursesTaught	Operating Systems,Software Defined Networks

Name of Teaching Staff*	**MS. VIJI S** 
Designation	**ASSISTANTPROFESSOR**
Department	**COMPUTER SCIENCE AND ENGINEERING**
D.O.B	31-01-1993
Unique Id	143821533611

EducationalQualification

Degree	Specialization	Year of Passing	University Name
B.E	CSE	2015	ANNA UNIVERSITY
M.E	CSE	2018	ANNA UNIVERSITY

Total Experience in Years

Teaching	Industry	Research
1Year 11 months		

PapersPublished	-
ProjectsGuided	-
AreaofSpecialization	Networking
CoursesTaught	Network Security, Algorithms, Theory of Computation, Disaster and Risk Deduction, Distributed Systems

NELLAI COLLEGE OF ENGINEERING

DEPARTMENT OF **B.TECH.-ARTIFICIAL INTELLIGENCE AND DATA SCIENCE**

Name of TeachingStaff*	**Mrs. DEEPA M**
	
Designation	**ASSISTANT PROFESSOR**
Department	**B.Tech.-Artificial Intelligence And Data Science**
D.O.B	06-08-1980

Unique Id	1-43844636156			
Educational Qualification	**Degree**	**Specialization**	**Year of passing**	**University Name**
	B.E	**CSE**	**2002**	**Anna University**
	M.E	**CSE**	**2012**	**Anna University**

TotalExperienceinYears	**Teaching**	**Industry**	**Research**
	13	1	-
PapersPublished	**-**		
ProjectsGuided	**15**		
AreaofSpecialization	Compiler Design ,Networking,WirelessSensorNetworks,		
CoursesTaught	Computer Networks,TOC,Compiler Design,Data Stuctures,Computer Graphics,OOPS		

NameofTeachingStaff*	**Ms.Farhana.J**
	
Designation	**ASSISTANTPROFESSOR**
Department	**Artificial Intellegence And Data Science**

D.O.B	31.05.1993			
Unique Id	AU1			
EducationalQualification	**Degree**	**Specialization**	**Year of passing**	**University Name**
	B.E	**ECE**	**2014**	**Anna University**
	M.E	**Applied Electronics**	**2018**	**Anna University**
TotalExperienceinYears	**Teaching**	**Industry**	**Research**	
	3 Months			
PapersPublished	**-**			
ProjectsGuided	-			
AreaofSpecialization	Networking,WirelessSensorNetworks, InternetProgramming			
CoursesTaught	-			

NELLAI COLLEGE OF ENGINEERING

DEPARTMENT OF **B.E-CSE(CYBER SECURITY)**

	DR. MOHIDEEN ABDUL KADHAR.S

<table>
<tr><td>NameofTeachingStaff*</td><td colspan="4">  </td></tr>
<tr><td>Designation</td><td colspan="4">PROFESSOR/Department Head</td></tr>
<tr><td>Department</td><td colspan="4">B.E-CSE(CYBER SECURITY)</td></tr>
<tr><td>D.O.B</td><td colspan="4">20.04.1969</td></tr>
<tr><td>Unique Id</td><td colspan="4">AU1</td></tr>
<tr><td rowspan="4">Educational Qualification</td><td>Degree</td><td>Specialization</td><td>Year of passing</td><td>University Name</td></tr>
<tr><td>B.E</td><td>ECE</td><td>1990</td><td>M.K University</td></tr>
<tr><td>M.E</td><td>Digital Communication Networking</td><td>2002</td><td>M.K University</td></tr>
<tr><td>Ph.D</td><td>I.T</td><td>2008</td><td>Anna University</td></tr>
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<tr><td>AreaofSpecialization</td><td colspan="4">Networking</td></tr>
<tr><td>CoursesTaught</td><td colspan="4">C PROGRAMMING ,Data Structures,Software Engineering,OOPS,Java Programming,Operating Systems,Digital Systems.</td></tr>
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<tr><td rowspan="2">NameofTeachingStaff*</td><td>MRS. SAMEENA BANU K</td></tr>
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<tr><td>Department</td><td>B.E-CSE(CYBER SECURITY)</td></tr>
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<tr><td rowspan="2">NameofTeachingStaff*</td><td colspan="4">Mrs.Yazhini.G</td></tr>
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<tr><td>Designation</td><td colspan="4">ASSISTANTPROFESSOR</td></tr>
<tr><td>Department</td><td colspan="4">B.E (CSE) (Cyber Security)</td></tr>
<tr><td>D.O.B</td><td colspan="4">17.11.1991</td></tr>
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<tr><td>M.E</td><td>Communication System</td><td>2018</td><td>Anna University</td></tr>
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<tr><td>Papers Published</td><td colspan="4">-</td></tr>
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NELLAI COLLEGE OF ENGINEERING

DEPARTMENT OF SCIENCE AND HUMANITIES

<table>
<tr><td rowspan="2">Name of Teaching Staff*</td><td colspan="3">Mrs.P.PARVATHAVARTHINI</td></tr>
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<tr><td>Designation</td><td colspan="3">AP/HOD</td></tr>
<tr><td>Department</td><td colspan="3">SCIENCE AND HUMANITIES</td></tr>
<tr><td>D.O.B</td><td colspan="3">17-09-1973</td></tr>
<tr><td>UniqueId</td><td colspan="3">1-435860109</td></tr>
<tr><td>EducationalQualification</td><td colspan="3">M.Sc., M.Phil.</td></tr>
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<tr><td>ProjectsGuided</td><td colspan="3">–</td></tr>
<tr><td>AreaofSpecialization</td><td colspan="3">PHYSICS</td></tr>
<tr><td>CoursesTaught</td><td colspan="3">Engineering Physics
Physics for Information Science
Physics for Electrical Engineering
Physics for Electronics Engineering
Materials Science
Physics for Civil Engineering</td></tr>
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Name of Teaching Staff*	**G.BARAKKATH ALIAS BEEMAMMA**		
			
Designation	**AP/ENGLISH**		
Department	**SCIENCE AND HUMANITIES**		
D.O.B	20-05-1979		
UniqueId	1-43370929057		
EducationalQualification	M.A., M.Phil.		
TotalExperienceinYears	**Teaching**	**Industry**	**Research**
	10Years 6 Months	–	–
PapersPublished	–		
ProjectsGuided	–		
AreaofSpecialization	ENGLISH		
CoursesTaught	TECHNICAL ENGLISH-I TECHNICAL ENGLISH-II PROFESSIONAL ENGLISH-I PROFESSIONAL ENGLISH-II COMMUNICATICE ENGLISH PROFESSIONAL COMMUNICATION ENGLISH COMMUNICATION SKILLS ENGLISH COMMUNICATION SKILLS AND FOREIGN LANGUAGES. SOFTSKILLS LABORATORY		
Name of Teaching Staff*	**Mrs.M.NILOFER NISHA**		

	
Designation	**AP/MATHEMATICS**
Department	**SCIENCE AND HUMANITIES**
D.O.B	19-10-1986
UniqueId	1-2191401882
EducationalQualification	**M.Sc., M.Phil.**

TotalExperienceinYears	**Teaching**	**Industry**	**Research**
	12Years 1Months	–	–

PapersPublished	**–**
ProjectsGuided	–
AreaofSpecialization	MATHEMATICS
CoursesTaught	Matrices and Calculus Discrete Mathematics Linear Algebra and Random Processes Algebra and Number Theory Statistics And Numerical Methods Engineering Mathematics –I Engineering Mathematics –II TRANSFORMS & PARTIAL DIFFERENTIAL EQUATIONSLINEARALGEBRA&PARTIALDIFFERENTIALE QUATIONS Graph Theory Probability & Queueing Theory Probability & Random Process

	Mrs. M.YASMIN
	

Name of Teaching Staff*			
Designation	**AP/ENGLISH**		
Department	**SCIENCE AND HUMANITIES**		
D.O.B	10-04-1996		
UniqueId			
EducationalQualification	**M.A., M.Phil.**		
TotalExperienceinYears	**Teaching**	**Industry**	**Research**
	1Year 6 Months	–	–
PapersPublished	**2**		
ProjectsGuided	–		
AreaofSpecialization	ENGLISH		
CoursesTaught	Professional English-I Professional English-II Communication Laboratory		

Name of Teaching Staff*	**Mr. MUJIB MOHAMMED MUSTAFFA.K**

	
Designation	**AP/MATHEMATICS**
Department	**SCIENCE AND HUMANITIES**
D.O.B	21-08-1985
UniqueId	1-436242597
EducationalQualification	**M.Sc., M.Phil.**

TotalExperienceinYears	**Teaching**	**Industry**	**Research**
	15Years 0 Months	–	–

PapersPublished	_
ProjectsGuided	_
AreaofSpecialization	MATHEMATICS
CoursesTaught	Matrices and Calculus Discrete Mathematics Linear Algebra and Random Processes Algebra and Number Theory Statistics And Numerical Methods Engineering Mathematics –I Engineering Mathematics –II TRANSFORMS & PARTIAL DIFFERENTIAL EQUATIONSLINEARALGEBRA&PARTIALDIFFERENTIALE QUATIONS Graph Theory Probability & Queueing Theory Probability & Random Process

	Mr. PRINCE. A

Name of Teaching Staff*			
Designation	**AP/CHEMISTRY**		
Department	**SCIENCE AND HUMANITIES**		
D.O.B	16-09-1983		
UniqueId	1-2949013595		
EducationalQualification	**M.Sc., M.Phil.**		
TotalExperienceinYears	**Teaching**	**Industry**	**Research**
	11 Years 4 Months	–	–
PapersPublished	–		
ProjectsGuided	–		
AreaofSpecialization	CHEMISTRY		
CoursesTaught	Engineering Chemistry I Engineering Chemistry II Environmental Science and Engineering Air Pollution and Control Engineering		

Name of Teaching Staff*	**Mr. MEERAN MOHIDEEN. B**
	

Designation	**AP/ENGLISH**		
Department	**SCIENCE AND HUMANITIES**		
D.O.B	19-03-1992		
UniqueId	1-4495875009		
EducationalQualification	M.A., M.Phil.		
TotalExperienceinYears	**Teaching**	**Industry**	**Research**
	6Years 9 Months	–	–
PapersPublished	–		
ProjectsGuided	–		
AreaofSpecialization	ENGLISH		
CoursesTaught	TECHNICAL ENGLISH-I TECHNICAL ENGLISH-II PROFESSIONAL ENGLISH-I PROFESSIONAL ENGLISH-II PROFESSIONAL COMMUNICATION ENGLISH COMMUNICATION SKILLS		

Name of Teaching Staff*	**Mr. JOHN GRANT.S**
	
Designation	**AP/CHEMISTRY**

Department	**SCIENCE AND HUMANITIES**		
D.O.B	17-08-1984		
UniqueId	1-7499667145		
EducationalQualification	**M.Sc., M.Phil.**		
TotalExperienceinYears	**Teaching**	**Industry**	**Research**
	7 Years 5 Months	–	–
PapersPublished	–		
ProjectsGuided	–		
AreaofSpecialization	CHEMISTRY		
CoursesTaught	Engineering Chemistry I Engineering Chemistry II Environmental Science and Engineering Air Pollution and Control Engineering		

Name of Teaching Staff*	**Mrs. SOUNDARYA**
	
Designation	**AP/PHYSICS**
Department	**SCIENCE AND HUMANITIES**
D.O.B	05-04-1990

UniqueId	1-43370928977		
EducationalQualification	**M.Sc., M.Phil.**		
TotalExperienceinYears	**Teaching**	**Industry**	**Research**
	10 Years 2 Months	–	–
PapersPublished	–		
ProjectsGuided	–		
AreaofSpecialization	PHYSICS		
CoursesTaught	Engineering Physics Physics for Information Science Physics for Electrical Engineering Physics for Electronics Engineering Materials Science Physics for Civil Engineering		

Name of Teaching Staff*	**Mr. SYED IBRAHIM.P**		
			
Designation	**AP/MATHEMATICS**		
Department	**SCIENCE AND HUMANITIES**		
D.O.B	25-09-1985		
UniqueId	-		
EducationalQualification	**M.Sc., M.Phil.**		
TotalExperienceinYears	**Teaching**	**Industry**	**Research**
	3 Years 2 Months	–	–

PapersPublished	–
ProjectsGuided	–
AreaofSpecialization	MATHEMATICS
CoursesTaught	Matrices and Calculus Discrete Mathematics Linear Algebra and Random Processes Algebra and Number Theory Statistics And Numerical Methods Engineering Mathematics –I Engineering Mathematics –II TRANSFORMS & PARTIAL DIFFERENTIAL EQUATIONSLINEARALGEBRA&PARTIALDIFFERENTIALEQUATIONS Graph Theory Probability & Queueing Theory Probability & Random Process

Name of Teaching Staff*	**Mrs. RAHILA PARVEEN.V**		
			
Designation	**AP/GENERAL ENGINEERING**		
Department	**SCIENCE AND HUMANITIES**		
D.O.B	08-02-1987		
UniqueId	-		
EducationalQualification	**M.E**		
TotalExperienceinYears	**Teaching**	**Industry**	**Research**
	1 Year	–	–

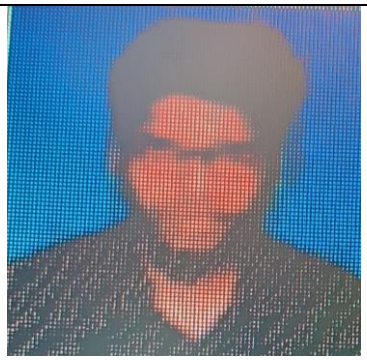
PapersPublished	–
ProjectsGuided	–
AreaofSpecialization	ECE
CoursesTaught	Circuit Theory

	Mr. NAGARAJAN.S 
Designation	**AP/GENERAL ENGINEERING**
Department	**SCIENCE AND HUMANITIES**
D.O.B	18-04-1991
UniqueId	

EducationalQualification	**M.E**		
TotalExperienceinYears	**Teaching**	**Industry**	**Research**
	3 Months	–	–
PapersPublished			
ProjectsGuided	–		
AreaofSpecialization	MECHANICAL ENGINEERING		
CoursesTaught	ENGINEERING GRAPHICS BASIC MECHANICS		

Name of Teaching Staff*	**Mr. JAINS CHRISTOPHER. A**
	
Designation	**AP/GENERAL ENGINEERING**
Department	**SCIENCE AND HUMANITIES**
D.O.B	16-05-1992
UniqueId	17363648690
EducationalQualification	**M.E**

TotalExperienceinYears	**Teaching**	**Industry**	**Research**
	1 Year 3 Months	–	–
PapersPublished	**-**		
ProjectsGuided	–		
AreaofSpecialization	MECHANICAL ENGINEERING		
CoursesTaught	ENGINEERING GRAPHICS BASIC MECHANICS		

Name of Teaching Staff*	**Mr. MOHAMED SHIEK SULTHAN.S**		
			
Designation	**AP/GENERAL ENGINEERING**		
Department	**SCIENCE AND HUMANITIES**		
D.O.B	13-12-1994		
UniqueId	-		
EducationalQualification	**M.E**		
	Teaching	**Industry**	**Research**

TotalExperienceinYears	**3 Months**	–	–
PapersPublished	**-**		
ProjectsGuided	–		
AreaofSpecialization	MECHANICAL ENGINEERING		
CoursesTaught	ENGINEERING GRAPHICS BASIC MECHANICS		

Name of Teaching Staff*	**Mr. MOHAMED RIYAZ. P**		
			
Designation	**AP/GENERAL ENGINEERING**		
Department	**SCIENCE AND HUMANITIES**		
D.O.B	29-06-1995		
UniqueId	**-**		
EducationalQualification	**M.E**		
TotalExperienceinYears	**Teaching**	**Industry**	**Research**
	1 Year 3 Months	–	–
PapersPublished	**-**		
ProjectsGuided	–		
AreaofSpecialization	MECHANICAL ENGINEERING		

CoursesTaught	ENGINEERING GRAPHICS BASIC MECHANICS

Name of Teaching Staff*	**Mr. SANKARANARAYANAN.C**		
			
Designation	**AP/GENERAL ENGINEERING**		
Department	**SCIENCE AND HUMANITIES**		
D.O.B	15-02-1980		
UniqueId			
EducationalQualification	**M.E**		
TotalExperienceinYears	**Teaching**	**Industry**	**Research**
	1 Year 1 Month	–	–
PapersPublished	**-**		
ProjectsGuided	**–**		
AreaofSpecialization	MECHANICAL ENGINEERING		

CoursesTaught	ENGINEERING GRAPHICS BASIC MECHANICS

Name of Teaching Staff*	**Mrs. SHUNMUGA SUNDARI.V**		
			
Designation	**AP/GENERAL ENGINEERING**		
Department	**SCIENCE AND HUMANITIES**		
D.O.B	03-12-1990		
UniqueId			
EducationalQualification	**M.E**		
TotalExperienceinYears	**Teaching**	**Industry**	**Research**
	2 Month	–	–
PapersPublished	**-**		
ProjectsGuided	–		
AreaofSpecialization	COMPUTER SCIENCE AND ENGINEERING		
CoursesTaught	PROBLEM SOLVING AND PYTHON PROGRAMMING IN C		

Name of Teaching Staff*	**Mrs. VIJAYALAKSHIMI.V**		
			
Designation	**AP/TAMIL**		
Department	**SCIENCE AND HUMANITIES**		
D.O.B	03-03-1978		
UniqueId			
EducationalQualification	M.A., M.Phil.		
TotalExperienceinYears	**Teaching**	**Industry**	**Research**
	3 Months	–	–
PapersPublished	–		
ProjectsGuided	–		
AreaofSpecialization	TAMIL		
CoursesTaught	TAMIL I TAMIL II		

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EquipmentsList

SL. No	Degree	Course	Regulation	Name of the Laboratorysubject	Name of the Equipments /Software
1	B.E.	GeneralEngineering	2021	GE3171 PROBLEMSOLVING ANDPYTHONPROGRAMMING LABORATORY	Server with Python (3 interpreter forWindows/Linux)
2	B.E.	GeneralEngineering	2021	GE3171 PROBLEMSOLVING ANDPYTHONPROGRAMMING LABORATORY	Stand alone desktops(Windows/Linux) with Python 3interpreter
3	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	Hand Saw
4	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	Useddesktopcomputer
5	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	Trowel
6	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	TriSquare
7	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	WoodenBench Hook
8	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	Wood CuttingMachine
9	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	Used LEDTV
10	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	UsedLaptop
11	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	Transistors
12	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	Threephase housewiringsetup
13	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	Staircasewiringsetup
14	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	Sprue
15	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	Split pattern
16	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	Solidpattern

17	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	SolderingIron, Lead
18	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	Singlephasehousewiringsetup
19	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	Shearcutter
20	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	Sandreamer
21	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	Runner
22	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	Riser
23	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	Resistors
24	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	PipeVice
25	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	Pattern
26	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	Multimeter
27	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	MotrinChisel
28	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	Mallet
29	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	Mallet
30	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	LatheMachines
31	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	Iron Jack
32	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	Ironbox wiringsetup
33	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	Householdmixer
34	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	Gasweldingunit
35	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	Fluorescentlampwiringsetup

36	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	Firmer Chisel
37	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	Emergencylampwiringsetup
38	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	Emergencylampwiringsetup
39	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	DrillingMachines
40	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	Diodes
41	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	DieHolder withDieset
42	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	DC Multi-output power supply (0-5V),(0-30V)(+15V,-15V)
43	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	Copeand DragBox
44	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	Continuitytester
45	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	Centrifugalpump
46	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	Carpentrybench wise
47	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	Capacitors
48	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	BendingMachine
49	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	Benchholdfastens
50	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICES LABORATORY	Arcweldingunit
51	B.E.	GeneralEngineering	2021	GE3271ENGINEERING PRACTICESLABORATORY	Air-conditionerunit
52	B.E.	GeneralEngineering	2021	BS3171PHYSICS& CHEMISTRYLABORATORY	Magneticstirrer
53	B.E.	GeneralEngineering	2021	BS3171 PHYSICS &CHEMISTRY LABORATORY	PHmeter
54	B.E.	GeneralEngineering	2021	BS3171 PHYSICS &CHEMISTRYLABORATORY	Non-uniform bending: 1 meterwooden scale, two-knife edges,travellingmicroscope,weight hanger with slotted weights, screwgauge,Verniercalliper,pin

55	B.E.	GeneralEngineering	2021	BS3171 PHYSICS &CHEMISTRYLABORATORY	Lattice dynamics kit with built-inaudio oscillator and electricaltransmissionline(formonoanddi-atomic lattices), general purposeCROhavingXYmode.
56	B.E.	GeneralEngineering	2021	BS3171 PHYSICS &CHEMISTRYLABORATORY	45 inclined glass plate set-up, twooptically plane glass plates, sodiumvapourlamp,travellingmicroscope, thinwire/thinstripofpaper
57	B.E.	GeneralEngineering	2021	BS3171PHYSICS& CHEMISTRYLABORATORY	Conductivitymeter
58	B.E.	GeneralEngineering	2021	BS3171 PHYSICS &CHEMISTRYLABORATORY	Diode laser (green or red), fiberopticcable,movablearrangementwithascreenfor measuringspot size(zig),meterscale,stand
59	B.E.	GeneralEngineering	2021	BS3171PHYSICS& CHEMISTRYLABORATORY	ElectronicBalance(Fourdigit)
60	B.E.	GeneralEngineering	2021	BS3171 PHYSICS &CHEMISTRY LABORATORY	Flamephotometer
61	B.E.	GeneralEngineering	2021	BS3171 PHYSICS &CHEMISTRYLABORATORY	He-Ne laser, CCl4 liquid or Benzeneliquid, Glass cell with sample liquid(kerosene/Toluene/Turpentine/ Benzene or CCl4 liquid), RF oscillatorfitted with a frequency meter,Piezoelectric crystal, Electrodes(crystal holder), Screen, iron stand(twonumbers), 1mwoodenscale, thread.
62	B.E.	GeneralEngineering	2021	BS3171PHYSICS& CHEMISTRYLABORATORY	HotAirOven
63	B.E.	GeneralEngineering	2021	BS3171 PHYSICS &CHEMISTRY LABORATORY	Hotplatewithtemperaturecontroller
64	B.E.	GeneralEngineering	2021	BS3171 PHYSICS &CHEMISTRY LABORATORY	Diode laser (green or red), ironstand,compactdisc,1m-wooden scale,screen, stand
65	B.E.	GeneralEngineering	2021	BS3171 PHYSICS &CHEMISTRYLABORATORY	He-Ne/Diode laser (red), Greendiode laser, Grating, Screen, Ironstand(3 Nos),1mwoodenscale, thread.
66	B.E.	GeneralEngineering	2021	BS3171 PHYSICS &CHEMISTRYLABORATORY	Uniform bending: 1 meter woodenscale, two-knife edges, travellingmicroscope, two weight hanger withslottedweights,screw gauge, Verniercalliper,pin
67	B.E.	GeneralEngineering	2021	BS3171 PHYSICS &CHEMISTRYLABORATORY	Torsional Pendulum, stop clock,suspension metallic wire: twodifferentthickness,twoidentical cylindricalmass,screwgauge,w

					oodenscale
68	B.E.	GeneralEng ineering	2021	BS3171 PHYSICS &CHEMISTRY LABORATORY	Mufflefurnace
69	B.E.	General Engineering	2021	BS3171PHYSICS& CHEMISTRY LABORATORY	Ultrasonicinterferometerapparatus withhighfrequencywavegenerator, cell,micrometer,PZcrystal,water orotherliquids
70	B.E.	GeneralEng ineering	2021	BS3171PHYSICS& CHEMISTRYL ABORATORY	Michelson interferometer set-up,sodiumvapour lampandaccessories
71	B.E.	GeneralEng ineering	2021	BS3171 PHYSICS &CHEMISTRY LABORATORY	Melde's string apparatus, thread andweight pan, weight hangerand slottedweights.
72	B.E.	GeneralEng ineering	2021	BS3171 PHYSICS &CHEMISTRYLAB ORATORY	Simple harmonic oscillations ofcantilever: 1 meter wooden scale, G-clamp, weight hanger with slottedweights,Verniercalliper, Screw gauge,stopclock
73	B.E.	GeneralEng ineering	2021	BS3171PHYSICS& CHEMISTRYL ABORATORY	Potentiometer
74	B.E.	GeneralEng ineering	2021	BS3171 PHYSICS &CHEMISTRYLAB ORATORY	Post office box, 5V power supply,thermometer, galvanometer,semiconductor(thermistor),variabletemperature bath set-up (oil,temperaturecontroller,vessel,hot plate.
75	B.E.	GeneralEng ineering	2021	BS3171 PHYSICS &CHEMISTRYLAB ORATORY	Photoelectric effect apparatus withnecessary accessories, tungsten-halogenlamp,Cesium-typevacuum photodiode.
76	B.E.	Computer Science andEnginee ring	2021	CS3271 PROGRAMMINGINC LABORATORY	Systems with Linux OperatingSystemwith GNUcompiler
77	B.E.	Civil Engineering	2017	CE8361SURVEYING LABORATORY	Chains(set)
78	B.E.	Civil Engineering	2017	CE8361SURVEYING LABORATORY	Arrows(set)
79	B.E.	Civil Engineering	2017	CE8361SURVEYING LABORATORY	Rangingrods(set)
80	B.E.	Civil Engineering	2017	CE8361SURVEYING LABORATORY	PrismaticCompass
81	B.E.	Civil Engineering	2017	CE8361SURVEYING LABORATORY	Tapes(set)
82	B.E.	Civil Engineering	2017	CE8361SURVEYING LABORATORY	Dumpylevel / Fillinglevel
83	B.E.	Civil Engineering	2017	CE8361SURVEYING LABORATORY	Pocket stereoscope
84	B.E.	Civil Engineering	2017	CE8361SURVEYING LABORATORY	Levelingstaff(set)
85	B.E.	Civil Engineering	2017	CE8361SURVEYING LABORATORY	TotalStation

86	B.E.	Civil Engineering	2017	CE8361SURVEYING LABORATORY	Theodolites
87	B.E.	Civil Engineering	2017	CE8361SURVEYING LABORATORY	SurveyorCompass
88	B.E.	Civil Engineering	2017	CE8361SURVEYING LABORATORY	Crossstaff(set)
89	B.E.	Civil Engineering	2017	CE8361SURVEYING LABORATORY	Surveygrade or Hand heldGPS
90	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL,ELECTRONICSAND INSTRUMENTATION ENGINEERING LABORATORY	Transformer(6-0-6)V
91	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Transistor(No-BC548)
92	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	Voltmeter(0-100V)
93	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Voltmeter(0-150)V,(0-300)V
94	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Voltmeter0-300v,MI
95	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	Voltmeter(0-30V)
96	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	VoltmeterMC (0-300)V
97	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	VoltmeterMI(0-300)V

98	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Wattmeter–300V, 30 A
99	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Wattmeter –300V,5A,UPF
100	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	Wattmeters0-5 A,300V
101	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	ConnectingWires
102	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	ConnectingWires
103	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	ConnectingWires
104	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	ConnectingWires
105	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	CRO
106	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	D C Power Supply (0-128 V),(0-32V)

107	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	DCpowersupply(0-30V)
108	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	DC Regulated Power supply (0 - 30V variable)
109	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	DC Regulated Power supply (0 - 30V variable)
110	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	DC Regulated Power supply (0 - 30V variable)
111	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	DCshuntgenerator(0-300V)
112	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Digitalmultimeter
113	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	DigitalMultimeter
114	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	Diodes(Si-1N4007)– 4
115	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	FieldRheostat 175Ω,1.5A

116	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	LVDTKit
117	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	MOSFET(2N7000)
118	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Multimeter
119	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	Multimeter
120	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Multimeter
121	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Multimeter
122	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	Multimeter
123	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	PN Diode (BY127, OA79), Zenerdiode(6.8V, 1A)
124	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	Resistor1KΩ

125	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Resistor 1KΩ,100Ω
126	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	resistor(1KΩ,100KΩ)
127	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	Resistors
128	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	Resistors1KΩ,1KΩ
129	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Resistors-1kΩ,470KΩ,1MΩ
130	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	Rheostat175Ω,250Ω
131	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Rheostat7.5 Ω,10 A
132	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	SCRTYN604
133	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	SinglephaseInductionmotor

134	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	SinglephaseTransformer
135	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	Tachometer
136	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Tachometer
137	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Tachometer–Digital
138	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	ThreePhaseVariableLoad
139	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Ammeter(0-30A),(0-2A)
140	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Ammeter(0-30)A,(0-5)A
141	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	Ammeter MC(0-20A)
142	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Ammeter MI(0-20A)

143	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	Ammeters (0-100mA, 0-25mA, 0-1mA)
144	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Ammeters0-10 A,MI
145	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Autotransformer
146	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	Bread board
147	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	Bread board
148	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Bread board
149	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	BreadBoard
150	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	BreadBoard
151	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	BreadBoard

152	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	BreadBoard
153	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Capacitor100µF
154	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	Connectingwires
155	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Connectingwires
156	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Connectingwires
157	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	Connectingwires
158	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	Connectingwires
159	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATIONENGINEERING LABORATORY	ConnectingWires
160	B.E.	CivilEngineering	2021	BE3272 BASICELECTRICAL, ELECTRONICS ANDINSTRUMENTATION ENGINEERING LABORATORY	ConnectingWires
161	B.E.	CivilEngineering	2017	CE8481 STRENGTH OFMATERIALS LABORATORY	Vicatsapparatus

162	B.E.	CivilEngineering	2017	CE8481STRENGTHOFMATERIALSLABORATORY	Beamdeflection test apparatus
163	B.E.	CivilEngineering	2017	CE8481 STRENGTHOFMATERIALS LABORATORY	Compressometer
164	B.E.	CivilEngineering	2017	CE8481 STRENGTHOFMATERIALS LABORATORY	Dialgauges
165	B.E.	CivilEngineering	2017	CE8481STRENGTHOFMATERIALSLABORATORY	Extensometer
166	B.E.	CivilEngineering	2017	CE8481 STRENGTHOFMATERIALS LABORATORY	Hardnesstestingmachine-Rockwell
167	B.E.	CivilEngineering	2017	CE8481STRENGTHOFMATERIALSLABORATORY	Hardness testing machine-Vickers/Brinell
168	B.E.	CivilEngineering	2017	CE8481STRENGTHOFMATERIALSLABORATORY	Izodimpacttestingmachine
169	B.E.	CivilEngineering	2017	CE8481 STRENGTHOFMATERIALS LABORATORY	LeChateliersapparatus
170	B.E.	CivilEngineering	2017	CE8481STRENGTHOFMATERIALSLABORATORY	Mortarcubemoulds
171	B.E.	CivilEngineering	2017	CE8481 STRENGTHOFMATERIALS LABORATORY	Torsiontestingmachine
172	B.E.	Civil Engineering	2017	CE8481STRENGTHOFMATERIALS	UTMof minimum400 KNcapacity
				LABORATORY	
173	B.E.	CivilEngineering	2017	CE8461HYDRAULICENGINEERING LABORATORY	frictionfactorinpipes
174	B.E.	CivilEngineering	2017	CE8461 HYDRAULICENGINEERING LABORATORY	Bernoullis
175	B.E.	CivilEngineering	2017	CE8461 HYDRAULICENGINEERING LABORATORY	Venturimeter/Orificemeter
176	B.E.	CivilEngineering	2017	CE8461HYDRAULICENGINEERING LABORATORY	Submersiblepump
177	B.E.	CivilEngineering	2017	CE8461 HYDRAULICENGINEERING LABORATORY	Rotometer
178	B.E.	CivilEngineering	2017	CE8461HYDRAULICENGINEERING LABORATORY	ReciprocatingPump
179	B.E.	CivilEngineering	2017	CE8461HYDRAULICENGINEERING LABORATORY	PeltonWheelturbine
180	B.E.	CivilEngineering	2017	CE8461 HYDRAULICENGINEERING	minorlosses

				LABORATORY	
181	B.E.	CivilEngineering	2017	CE8461HYDRAULIC ENGINEERING LABORATORY	Francisturbines/kaplonturbine
182	B.E.	CivilEngineering	2017	CE8461 HYDRAULICENGINEERING LABORATORY	GearPump
183	B.E.	CivilEngineering	2017	CE8461 HYDRAULICENGINEERING LABORATORY	determinationofMetacentricheightoffloatingbodies
184	B.E.	CivilEngineering	2017	CE8461HYDRAULIC ENGINEERING LABORATORY	CentrifugalPump
185	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTEWATER ANALYSISLABORATORY	Mufflefurnace
186	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Beaker500mL
187	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Conductivitymeter
188	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Weighingmachine(0.001g)
189	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Weighingmachine(0.0001g)
190	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Water bath
191	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Volumetricflask50mL
192	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Volumetricflask500mL
193	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Volumetricflask250mL
194	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Volumetricflask250mL
195	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Volumetricflask100mL

196	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Volumetricflask1000mL
197	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	UVandVisibleSpectrophotometer
198	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Testtubes 20mL
199	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Sterilizationchamber
200	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Refrigerator
201	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Pipette5mL
202	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Pipette2mL
203	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Pipette10mL
204	B.E.	CivilEngineering	2017	CE8512WATERAND WASTE WATERANALY SIS	pHmeter
				LABORATORY	
205	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Nesslerstube100 mL
206	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Nephelometer
207	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Measuringjar50mL
208	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Measuringjar500mL
209	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Measuringjar10mL

210	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Measuringjar100mL
211	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Measuringjar1000mL
212	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Jartest apparatus
213	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Imhoffcone
214	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTEWATER ANALYSISLABORATORY	Hotairoven
215	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTEWATER ANALYSISLABORATORY	DO meter
216	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Conicalflask10mL
217	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Compound microscope
218	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	COD digester (with 6 heatingmantle)
219	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	China dish
220	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Burette50mLwithstand
221	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Burette25mLwithstand
222	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	BODincubator
223	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Beaker100mL
224	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Beaker1000mL

225	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Bacteriologicalincubator
226	B.E.	CivilEngineering	2017	CE8512 WATER ANDWASTE WATERANALYSIS LABORATORY	Autoclave
227	B.E.	CivilEngineering	2017	CE8511 SOILMECHANICS LABORATORY	Liquidandplasticlimit apparatus
228	B.E.	CivilEngineering	2017	CE8511SOIL MECHANICSLABORATORY	Weighingmachine 1kgcapacity
229	B.E.	CivilEngineering	2017	CE8511SOIL MECHANICSLABORATORY	Triaxialshearapparatus
230	B.E.	CivilEngineering	2017	CE8511 SOILMECHANICS LABORATORY	Threegangconsolidationtestdevice
231	B.E.	CivilEngineering	2017	CE8511SOIL MECHANICSLABORATORY	VanShear apparatus
232	B.E.	CivilEngineering	2017	CE8511SOIL MECHANICSLABORATORY	UTMof minimumof 20KNcapacity
233	B.E.	CivilEngineering	2017	CE8511 SOILMECHANICS LABORATORY	Thermometer
234	B.E.	CivilEngineering	2017	CE8511SOIL MECHANICSLABORATORY	Weighingmachine 20kgcapacity
235	B.E.	CivilEngineering	2017	CE8511 SOILMECHANICS LABORATORY	Sieves
236	B.E.	CivilEngineering	2017	CE8511SOIL MECHANICSLABORATORY	Shinkagelimitapparatus
237	B.E.	CivilEngineering	2017	CE8511 SOILMECHANICS LABORATORY	Sandreplacementmethodaccessoriesandcorecuttermethod accessories
238	B.E.	CivilEngineering	2017	CE8511SOIL MECHANICSLABORATORY	RelativeDensityapparatus
239	B.E.	CivilEngineering	2017	CE8511 SOILMECHANICS LABORATORY	Proctorcompactionapparatus
240	B.E.	CivilEngineering	2017	CE8511 SOILMECHANICS LABORATORY	Directshearapparatus
241	B.E.	CivilEngineering	2017	CE8511SOIL MECHANICSLABORATORY	Hydrometer

242	B.E.	CivilEngineering	2017	CE8611 HIGHWAYENGINEERING LABORATORY	ConcretePrismmoulds
243	B.E.	CivilEngineering	2017	CE8611 HIGHWAYENGINEERING LABORATORY	ConcreteMixer
244	B.E.	CivilEngineering	2017	CE8611HIGHWAY ENGINEERING LABORATORY	Concretecylindermoulds
245	B.E.	CivilEngineering	2017	CE8611 HIGHWAYENGINEERING LABORATORY	Concretecube moulds
246	B.E.	CivilEngineering	2017	CE8611HIGHWAY ENGINEERING LABORATORY	CBRApparatus
247	B.E.	CivilEngineering	2017	CE8611 HIGHWAYENGINEERING LABORATORY	Aggregateimpacttestingmachine
248	B.E.	CivilEngineering	2017	CE8611 HIGHWAYENGINEERING LABORATORY	BlainsApparatus
249	B.E.	CivilEngineering	2017	CE8611HIGHWAY ENGINEERING LABORATORY	CBRApparatus
250	B.E.	CivilEngineering	2017	CE8611 HIGHWAYENGINEERING LABORATORY	Concretecube moulds
251	B.E.	CivilEngineering	2017	CE8611HIGHWAY ENGINEERING LABORATORY	Concretecylindermoulds
252	B.E.	CivilEngineering	2017	CE8611HIGHWAY ENGINEERING LABORATORY	ConcreteMixer
253	B.E.	CivilEngineering	2017	CE8611 HIGHWAYENGINEERING LABORATORY	ConcretePrismmoulds
254	B.E.	CivilEngineering	2017	CE8611HIGHWAY ENGINEERING LABORATORY	Flow table
255	B.E.	Civil Engineering	2017	CE8611HIGHWAY ENGINEERING	Los-Angeles abrasiontesting machine
				LABORATORY	
256	B.E.	CivilEngineering	2017	CE8611HIGHWAY ENGINEERING LABORATORY	MarshallStabilityApparatus
257	B.E.	CivilEngineering	2017	CE8611 HIGHWAYENGINEERING LABORATORY	Sieves
258	B.E.	CivilEngineering	2017	CE8611 HIGHWAYENGINEERING LABORATORY	Slumpcone

259	B.E.	CivilEngineering	2017	CE8611HIGHWAY ENGINEERING LABORATORY	Trovelsandplaners
260	B.E.	CivilEngineering	2017	CE8611 HIGHWAYENGINEERING LABORATORY	UTM-400 kNcapacity
261	B.E.	CivilEngineering	2017	CE8611HIGHWAY ENGINEERING LABORATORY	VeeBeeConsistometer
262	B.E.	CivilEngineering	2017	CE8611HIGHWAY ENGINEERING LABORATORY	Vibrator
263	B.E.	CivilEngineering	2017	CE8611 HIGHWAYENGINEERING LABORATORY	Aggregateimpacttestingmachine
264	B.E.	CivilEngineering	2017	CE8611HIGHWAY ENGINEERING LABORATORY	BlainsApparatus
265	B.E.	CivilEngineering	2017	CE8611 HIGHWAYENGINEERING LABORATORY	Vibrator
266	B.E.	CivilEngineering	2017	CE8611 HIGHWAYENGINEERING LABORATORY	VeeBeeConsistometer
267	B.E.	CivilEngineering	2017	CE8611HIGHWAY ENGINEERING LABORATORY	UTM-400 kNcapacity
268	B.E.	CivilEngineering	2017	CE8611 HIGHWAYENGINEERING LABORATORY	Trovelsandplaners
269	B.E.	CivilEngineering	2017	CE8611HIGHWAY ENGINEERING LABORATORY	Slumpcone
270	B.E.	CivilEngineering	2017	CE8611 HIGHWAYENGINEERING LABORATORY	Sieves
271	B.E.	CivilEngineering	2017	CE8611 HIGHWAYENGINEERING LABORATORY	MarshallStabilityApparatus
272	B.E.	CivilEngineering	2017	CE8611HIGHWAY ENGINEERING LABORATORY	Los-Angelesabrasiontestingmachine
273	B.E.	CivilEngineering	2017	CE8611 HIGHWAYENGINEERING LABORATORY	Flow table
274	B.E.	Mechanical Engineering	2017	ME8361 MANUFACTURING TECHNOLOGY	Sheetmetalformingtoolsandequipments
				LABORATORYI	

275	B.E.	Mechanical Engineering	2017	ME8361MANUFACTURINGTECHNOLOGY LABORATORYI	VerticalMillingMachine
276	B.E.	Mechanical Engineering	2017	ME8361MANUFACTURINGTECHNOLOGY LABORATORYI	Arc welding transformer with cablesandholders
277	B.E.	Mechanical Engineering	2017	ME8361MANUFACTURINGTECHNOLOGY LABORATORYI	CentreLathes
278	B.E.	Mechanical Engineering	2017	ME8361MANUFACTURINGTECHNOLOGY LABORATORYI	HorizontalMillingMachine
279	B.E.	Mechanical Engineering	2017	ME8361MANUFACTURINGTECHNOLOGY LABORATORYI	Moulding table, Mouldingequipments
280	B.E.	Mechanical Engineering	2017	ME8361MANUFACTURINGTECHNOLOGY LABORATORYI	Oxygenandacetylenegascylinders,blowpipeandother weldingoutfit
281	B.E.	Mechanical Engineering	2017	ME8361MANUFACTURINGTECHNOLOGY LABORATORYI	Shaper
282	B.E.	Mechanical Engineering	2017	EE8361ELECTRICAL ENGINEERING LABORATORY	Threephase synchronousmotor
283	B.E.	Mechanical Engineering	2017	EE8361 ELECTRICALENGINEERING LABORATORY	Three phase Slip ring Inductionmotor
284	B.E.	Mechanical Engineering	2017	EE8361ELECTRICAL ENGINEERING LABORATORY	DCSeriesmotor
285	B.E.	Mechanical Engineering	2017	EE8361 ELECTRICALENGINEERING LABORATORY	DCShunt motor
286	B.E.	Mechanical Engineering	2017	EE8361 ELECTRICALENGINEERING LABORATORY	DC Shunt motor-DC SeriesGeneratorset
287	B.E.	Mechanical Engineering	2017	EE8361ELECTRICAL ENGINEERING LABORATORY	DC shunt motor-DC ShuntGeneratorset
288	B.E.	Mechanical Engineering	2017	EE8361 ELECTRICALENGINEERING LABORATORY	Singlephasetransformer
289	B.E.	Mechanical Engineering	2017	EE8361 ELECTRICALENGINEERING LABORATORY	Threephase alternator
290	B.E.	Mechanical Engineering	2017	EE8361ELECTRICAL ENGINEERING LABORATORY	Three phase Squirrel cage Inductionmotor

291	B.E.	Mechanical Engineering	2017	ME8462MANUFACTURINGTECHNOLOGY LABORATORYII	MillingToolDynamometer
292	B.E.	Mechanical Engineering	2017	ME8462MANUFACTURINGTECHNOLOGY LABORATORYII	RadialDrillingMachine
293	B.E.	Mechanical Engineering	2017	ME8462MANUFACTURINGTECHNOLOGY LABORATORYII	Toolandcutter grinder
294	B.E.	Mechanical Engineering	2017	ME8462MANUFACTURINGTECHNOLOGY LABORATORYII	VerticalMillingMachine
295	B.E.	Mechanical Engineering	2017	ME8462MANUFACTURINGTECHNOLOGY LABORATORYII	TurretandCapstanLathes
296	B.E.	Mechanical Engineering	2017	ME8462MANUFACTURINGTECHNOLOGY LABORATORYII	Tool MakersMicroscope
297	B.E.	Mechanical Engineering	2017	ME8462MANUFACTURINGTECHNOLOGY LABORATORYII	Centerlessgrindingmachine
298	B.E.	Mechanical Engineering	2017	ME8462MANUFACTURINGTECHNOLOGY LABORATORYII	CNCLathe
299	B.E.	Mechanical Engineering	2017	ME8462MANUFACTURINGTECHNOLOGY LABORATORYII	HorizontalMillingMachine
300	B.E.	Mechanical Engineering	2017	ME8462MANUFACTURINGTECHNOLOGY LABORATORYII	latheToolDynamometer
301	B.E.	Mechanical Engineering	2017	ME8462MANUFACTURINGTECHNOLOGY LABORATORYII	CNCmillingmachine
302	B.E.	Mechanical Engineering	2017	ME8462MANUFACTURINGTECHNOLOGY LABORATORYII	CylindricalGrindingMachine
303	B.E.	Mechanical Engineering	2017	ME8462MANUFACTURINGTECHNOLOGY LABORATORYII	GearHobblingMachine
304	B.E.	Mechanical Engineering	2017	ME8462MANUFACTURINGTECHNOLOGY LABORATORYII	GearShaper machine
305	B.E.	Mechanical Engineering	2017	ME8462 MANUFACTURING TECHNOLOGY	SurfaceGrindingMachine

				LABORATORYII	
306	B.E.	Mechanical Engineering	2017	CE8381 STRENGTH OFMATERIALS ANDFLUIDMECHANICS AND MACHINERYLABORATORY	Kaplanturbinesetup
307	B.E.	Mechanical Engineering	2017	CE8381 STRENGTH OFMATERIALS ANDFLUID MECHANICSANDMACHINERY LABORATORY	Rockwell HardnessTestingMachine
308	B.E.	Mechanical Engineering	2017	CE8381 STRENGTH OFMATERIALS ANDFLUID MECHANICSANDMACHINERY LABORATORY	Reciprocatingpumpsetup
309	B.E.	Mechanical Engineering	2017	CE8381 STRENGTH OFMATERIALS ANDFLUIDMECHANICS AND MACHINERYLABORATORY	Pipe Flow analysissetup
310	B.E.	Mechanical Engineering	2017	CE8381 STRENGTH OFMATERIALS ANDFLUIDMECHANICS AND MACHINERYLABORATORY	Peltonwheelsetup
311	B.E.	Mechanical Engineering	2017	CE8381 STRENGTH OFMATERIALS ANDFLUID MECHANICSANDMACHINERY LABORATORY	Orificemeter setup
312	B.E.	Mechanical Engineering	2017	CE8381 STRENGTH OFMATERIALS ANDFLUID MECHANICSANDMACHINERY LABORATORY	MuffleFurnace(800 C)
313	B.E.	Mechanical Engineering	2017	CE8381 STRENGTH OFMATERIALS ANDFLUID MECHANICSANDMACHINERY LABORATORY	MetallurgicalMicroscopes
314	B.E.	Mechanical Engineering	2017	CE8381 STRENGTH OFMATERIALS ANDFLUIDMECHANICS AND MACHINERYLABORATORY	ImpactTestingMachine(300JCapacity)

315	B.E.	Mechanical Engineering	2017	CE8381 STRENGTH OFMATERIALS ANDFLUID MECHANICSANDMACHINERY LABORATORY	Gearpumpsetup
316	B.E.	Mechanical Engineering	2017	CE8381 STRENGTH OFMATERIALS ANDFLUID MECHANICSANDMACHINERY LABORATORY	Francisturbinesetup
317	B.E.	Mechanical Engineering	2017	CE8381 STRENGTH OFMATERIALS ANDFLUIDMECHANICS AND MACHINERYLABORATORY	Centrifugal pump/submergiblepumpsetup
318	B.E.	Mechanical Engineering	2017	CE8381 STRENGTH OFMATERIALS ANDFLUID MECHANICSANDMACHINERY LABORATORY	BrinellHardnessTestingMachine
319	B.E.	Mechanical Engineering	2017	CE8381 STRENGTH OFMATERIALS ANDFLUID MECHANICSANDMACHINERY LABORATORY	Rotametersetup
320	B.E.	Mechanical Engineering	2017	CE8381 STRENGTH OFMATERIALS ANDFLUID MECHANICSANDMACHINERY LABORATORY	Venturi metersetup
321	B.E.	Mechanical Engineering	2017	CE8381 STRENGTH OFMATERIALS ANDFLUIDMECHANICS AND MACHINERYLABORATORY	Universal Tensile Testing machinewith double 1 shear attachment 40TonCapacity
322	B.E.	Mechanical Engineering	2017	CE8381STRENGTHOFMATERIALS ANDFLUIDMECHANICS AND MACHINERYLABORATORY	Torsion Testing Machine (60 NMCapacity)
323	B.E.	Mechanical Engineering	2017	CE8381 STRENGTH OFMATERIALS ANDFLUID MECHANICSANDMACHINERY LABORATORY	Spring Testing Machine for tensileand compressiveloads(2500N)
324	B.E.	Mechanical Engineering	2017	ME8511 KINEMATICSANDDYNAMICS LABORATORY	Springmass vibrationsystem

325	B.E.	Mechanical Engineering	2017	ME8511KINEMATICS AND DYNAMICSLAB ORATORY	Torsional Vibration of single rotorsystemsetup
326	B.E.	Mechanical Engineering	2017	ME8511 KINEMATICSANDDY NAMICS LABORATORY	Dynamicbalancingmachine
327	B.E.	Mechanical Engineering	2017	ME8511 KINEMATICSANDDY NAMICS LABORATORY	Transversevibrationsetupofc antilever
328	B.E.	Mechanical Engineering	2017	ME8511KINEMATICS AND DYNAMICSLAB ORATORY	GearModels
329	B.E.	Mechanical Engineering	2017	ME8511 KINEMATICSANDDY NAMICS LABORATORY	Governor apparatus - Watt, Porter,Proell andHartnellgovernors
330	B.E.	Mechanical Engineering	2017	ME8511KINEMATICS AND DYNAMICSLAB ORATORY	Whirlingofshaftapparatus
331	B.E.	Mechanical Engineering	2017	ME8511KINEMATICS AND DYNAMICSLAB ORATORY	Turntableapparatus
332	B.E.	Mechanical Engineering	2017	ME8511KINEMATICS AND DYNAMICSLAB ORATORY	Camfollowersetup
333	B.E.	Mechanical Engineering	2017	ME8511 KINEMATICSANDDY NAMICS LABORATORY	Tworotorvibrationsetup
334	B.E.	Mechanical Engineering	2017	ME8511KINEMATICS AND DYNAMICSLAB ORATORY	Kinematic Models to study variousmechanisms
335	B.E.	Mechanical Engineering	2017	ME8511 KINEMATICSANDDY NAMICS LABORATORY	Motorisedgyroscope
336	B.E.	Mechanical Engineering	2017	ME8512 THERMALENGINE ERING LABORATORY	Guardedplateapparatus
337	B.E.	Mechanical Engineering	2017	ME8512THERMAL ENGINEERING LABORATORY	Forced convection inside tubeapparatus
338	B.E.	Mechanical Engineering	2017	ME8512 THERMALENGINE ERING LABORATORY	Emissivitymeasurementapparatus
339	B.E.	Mechanical Engineering	2017	ME8512 THERMALENGINE ERING LABORATORY	Data Acquisition system with anyone oftheabove engines
340	B.E.	Mechanical Engineering	2017	ME8512THERMAL ENGINEERING LABORATORY	Compositewall apparatus

341	B.E.	Mechanical Engineering	2017	ME8512 THERMALENGINEERING LABORATORY	ApparatusforFlashandFirePoint
342	B.E.	Mechanical Engineering	2017	ME8512THERMAL ENGINEERING LABORATORY	Air-conditioningtestrig
343	B.E.	Mechanical Engineering	2017	ME8512 THERMALENGINEERING LABORATORY	SteamBoiler withturbinesetup
344	B.E.	Mechanical Engineering	2017	ME8512 THERMALENGINEERING LABORATORY	Single/twostagereciprocatingaircompressor
345	B.E.	Mechanical Engineering	2017	ME8512THERMAL ENGINEERING LABORATORY	Refrigerationtestrig
346	B.E.	Mechanical Engineering	2017	ME8512 THERMALENGINEERING LABORATORY	SinglecylinderPetrolEngine
347	B.E.	Mechanical Engineering	2017	ME8512THERMAL ENGINEERING LABORATORY	Pin-finapparatus
348	B.E.	Mechanical Engineering	2017	ME8512THERMAL ENGINEERING LABORATORY	Parallel/counter flow heat exchangerapparatus
349	B.E.	Mechanical Engineering	2017	ME8512 THERMALENGINEERING LABORATORY	Natural convection-vertical cylinderapparatus
350	B.E.	Mechanical Engineering	2017	ME8512THERMAL ENGINEERING LABORATORY	Multi-cylinderPetrolEngine
351	B.E.	Mechanical Engineering	2017	ME8512THERMAL ENGINEERING	Laggedpipeapparatus
				LABORATORY	
352	B.E.	Mechanical Engineering	2017	ME8512THERMAL ENGINEERING LABORATORY	I.CEngine2strokeand4strokemodel
353	B.E.	Mechanical Engineering	2017	ME8512 THERMALENGINEERING LABORATORY	4-strokeDieselEnginewithmechanical loading
354	B.E.	Mechanical Engineering	2017	ME8512 THERMALENGINEERING LABORATORY	4-strokeDieselEnginewithhydraulicloading
355	B.E.	Mechanical Engineering	2017	ME8512THERMAL ENGINEERING LABORATORY	4-strokeDieselEnginewithelectricalloading
356	B.E.	Mechanical Engineering	2017	ME8512 THERMALENGINEERING LABORATORY	Thermal conductivity of insulatingpowder apparatus
357	B.E.	Mechanical Engineering	2017	ME8512THERMAL ENGINEERING LABORATORY	Stefan-Boltzmannapparatus

358	B.E.	Mechanical Engineering	2017	ME8513METROLOGY and MEASUREMENTSLABORATORY	ProfileProjector/ToolMakersMicroscope
359	B.E.	Mechanical Engineering	2017	ME8513 METROLOGYandMEASUREMENTS LABORATORY	Autocollimator
360	B.E.	Mechanical Engineering	2017	ME8513METROLOGY and MEASUREMENTSLABORATORY	Boregauge
361	B.E.	Mechanical Engineering	2017	ME8513 METROLOGYandMEASUREMENTS LABORATORY	Coordinatemeasuringmachine
362	B.E.	Mechanical Engineering	2017	ME8513 METROLOGYandMEASUREMENTS LABORATORY	FloatingCarriageMicrometer
363	B.E.	Mechanical Engineering	2017	ME8513METROLOGY and MEASUREMENTSLABORATORY	ForceMeasuringSetup
364	B.E.	Mechanical Engineering	2017	ME8513 METROLOGYandMEASUREMENTS LABORATORY	GearToothVernier
365	B.E.	Mechanical Engineering	2017	ME8513METROLOGY and MEASUREMENTSLABORATORY	Mechanical / Electrical / PneumaticComparator
366	B.E.	Mechanical Engineering	2017	ME8513 METROLOGYandMEASUREMENTS LABORATORY	Micrometer
367	B.E.	Mechanical Engineering	2017	ME8513 METROLOGYandMEASUREMENTS LABORATORY	Parallel / counter flow heatexchangerapparatus
368	B.E.	Mechanical Engineering	2017	ME8513METROLOGY and MEASUREMENTSLABORATORY	Sine Bar
369	B.E.	Mechanical Engineering	2017	ME8513 METROLOGYandMEASUREMENTS LABORATORY	SlipGaugeSet
370	B.E.	Mechanical Engineering	2017	ME8513METROLOGY and MEASUREMENTSLABORATORY	Surfacefinishmeasuringequipment
371	B.E.	Mechanical Engineering	2017	ME8513METROLOGY and MEASUREMENTSLABORATORY	Telescopegauge
372	B.E.	Mechanical Engineering	2017	ME8513 METROLOGYandMEASUREMENTS LABORATORY	TemperatureMeasuringSetup

373	B.E.	Mechanical Engineering	2017	ME8513METROLOGY and MEASUREMENTSLABORATORY	TorqueMeasuringSetup
374	B.E.	Mechanical Engineering	2017	ME8513 METROLOGYandMEASUREMENTS LABORATORY	VernierCaliper
375	B.E.	Mechanical Engineering	2017	ME8513 METROLOGYandMEASUREMENTS LABORATORY	Vernier depthGauge
376	B.E.	Mechanical Engineering	2017	ME8513METROLOGY and MEASUREMENTSLABORATORY	VernierHeightGauge
377	B.E.	Mechanical Engineering	2017	ME8681CAD/CAM LABORATORY	LaserPrinter
378	B.E.	Mechanical Engineering	2017	ME8681CAD/CAM LABORATORY	CNCmillingmachine
379	B.E.	Mechanical Engineering	2017	ME8681 CAD/CAMLABORATORY	Computernodesorsystems(High end CPU with atleast 1 GB mainmemory)networkedtotheserver
380	B.E.	Mechanical Engineering	2017	ME8681CAD/CAM LABORATORY	Support forCAPP
381	B.E.	Mechanical Engineering	2017	ME8681CAD/CAM LABORATORY	ComputerServer
382	B.E.	Mechanical Engineering	2017	ME8681 CAD/CAMLABORATORY	CAM Software for machining centreand turning centre (CNCProgramming and tool pathsimulationforFANUC/Sinumeric andHeidenhaincontroller)
383	B.E.	Mechanical Engineering	2017	ME8681CAD/CAM LABORATORY	CNCLathe
384	B.E.	Mechanical Engineering	2017	ME8681CAD/CAM LABORATORY	A3sizeplotter
385	B.E.	Mechanical Engineering	2017	ME8681 CAD/CAMLABORATORY	AnyHighendintegratedmodeling and manufacturing CAD / CAMsoftware
386	B.E.	Mechanical Engineering	2017	ME8681CAD/CAM LABORATORY	Licensedoperatingsystem
387	B.E.	Computer Science andEngineering	2017	CS8381 DATA STRUCTURES LABORATORY	Systems with Linux OperatingSystemwith gnucompiler
388	B.E.	ComputerScienceand Engineering	2017	CS8382 DIGITALSYSTEM LABORATORY	Software:HDLsimulator
389	B.E.	Computer Science andEngineering	2017	CS8382DIGITAL SYSTEMLABORATORY	Digitaltrainerkits
390	B.E.	Computer Science andEngineering	2017	CS8382DIGITAL SYSTEMLABORATORY	DigitalICs

391	B.E.	ComputerScience andEngineering	2017	CS8383 OBJECTORIENTEDPROGRAMMING LABORATORY	Systems with either Netbeans orEclipse
392	B.E.	ComputerScience andEngineering	2017	CS8481 DATABASEMANAGEMENTSYSTEMS LABORATORY	Systemswith MySql
393	B.E.	ComputerScience andEngineering	2017	CS8481 DATABASEMANAGEMENTSYSTEMS LABORATORY	Server
394	B.E.	ComputerScience andEngineering	2017	CS8481 DATABASEMANAGEMENTSYSTEMS LABORATORY	Visual Studio
395	B.E.	ComputerScience andEngineering	2017	CS8581 NETWORKSLABORATORY	C / C++ / Java / Python / EquivalentCompiler Network Simulator likeNS2/ Glomosim/OPNEt /Packet Tracer/Equivalent
396	B.E.	Computer Science andEngineering	2017	CS8581 NETWORKSLABORATORY	StandaloneDesktops
397	B.E.	ComputerScience andEngineering	2017	EC8681MICROPROCESSORANDMICROCONTROLLER LABORATORY	Printer interfacing card compatiblewith8086 &8051 kits
398	B.E.	ComputerScience andEngineering	2017	EC8681MICROPROCESSORANDMICROCONTROLLER LABORATORY	8051Microcontrollertrainerkit
399	B.E.	ComputerScience andEngineering	2017	EC8681MICROPROCESSORAND MICROCONTROLLER LABORATORY	8086Microprocessortrainerkitwithpowersupply
400	B.E.	ComputerScience andEngineering	2017	EC8681MICROPROCESSORANDMICROCONTROLLER LABORATORY	A/D and D/A interfacing cardcompatiblewith8086&8051kits
401	B.E.	ComputerScience andEngineering	2017	EC8681MICROPROCESSORAND MICROCONTROLLER LABORATORY	Digital clock interfacing boardcompatiblewith8086&8051 kits
402	B.E.	ComputerScience andEngineering	2017	EC8681MICROPROCESSORANDMICROCONTROLLER LABORATORY	Keyboard & Display interface boardcompatiblewith8086&8051kits
403	B.E.	ComputerScience andEngineering	2017	EC8681MICROPROCESSORANDMICROCONTROLLER LABORATORY	SerialandParallelinterfacingcardcompatiblewith8086&8051kits

404	B.E.	ComputerScience andEngineering	2017	EC8681MICROPROCESSORAND MICROCONTROLLER LABORATORY	Stepper motor control interfacingcompatiblewith8086& 8051kits
405	B.E.	ComputerScience andEngineering	2017	EC8681MICROPROCESSORAND MICROCONTROLLER LABORATORY	Trafficlightcontrolinterfacingcardcompatiblewith8086&8051kits
406	B.E.	Computer Science andEngineering	2017	CS8461OPERATING SYSTEMSLABORATORY	Systems with Linux OS and GNUComputer
407	B.E.	ComputerScience andEngineering	2017	CS8582 OBJECTORIENTEDANALYSISANDDESIGN LABORATORY	PCs
408	B.E.	ComputerScience andEngineering	2017	CS8582 OBJECTORIENTEDANALYSISANDDESIGN LABORATORY	RationalSuite(UserLicense)
409	B.E.	ComputerScience andEngineering	2017	CS8582 OBJECTORIENTEDANALYSISANDDESIGN LABORATORY	Open Source Alternatives:ArgoUML,StarUML, VisualParadigm(or)EquivalentEclipse IDEandJunit
410	B.E.	ComputerScience andEngineering	2017	CS8582 OBJECTORIENTEDANALYSISANDDESIGN LABORATORY	Open Source Alternatives:ArgoUML,StarUML, VisualParadigm(or)EquivalentEclipse IDEandJunit
411	B.E.	ComputerScience andEngineering	2017	CS8582 OBJECTORIENTEDANALYSISANDDESIGN LABORATORY	PCs
412	B.E.	ComputerScience andEngineering	2017	CS8582 OBJECTORIENTEDANALYSISANDDESIGN LABORATORY	RationalSuite(UserLicense)
413	B.E.	ComputerScienceand Engineering	2017	CS8661 INTERNETPROGRAMMING LABORATORY	Server(WebServer)
414	B.E.	Computer Science andEngineering	2017	CS8661INTERNET PROGRAMMING LABORATORY	Java/JSP/ISPWebserver/Apache Tomcat / MySQL / Dreamweaver orEquivalent,WAMP/XAMP
415	B.E.	Computer Science andEngineering	2017	CS8661INTERNET PROGRAMMING LABORATORY	Systems
416	B.E.	ComputerScience andEngineering	2017	CS8662 MOBILEAPPLICATIONDEVELOPMENTLABORATORY	Standalone desktops with Windowsor Android or iOS or EquivalentMobile Application DevelopmentToolswithappropriate emulators anddebuggers

417	B.E.	ElectronicsandCommunication Engineering	2021	EC3271 CIRCUITANALYSISLABORATORY	Dual Regulated Power Supplies (0 – 30V)
418	B.E.	ElectronicsandCommunicationEngineering	2021	EC3271 CIRCUITANALYSISLABORATORY	CRO(30MHz)
419	B.E.	ElectronicsandCommunicati	2021	EC3271CIRCUITANALYSISLABORATORY	FunctionGenerators(3MHz)
		on Engineering			
420	B.E.	ElectronicsandCommunicationEngineering	2021	EC3271 CIRCUITANALYSISLABORATORY	Resistors, Capacitors, Inductors – sufficientquantities.BreadBoards
421	B.E.	ElectronicsandCommunicationEngineering	2017	EC8361ANALOGANDDIGITAL CIRCUITSLABORATORY	ComputerwithHDLsoftware
422	B.E.	ElectronicsandCommunication Engineering	2017	EC8361ANALOGANDDIGITAL CIRCUITSLABORATORY	CRO(30MHz)
423	B.E.	ElectronicsandCommunication Engineering	2017	EC8361ANALOGANDDIGITAL CIRCUITSLABORATORY	Diodes,Zenerdiode
424	B.E.	ElectronicsandCommunication Engineering	2017	EC8361ANALOGANDDIGITAL CIRCUITSLABORATORY	Dualpowersupply/singlemodepowersupply
425	B.E.	ElectronicsandCommunicationEngineering	2017	EC8361ANALOGANDDIGITAL CIRCUITSLABORATORY	Dual Regulated Power Supplies (0 - 30V)
426	B.E.	ElectronicsandCommunicationEngineering	2017	EC8361ANALOGANDDIGITAL CIRCUITSLABORATORY	ICs7400/7402 /7404/7486 /7408 / 7432/7483 /74150/74151 / 74147 / 7445/7476/7491/555/ 7494 /7447 /74180/7485 /7473/74138 /7411 /747 4
427	B.E.	ElectronicsandCommunicationEngineering	2017	EC8361ANALOGANDDIGITAL CIRCUITSLABORATORY	ICTrainerKit

428	B.E.	Electronicsand Communication Engineering	2017	EC8361ANALOGAND DIGITAL CIRCUITSLABORATORY	Multimeter
429	B.E.	Electronicsand Communication Engineering	2017	EC8361ANALOGAND DIGITAL CIRCUITSLABORATORY	Resistors,Capacitors,Inductors
430	B.E.	Electronicsand Communication Engineering	2017	EC8361ANALOGAND DIGITAL CIRCUITSLABORATORY	Sevensegment display
431	B.E.	Electronicsand Communicati onEngineering	2017	EC8361ANALOGAND DIGITAL CIRCUITSLABORATORY	Signal Generator /FunctionGenerators(3 MHz)
432	B.E.	Electronicsand Communication Engineering	2017	EC8361ANALOGAND DIGITAL CIRCUITSLABORATORY	Bread Boards
433	B.E.	Electronicsand Communication Engineering	2017	EC8361ANALOGAND DIGITAL CIRCUITSLABORATORY	Transistor/FET (BJT-NPN-PNP andNMOS/PMOS)
434	B.E.	Electronicsand Communication Engineering	2017	EC8361ANALOGAND DIGITAL CIRCUITSLABORATORY	StandalonedesktopPCswithSPICEsoftware
435	B.E.	Electronicsand Communicati onEngineering	2017	EC8361ANALOGAND DIGITAL CIRCUITSLABORATORY	ComputerwithHDLsoftware
436	B.E.	Electronics andCommuni cati onEngineering	2017	EC8361ANALOGAND DIGITAL CIRCUITSLABORATORY	CRO(30MHz)
437	B.E.	Electronicsand Communication Engineering	2017	EC8361ANALOGAND DIGITAL CIRCUITSLABORATORY	Diodes,Zenerdiode
438	B.E.	Electronicsand Communication Engineering	2017	EC8361ANALOGAND DIGITAL CIRCUITSLABORATORY	Dualpowersupply/singlemodepowersupply
439	B.E.	Electronicsand Communication Engineering	2017	EC8361ANALOGAND DIGITAL CIRCUITSLABORATORY	Dual Regulated Power Supplies (0 - 30V)

440	B.E.	ElectronicsandCommunicationEngineering	2017	EC8361ANALOGANDDIGITAL CIRCUITSLABORATORY	ICs7400/7402 /7404/7486 /7408 / 7432/7483 /74150/74151 / 74147 / 7445/7476/7491/555/ 7494 /7447 /74180/7485 /7473/74138 /7411 /747 4
441	B.E.	ElectronicsandCommunication Engineering	2017	EC8361ANALOGANDDIGITAL CIRCUITSLABORATORY	ICTrainerKit
442	B.E.	Electronics and	2017	EC8361ANALOGANDDIGITALCIRCUITS	Multimeter
		CommunicationEngineering		LABORATORY	
443	B.E.	ElectronicsandCommunicationEngineering	2017	EC8361ANALOGANDDIGITAL CIRCUITSLABORATORY	Resistors,Capacitors,Inductors
444	B.E.	ElectronicsandCommunication Engineering	2017	EC8361ANALOGANDDIGITAL CIRCUITSLABORATORY	Sevensegment display
445	B.E.	ElectronicsandCommunication Engineering	2017	EC8361ANALOGANDDIGITAL CIRCUITSLABORATORY	Signal Generator /FunctionGenerators(3 MHz)
446	B.E.	ElectronicsandCommunicationEngineering	2017	EC8361ANALOGANDDIGITAL CIRCUITSLABORATORY	StandalonedesktopPCswithSPICEsoftware
447	B.E.	ElectronicsandCommunication Engineering	2017	EC8361ANALOGANDDIGITAL CIRCUITSLABORATORY	Transistor/FET (BJT-NPN-PNP andNMOS/PMOS)
448	B.E.	ElectronicsandCommunication Engineering	2017	EC8361ANALOGANDDIGITAL CIRCUITSLABORATORY	Bread Boards
449	B.E.	ElectronicsandCommunication Engineering	2017	EC8381FUNDAMENTALS OFDATASTRUCTURESINCLABORATORY	Standalonedesktops(or)Servers upportingwith Ccompiler
450	B.E.	ElectronicsandCommunication Engineering	2017	EC8461 CIRCUITSDESIGN ANDSIMULATIONLABORATORY	DigitalMultimeter

451	B.E.	Electronicsand Communicati onEngineering	2017	EC8461 CIRCUITSDESIGN ANDSIMULATIONLABORATORY	CRO(Min 30MHz)
452	B.E.	Electronicsand Communication Engineering	2017	EC8461 CIRCUITSDESIGN ANDSIMULATIONLABORATORY	DigitalLCRMeter
453	B.E.	Electronicsand Communication Engineering	2017	EC8461 CIRCUITSDESIGN ANDSIMULATIONLABORATORY	Dual Regulated Power Supplies (0 - 30V)
454	B.E.	Electronicsand Communicati onEngineering	2017	EC8461 CIRCUITSDESIGN ANDSIMULATIONLABORATORY	Signal Generator /FunctionGenerators(2 MHz)
455	B.E.	Electronicsand Communication Engineering	2017	EC8461 CIRCUITSDESIGN ANDSIMULATIONLABORATORY	SPICE Circuit Simulation Software(any public domain or commercialsoftware)
456	B.E.	Electronicsand Communication Engineering	2017	EC8461 CIRCUITSDESIGN ANDSIMULATIONLABORATORY	StandalonedesktopsPC
457	B.E.	Electronicsand Communication Engineering	2017	EC8461 CIRCUITSDESIGN ANDSIMULATIONLABORATORY	Transistor/FET (BJT-NPN-PNP andNMOS/PMOS)
458	B.E.	Electronicsand Communicati onEngineering	2017	EC8461 CIRCUITSDESIGN ANDSIMULATIONLABORATORY	Transistors, Resistors, Capacitors,Inductors, diodes, Zener Diodes,BreadBoards,Transformers
459	B.E.	Electronics andCommunicati onEngineering	2017	EC8462LINEAR INTEGRATED CIRCUITSLABORATORY	Dual Regulated Power Supplies (0 - 30V)
460	B.E.	Electronicsand Communication Engineering	2017	EC8462 LINEARINTEGRATEDCIRCUITSLABORATORY	Transistors, Resistors, Capacitors,diodes, Zener diodes, Bread Boards,Transformers, wires, Powertransistors,Potentiometer,A/D and D/Aconvertors,LEDs
461	B.E.	Electronicsand Communication Engineering	2017	EC8462 LINEARINTEGRATEDCIRCUITSLABORATORY	StandalonedesktopsPC
462	B.E.	Electronicsand Communication Engineering	2017	EC8462 LINEARINTEGRATEDCIRCUITSLABORATORY	Signal Generator /FunctionGenerators(2 MHz)

463	B.E.	ElectronicsandCommunication Engineering	2017	EC8462 LINEARINTEGRATEDCIRCUITSLABORATORY	ICtester
464	B.E.	ElectronicsandCommunicationEngineering	2017	EC8462 LINEARINTEGRATEDCIRCUITSLABORATORY	CRO/DSO(Min30MHz)
465	B.E.	ElectronicsandCommunication	2017	EC8462 LINEARINTEGRATEDCIRCUITS LABORATORY	DigitalMultimeter
		Engineering			
466	B.E.	ElectronicsandCommunicationEngineering	2017	EC8562 DIGITALSIGNAL PROCESSINGLABORATORY	SignalGenerators(1MHz)
467	B.E.	ElectronicsandCommunication Engineering	2017	EC8562 DIGITALSIGNAL PROCESSINGLABORATORY	CRO(20MHz)
468	B.E.	ElectronicsandCommunication Engineering	2017	EC8562 DIGITALSIGNAL PROCESSINGLABORATORY	MATLAB with Simulink and SignalProcessing Tool Box or EquivalentSoftwarein desktop systems
469	B.E.	ElectronicsandCommunicationEngineering	2017	EC8562 DIGITALSIGNALPROCESSINGLABORATORY	PCs with Fixed / Floating point DSPProcessors(Kit/Add-onCards)
470	B.E.	ElectronicsandCommunicationEngineering	2017	EC8561COMMUNICATIONSYSTEMS LABORATORY	Probes(CRO)
471	B.E.	ElectronicsandCommunication Engineering	2017	EC8561COMMUNICATIONSYSTEMS LABORATORY	PCs
472	B.E.	ElectronicsandCommunication Engineering	2017	EC8561COMMUNICATIONSYSTEMS LABORATORY	Patchcords
473	B.E.	ElectronicsandCommunication Engineering	2017	EC8561COMMUNICATIONSYSTEMS LABORATORY	MSO

474	B.E.	ElectronicsandCommunicationEngineering	2017	EC8561COMMUNICATIONSYSTEMS LABORATORY	MATLAB/SCILAB or equivalentsoftware package for simulationexperiments
475	B.E.	ElectronicsandCommunication Engineering	2017	EC8561COMMUNICATIONSYSTEMS LABORATORY	Kits for Signal Sampling, TDM,AM, FM, PCM, DM and LineCodingSchemes,Errorcontrol code
476	B.E.	ElectronicsandCommunication Engineering	2017	EC8561COMMUNICATIONSYSTEMS LABORATORY	CROs
477	B.E.	ElectronicsandCommunicationEngineering	2017	EC8561COMMUNICATIONSYSTEMS LABORATORY	DSO
478	B.E.	ElectronicsandCommunication Engineering	2017	EC8681MICROPROCESSORANDMICROCONTROLLER LABORATORY	8051Microcontrollertrainerkit
479	B.E.	ElectronicsandCommunication Engineering	2017	EC8681MICROPROCESSORANDMICROCONTROLLER LABORATORY	Digital clock interfacing boardcompatiblewith8086&8051 kits
480	B.E.	ElectronicsandCommunication Engineering	2017	EC8681MICROPROCESSORANDMICROCONTROLLER LABORATORY	Keyboard & Display interface boardcompatiblewith8086&8051kits
481	B.E.	ElectronicsandCommunicationEngineering	2017	EC8681MICROPROCESSORAND MICROCONTROLLER LABORATORY	Printer interfacing card compatiblewith8086 &8051 kits
482	B.E.	ElectronicsandCommunicationEngineering	2017	EC8681 MICROPROCESSORAND MICROCONTROLLER LABORATORY	SerialandParallelinterfacingcardcompatiblewith8086&8051kits
483	B.E.	ElectronicsandCommunication Engineering	2017	EC8681MICROPROCESSORANDMICROCONTROLLER LABORATORY	Stepper motor control interfacingcompatiblewith8086&8051kits
484	B.E.	ElectronicsandCommunication Engineering	2017	EC8681MICROPROCESSORANDMICROCONTROLLER LABORATORY	Trafficlightcontrolinterfacingcardcompatiblewith8086&8051kits
485	B.E.	ElectronicsandCommunication Engineering	2017	EC8681MICROPROCESSORANDMICROCONTROLLER LABORATORY	A/D and D/A interfacing cardcompatiblewith8086&8051kits

486	B.E.	ElectronicsandCommunication Engineering	2017	EC8681MICROPROCESSORANDMICROCONTROLLER LABORATORY	8086Microprocessortrainerkitwithpowersupply
487	B.E.	ElectronicsandCommunicationEngineering	2017	EC8563COMMUNICATIONNETWORKSLABORATORY	Qualnet/Optisim/Matlab/NS2/Netsim
488	B.E.	ElectronicsandCommunication	2017	EC8563COMMUNICATIONNETWORKS LABORATORY	C / Python / Java / EquivalentCompiler
		Engineering			
489	B.E.	ElectronicsandCommunicationEngineering	2017	EC8563COMMUNICATIONNETWORKSLABORATORY	PCs
490	B.E.	ElectronicsandCommunication Engineering	2017	EC8563COMMUNICATIONNETWORKSLABORATORY	StandardLANTrainerKits
491	B.E.	ElectronicsandCommunication Engineering	2017	EC8661VLSIDESIGN LABORATORY	Xilinx ISE/Altera Quartus/equivalent EDATools
492	B.E.	ElectronicsandCommunicationEngineering	2017	EC8661VLSIDESIGN LABORATORY	Cadence/Synopsis/ MentorGraphics/Tanner/equivalentEDATools
493	B.E.	ElectronicsandCommunicationEngineering	2017	EC8661VLSIDESIGN LABORATORY	PersonalComputer
494	B.E.	ElectronicsandCommunication Engineering	2017	EC8661VLSIDESIGN LABORATORY	Xilinx/Altera/equivalentFPGA Boards
495	B.E.	ElectronicsandCommunication Engineering	2017	EC8761 ADVANCEDCOMMUNICATIONLABORATORY	Trainer kit for determining the modecharacteristics,lossesinopticalfiber
496	B.E.	ElectronicsandCommunication Engineering	2017	EC8761 ADVANCEDCOMMUNICATIONLABORATORY	SoftwareDefineRadioTransceiverPlatform with antennas andaccessories
497	B.E.	ElectronicsandCommunicationEngineering	2017	EC8761 ADVANCEDCOMMUNICATIONLABORATORY	Advanced Optical fiber trainer kitfor PC to PC communication, BERMeasurement,Pulsebroadening

498	B.E.	ElectronicsandCommunication Engineering	2017	EC8761 ADVANCEDCOMMUNICATIONLABORATORY	Digital Communications TeachingBundle(LabVIEW/MATLAB/Equivalentsoftwaretools)
499	B.E.	ElectronicsandCommunication Engineering	2017	EC8761 ADVANCEDCOMMUNICATIONLABORATORY	Kit for measuring NumericalapertureandAttenuationoffiber
500	B.E.	Electronics and	2017	EC8761ADVANCED COMMUNICATION	LEDswithST/SC/E2000 receptacles-650 /850nm
		CommunicationEngineering		LABORATORY	
501	B.E.	ElectronicsandCommunicationEngineering	2017	EC8761 ADVANCEDCOMMUNICATIONLABORATORY	MM/SM Glass and plastic fiberpatch chords with ST/SC/E2000connectors
502	B.E.	ElectronicsandCommunication Engineering	2017	EC8761 ADVANCEDCOMMUNICATIONLABORATORY	PIN PDs with ST / SC / E2000receptacles-650 /850 nm
503	B.E.	ElectronicsandCommunication Engineering	2017	EC8761 ADVANCEDCOMMUNICATIONLABORATORY	Trainer kit for analyzing Analog andDigital link performance, 2 MbpsPRBS Data source, 10 MHz signalgenerator,20MHzDigitalstorage Oscilloscope
504	B.E.	ElectronicsandCommunicationEngineering	2017	EC8761 ADVANCEDCOMMUNICATIONLABORATORY	Trainer kit for carrying out LED andPIN diode characteristics, Digitalmultimeter,optical powermeter
505	B.E.	Electrical andElectronics Engineering	2021	EE3271 ELECTRICCIRCUITS LABORATORY	Digital Storage Oscilloscope (20MHz)
506	B.E.	Electrical andElectronics Engineering	2021	EE3271 ELECTRICCIRCUITS LABORATORY	FunctionGenerator(MHzRange)
507	B.E.	Electricaland Electronics Engineering	2021	EE3271ELECTRIC CIRCUITSLABORATORY	Multimeters
508	B.E.	Electrical andElectronics Engineering	2021	EE3271 ELECTRICCIRCUITS LABORATORY	NecessaryQuantitiesofResistors,Inductors,Capacitorsofvarious capacities(QuarterWattto10Watt)
509	B.E.	Electricaland Electronics Engineering	2021	EE3271ELECTRIC CIRCUITSLABORATORY	Oscilloscope(20MHz)
510	B.E.	Electricaland Electronics Engineering	2021	EE3271ELECTRIC CIRCUITSLABORATORY	Printer
511	B.E.	Electrical andElectronics Engineering	2021	EE3271 ELECTRICCIRCUITS LABORATORY	RegulatedPower Supply(0-30V)

512	B.E.	Electricaland Electronics Engineering	2021	EE3271ELECTRIC CIRCUITSLAB ORATORY	Single Phase Wattmeter of suitablerating
513	B.E.	Electricaland Electronics Engineering	2021	EE3271ELECTRIC CIRCUITSLAB ORATORY	Threephasestar &deltaconnected load/Singlephaseloadbankofsuit ablerating
514	B.E.	Electrical andElectronic s Engineering	2021	EE3271 ELECTRICCIRCUI TS LABORATORY	10 Nos of PC loaded with Pspice/Matlab/e-Sim/Scilab/Equivalent SoftwarePackage
515	B.E.	Electricaland Electronics Engineering	2021	EE3271ELECTRIC CIRCUITSLAB ORATORY	AC/DC -Ammeters of requiredrating
516	B.E.	Electrical andElectronic s Engineering	2021	EE3271 ELECTRICCIRCUI TS LABORATORY	AC/DC– Voltmetersofrequiredrating
517	B.E.	Electricaland Electronics Engineering	2021	EE3271ELECTRIC CIRCUITSLAB ORATORY	CircuitConnectionBoards
518	B.E.	Electrical andElectronic s Engineering	2021	EE3271 ELECTRICCIRCUI TS LABORATORY	ConnectingWires
519	B.E.	Electricaland Electronics Engineering	2021	EE3271ELECTRIC CIRCUITSLAB ORATORY	DecadeCapacitanceBox
520	B.E.	Electrical andElectronic s Engineering	2021	EE3271 ELECTRICCIRCUI TS LABORATORY	DecadeInductance Box
521	B.E.	Electrical andElectronic s Engineering	2021	EE3271ELECTRIC CIRCUITS LABORATORY	DecadeResistanceBox
522	B.E.	Electrical andElectronic sEngineering	2017	EC8311 ELECTRONICSLABOR ATORY	Semiconductor devices like Diode,Zener Diode, NPN Transistors,JFET,UJT, Photo diode,Photo Transistor
523	B.E.	Electrical andElectronic s Engineering	2017	EC8311 ELECTRONICSLABOR ATORY	StorageOscilloscope
524	B.E.	Electricaland Electronics Engineering	2017	EC8311 ELECTRONICSLABOR ATORY	Resistors,Capacitorsandinductors
525	B.E.	Electrical andElectronic s Engineering	2017	EC8311 ELECTRONICSLABOR ATORY	Regulated3 outputPowerSupply5 +_15V
526	B.E.	Electricaland Electronics Engineering	2017	EC8311 ELECTRONICSLABOR ATORY	Necessarydigital IC8
527	B.E.	Electrical andElectronic s Engineering	2017	EC8311ELECTRONICS LABORATORY	FunctionGenerators
528	B.E.	Electrical andElectronic s	2017	EC8311 ELECTRONICSLABOR ATORY	CRO

		Engineering			
529	B.E.	Electricaland Electronics Engineering	2017	EC8311 ELECTRONICSLABORATORY	Breadboards
530	B.E.	Electrical andElectronicsEngineering	2017	EE8461 LINEAR ANDDIGITALINTEGRATED CIRCUITSLABORATORY	Diodes,IN4001,BY126
531	B.E.	Electrical andElectronicsEngineering	2017	EE8461 LINEAR ANDDIGITAL INTEGRATEDCIRCUITS LABORATORY	DigitalICtypes
532	B.E.	Electrical andElectronicsEngineering	2017	EE8461 LINEAR ANDDIGITAL INTEGRATEDCIRCUITS LABORATORY	CRO
533	B.E.	Electrical andElectronicsEngineering	2017	EE8461 LINEAR ANDDIGITAL INTEGRATEDCIRCUITS LABORATORY	Computer(PSPICEinstalled)
534	B.E.	Electrical andElectronics Engineering	2017	EE8461 LINEAR ANDDIGITALINTEGRATED CIRCUITS	Capacitor
				LABORATORY	
535	B.E.	Electrical andElectronicsEngineering	2017	EE8461 LINEAR ANDDIGITAL INTEGRATEDCIRCUITS LABORATORY	Bread board
536	B.E.	Electrical andElectronicsEngineering	2017	EE8461 LINEAR ANDDIGITAL INTEGRATEDCIRCUITS LABORATORY	Transistor-2N3391
537	B.E.	Electrical andElectronicsEngineering	2017	EE8461 LINEAR ANDDIGITAL INTEGRATEDCIRCUITS LABORATORY	Zenerdiodes
538	B.E.	Electrical andElectronicsEngineering	2017	EE8461 LINEAR ANDDIGITAL INTEGRATEDCIRCUITS LABORATORY	Step-down transformer 230V/12-0-12V
539	B.E.	Electrical andElectronicsEngineering	2017	EE8461 LINEAR ANDDIGITAL INTEGRATEDCIRCUITS LABORATORY	SingleStrandWire
540	B.E.	Electrical andElectronicsEngineering	2017	EE8461 LINEAR ANDDIGITAL INTEGRATEDCIRCUITS	Resistors1/4WattAssorted

				LABORATORY	
541	B.E.	Electrical andElectronicsEngineering	2017	EE8461 LINEAR ANDDIGITAL INTEGRATEDCIRCUITS LABORATORY	Potentiometer
542	B.E.	Electrical andElectronicsEngineering	2017	EE8461 LINEAR ANDDIGITAL INTEGRATEDCIRCUITS LABORATORY	LM723
543	B.E.	Electrical andElectronicsEngineering	2017	EE8461 LINEAR ANDDIGITAL INTEGRATEDCIRCUITS LABORATORY	LM317
544	B.E.	Electrical andElectronicsEngineering	2017	EE8461 LINEAR ANDDIGITALINTEGRATED CIRCUITSLABORATORY	LED
545	B.E.	Electrical andElectronicsEngineering	2017	EE8461 LINEAR ANDDIGITALINTEGRATED CIRCUITSLABORATORY	ICTester(Analog)
546	B.E.	Electrical andElectronicsEngineering	2017	EE8461 LINEAR ANDDIGITAL INTEGRATEDCIRCUITS LABORATORY	ICSG3524/SG3525
547	B.E.	Electrical andElectronicsEngineering	2017	EE8461 LINEAR ANDDIGITAL INTEGRATEDCIRCUITS LABORATORY	IC741/ICNE555/566/565
548	B.E.	Electrical andElectronicsEngineering	2017	EE8461 LINEAR ANDDIGITAL INTEGRATEDCIRCUITS LABORATORY	FunctionGenerator
549	B.E.	Electrical andElectronicsEngineering	2017	EE8461 LINEAR ANDDIGITAL INTEGRATEDCIRCUITS LABORATORY	Dual ,(0-30V) variable PowerSupply
550	B.E.	Electrical andElectronicsEngineering	2017	EE8461 LINEAR ANDDIGITAL INTEGRATEDCIRCUITS LABORATORY	DigitalMultimeter
551	B.E.	Electrical andElectronicsEngineering	2017	CS8383 OBJECTORIENTEDPROGRAMMING LABORATORY	Systems with either Netbeans orEclipse

552	B.E.	Electrical andElectronics Engineering	2017	EE8311 ELECTRICALMACHINES LABORATORYI	SinglePhaseTransformer
553	B.E.	Electricaland Electronics Engineering	2017	EE8311ELECTRICAL MACHINESLABORATORYI	DC Shunt Motor with LoadingArrangement
554	B.E.	Electrical andElectronics Engineering	2017	EE8311 ELECTRICALMACHINES LABORATORYI	DC Shunt Motor Coupled WithThreephase Alternator
555	B.E.	Electrical andElectronics Engineering	2017	EE8311 ELECTRICALMACHINES LABORATORYI	DC Shunt Motor Coupled With DCShuntGenerator
556	B.E.	Electricaland Electronics Engineering	2017	EE8311ELECTRICAL MACHINESLABORATORYI	DC Shunt Motor Coupled With DCCompoundGenerator
557	B.E.	Electrical andElectronics Engineering	2017	EE8311 ELECTRICALMACHINES LABORATORYI	DC Series Motor with LoadingArrangement
558	B.E.	Electrical andElectronics Engineering	2017	EE8311 ELECTRICALMACHINES LABORATORYI	DC Compound motor with loadingarrangement
559	B.E.	Electricaland Electronics Engineering	2017	EE8311ELECTRICAL MACHINESLABORATORYI	Single Phase Resistive LoadingBank
560	B.E.	Electrical andElectronics Engineering	2017	EE8311 ELECTRICALMACHINES LABORATORYI	Single Phase Induction Motor withLoadingArrangement
561	B.E.	Electricaland Electronics Engineering	2017	EE8311ELECTRICAL MACHINESLABORATORYI	ThreePhaseResistiveLoadingBank
562	B.E.	Electrical andElectronics Engineering	2017	EE8311 ELECTRICALMACHINES LABORATORYI	SinglePhaseAutoTransformer
563	B.E.	Electrical andElectronics Engineering	2017	EE8311 ELECTRICALMACHINES LABORATORYI	Three Phase Induction Motor withLoadingArrangement
564	B.E.	Electricaland Electronics Engineering	2017	EE8311ELECTRICAL MACHINESLABORATORYI	Tachometer-Digital/Analog
565	B.E.	Electrical andElectronics Engineering	2017	EE8311 ELECTRICALMACHINES LABORATORYI	ThreePhaseAutoTransformer
566	B.E.	Electricaland Electronics Engineering	2017	EE8511CONTROLAND INSTRUMENTATION LABORATORY	CRO30MHz
567	B.E.	Electrical andElectronics	2017	EE8511 CONTROL ANDINSTRUMENTATION	100gmweights
		Engineering		LABORATORY	

568	B.E.	Electrical andElectronics Engineering	2017	EE8511 CONTROL ANDINSTRUMENTATION LABORATORY	2MHzFunction Generator
569	B.E.	Electricaland Electronics Engineering	2017	EE8511CONTROLAND INSTRUMENTATION LABORATORY	30 psi Pressure chamber (completeset)
570	B.E.	Electrical andElectronics Engineering	2017	EE8511 CONTROL ANDINSTRUMENTATION LABORATORY	ACSynchrotransmitter&receiver
571	B.E.	Electrical andElectronics Engineering	2017	EE8511 CONTROL ANDINSTRUMENTATION LABORATORY	Air foot pump (with necessaryconnectingtubes)
572	B.E.	Electricaland Electronics Engineering	2017	EE8511CONTROLAND INSTRUMENTATION LABORATORY	Analog-Digitaland Digital-Analogconverters(ADCandDACs)
573	B.E.	Electrical andElectronics Engineering	2017	EE8511 CONTROL ANDINSTRUMENTATION LABORATORY	CRO30MHZ
574	B.E.	Electrical andElectronics Engineering	2017	EE8511 CONTROL ANDINSTRUMENTATION LABORATORY	Current generator(0-20mA)
575	B.E.	Electricaland Electronics Engineering	2017	EE8511CONTROLAND INSTRUMENTATION LABORATORY	DC motor - Generator test set-up forevaluationofmotor parameters
576	B.E.	Electrical andElectronics Engineering	2017	EE8511 CONTROL ANDINSTRUMENTATION LABORATORY	Digital multi meters, speed andtorquesensors
577	B.E.	Electricaland Electronics Engineering	2017	EE8511CONTROLAND INSTRUMENTATION LABORATORY	DSOforcapturingtransience
578	B.E.	Electrical andElectronics Engineering	2017	EE8511 CONTROL ANDINSTRUMENTATION LABORATORY	Electricheater
579	B.E.	Electrical andElectronics Engineering	2017	EE8511 CONTROL ANDINSTRUMENTATION LABORATORY	Flow measurement Trainer kit (1/2HPMotor,Watertank, Digital Milliammeter,completeset)
580	B.E.	Electricaland Electronics Engineering	2017	EE8511CONTROLAND INSTRUMENTATION LABORATORY	ICtrainerkit
581	B.E.	Electrical andElectronics Engineering	2017	EE8511 CONTROL ANDINSTRUMENTATION LABORATORY	InstrumentationAmplifierkit
582	B.E.	Electricaland Electronics Engineering	2017	EE8511CONTROLAND INSTRUMENTATION LABORATORY	LVDT20mm core length movabletype
583	B.E.	Electrical andElectronics Engineering	2017	EE8511 CONTROL ANDINSTRUMENTATION LABORATORY	Opticalsensor
584	B.E.	Electrical andElectronics	2017	EE8511 CONTROL ANDINSTRUMENTATION	Personal computers with controlsystemsimulationpackages

		Engineering		LABORATORY	
585	B.E.	Electricaland Electronics Engineering	2017	EE8511CONTROLAND INSTRUMENTATION LABORATORY	PID controller simulation andlearnerkit
586	B.E.	Electrical andElectronics Engineering	2017	EE8511 CONTROL ANDINSTRUMENTATION LABORATORY	Position Control Systems Kit (withmanual)
587	B.E.	Electricaland Electronics Engineering	2017	EE8511CONTROLAND INSTRUMENTATION LABORATORY	R,L,CBridgekit (withmanual)
588	B.E.	Electrical andElectronics Engineering	2017	EE8511 CONTROL ANDINSTRUMENTATION LABORATORY	SinglephaseAutotransformer
589	B.E.	Electricaland Electronics Engineering	2017	EE8511CONTROLAND INSTRUMENTATION LABORATORY	StrainGaugeKit withHandyleverbeam
590	B.E.	Electrical andElectronics Engineering	2017	EE8511 CONTROL ANDINSTRUMENTATION LABORATORY	TachoGeneratorCouplingset
591	B.E.	Electrical andElectronics Engineering	2017	EE8511 CONTROL ANDINSTRUMENTATION LABORATORY	Thermistor (silicon type) RTDnickeltype
592	B.E.	Electricaland Electronics Engineering	2017	EE8511CONTROLAND INSTRUMENTATION LABORATORY	Thermometer
593	B.E.	Electrical andElectronics Engineering	2017	EE8511 CONTROL ANDINSTRUMENTATION LABORATORY	Voltmeter Rheostat Stop watchConnectingwires
594	B.E.	Electrical andElectronics Engineering	2017	EE8511 CONTROL ANDINSTRUMENTATION LABORATORY	Watthourmeter(energymeter)
595	B.E.	Electricaland Electronics Engineering	2017	EE8411ELECTRICAL MACHINESLABORATORYII	ThreePhaseAutoTransformer
596	B.E.	Electrical andElectronics Engineering	2017	EE8411 ELECTRICALMACHINES LABORATORYII	Tachometer-Digital/Analog
597	B.E.	Electricaland Electronics Engineering	2017	EE8411ELECTRICAL MACHINESLABORATORYII	Single Phase Resistive LoadingBank
598	B.E.	Electrical andElectronics Engineering	2017	EE8411 ELECTRICALMACHINES LABORATORYII	Single Phase Induction Motor withLoadingArrangement
599	B.E.	Electrical andElectronics Engineering	2017	EE8411 ELECTRICALMACHINES LABORATORYII	SinglePhaseAutoTransformer
600	B.E.	Electricaland Electronics Engineering	2017	EE8411ELECTRICAL MACHINESLABORATORYII	DCShuntMotorCoupledWith Three phase Slip ring Inductionmotor

601	B.E.	Electrical andElectronics Engineering	2017	EE8411 ELECTRICALMACHINES LABORATORYII	DC Shunt Motor Coupled WithThreephase Alternator
602	B.E.	Electricaland Electronics Engineering	2017	EE8411ELECTRICAL MACHINESLABORATORYII	CapacitorBank
603	B.E.	Electricaland Electronics Engineering	2017	EE8411ELECTRICAL MACHINESLABORATORYII	SynchronousInductionmotor3HP
604	B.E.	Electrical andElectronics Engineering	2017	EE8411 ELECTRICALMACHINES LABORATORYII	ThreePhaseResistiveLoadingBank
605	B.E.	Electricaland Electronics Engineering	2017	EE8411ELECTRICAL MACHINESLABORATORYII	Three Phase Induction Motor withLoadingArrangement
606	B.E.	Electricaland Electronics	2017	EE8661 POWER ELECTRONICSAND	IGBT basedsinglephasePWM invertermodule/Discrete
		Engineering		DRIVESLABORATORY	Component
607	B.E.	Electricaland Electronics Engineering	2017	EE8661 POWER ELECTRONICS ANDDRIVESLABORATORY	IGBT basedthreephasePWM inverter module/DiscreteComponent
608	B.E.	Electrical andElectronics Engineering	2017	EE8661 POWERELECTRONICSAND DRIVESLABORATORY	IsolationTransformer
609	B.E.	Electrical andElectronics Engineering	2017	EE8661 POWERELECTRONICSAND DRIVESLABORATORY	LCR meter
610	B.E.	Electricaland Electronics Engineering	2017	EE8661 POWER ELECTRONICS ANDDRIVESLABORATORY	MOSFET based step up and stepdownchoppers(Builtin/Discrete)
611	B.E.	Electrical andElectronics Engineering	2017	EE8661 POWERELECTRONICSAND DRIVESLABORATORY	Multimeter
612	B.E.	Electricaland Electronics Engineering	2017	EE8661 POWER ELECTRONICS ANDDRIVESLABORATORY	SCR&TRIACbased 1phase AC controller along with lamp orrheostat load
613	B.E.	Electricaland Electronics Engineering	2017	EE8661 POWER ELECTRONICS ANDDRIVESLABORATORY	Rheostatsof variousranges
614	B.E.	Electrical andElectronics Engineering	2017	EE8661 POWERELECTRONICSAND DRIVESLABORATORY	SinglephaseAutotransformer
615	B.E.	Electrical andElectronicsEngineering	2017	EE8661 POWERELECTRONICS ANDDRIVESLABORATORY	SinglephaseSCRbasedhalfcontrolled converterandfullycontrolledconverteralongwithbuilt-in/separate/firing circuit/moduleandmeter
616	B.E.	Electrical andElectronics Engineering	2017	EE8661 POWERELECTRONICSAND DRIVESLABORATORY	Switched mode power convertermodule/DiscreteComponent

617	B.E.	Electricaland Electronics Engineering	2017	EE8661 POWER ELECTRONICS ANDDRIVESLABORATORY	Worktables
618	B.E.	Electrical andElectronics Engineering	2017	EE8661 POWERELECTRONICSAND DRIVESLABORATORY	CathoderayOscilloscope
619	B.E.	Electricaland Electronics Engineering	2017	EE8661 POWER ELECTRONICS ANDDRIVESLABORATORY	Components (Inductance,Capacitance)
620	B.E.	Electricaland Electronics Engineering	2017	EE8661 POWER ELECTRONICS ANDDRIVESLABORATORY	Cyclo converter kit with firingmodule
621	B.E.	Electrical andElectronics Engineering	2017	EE8661 POWERELECTRONICSAND DRIVESLABORATORY	DC and AC meters of requiredranges
622	B.E.	Electrical andElectronicsEngineering	2017	EE8661 POWERELECTRONICS ANDDRIVESLABORATORY	Device characteristics(for SCR,MOSFET,TRIAC,GTO,IGCTand IGBTkitwithbuiltin/discrete power supplyand meters)
623	B.E.	Electricaland Electronics Engineering	2017	EE8661 POWER ELECTRONICS ANDDRIVESLABORATORY	Dual regulated Dc power supplywithcommon ground
624	B.E.	Electrical andElectronicsEngineering	2017	EE8681MICROPROCESSORSAND MICROCONTROLLERS	8255Interface board
				LABORATORY	
625	B.E.	Electrical andElectronicsEngineering	2017	EE8681MICROPROCESSORSANDMICROCONTROLLERS LABORATORY	8279Keyboard/DisplayInterfaceboard
626	B.E.	Electrical andElectronicsEngineering	2017	EE8681MICROPROCESSORSANDMICROCONTROLLERS LABORATORY	TrafficLightControlSystem
627	B.E.	Electrical andElectronicsEngineering	2017	EE8681MICROPROCESSORSANDMICROCONTROLLERS LABORATORY	ADCand DACcard
628	B.E.	Electrical andElectronicsEngineering	2017	EE8681MICROPROCESSORSAND MICROCONTROLLERS LABORATORY	AC&DCmotorwithController
629	B.E.	Electrical andElectronicsEngineering	2017	EE8681MICROPROCESSORSANDMICROCONTROLLERS LABORATORY	8051 Micro Controller Trainer Kitwithpowersupply

630	B.E.	Electrical andElectronic sEngineering	2017	EE8681MICROPROCESSORSAND MICROCONTROLLERS LABORATORY	8085 Microprocessor Trainer withPower Supply
631	B.E.	Electrical andElectronic sEngineering	2017	EE8681MICROPROCESSORSANDMICROCONTROLLERS LABORATORY	8251Interface board
632	B.E.	Electrical andElectronic sEngineering	2017	EE8681MICROPROCESSORSAND MICROCONTROLLERS LABORATORY	8254timer counter
633	B.E.	Electricaland Electronics Engineering	2017	EE8681 MICROPROCESSORSAND MICROCONTROLLERS LABORATORY	8259Interface board
634	B.E.	CivilEngineering	2017	CE8311CONSTRUCTIONMATERIALS LABORATORY	TrowelsandPans
635	B.E.	CivilEngineering	2017	CE8311CONSTRUCTIONMATERIALS LABORATORY	Weighing Balance or scale(accuracy1 g)
636	B.E.	CivilEngineering	2017	CE8311 CONSTRUCTION MATERIALS	Sieveset (ISsieves4.75mm,2.36 mm, 1.1.8 mm, 600 micron, 300micron,
				LABORATORY	150 micronand 75 micron)
637	B.E.	CivilEngineering	2017	CE8311CONSTRUCTIONMATERIALS LABORATORY	Slumpcone apparatus
638	B.E.	CivilEngineering	2017	CE8311CONSTRUCTIONMATERIALS LABORATORY	Tampingrod
639	B.E.	CivilEngineering	2017	CE8311CONSTRUCTIONMATERIALS LABORATORY	Thicknessgauge
640	B.E.	CivilEngineering	2017	CE8311CONSTRUCTIONMATERIALS LABORATORY	Shallowflatbottomdish
641	B.E.	CivilEngineering	2017	CE8311CONSTRUCTIONMATERIALS LABORATORY	Pycnometer
642	B.E.	CivilEngineering	2017	CE8311CONSTRUCTIONMATERIALS LABORATORY	Oven
643	B.E.	CivilEngineering	2017	CE8311CONSTRUCTIONMATERIALS LABORATORY	Lengthgauge

644	B.E.	CivilEngineering	2017	CE8311CONSTRUCTIONMATERIALS LABORATORY	IS Sieves 40 mm,31.5 mm, 25 mm,20mm,16mm,12.5mm,10mm,6.3mm
645	B.E.	CivilEngineering	2017	CE8311CONSTRUCTIONMATERIALS LABORATORY	IS sieves 12.5 mm, 10 mm and 2.36mm
646	B.E.	CivilEngineering	2017	CE8311CONSTRUCTION MATERIALSLABORATORY	Flexuretestingmachine
647	B.E.	CivilEngineering	2017	CE8311CONSTRUCTION MATERIALSLABORATORY	Cylindrical metal measure of 3 litrecapacity
648	B.E.	CivilEngineering	2017	CE8311CONSTRUCTIONMATERIALS LABORATORY	Concretemixingmachine
649	B.E.	CivilEngineering	2017	CE8311CONSTRUCTIONMATERIALS LABORATORY	ConcreteCylinders
650	B.E.	CivilEngineering	2017	CE8311CONSTRUCTIONMATERIALS LABORATORY	ConcreteCubes
651	B.E.	CivilEngineering	2017	CE8311CONSTRUCTIONMATERIALS LABORATORY	Compressiontestingmachine
652	B.E.	CivilEngineering	2017	CE8311CONSTRUCTIONMATERIALS LABORATORY	Compactionfactorapparatus
653	B.E.	CivilEngineering	2017	CE8311CONSTRUCTIONMATERIALS LABORATORY	BeamMould
654	B.E.	CivilEngineering	2017	CE8311CONSTRUCTIONMATERIALS LABORATORY	AggregateImpactValueApparatus
655	B.E.	CivilEngineering	2017	CE8311CONSTRUCTIONMATERIALS LABORATORY	Aggregate Crushing ValueApparatus
656	B.E.	CivilEngineering	2017	CE8311CONSTRUCTIONMATERIALS LABORATORY	Weighing Balance or scale(accuracy0.5g)
657	B.E.	Computer Science andEngineering	2017	IT8761 SECURITYLABORATORY	C/C++/Javaorequivalentcompiler GnuPG, snort, N-Stalker orEquivalent
658	B.E.	Computer Science andEngineering	2017	IT8761 SECURITYLABORATORY	PCs

659	B.E.	ComputerScience andEngineering	2017	CS8711 CLOUDCOMPUTINGLABORATORY	Virtualbox,VMwareWorkstation,Cloud Environment Creation,Openstack,Hadoop, Coludism, GAElauncher
660	B.E.	ElectronicsandCommunicationEngineering	2017	EC8711 EMBEDDEDLABORATORY	EmbeddedtrainerkitswithARMboard
661	B.E.	ElectronicsandCommunication Engineering	2017	EC8711 EMBEDDEDLABORATORY	Adequate quantities of Hardware,softwareand consumables
662	B.E.	ElectronicsandCommunication Engineering	2017	EC8711 EMBEDDEDLABORATORY	Embedded trainer kits suitable forwirelesscommunication
663	B.E.	Electricaland Electronics Engineering	2017	EE8711POWER SYSTEM SIMULATIONLABORATORY	Server(Inteli5,80GB,2GBRAM)(Highspeedprocessor)
664	B.E.	Electrical andElectronics Engineering	2017	EE8711 POWERSYSTEMSIMULATION LABORATORY	CompliersC,C++,VB,VC++
665	B.E.	Electrical andElectronics Engineering	2017	EE8711 POWERSYSTEMSIMULATION LABORATORY	Dot matrix
666	B.E.	Electricaland Electronics Engineering	2017	EE8711POWER SYSTEM SIMULATIONLABORATORY	Personalcomputers(Inteli3,80GB,2GBRAM)
667	B.E.	Electrical andElectronics Engineering	2017	EE8711 POWERSYSTEMSIMULATION LABORATORY	PowerSystemsimulationsoftware
668	B.E.	Electricaland Electronics Engineering	2017	EE8711POWER SYSTEM SIMULATIONLABORATORY	Printerlaser
669	B.E.	Mechanical Engineering	2017	ME8711SIMULATION ANDANALYSIS LABORATORY	C/MATLAB
670	B.E.	Mechanical Engineering	2017	ME8711SIMULATION ANDANALYSIS LABORATORY	ColorDeskJet Printer
671	B.E.	Mechanical Engineering	2017	ME8711SIMULATION AND ANALYSISLABORATORY	Computer WorkStation
672	B.E.	Mechanical Engineering	2017	ME8711SIMULATION ANDANALYSIS LABORATORY	Multibody Dynamic softwaresuitableforMechanismsimulation andanalysis
673	B.E.	Mechanical Engineering	2017	ME8781MECHATRONICS LABORATORY	Image processing system withhardware&software

674	B.E.	Mechanical Engineering	2017	ME8781 MECHATRONICS LABORATORY	HydraulicsandPneumaticssystemssimulationsoftware
675	B.E.	Mechanical Engineering	2017	ME8781MECHATRONICS LABORATORY	Basic Pneumatic Trainer kit withmanualandelectricalcontrols/PLC controleach
676	B.E.	Mechanical Engineering	2017	ME8781 MECHATRONICS LABORATORY	BasicHydraulicTrainer kit
677	B.E.	Mechanical Engineering	2017	ME8781MECHATRONICS LABORATORY	8051 - Microcontroller kit withsteppermotoranddrivecircuitsets
678	B.E.	Mechanical Engineering	2017	ME8381ComputerAided MachineDrawing	Assemblydrawings usingany 2D/3DCADsoftware
679	B.E.	Mechanical Engineering	2017	ME8381ComputerAided MachineDrawing	Printer
680	B.E.	Mechanical Engineering	2017	ME8381ComputerAided Machine Drawing	Computerswithnecessary accessories
681	B.E.	Electrical andElectronics Engineering	2017	EE8712 RENEWABLEENERGYSYSTEMS LABORATORY	Personalcomputers(Inteli3,80GB,2GBRAM)
682	B.E.	Electricaland Electronics Engineering	2017	EE8712RENEWABLE ENERGY SYSTEMSLABORATORY	Potentiometer
683	B.E.	Electrical andElectronics Engineering	2017	EE8712 RENEWABLEENERGYSYSTEMS LABORATORY	PVEmulator
684	B.E.	Electricaland Electronics Engineering	2017	EE8712RENEWABLE ENERGY SYSTEMSLABORATORY	PV panels-100W, 24V
685	B.E.	Electrical andElectronics Engineering	2017	EE8712 RENEWABLEENERGYSYSTEMS LABORATORY	Step-down transformer 230v/12-0-12v
686	B.E.	Electricaland Electronics	2017	EE8712RENEWABLE ENERGYSYSTEMS	DigitalMultimeter
		Engineering		LABORATORY	
687	B.E.	Electricaland Electronics Engineering	2017	EE8712RENEWABLE ENERGY SYSTEMSLABORATORY	CRO30MHz
688	B.E.	Electrical andElectronics Engineering	2017	EE8712 RENEWABLEENERGYSYSTEMS LABORATORY	Battery storage system with chargeand discharge control 40Ah
689	B.E.	Electrical andElectronics Engineering	2017	EE8712 RENEWABLEENERGYSYSTEMS LABORATORY	Micro Wind Energy Generatormodule
690	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICS ENGINEERING	Resistors

				LABORATORY	
691	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Resistors1KΩ,1KΩ
692	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Resistors-1kΩ,470KΩ,1MΩ
693	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Rheostat175Ω,250Ω
694	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Rheostat7.5 Ω,10 A
695	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	SCRTYN604
696	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	SinglephaseInductionmotor
697	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Tachometer
698	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Tachometer
699	B.E.	Mechanical Engineering	2021	BE3271BASIC ELECTRICAL ANDELECTRONICS	Tachometer–Digital

				ENGINEERING LABORATORY	
700	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Transformer(6-0-6)V
701	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Transistor(No-BC548)
702	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Voltmeter(0-100V)
703	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	Voltmeter(0-30V)
704	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	VoltmeterMC (0-300)V
705	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	VoltmeterMI(0-300)V
706	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Wattmeter–300V, 30 A
707	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	X-ORGateIC7486
708	B.E.	Mechanical Engineering	2021	BE3271BASIC ELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	Ammeter(0-30A),(0-2A)

709	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Ammeter MC(0-20A)
710	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Ammeter MI(0-20A)
711	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	Ammeters (0-100mA, 0-25mA, 0-1mA)
712	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	ANDGateIC7408
713	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Bread board
714	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Bread board
715	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	Bread board
716	B.E.	Mechanical Engineering	2021	BE3271BASIC ELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	BreadBoard
717	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	BreadBoard
718	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING	BreadBoard

				LABORATORY	
719	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	BreadBoard
720	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Capacitor100µF
721	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	Connectingwires
722	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICS ENGINEERING	Connectingwires
				LABORATORY	
723	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Connectingwires
724	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Connectingwires
725	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	ConnectingWires
726	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	ConnectingWires

727	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	ConnectingWires
728	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	ConnectingWires
729	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	ConnectingWires
730	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	CRO
731	B.E.	Mechanical Engineering	2021	BE3271BASIC ELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	D C Power Supply (0-128 V),(0-32V)
732	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	DCpowersupply(0-30V)
733	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	DC Regulated Power supply (0 - 30V variable)
734	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	DC Regulated Power supply (0 - 30V variable)
735	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	DC Regulated Power supply (0 - 30V variable)

736	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	DCshuntgenerator(0-300V)
737	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	DigitalICtrainer
738	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	Digitalmultimeter
739	B.E.	Mechanical Engineering	2021	BE3271BASIC ELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	DigitalMultimeter
740	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Diodes(Si-1N4007)– 4
741	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	FieldRheostat 175Ω,1.5A
742	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	IC7400,7402, 7404,7408,7432,7486
743	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	ICTrainerKit
744	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	MOSFET(2N7000)
745	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICS	Multimeter

				ENGINEERING	
				LABORATORY	
746	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Multimeter
747	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Multimeter
748	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Multimeter
749	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	NOTGateIC7404
750	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	ORGate IC7432
751	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	Patchchords
752	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	PatchChords
753	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	PN Diode (BY127, OA79), Zenerdiode(6.8V, 1A)

754	B.E.	Mechanical Engineering	2021	BE3271BASIC ELECTRICAL ANDELECTRONICS ENGINEERING LABORATORY	Resistor1KΩ
755	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	Resistor 1KΩ,100Ω
756	B.E.	Mechanical Engineering	2021	BE3271 BASICELECTRICAL ANDELECTRONICSENGINEERING LABORATORY	resistor(1KΩ,100KΩ)

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PROGRAMMEEDUCATIONALOBJECTIVES(PEOs):

I. TopreparestudentsforsuccessfulcareersinCivilEngineeringfieldthatmeetstheneedsofIndiana ndmultinationalcompanies.

II. To develop the confidence and ability among students to synthesize data and technicalconcepts andthereby applyitinrealworldproblems.

III. Todevelopstudentstousemoderntechniques,skillandmathematicalengineeringtoolsfor solvingproblemsinCivilEngineering.

IV. To provide students with a sound foundation in mathematical, scientific and engineeringfundamentals necessary to formulate, solve and analyse engineering problems and toprepare themforgraduatestudies.

V. To promote students to work collaboratively on multi-disciplinary projects and make themengageinlife-longlearningprocess throughouttheirprofessionallife.

PROGRAMMEOUTCOMES(POs):
Onsuccessfulcompletionof theprogramme,

1. Graduateswilldemonstrateknowledgeofmathematics,scienceandengineering.
2. Graduateswilldemonstrateanabilitytoidentify,formulateandsolveengineeringproblems.
3. Graduatewilldemonstrateanability todesignandconductexperiments,analyzeandinterpretdata.
4. Graduateswilldemonstrateanabilitytodesignasystem,componentorprocessasperneedsands pecifications.
5. Graduateswilldemonstrateanabilitytovisualizeandworkonlaboratoryandmultidisciplinary tasks.
6. Graduatewilldemonstrateskillstousemodernengineeringtools,softwareandequipmenttoanaly zeproblems.
7. Graduateswilldemonstrateknowledgeofprofessionalandethicalresponsibilities.
8. Graduatewillbe abletocommunicateeffectively inbothverbalandwrittenform.
9. Graduate will show the understanding of impact of engineering solutions on the society andalsowillbeawareofcontemporary issues.
10. Graduatewilldevelopconfidenceforselfeducationandabilityforlife-long learning.

PEOs& POs

TheB.E.CivilEngineeringProgramoutcomesleadingtotheachievementoftheobjectivesaresummarizedinthefollowingTable.

Programme Educational Objectives	ProgrammeOutcomes									
	a	b	c	d	e	f	g	h	i	j
I	X	X		X	X					
II		X	X							
III				X			X			
IV	X				X					
V						X		X	X	X

ANNAUNIVERSITY,CHENNAI
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TIONS– 2017
CHOICEBASEDCREDITSYSTEM
I TO VIII SEMESTERS CURRICULA &
SYLLABISEMESTERI

S.No	COURSECODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	MA8151	EngineeringMathematics-I	BS	4	4	0	0	4
3.	PH8151	EngineeringPhysics	BS	3	3	0	0	3
4.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
5.	GE8151	Problem Solving andPythonProgramming	ES	3	3	0	0	3
6.	GE8152	EngineeringGraphics	ES	6	2	0	4	4
PRACTICALS								
7.	GE8161	Problem Solving andPythonProgramming Laboratory	ES	4	0	0	4	2
8.	BS8161	PhysicsandChemistryLaboratory	BS	4	0	0	4	2
			TOTAL	**31**	**19**	**0**	**12**	**25**

SEMESTERII

S.No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8251	TechnicalEnglish	HS	4	4	0	0	4
2.	MA8251	EngineeringMathematics-II	BS	4	4	0	0	4
3.	PH8201	PhysicsForCivil Engineering	BS	3	3	0	0	3
4.	BE8251	BasicElectricaland Electronics Engineering	ES	3	3	0	0	3
5.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
6.	GE8292	Engineering Mechanics	ES	5	3	2	0	4
PRACTICALS								
7.	GE8261	Engineering PracticesLaboratory	ES	4	0	0	4	2
8.	CE8211	Computer AidedBuildingDrawing	PC	4	0	0	4	2
			TOTAL	**30**	**20**	**2**	**8**	**25**

SEMESTER III

S.No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8353	TransformsandPartial DifferentialEquations	BS	4	4	0	0	4
2.	CE8301	Strengthof MaterialsI	PC	3	3	0	0	3
3.	CE8302	FluidMechanics	PC	3	3	0	0	3
4.	CE8351	Surveying	PC	3	3	0	0	3
5.	CE8391	Construction Materials	PC	3	3	0	0	3
6.	CE8392	EngineeringGeology	ES	3	3	0	0	3
PRACTICALS								
7.	CE8311	ConstructionMaterials Laboratory	PC	4	0	0	4	2
8.	CE8361	SurveyingLaboratory	PC	4	0	0	4	2
9.	HS8381	Interpersonal Skills /ListeningandSpeaking	EEC	2	0	0	2	1
			TOTAL	**29**	**19**	**0**	**10**	**24**

SEMESTERIV

S.No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8491	NumericalMethods	BS	4	4	0	0	4
2.	CE8401	ConstructionTe chniquesand Practices	PC	3	3	0	0	3
3.	CE8402	Strength ofMaterials II	PC	3	3	0	0	3
4.	CE8403	AppliedHydraulic Engineering	PC	3	3	0	0	3
5.	CE8404	ConcreteTechnology	PC	3	3	0	0	3
6.	CE8491	SoilMechanics	PC	3	3	0	0	3
PRACTICALS								
7.	CE8481	Strength of MaterialsLaboratory	PC	4	0	0	4	2
8.	CE8461	HydraulicEngineering Laboratory	PC	4	0	0	4	2
9.	HS8461	Advanced ReadingandWriting	EEC	2	0	0	2	1
			TOTAL	**29**	**19**	**0**	**10**	**24**

SEMESTERV

S.No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	CE8501	Designof Reinforced CementConcreteElements	PC	5	3	2	0	4
2.	CE8502	StructuralAnalysisI	PC	3	3	0	0	3
3.	EN8491	Water SupplyEngineering	PC	3	3	0	0	3
4.	CE8591	Foundation Engineering	PC	3	3	0	0	3
5.		Professional Elective I	PE	3	3	0	0	3
6.		OpenElectiveI*	OE	3	3	0	0	3
PRACTICALS								
7.	CE8511	SoilMechanics Laboratory	PC	4	0	0	4	2
8.	CE8512	WaterandWaste WaterAnalysis Laboratory	PC	4	0	0	4	2
9.	CE8513	SurveyCamp (2weeks-DuringIVSemester)	EEC	0	0	0	0	2
			TOTAL	**28**	**18**	**2**	**8**	**25**

SEMESTERVI

S.No	COURSECODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	CE8601	Design ofSteelStructuralElements	PC	5	3	2	0	4
2.	CE8602	StructuralAnalysis II	PC	3	3	0	0	3
3.	CE8603	IrrigationEngineering	PC	3	3	0	0	3
4.	CE8604	HighwayEngineering	PC	3	3	0	0	3
5.	EN8592	Wastewater Engineering	PC	3	3	0	0	3
6.		Professional Elective II	PE	3	3	0	0	3
PRACTICALS								
7.	CE8611	Highway Engineering Laboratory	PC	4	0	0	4	2
8.	CE8612	Irrigation andEnvironmental EngineeringDrawing	PC	4	0	0	4	2
			TOTAL	**28**	**18**	**2**	**8**	**23**

SEMESTERVII

S.No	COURSECODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	CE8701	Estimation, Costing andValuation Engineering	PC	3	3	0	0	3
2.	CE8702	Railways,Airports, Docks andHarbour Engineering	PC	3	3	0	0	3
3.	CE8703	Structural Designand Drawing	PC	5	3	0	2	4
4.		Professional Elective III	PE	3	3	0	0	3
5.		OpenElectiveII*	OE	3	3	0	0	3
PRACTICALS								
6.	CE8711	CreativeandInnovative Project(ActivityBased-SubjectRelated)	EEC	4	0	0	4	2
7.	CE8712	IndustrialTraining (4 weeks DuringVISemester-Summer)	EEC	0	0	0	0	2
			TOTAL	**21**	**15**	**0**	**6**	**20**

SEMESTERVIII

S.No	COURSECODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.		Professional ElectiveIV	PE	3	3	0	0	3
2.		Professional ElectiveV	PE	3	3	0	0	3
PRACTICALS								
3.	CE8811	ProjectWork	EEC	20	0	0	20	10
			TOTAL	**26**	**6**	**0**	**20**	**16**

TOTALNO. OFCREDITS:182

*CoursefromthecurriculumofotherUGProgrammes.

HUMANITIESANDSOCIALSCIENCES(HS)

S.No	COURSECODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8151	CommunicativeEnglish	HS	4	4	0	0	4
2.	HS8251	TechnicalEnglish	HS	4	4	0	0	4
3.	GE8291	EnvironmentalScience andEngineering	HS	3	3	0	0	3

BASICSCIENCES(BS)

S.No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	MA8151	EngineeringMathematics-I	BS	4	4	0	0	4
2.	PH8151	EngineeringPhysics	BS	3	3	0	0	3
3.	CY8151	EngineeringChemistry	BS	3	3	0	0	3
4.	BS8161	Physics and ChemistryLaboratory	BS	4	0	0	4	2
5.	MA8251	Engineering Mathematics-II	BS	4	4	0	0	4
6.	PH8201	PhysicsforCivil Engineering	BS	3	3	0	0	3
7.	MA8353	TransformsandPartial DifferentialEquations	BS	4	4	0	0	4
8.	MA8491	NumericalMethods	BS	4	4	0	0	4

ENGINEERINGSCIENCES(ES)

S.No.	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	GE8151	Problem Solving andPythonProgramming	ES	3	3	0	0	3
2.	GE8152	EngineeringGraphics	ES	6	2	0	4	4
3.	GE8161	Problem Solving andPython ProgrammingLaboratory	ES	4	0	0	4	2
4.	BE8251	BasicElectricalandElectronicsEngineering	ES	3	3	0	0	3
5.	GE8292	EngineeringMechanics	ES	5	3	2	0	4
6.	GE8261	Engineering PracticesLaboratory	ES	4	0	0	4	2
7.	CE8392	EngineeringGeology	ES	3	3	0	0	3

PROFESSIONALCORE(PC)

S.No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CE8211	ComputerAidedBuilding Drawing	PC	4	0	0	4	2
2.	CE8391	ConstructionMaterials	PC	3	3	0	0	3
3.	CE8301	StrengthofMaterialsI	PC	3	3	0	0	3
4.	CE8302	FluidMechanics	PC	3	3	0	0	3
5.	CE8351	Surveying	PC	3	3	0	0	3

6.	CE8481	StrengthofMaterialsLaboratory	PC	4	0	0	4	2
7.	CE8361	SurveyingLaboratory	PC	4	0	0	4	2
8.	CE8311	Construction MaterialsLaboratory	PC	4	0	0	4	2
9.	CE8401	ConstructionTechniquesand Practices	PC	3	3	0	0	3
10.	CE8402	StrengthofMaterialsII	PC	3	3	0	0	3
11.	CE8403	AppliedHydraulic Engineering	PC	3	3	0	0	3
12.	CE8404	ConcreteTechnology	PC	3	3	0	0	3
13.	CE8491	SoilMechanics	PC	3	3	0	0	3
14.	CE8461	HydraulicEngineering Laboratory	PC	4	0	0	4	2
15.	CE8501	DesignofReinforced CementConcreteElements	PC	5	3	2	0	4
16.	CE8502	StructuralAnalysisI	PC	3	3	0	0	3
17.	CE8511	SoilMechanics Laboratory	PC	4	0	0	4	2
18.	CE8512	Water andWasteWaterAnalysisLaboratory	PC	4	0	0	4	2
19.	CE8591	FoundationEngineering	PC	3	3	0	0	3
20.	CE8601	DesignofSteelStructural Elements	PC	5	3	2	0	4
21.	CE8602	StructuralAnalysisII	PC	3	3	0	0	3
22.	CE8603	IrrigationEngineering	PC	3	3	0	0	3
23.	CE8604	HighwayEngineering	PC	3	3	0	0	3
24.	CE8611	HighwayEngineering Laboratory	PC	4	0	0	4	2
25.	CE8612	Irrigationand EnvironmentalEngineeringDrawing	PC	4	0	0	4	2
26.	EN8592	WastewaterEngineering	PC	3	3	0	0	3
27.	EN8491	Water SupplyEngineering	PC	3	3	0	0	3
28.	CE8701	Estimation,Costingand ValuationEngineering	PC	3	3	0	0	3
29.	CE8702	Railways, Airports, DocksandHarbour Engineering	PC	3	3	0	0	3
30.	CE8703	Structural Design andDrawing	PC	5	3	0	2	4

EMPLOYABILITYENHANCEMENTCOURSES(EEC)

S.No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8381	Interpersonal Skills /ListeningandSpeaking	EEC	2	0	0	2	1
2.	HS8461	Advanced Reading andWriting	EEC	2	0	0	2	1
3.	CE8513	Survey Camp(2weeks -DuringIVSemester)	EEC	0	0	0	0	2
4.	CE8711	CreativeandInnovative Project(ActivityBased-SubjectRelated)	EEC	4	0	0	4	2
5.	CE8712	Industrial Training(4 weeksDuringVI Semester-Summer)	EEC	0	0	0	0	2
6.	CE8811	ProjectWork	EEC	20	0	0	20	10

PROFESSIONALELECTIVE

SEMESTERVE LECTIVE-I

S.No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	GI8012	DigitalCadastre	PE	3	3	0	0	3
2.	GI8013	AdvancedSurveying	PE	3	3	0	0	3
3.	GI8014	Geographic InformationSystem	PE	3	3	0	0	3
4.	GI8015	GeoinformaticsApplicationsfor CivilEngineers	PE	3	3	0	0	3
5.	GI8491	Total Station and GPSSurveying	PE	3	3	0	0	3
6.	GE8071	Disaster Management	PE	3	3	0	0	3
7.	GE8074	HumanRights	PE	3	3	0	0	3

SEMESTERVIE LECTIVE -II

S.No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CE8001	Ground ImprovementTechniques	PE	3	3	0	0	3
2.	CE8002	Introduction to SoilDynamicsandMachine Foundations	PE	3	3	0	0	3
3.	CE8003	RockEngineering	PE	3	3	0	0	3
4.	CE8004	Urban Planning andDevelopment	PE	3	3	0	0	3
5.	CE8005	Air Pollution and ControlEngineering	PE	3	3	0	0	3
6.	GE8075	IntellectualPropertyRights	PE	3	3	0	0	3

SEMESTERVIIELECTIVE–III

S.No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CE8006	PavementEngineering	PE	3	3	0	0	3
2.	CE8007	Traffic Engineering andManagement	PE	3	3	0	0	3
3.	CE8008	TransportandEnvironment	PE	3	3	0	0	3
4.	CE8009	IndustrialStructures	PE	3	3	0	0	3
5.	CE8010	Environmental and SocialImpactAssessment	PE	3	3	0	0	3
6.	CE8011	Design of PrestressedConcrete Structures	PE	3	3	0	0	3
7.	CE8012	Construction Planning andScheduling	PE	3	3	0	0	3
8.	EN8591	Municipal Solid WasteManagement	PE	3	3	0	0	3
9.	GE8077	TotalQualityManagement	PE	3	3	0	0	3

SEMESTERVIIIELECTIVE–IV

S.No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CE8013	CoastalEngineering	PE	3	3	0	0	3
2.	CE8014	Participatory WaterResourcesManagement	PE	3	3	0	0	3
3.	CE8015	Integrated Water ResourcesManagement	PE	3	3	0	0	3
4.	CE8016	GroundwaterEngineering	PE	3	3	0	0	3
5.	CE8017	Water Resources SystemsEngineering	PE	3	3	0	0	3
6.	CE8018	Geo-Environmental Engineering	PE	3	3	0	0	3
7.	CE8091	Hydrology and WaterResourcesEngineering	PE	3	3	0	0	3
8.	GE8076	ProfessionalEthicsin Engineering	PE	3	3	0	0	3

SEMESTERVIIIELECTIVE–V

S.No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CE8019	Computer Aided Design ofStructures	PE	3	3	0	0	3
2.	CE8020	Maintenance, Repair andRehabilitationofStructures	PE	3	3	0	0	3
3.	CE8021	Structural Dynamics andEarthquakeEngineering	PE	3	3	0	0	3
4.	CE8022	PrefabricatedStructures	PE	3	3	0	0	3
5.	CE8023	BridgeEngineering	PE	3	3	0	0	3
6.	GE8073	Fundamentals of NanoScience	PE	3	3	0	0	3

ANNAUNIVERSITY,CHENNAI
AFFILIATEDINSTITUTIONS
B.E. COMPUTER SCIENCE AND ENGINEERINGREGULATIONS – 2017
CHOICEBASEDCREDITSYSTEM

PROGRAMEDUCATIONALOBJECTIVES(PEOs):

1.To enable graduates to pursue higher education and research, or have a successful careerin industries associated with Computer Science and Engineering, or as entrepreneurs. Toensure that graduates will have the ability and attitude to adapt to emerging technologicalchanges.

PROGRAMOUTCOMESPOs:

EngineeringGraduateswillbeableto:

1. **Engineeringknowledge**:Applytheknowledgeofmathematics,science,engineeringfundamentals and an engineering specialization to the solution of complex engineeringproblems.
2. **Problem analysis**: Identify, formulate, review research literature, and analyze complexengineeringproblemsreachingsubstantiatedconclusionsusingfirstprinciplesofmathematics,naturalsciences,andengineeringsciences.
3. **Design/development of solutions**: Design solutions for complex engineering problemsanddesignsystemcomponentsorprocessesthatmeetthespecifiedneedswithappropriate consideration for the public health and safety, and the cultural, societal, andenvironmentalconsiderations.
4. **Conductinvestigationsofcomplexproblems**:Useresearch-basedknowledgeandresearch methods including design of experiments, analysis and interpretation of data, andsynthesisofthe informationtoprovidevalidconclusions.
5. **Modern tool usage**: Create, select, and apply appropriate techniques, resources, andmodern engineering and IT tools including prediction and modeling to complex engineeringactivitieswithanunderstandingofthelimitations.
6. **The engineer and society**: Apply reasoning informed by the contextual knowledge toassesssocietal,health,safety,legalandculturalissuesandtheconsequentresponsibilities relevanttotheprofessionalengineeringpractice.
7. **Environment and sustainability**: Understand the impact of the professional engineeringsolutions in societal and environmental contexts, and demonstrate the knowledge of, andneedforsustainabledevelopment.
8. **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities andnorms oftheengineeringpractice.
9. **Individual and team work**: Function effectively as an individual, and as a member orleaderindiverseteams,andinmultidisciplinarysettings.
10. **Communication**:Communicateeffectivelyoncomplexengineeringactivitieswiththeengineering community and with society at large, such as, being able to comprehend andwrite effective reports and design documentation, make effective presentations, and giveandreceiveclearinstructions

	PEOs	
POs	1. Graduateswillpursue highereducationandr esearch,orhave asuccessfulcareerini ndustries associatedwithComp uterScienceandEngi neering, or asentrepreneurs.	2.Graduateswillh ave the abilityand attitude toadapttoemer gingtechnologi calchanges.
1. **Engineering knowledge**: Apply the knowledgeofmathematics,science,engineeringf undamentals,andanengineeringspecializationto thesolutionofcomplex engineeringproblems.	3	1
2. **Problem analysis**: Identify, formulate, reviewresearchliterature,andanalyzecomplexen gineeringproblemsreachingsubstantiatedconclu sionsusingfirstprinciplesof mathematics,naturalsciences,andengineerings ciences.	3	1
3. **Design/developmentofsolutions**:Designsoluti onsforcomplexengineeringproblemsand design system components or processesthat meet the specified needs with appropriateconsideration for the public health and safety,andthecultural,societal,andenvironmenta lconsiderations.	3	2
4. **Conductinvestigationsofcomplexproblems**: Use research-based knowledge andresearchmethodsincludingdesignofexperim ents,analysisandinterpretationofdata,andsynthe sisoftheinformationtoprovidevalidconclusions.	3	2
5. **Modern tool usage**: Create, select, and applyappropriate techniques, resources, and modernengineeringandITtoolsincludingpredictio nand modeling to complex engineering activitieswith anunderstanding ofthelimitations.	2	3
6. **The engineerandsociety**:Applyreasoninginformedb ythecontextualknowledgetoassesssocietal,healt h,safety,legalandculturalissuesandtheconseque ntresponsibilitiesrelevanttotheprofessionalengin eeringpractice.	2	2

7. **Environmentandsustainability**: Understandtheimpactoftheprofessionalengineeringsolutionsinsocietalandenvironmentalcontexts,anddemonstrate theknowledgeof,andneedforsustainabledevelopment.	2	1
8.Ethics: Apply ethical principles and commit toprofessionalethicsandresponsibilitiesandnorms oftheengineeringpractice.	3	1
9.Individual and team work: Function effectivelyas an individual, and as a member or leader indiverseteams, andinmultidisciplinarysettings.	3	2
10. Communication:Communicateeffectivelyoncomplexengineeringactivitieswiththeengineeringcommunityandwithsocietyatlarge, such as, being able to comprehend andwriteeffectivereportsanddesigndocumentation,makeeffectivepresentations,andgiveandreceiveclearinstructions.	3	2
11. Projectmanagementandfinance:Demonstrate knowledge and understandingofthe engineering and management principles andapply thesetoone'sownwork,asa memberand leader in a team, to manage projects and inmultidisciplinary environments.	2	2
12. Life-longlearning:Recognizetheneedfor,andhavethe preparationandabilitytoengageinindependentand life-longlearninginthe broadestcontext oftechnologicalchange.	1	3

PSOs		
1.Analyze,designand developcomputingsolutionsby applyingfoundationalconceptsofcomputerscienceand engineering.	3	1
2.Applysoftwareengineeringprinciplesandpracticesfordevelopingqualitysoftwareforscientificand businessapplications.	3	1
3.Adapttoemerginginformationandcommunicationtechnologies(ICT)toinnovateideasandsolutions toexisting/novelproblems.	1	3

ANNAUNIVERSITY,CHENNAI
AFFILIATEDINSTITUTIONS
B.E. COMPUTER SCIENCE AND ENGINEERINGREGULATIONS – 2017
CHOICEBASEDCREDITSYSTEM
I - VIII SEMESTERS CURRICULA AND SYLLABISEMESTERI

Sl. No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8151	CommunicativeEnglish	HS	4	4	0	0	4
2.	MA8151	EngineeringMathematics -I	BS	4	4	0	0	4
3.	PH8151	EngineeringPhysics	BS	3	3	0	0	3
4.	CY8151	EngineeringChemistry	BS	3	3	0	0	3
5.	GE8151	Problem Solving andPythonProgramming	ES	3	3	0	0	3
6.	GE8152	EngineeringGraphics	ES	6	2	0	4	4
PRACTICALS								
7.	GE8161	Problem Solving andPythonProgramming Laboratory	ES	4	0	0	4	2
8.	BS8161	Physics and	BS	4	0	0	4	2

SEMESTERII

Sl.No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8251	TechnicalEnglish	HS	4	4	0	0	4
2.	MA8251	EngineeringMathematics-II	BS	4	4	0	0	4
3.	PH8252	Physics for InformationScience	BS	3	3	0	0	3
4.	BE8255	Basic Electrical,Electronics andMeasurement Engineering	ES	3	3	0	0	3
5.	GE8291	Environmental ScienceandEngineering	HS	3	3	0	0	3
6.	CS8251	ProgramminginC	PC	3	3	0	0	3
PRACTICALS								
7.	GE8261	Engineering PracticesLaboratory	ES	4	0	0	4	2
8.	CS8261	C ProgrammingLaboratory	PC	4	0	0	4	2
			TOTAL	**28**	**20**	**0**	**8**	**24**

SEMESTERIII

Sl.No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8351	DiscreteMathematics	BS	4	4	0	0	4
2.	CS8351	Digital Principles andSystemDesign	ES	4	4	0	0	4
3.	CS8391	DataStructures	PC	3	3	0	0	3
4.	CS8392	Object OrientedProgramming	PC	3	3	0	0	3
5.	EC8395	Communication Engineering	ES	3	3	0	0	3
PRACTICALS								
6.	CS8381	Data StructuresLaboratory	PC	4	0	0	4	2
7.	CS8383	ObjectOriented ProgrammingLaboratory	PC	4	0	0	4	2
8.	CS8382	Digital SystemsLaboratory	ES	4	0	0	4	2
9.	HS8381	Interpersonal Skills/Listening &Speaking	EEC	2	0	0	2	1
			TOTAL	**31**	**17**	**0**	**14**	**24**

SEMESTERIV

Sl. No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8402	ProbabilityandQueueingTheory	BS	4	4	0	0	4
2.	CS8491	ComputerArchitecture	PC	3	3	0	0	3
3.	CS8492	Database ManagementSystems	PC	3	3	0	0	3
4.	CS8451	DesignandAnalysis of Algorithms	PC	3	3	0	0	3
5.	CS8493	OperatingSystems	PC	3	3	0	0	3
6.	CS8494	SoftwareEngineering	PC	3	3	0	0	3
PRACTICALS								
7.	CS8481	Database ManagementSystemsLaboratory	PC	4	0	0	4	2
8.	CS8461	Operating SystemsLaboratory	PC	4	0	0	4	2
9.	HS8461	Advanced Reading andWriting	EEC	2	0	0	2	1
			TOTAL	**29**	**19**	**0**	**10**	**24**

SEMESTERV

Sl. No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8551	AlgebraandNumberTheory	BS	4	4	0	0	4
2.	CS8591	ComputerNetworks	PC	3	3	0	0	3
3.	EC8691	Microprocessors andMicrocontrollers	PC	3	3	0	0	3
4.	CS8501	TheoryofComputation	PC	3	3	0	0	3
5.	CS8592	Object Oriented AnalysisandDesign	PC	3	3	0	0	3
6.		OpenElectiveI	OE	3	3	0	0	3
PRACTICALS								
7.	EC8681	Microprocessorsand MicrocontrollersLaboratory	PC	4	0	0	4	2
8.	CS8582	Object Oriented Analysisand DesignLaboratory	PC	4	0	0	4	2
9.	CS8581	NetworksLaboratory	PC	4	0	0	4	2
			TOTAL	**31**	**19**	**0**	**12**	**25**

SEMESTERVI

Sl. No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	CS8651	InternetProgramming	PC	3	3	0	0	3
2.	CS8691	ArtificialIntelligence	PC	3	3	0	0	3
3.	CS8601	MobileComputing	PC	3	3	0	0	3
4.	CS8602	CompilerDesign	PC	5	3	0	2	4
5.	CS8603	DistributedSystems	PC	3	3	0	0	3
6.		ProfessionalElectiveI	PE	3	3	0	0	3
PRACTICALS								
7.	CS8661	InternetProgrammingLaboratory	PC	4	0	0	4	2
8.	CS8662	MobileApplication DevelopmentLaboratory	PC	4	0	0	4	2
9.	CS8611	MiniProject	EEC	2	0	0	2	1
			TOTAL	**30**	**18**	**0**	**12**	**24**

SEMESTERVII

Sl. No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MG8591	Principles ofManagement	HS	3	3	0	0	3
2.	CS8792	Cryptography andNetwork Security	PC	3	3	0	0	3
3.	CS8791	CloudComputing	PC	3	3	0	0	3
4.		OpenElectiveII	OE	3	3	0	0	3
5.		ProfessionalElectiveII	PE	3	3	0	0	3
6.		Professional Elective III	PE	3	3	0	0	3
PRACTICALS								
7.	CS8711	Cloud ComputingLabor atory	PC	4	0	0	4	2
8.	IT8761	SecurityLaboratory	PC	4	0	0	4	2
			TOTAL	**26**	**18**	**0**	**8**	**22**

SEMESTERVIII

Sl. No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.		ProfessionalElectiveIV	PE	3	3	0	0	3
2.		ProfessionalElectiveV	PE	3	3	0	0	3
PRACTICALS								
3.	CS8811	ProjectWork	EEC	20	0	0	20	10
			TOTAL	**26**	**6**	**0**	**20**	**16**

TOTALNO. OFCREDITS:184

HUMANITIESANDSOCIALSCIENCES(HS)

SI. NO	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8151	CommunicativeEnglish	HS	4	4	0	0	4
2.	HS8251	TechnicalEnglish	HS	4	4	0	0	4
3.	GE8291	Environmental ScienceandEngineering	HS	3	3	0	0	3
4.	MG8591	PrinciplesofManagement	HS	3	3	0	0	3

BASICSCIENCES(BS)

SI. NO	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	MA8151	EngineeringMathematicsI	BS	4	4	0	0	4
2.	PH8151	EngineeringPhysics	BS	3	3	0	0	3
3.	CY8151	EngineeringChemistry	BS	3	3	0	0	3
4.	BS8161	Physics and ChemistryLaboratory	BS	4	0	0	4	2
5.	MA8251	Engineering MathematicsII	BS	4	4	0	0	4
6.	PH8252	Physics for InformationScience	BS	3	3	0	0	3
7.	MA8351	DiscreteMathematics	BS	4	4	0	0	4
8.	MA8402	ProbabilityandQueueingTheory	BS	4	4	0	0	4
9.	MA8551	AlgebraandNumberTheory	BS	4	4	0	0	4

ENGINEERINGSCIENCES(ES)

SI. NO	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	GE8151	Problem Solving andPythonProgramming	ES	3	3	0	0	3
2.	GE8152	EngineeringGraphics	ES	6	2	0	4	4
3.	GE8161	Problem Solving andPythonProgramming Laboratory	ES	4	0	0	4	2
4.	BE8255	BasicElectrical,Electronics and MeasurementEngineering	ES	3	3	0	0	3
5.	GE8261	Engineering PracticesLaboratory	ES	4	0	0	4	2
6.	CS8351	Digital Principles andSystemDesign	ES	4	4	0	0	4
7.	EC8395	Communication Engineering	ES	3	3	0	0	3
8.	CS8382	DigitalSystemsLaboratory	ES	4	0	0	4	2

PROFESSIONALCORE(PC)

Sl. NO	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CS8251	ProgramminginC	PC	3	3	0	0	3
2.	CS8261	CProgrammingLaboratory	PC	4	0	0	4	2
3.	CS8391	DataStructures	PC	3	3	0	0	3
4.	CS8392	Object OrientedProgramming	PC	3	3	0	0	3
5.	CS8381	DataStructuresLaboratory	PC	4	0	0	4	2
6.	CS8383	ObjectOrientedProgrammingLaboratory	PC	4	0	0	4	2
7.	CS8491	ComputerArchitecture	PC	3	3	0	0	3
8.	CS8492	Database ManagementSystems	PC	3	3	0	0	3
9.	CS8451	DesignandAnalysis of Algorithms	PC	3	3	0	0	3
10.	CS8493	OperatingSystems	PC	3	3	0	0	3
11.	CS8494	SoftwareEngineering	PC	3	3	0	0	3
12.	CS8481	Database ManagementSystemsLaboratory	PC	4	0	0	4	2
13.	CS8461	Operating SystemsLaboratory	PC	4	0	0	4	2
14.	CS8591	ComputerNetworks	PC	3	3	0	0	3
15.	EC8691	Microprocessors andMicrocontrollers	PC	3	3	0	0	3
16.	CS8501	TheoryofComputation	PC	3	3	0	0	3
17.	CS8592	Object Oriented AnalysisandDesign	PC	3	3	0	0	3
18.	EC8681	MicroprocessorsandMicrocontrollersLaboratory	PC	4	0	0	4	2
19.	CS8582	Object Oriented Analysisand DesignLaboratory	PC	4	0	0	4	2
20.	CS8581	NetworksLaboratory	PC	4	0	0	4	2
21.	CS8651	InternetProgramming	PC	3	3	0	0	3
22.	CS8691	ArtificialIntelligence	PC	3	3	0	0	3
23.	CS8601	MobileComputing	PC	3	3	0	0	3
24.	CS8602	CompilerDesign	PC	5	3	0	2	4
25.	CS8603	DistributedSystems	PC	3	3	0	0	3
26.	CS8661	InternetProgrammingLaboratory	PC	4	0	0	4	2
27.	CS8662	Mobile ApplicationDevelopment Laboratory	PC	4	0	0	4	2
28.	CS8792	Cryptography and NetworkSecurity	PC	3	3	0	0	3
29.	CS8791	CloudComputing	PC	3	3	0	0	3
30.	CS8711	Cloud ComputingLaboratory	PC	4	0	0	4	2
31.	IT8761	SecurityLaboratory	PC	4	0	0	4	2

PROFESSIONALELECTIVES(PE)

SEMESTER VIELECTIVE-I

Sl. No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CS8075	Data Warehousing andDataMining	PE	3	3	0	0	3
2.	IT8076	SoftwareTesting	PE	3	3	0	0	3
3.	IT8072	EmbeddedSystems	PE	3	3	0	0	3
4.	CS8072	AgileMethodologies	PE	3	3	0	0	3
5.	CS8077	Graph Theory andApplications-	PE	3	3	0	0	3
6.	IT8071	DigitalSignalProcessing	PE	3	3	0	0	3
7.	GE8075	Intellectual PropertyRights	PE	3	3	0	0	3

SEMESTER VIIELECTIVE-II

Sl. No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CS8091	Big DataAnalytics	PE	3	3	0	0	3
2.	CS8082	Machine LearningTechniques	PE	3	3	0	0	3
3.	CS8092	Computer Graphics andMultimedia	PE	3	3	0	0	3
4.	IT8075	Software ProjectManagement	PE	3	3	0	0	3
5.	CS8081	InternetofThings	PE	3	3	0	0	3
6.	IT8074	Service OrientedArchitecture	PE	3	3	0	0	3
7.	GE8077	TotalQualityManagement	PE	3	3	0	0	3

SEMESTER VIIELECTIVE-III

Sl. No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CS8083	Multi-core Architectures andProgramming	PE	3	3	0	0	3
2.	CS8079	Human ComputerInteraction	PE	3	3	0	0	3
3.	CS8073	C#and.Net Programming	PE	3	3	0	0	3
4.	CS8088	Wireless Adhoc and SensorNetworks	PE	3	3	0	0	3
5.	CS8071	Advanced Topicson Databases	PE	3	3	0	0	3
6.	GE8072	FoundationSkillsin Integrated ProductDevelopm	PE	3	3	0	0	3

		ent						
7.	GE8074	HumanRights	PE	3	3	0	0	3
8.	GE8071	Disaster Management	PE	3	3	0	0	3

SEMESTER VIIIELECTIVE-IV

Sl. No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	EC8093	DigitalImageProcessing	PE	3	3	0	0	3
2.	CS8085	SocialNetworkAnalysis	PE	3	3	0	0	3
3.	IT8073	InformationSecurity	PE	3	3	0	0	3
4.	CS8087	SoftwareDefinedNetworks	PE	3	3	0	0	3
5.	CS8074	CyberForensics	PE	3	3	0	0	3
6.	CS8086	SoftComputing	PE	3	3	0	0	3
7.	GE8076	Professional Ethics inEngineering	PE	3	3	0	0	3

SEMESTER VIIIELECTIVE-V

Sl. No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CS8080	InformationRetrieval Techniques	PE	3	3	0	0	3
2.	CS8078	GreenComputing	PE	3	3	0	0	3
3.	CS8076	GPU Architecture andProgramming	PE	3	3	0	0	3
4.	CS8084	NaturalLanguageProcessing	PE	3	3	0	0	3
5.	CS8001	ParallelAlgorithms	PE	3	3	0	0	3
6.	IT8077	Speech Processing	PE	3	3	0	0	3
7.	GE8073	Fundamentals of NanoScience	PE	3	3	0	0	3

EMPLOYABILITYENHANCEMENTCOURSES(EEC)

Sl. NO	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8381	Interpersonal Skills/Listening&Speaking	EEC	2	0	0	2	1
2.	HS8461	Advanced Reading andWriting	EEC	2	0	0	2	1
3.	CS8611	MiniProject	EEC	2	0	0	2	1
4.	CS8811	ProjectWork	EEC	20	0	0	20	10

ANNAUNIVERSITY,CHENNAI
AFFILIATEDINSTITUTIONS
B.E. ELECTRONICS AND COMMUNICATION
ENGINEERINGREGULATIONS – 2017

PROGRAMMEEDUCATIONALOBJECTIVES:

PEO1: To enable graduates to pursue research, or have a successful career in academia orindustriesassociatedwithElectronicsandCommunicationEngineering,orasentrepreneurs.

PEO2:Toprovidestudentswithstrongfoundationalconceptsandalsoadvancedtechniquesandtoolsin order toenable themtobuild solutions or systemsofvaryingcomplexity.

PEO3:Topreparestudentstocriticallyanalyzeexistingliteratureinanareaofspecializationandethicallyd evelopinnovativeandresearchorientedmethodologiestosolvetheproblems identified.

PROGRAMMEOUTCOMES:

EngineeringGraduateswillbeableto:

1. **Engineeringknowledge**:Applytheknowledgeofmathematics,science,engineeringfundamentals, and an engineering specialization to the solution of complex engineeringproblems.
2. **Problem analysis**: Identify, formulate, review research literature, and analyze complexengineeringproblemsreachingsubstantiatedconclusionsusingfirstprinciplesofmathematics,naturalsciences,andengineeringsciences.
3. **Design/development of solutions**: Design solutions for complex engineering problemsanddesignsystemcomponentsorprocessesthatmeetthespecifiedneedswithappropriate consideration for the public health and safety, and the cultural, societal, andenvironmentalconsiderations.
4. **Conductinvestigationsofcomplexproblems**:Useresearch-basedknowledgeandresearch methods including design of experiments, analysis and interpretation of data, andsynthesisofthe informationtoprovidevalidconclusions.
5. **Modern tool usage**: Create, select, and apply appropriate techniques, resources, andmodern engineering and IT tools including prediction and modeling to complex engineeringactivitieswithanunderstandingofthelimitations.
6. **The engineer and society**: Apply reasoning informed by the contextual knowledge toassesssocietal,health,safety,legalandculturalissuesandtheconsequentresponsibilities relevanttotheprofessionalengineeringpractice.
7. **Environment and sustainability**: Understand the impact of the professional engineeringsolutions in societal and environmental contexts, and demonstrate the knowledge of, andneed forsustainabledevelopment.
8. **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities andnorms ofthe engineeringpractice.
9. **Individual and team work**: Function effectively as an individual, and as a member orleaderindiverseteams,andinmultidisciplinarysettings.
10. **Communication**:Communicateeffectivelyoncomplexengineeringactivitieswiththeengineering community and with society at large, such as, being able to comprehend andwrite effective reports and design documentation, make effective presentations, and giveandreceiveclearinstructions.
11. **Project management and finance**: Demonstrate knowledge and understanding of theengineering and management principles and apply these to one's own work, as a memberand leaderin ateam,tomanageprojectsandinmultidisciplinaryenvironments.
12. **Life-longlearning**:Recognizetheneedfor,andhavethepreparationandabilitytoengageinindependentandlife-longlearninginthebroadestcontextoftechnologicalchange.

ANNAUNIVERSITY,CHENNAI

AFFILIATEDINSTITUTIONS

B.E. ELECTRONICS AND COMMUNICATION

ENGINEERINGREGULATIONS – 2017

CHOICEBASEDCREDITSYSTEM

I - VIII SEMESTERS CURRICULA AND

SYLLABISEMESTERI

Sl. No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8151	CommunicativeEnglish	HS	4	4	0	0	4
2.	MA8151	EngineeringMathematics -I	BS	4	4	0	0	4
3.	PH8151	EngineeringPhysics	BS	3	3	0	0	3
4.	CY8151	EngineeringChemistry	BS	3	3	0	0	3
5.	GE8151	Problem Solving and PythonProgramming	ES	3	3	0	0	3
6.	GE8152	EngineeringGraphics	ES	6	2	0	4	4
PRACTICALS								
7.	GE8161	Problem Solving and PythonProgrammingLaboratory	ES	4	0	0	4	2
8.	BS8161	PhysicsandChemistry Laboratory	BS	4	0	0	4	2

SEMESTERII

Sl. No	COURSECODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8251	TechnicalEnglish	HS	4	4	0	0	4
2.	MA8251	EngineeringMathematics-II	BS	4	4	0	0	4
3.	PH8253	Physics for ElectronicsEngineering	BS	3	3	0	0	3
4.	BE8254	Basic Electrical andInstrumentation Engineering	ES	3	3	0	0	3
5.	EC8251	CircuitAnalysis	PC	4	4	0	0	4
6.	EC8252	ElectronicDevices	PC	3	3	0	0	3
PRACTICALS								
7.	EC8261	Circuits and DevicesLaboratory	PC	4	0	0	4	2
8.	GE8261	Engineering PracticesLaboratory	ES	4	0	0	4	2
			TOTAL	**29**	**21**	**0**	**8**	**25**

SEMESTERIII

Sl. No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8352	Linear Algebra and PartialDifferentialEquations	BS	4	4	0	0	4
2.	EC8393	Fundamentals of DataStructures In C	ES	3	3	0	0	3
3.	EC8351	ElectronicCircuits-I	PC	3	3	0	0	3
4.	EC8352	Signals andSystems	PC	4	4	0	0	4
5.	EC8392	DigitalElectronics	PC	3	3	0	0	3
6.	EC8391	Control SystemsEngineering	PC	3	3	0	0	3
PRACTICALS								
7.	EC8381	FundamentalsofDataStructuresinCLaboratory	ES	4	0	0	4	2
8.	EC8361	Analog and DigitalCircuitsLaboratory	PC	4	0	0	4	2
9.	HS8381	InterpersonalSkills/Listening &Speaking	EEC	2	0	0	2	1
			TOTAL	**30**	**20**	**0**	**10**	**25**

SEMESTERIV

Sl. No	COURSECODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8451	Probability and RandomProcesses	BS	4	4	0	0	4
2.	EC8452	ElectronicCircuitsII	PC	3	3	0	0	3
3.	EC8491	CommunicationTheory	PC	3	3	0	0	3
4.	EC8451	ElectromagneticFields	PC	4	4	0	0	4
5.	EC8453	LinearIntegratedCircuits	PC	3	3	0	0	3
6.	GE8291	Environmental Science andEngineering	HS	3	3	0	0	3
PRACTICALS								
7.	EC8461	Circuits Design andSimulationLaboratory	PC	4	0	0	4	2
8.	EC8462	Linear Integrated CircuitsLaboratory	PC	4	0	0	4	2
			TOTAL	**28**	**20**	**0**	**8**	**24**

SEMESTERV

Sl. No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	EC8501	DigitalCommunication	PC	3	3	0	0	3
2.	EC8553	Discrete-TimeSignalProcessing	PC	4	4	0	0	4
3.	EC8552	Computer Architecture andOrganization	PC	3	3	0	0	3
4.	EC8551	CommunicationNetworks	PC	3	3	0	0	3
5.		ProfessionalElectiveI	PE	3	3	0	0	3
6.		Open Elective I	OE	3	3	0	0	3
PRACTICALS								
7.	EC8562	DigitalSignalProcessing Laboratory	PC	4	0	0	4	2
8.	EC8561	Communication SystemsLaboratory	PC	4	0	0	4	2
9.	EC8563	Communication NetworksLaboratory	PC	4	0	0	4	2
			TOTAL	**31**	**19**	**0**	**12**	**25**

SEMESTERVI

Sl. No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	EC8691	Microprocessors andMicrocontrollers	PC	3	3	0	0	3
2.	EC8095	VLSIDesign	PC	3	3	0	0	3
3.	EC8652	WirelessCommunication	PC	3	3	0	0	3
4.	MG8591	PrinciplesofManagement	HS	3	3	0	0	3
5.	EC8651	Transmission Lines and RFSystems	PC	3	3	0	0	3
6.		Professional Elective-II	PE	3	3	0	0	3
PRACTICALS								
7.	EC8681	MicroprocessorsandMicrocontrollersLaboratory	PC	4	0	0	4	2
8.	EC8661	VLSIDesignLaboratory	PC	4	0	0	4	2
9.	EC8611	TechnicalSeminar	EEC	2	0	0	2	1
			TOTAL	**28**	**18**	**0**	**10**	**23**

SEMESTERVII

Sl.No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	EC8701	Antennas and MicrowaveEngineering	PC	3	3	0	0	3
2.	EC8751	OpticalCommunication	PC	3	3	0	0	3
3.	EC8791	Embedded and Real TimeSystems	PC	3	3	0	0	3
4.	EC8702	AdhocandWireless SensorNetworks	PC	3	3	0	0	3
5.		ProfessionalElective-III	PE	3	3	0	0	3
6.		OpenElective-II	OE	3	3	0	0	3
PRACTICALS								
7.	EC8711	EmbeddedLaboratory	PC	4	0	0	4	2
8.	EC8761	Advanced CommunicationLaboratory	PC	4	0	0	4	2
			TOTAL	**26**	**18**	**0**	**8**	**22**

SEMESTERVIII

Sl. No	COURSECODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.		Professional Elective IV	PE	3	3	0	0	3
2.		ProfessionalElectiveV	PE	3	3	0	0	3
PRACTICALS								
3.	EC8811	ProjectWork	EEC	20	0	0	20	10
			TOTAL	**26**	**6**	**0**	**20**	**16**

TOTALNO. OFCREDITS:185

HUMANITIESANDSOCIALSCIENCES(HS)

SI.NO	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8151	CommunicativeEnglish	HS	4	4	0	0	4
2.	HS8251	TechnicalEnglish	HS	4	4	0	0	4
3.	GE8291	Environmental ScienceandEngineering	HS	3	3	0	0	3
4.	MG8591	Principlesof Management	HS	3	3	0	0	3

BASICSCIENCES(BS)

SI.NO	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	MA8151	EngineeringMathematicsI	BS	4	4	0	0	4
2.	PH8151	EngineeringPhysics	BS	3	3	0	0	3
3.	CY8151	EngineeringChemistry	BS	3	3	0	0	3
4.	BS8161	Physics and ChemistryLaboratory	BS	4	0	0	4	2
5.	MA8251	Engineering MathematicsII	BS	4	4	0	0	4
6.	PH8253	Physics for ElectronicsEngineering	BS	3	3	0	0	3
7.	MA8352	Linear Algebraand PartialDifferential Equations	BS	4	4	0	0	4
8.	MA8451	Probability and RandomProcesses	BS	4	4	0	0	4

ENGINEERINGSCIENCES(ES)

SI. NO	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	GE8151	Problem Solving and PythonProgramming	ES	3	3	0	0	3
2.	GE8152	EngineeringGraphics	ES	6	2	0	4	4
3.	GE8161	Problem Solving and PythonProgrammingLaboratory	ES	4	0	0	4	2
4.	BE8254	BasicElectricalandInstrumentationEngineering	ES	3	3	0	0	3
5.	GE8261	Engineering PracticesLaboratory	ES	4	0	0	4	2
6.	EC8393	Fundamentals of DataStructures In C	ES	3	3	0	0	3
7.	EC8381	Fundamentals of DataStructuresinCLaboratory	ES	4	0	0	4	2

PROFESSIONALCORE(PC)

SI.NO	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	EC8251	CircuitAnalysis	PC	4	4	0	0	4
2.	EC8252	ElectronicDevices	PC	3	3	0	0	3
3.	EC8261	Circuits and DevicesLab	PC	4	0	0	4	2
4.	EC8351	ElectronicCircuits-I	PC	3	3	0	0	3
5.	EC8352	Signals andSystems	PC	4	4	0	0	4
6.	EC8392	DigitalElectronics	PC	3	3	0	0	3
7.	EC8391	Control SystemEngine ering	PC	3	3	0	0	3
8.	EC8361	Analog andDigital CircuitsLaboratory	PC	4	0	0	4	2
9.	EC8452	Electronic CircuitsII	PC	3	3	0	0	3
10.	EC8491	Communication Theory	PC	3	3	0	0	3
11.	EC8451	Electromagnetic Fields	PC	4	4	0	0	4
12.	EC8453	LinearIntegrated Circuits	PC	3	3	0	0	3
13.	EC8461	CircuitsDesignand Simulation Laboratory	PC	4	0	0	4	2
14.	EC8462	LinearIntegratedCi rcuitsLaboratory	PC	4	0	0	4	2
15.	EC8501	DigitalCommun ication	PC	3	3	0	0	3
16.	EC8553	Discrete-Time SignalProcessing	PC	4	4	0	0	4
17.	EC8651	Transmission LinesandRFSyste ms	PC	3	3	0	0	3
18.	EC8552	ComputerArchit ecture andOrganization	PC	3	3	0	0	3
19.	EC8551	Communication Networks	PC	3	3	0	0	3
20.	EC8562	DigitalSignal Processing Laboratory	PC	4	0	0	4	2
21.	EC8561	CommunicationSyst emsLaboratory	PC	4	0	0	4	2
22.	EC8563	Communication NetworksLaboratory	PC	4	0	0	4	2
23.	EC8691	Microprocessors andMicrocontrollers	PC	3	3	0	0	3

24.	EC8095	VLSIDesign	PC	3	3	0	0	3
25.	EC8652	WirelessCommunication	PC	3	3	0	0	3
26.	EC8661	VLSIDesign Laboratory	PC	4	0	0	4	2
27.	EC8681	Microprocessors andMicrocontrollers Laboratory	PC	4	0	0	4	2
28.	EC8701	Antennasand Microwave Engineering	PC	3	3	0	0	3
29.	EC8751	OpticalCommunication	PC	3	3	0	0	3
30.	EC8791	Embedded and RealTimeSystems	PC	3	3	0	0	3
31.	EC8702	Ad hoc and WirelessSensorNetworks	PC	3	3	0	0	3
32.	EC8711	Embedded Laboratory	PC	4	0	0	4	2
33.	EC8761	Advanced Communication Laboratory	PC	4	0	0	4	2

PROFESSIONALELECTIVES(PE)*SEMESTERV

ELECTIVEI

SI. No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CS8392	Object OrientedProgramming	PE	3	3	0	0	3
2.	EC8073	MedicalElectronics	PE	3	3	0	0	3
3.	CS8493	OperatingSystems	PE	3	3	0	0	3
4.	EC8074	RoboticsandAutomation	PE	3	3	0	0	3
5.	EC8075	Nano Technology andApplications	PE	3	3	0	0	3
6.	GE8074	HumanRights	PE	3	3	0	0	3
7.	GE8077	TotalQualityManagement	PE	3	3	0	0	3

SEMESTER VIELECTIVE II

Sl. No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CS8792	Cryptography and NetworkSecurity	PE	3	3	0	0	3
2.	EC8091	Advanced Digital SignalProcessing	PE	3	3	0	0	3
3.	EC8001	MEMS and NEMS	PE	3	3	0	0	3
4.	EC8002	MultimediaCompression andCommunication	PE	3	3	0	0	3
5.	EC8003	CMOSAnalogICDesign	PE	3	3	0	0	3
6.	EC8004	WirelessNetworks	PE	3	3	0	0	3
7.	GE8075	IntellectualPropertyRights	PE	3	3	0	0	3

SEMESTER VIIELECTIV EIII

Sl. No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	EC8092	Advanced WirelessCommunic ation	PE	3	3	0	0	3
2.	EC8071	CognitiveRadio	PE	3	3	0	0	3
3.	GE8072	FoundationSkillsin Integrated ProductDevelopm ent	PE	3	3	0	0	3
4.	CS8082	Machine LearningTechniqu es	PE	3	3	0	0	3
5.	EC8005	Electronics Packaging andTesting	PE	3	3	0	0	3
6.	EC8006	Mixed SignalICDesign	PE	3	3	0	0	3
7.	GE8071	Disaster Management	PE	3	3	0	0	3

SEMESTER VIIIELECTIV EIV

Sl.No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	EC8072	Electro MagneticInterfer enceand Compatibility	PE	3	3	0	0	3
2.	EC8007	LowpowerSoC Design	PE	3	3	0	0	3
3.	EC8008	PhotonicNetworks	PE	3	3	0	0	3
4.	EC8009	CompressiveSensing	PE	3	3	0	0	3
5.	EC8093	Digital ImageProces sing	PE	3	3	0	0	3
6.	GE8076	ProfessionalEthicsin Engineering	PE	3	3	0	0	3

SEMESTER VIIIELECTIV EV

Sl.No	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	EC8010	VideoAnalytics	PE	3	3	0	0	3
2.	EC8011	DSP Architecture andProgramming	PE	3	3	0	0	3
3.	EC8094	Satellite Communication	PE	3	3	0	0	3
4.	CS8086	SoftComputing	PE	3	3	0	0	3
5.	IT8006	Principles of SpeechProcessing	PE	3	3	0	0	3
6.	GE8073	Fundamentals of NanoScience	PE	3	3	0	0	3

ANNAUNIVERSITY,CHENNAI

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ANNAUNIVERSITYREGULATIONS 2021

CHOICEBASEDCREDITSYSTEM

B.E.ELECTRICALANDELECTRONICSENGINEERINGC

URRICULAANDSYLLABIFORSEMESTERI &II

SEMESTER–I

S. NO.	COURSE CODE	COURSETITLE	CATE-GORY	PERIODS PERWEEK			TOTALCONTACTPERIODS	CREDITS
				L	T	P		
1.	IP3151	InductionProgramme	-	-	-	-	-	0
THEORY								
2.	HS3151	ProfessionalEnglish-I	HSMC	3	1	0	4	4
3.	MA3151	MatricesandCalculus	BSC	3	1	0	4	4
4.	PH3151	EngineeringPhysics	BSC	3	0	0	3	3
5.	CY3151	EngineeringChemistry	BSC	3	0	0	3	3
6.	GE3151	Problem Solving andPythonProgramming	ESC	3	0	0	3	3
PRACTICALS								
7.	GE3171	Problem Solving and PythonProgramming Laboratory	ESC	0	0	4	4	2
8.	BS3171	Physics and ChemistryLaboratory	BSC	0	0	4	4	2
			TOTAL	**15**	**2**	**8**	**25**	**21**

SEMESTER–II

S. NO.	COURSE CODE	COURSETITLE	CATE-GORY	PERIODSPER WEEK			TOTALCONTACTPERIODS	CREDITS
				L	T	P		
THEORY								
1.	HS3251	ProfessionalEnglish -II	HSMC	3	1	0	4	4
2.	MA3251	Statistics and NumericalMethods	BSC	3	1	0	4	4
3.	PH3202	PhysicsforElectrical Engineering	BSC	3	0	0	3	3
4.	BE3255	Basic Civil and MechanicalEngineering	ESC	3	0	0	3	3
5.	GE3251	EngineeringGraphics	ESC	2	0	4	6	4
6.	EE3251	ElectricCircuitAnalysis	PCC	3	1	0	4	4
7.		NCCCreditCourseLevel1*	-	2	0	0	2	2
PRACTICALS								
8.	GE3271	Engineering PracticesLaboratory	ESC	0	0	4	4	2
9.	EE3271	ElectricCircuitsLaboratory	PCC	0	0	4	4	2
			TOTAL	**17**	**3**	**12**	**32**	**26**

*

NCCCreditCourseLevel1*

		L	T	P	C
NX3251	**(ARMYWING)NCCCreditCourseLevel-I**	**2**	**0**	**0**	**2**

NCCGENERAL		**6**
NCC1	Aims,Objectives &Organizationof NCC	1
NCC2	Incentives	2
NCC3	Duties of NCCCadet	1
NCC4	NCCCamps:Types& Conduct	2
NATIONALINTEGRATIONANDAWARENESS		**4**
NI 1	NationalIntegration:Importance& Necessity	1
NI 2	FactorsAffectingNationalIntegration	1
NI 3	UnityinDiversity& RoleofNCCinNation Building	1
NI 4	ThreatstoNationalSecurity	1
PERSONALITYDEVELOPMENT		**7**
PD1	Self-Awareness,Empathy,Critical&CreativeThinking,DecisionMakingandProblem Solving	2
PD2	CommunicationSkills	3
PD3	GroupDiscussion:Stress&Emotions	2
LEADERSHIP		**5**
L 1	Leadership Capsule:Traits,Indicators,Motivation,MoralValues,Honour Code	3
L 2	CaseStudies: Shivaji,Jhasi Ki Rani	2
SOCIALSERVICEANDCOMMUNITYDEVELOPMENT		**8**
SS1	Basics,RuralDevelopmentProgrammes,NGOs, Contributionof Youth	3
SS4	Protectionof ChildrenandWomenSafety	1
SS5	Road/RailTravelSafety	1
SS6	NewInitiatives	2
SS7	CyberandMobileSecurityAwareness	1

TOTAL :30PERIODS

NCCCreditCourseLevel1*

		L	T	P	C
NX3252	**(NAVALWING)NCCCreditCourseLevel -I**	**2**	**0**	**0**	**2**

NCCGENERAL		**6**
NCC1	Aims,Objectives&Organization of NCC	1
NCC2	Incentives	2
NCC3	Duties ofNCCCadet	1
NCC4	NCCCamps:Types&Conduct	2
NATIONALINTEGRATIONANDAWARENESS		**4**
NI 1	NationalIntegration:Importance&Necessity	1
NI 2	FactorsAffectingNationalIntegration	1
NI 3	UnityinDiversity&RoleofNCCinNationBuilding	1
NI 4	ThreatstoNationalSecurity	1
PERSONALITYDEVELOPMENT		**7**
PD1	Self-Awareness,Empathy,Critical&CreativeThinking,DecisionMakingandProblemSolving	2
PD2	CommunicationSkills	3
PD3	GroupDiscussion: Stress &Emotions	2
LEADERSHIP		**5**
L 1	LeadershipCapsule:Traits,Indicators,Motivation,MoralValues,Honour Code	3
L 2	CaseStudies:Shivaji,Jhasi Ki Rani	2
SOCIALSERVICEANDCOMMUNITYDEVELOPMENT		**8**
SS1	Basics,RuralDevelopmentProgrammes,NGOs, Contributionof Youth	3
SS4	Protectionof ChildrenandWomenSafety	1
SS5	Road/ RailTravelSafety	1
SS6	NewInitiatives	2
SS7	CyberandMobileSecurityAwareness	1

TOTAL:30PERIODS

NCCCreditCourseLevel1*

NX3253	**(AIRFORCEWING)NCCCreditCourseLevel-I**	**L**	**T**	**P**	**C**
		2	**0**	**0**	**2**

NCCGENERAL		**6**
NCC1	Aims,Objectives&Organizationof NCC	1
NCC2	Incentives	2
NCC3	Duties ofNCCCadet	1
NCC4	NCCCamps:Types&Conduct	2
NATIONALINTEGRATIONANDAWARENESS		**4**
NI 1	NationalIntegration:Importance&Necessity	1
NI 2	FactorsAffectingNationalIntegration	1
NI 3	UnityinDiversity&RoleofNCCinNation Building	1
NI 4	ThreatstoNationalSecurity	1
PERSONALITYDEVELOPMENT		**7**
PD1	Self-Awareness,Empathy,Critical&CreativeThinking,DecisionMakingandProblemSolving	2
PD2	CommunicationSkills	3
PD3	GroupDiscussion:Stress & Emotions	2
LEADERSHIP		**5**
L 1	Leadership Capsule: Traits, Indicators, Motivation, Moral Values,Honour Code	3
L 2	CaseStudies:Shivaji,Jhasi Ki Rani	2
SOCIALSERVICEANDCOMMUNITYDEVELOPMENT		**8**
SS1	Basics,RuralDevelopmentProgrammes,NGOs,Contribution ofYouth	3
SS4	Protectionof ChildrenandWomenSafety	1
SS5	Road/ RailTravelSafety	1
SS6	NewInitiatives	2
SS7	CyberandMobileSecurityAwareness	1

TOTAL: 30PERIODS

ANNAUNIVERSITY,CHENNAIAFFILIATE

DINSTITUTIONS

B.E. MECHANICAL

ENGINEERINGREGULATIONS –2017

CHOICEBASEDCREDITSYSTEM

PROGRAMMEEDUCATIONALOBJECTIVES:

Bachelor of Mechanical Engineering curriculum is designed to impart Knowledge, Skill andAttitudeon the graduatesto

1. HaveasuccessfulcareerinMechanicalEngineering andalliedindustries.
2. HaveexpertiseintheareasofDesign,Thermal,MaterialsandManufacturing.
3. Contribute towards technological development through academic research and industrialpractices.
4. Practice their profession with good communication, leadership, ethics and socialresponsibility.
5. Graduateswilladapttoevolvingtechnologiesthroughlife-longlearning.

PROGRAMMEOUTCOMES

1. Anabilitytoapplyknowledgeofmathematicsandengineeringsciencestodevelopmathematicalmodelsfor industrialproblems.
2. Anabilitytoidentify,formulates,andsolvecomplexengineeringproblems.withhighdegreeofcompetence.
3. An ability to design and conduct experiments, as well as to analyze and interpret dataobtainedthroughthose experiments.
4. An ability to design mechanical systems, component, or a process to meet desired needswithintherealisticconstraintssuchasenvironmental,social,politicalandeconomicsustainability.
5. Anabilitytousemoderntools,softwareandequipmenttoanalyzemultidisciplinaryproblems.
6. Anabilitytodemonstrateonprofessionalandethicalresponsibilities.
7. Anabilitytocommunicate,writereportsandexpressresearchfindingsinascientificcommunity.
8. Anabilitytoadaptquicklytotheglobalchangesand contemporarypractices.
9. Anabilitytoengageinlife-longlearning.

ANNAUNIVERSITY,CHENNAI
AFFILIATEDINSTITUTIONS
B.E.MECHANICALENGINEERING
REGULATIONS-2017
CHOICEBASEDCREDITSYSTEM
I TO VIII SEMESTERS CURRICULA AND

SYLLABISEMESTERI

SL. NO	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8151	CommunicativeEnglish	HS	4	4	0	0	4
2.	MA8151	Engineering Mathematics -I	BS	4	4	0	0	4
3.	PH8151	EngineeringPhysics	BS	3	3	0	0	3
4.	CY8151	EngineeringChemistry	BS	3	3	0	0	3
5.	GE8151	Problem Solving and PythonProgramming	ES	3	3	0	0	3
6.	GE8152	EngineeringGraphics	ES	6	2	0	4	4
PRACTICALS								
7.	GE8161	Problem Solving and PythonProgrammingLaboratory	ES	4	0	0	4	2
8.	BS8161	Physics and ChemistryLaboratory	BS	4	0	0	4	2

SEMESTERII

SL. NO	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	HS8251	TechnicalEnglish	HS	4	4	0	0	4
2.	MA8251	EngineeringMathematics-II	BS	4	4	0	0	4
3.	PH8251	MaterialsScience	BS	3	3	0	0	3
4.	BE8253	BasicElectrical,Electronics andInstrumentation Engineering	ES	3	3	0	0	3
5.	GE8291	Environmental Science andEngineering	HS	3	3	0	0	3
6.	GE8292	EngineeringMechanics	ES	5	3	2	0	4
PRACTICALS								
7.	GE8261	Engineering PracticesLaboratory	ES	4	0	0	4	2
8.	BE8261	BasicElectrical,Electronics and InstrumentationEngineeringLaboratory	ES	4	0	0	4	2
			TOTAL	**30**	**20**	**2**	**8**	**25**

SEMESTERIII

SL. NO.	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8353	Transforms and Partial DifferentialEquations	BS	4	4	0	0	4
2.	ME8391	EngineeringThermodynamics	PC	5	3	2	0	4
3.	CE8394	Fluid MechanicsandMachinery	ES	4	4	0	0	4
4.	ME8351	ManufacturingTechnology-I	PC	3	3	0	0	3
5.	EE8353	ElectricalDrivesandControls	ES	3	3	0	0	3
PRACTICAL								
6.	ME8361	Manufacturing TechnologyLaboratory-I	PC	4	0	0	4	2
7.	ME8381	ComputerAidedMachineDrawing	PC	4	0	0	4	2
8.	EE8361	ElectricalEngineeringLaboratory	ES	4	0	0	4	2
9.	HS8381	InterpersonalSkills/Listening&Speaking	EEC	2	0	0	2	1
			TOTAL	**33**	**17**	**2**	**14**	**25**

SEMESTERIV

SL. NO.	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA8452	StatisticsandNumericalMethods	BS	4	4	0	0	4
2.	ME8492	KinematicsofMachinery	PC	3	3	0	0	3
3.	ME8451	ManufacturingTechnology-II	PC	3	3	0	0	3
4.	ME8491	EngineeringMetallurgy	PC	3	3	0	0	3
5.	CE8395	Strength of Materials forMechanicalEngineers	ES	3	3	0	0	3
6.	ME8493	ThermalEngineering-I	PC	3	3	0	0	3
PRACTICAL								
7.	ME8462	Manufacturing TechnologyLaboratory-II	PC	4	0	0	4	2
8.	CE8381	Strength of Materials and FluidMechanicsandMachinery Laboratory	ES	4	0	0	4	2
9.	HS8461	AdvancedReadingandWriting	EEC	2	0	0	2	1
			TOTAL	**29**	**19**	**0**	**10**	**24**

SEMESTERV

SL. NO.	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	ME8595	ThermalEngineering-II	PC	3	3	0	0	3
2.	ME8593	DesignofMachineElements	PC	3	3	0	0	3
3.	ME8501	MetrologyandMeasurements	PC	3	3	0	0	3
4.	ME8594	Dynamicsof Machines	PC	4	4	0	0	4
5.		OpenElectiveI	OE	3	3	0	0	3
PRACTICAL								
6.	ME8511	Kinematics and DynamicsLaboratory	PC	4	0	0	4	2
7.	ME8512	ThermalEngineeringLaboratory	PC	4	0	0	4	2
8.	ME8513	Metrology and MeasurementsLaboratory	PC	4	0	0	4	2
			TOTAL	**28**	**16**	**0**	**12**	**22**

SEMESTERVI

SL. NO.	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	ME8651	Design of TransmissionSystems	PC	3	3	0	0	3
2.	ME8691	ComputerAidedDesignandManufacturing	PC	3	3	0	0	3
3.	ME8693	HeatandMassTransfer	PC	5	3	2	0	4
4.	ME8692	FiniteElementAnalysis	PC	3	3	0	0	3
5.	ME8694	HydraulicsandPneumatics	PC	3	3	0	0	3
6.		ProfessionalElective-I	PE	3	3	0	0	3
PRACTICAL								
7.	ME8681	CAD /CAMLaboratory	PC	4	0	0	4	2
8.	ME8682	DesignandFabricationProject	EEC	4	0	0	4	2
9.	HS8581	ProfessionalCommunication	EEC	2	0	0	2	1
			TOTAL	**30**	**18**	**2**	**10**	**24**

SEMESTERVII

SL. NO.	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	ME8792	PowerPlantEngineering	PC	3	3	0	0	3
2.	ME8793	Process Planning and CostEstimation	PC	3	3	0	0	3
3.	ME8791	Mechatronics	PC	3	3	0	0	3
4.		OpenElective-II	OE	3	3	0	0	3
5.		ProfessionalElective-II	PE	3	3	0	0	3
6.		ProfessionalElective-III	PE	3	3	0	0	3
PRACTICAL								
7.	ME8711	SimulationandAnalysisLaboratory	PC	4	0	0	4	2
8.	ME8781	MechatronicsLaboratory	PC	4	0	0	4	2
9.	ME8712	TechnicalSeminar	EEC	2	0	0	2	1
			TOTAL	**28**	**18**	**0**	**10**	**23**

SEMESTERVIII

SL. NO.	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MG8591	PrinciplesofManagement	HS	3	3	0	0	3
2.		ProfessionalElective-IV	PE	3	3	0	0	3
PRACTICAL								
3.	ME8811	ProjectWork	EEC	20	0	0	20	10
			TOTAL	**29**	**9**	**0**	**20**	**16**

TOTALNUMBEROFCREDITSTO BEEARNEDFOR AWARDOFTHEDEGREE=184

HUMANITIESANDSOCIALSCIENCES(HS)

SL. NO.	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8151	CommunicativeEnglish	HS	4	4	0	0	4
2.	HS8251	TechnicalEnglish	HS	4	4	0	0	4
3.	GE8291	Environmental Science andEngineering	HS	3	3	0	0	3
4.	MG8591	PrinciplesofManagement	HS	3	3	0	0	3

BASICSCIENCE(BS)

SL. NO.	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	MA8151	Engineering Mathematics -I	BS	5	3	2	0	4
2.	PH8151	EngineeringPhysics	BS	3	3	0	0	3
3.	CY8151	EngineeringChemistry	BS	3	3	0	0	3
4.	BS8161	PhysicsandChemistryLaboratory	BS	4	0	0	4	2
5.	MA8251	EngineeringMathematicsII	BS	4	4	0	0	4
6.	PH8251	MaterialsScience	BS	3	3	0	0	3
7.	MA8353	Transforms and Partial DifferentialEquations	BS	4	4	0	0	4
8.	MA8452	StatisticsandNumericalMethods	BS	4	4	0	0	4

ENGINEERINGSCIENCES(ES)

SL. NO.	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	GE8151	Problem Solving and PythonProgramming	ES	3	3	0	0	3
2.	GE8152	EngineeringGraphics	ES	6	2	0	4	4
3.	GE8161	Problem Solving and PythonProgrammingLaboratory	ES	4	0	0	4	2
4.	BE8253	Basic Electrical, Electronics andInstrumentationEngineering	ES	3	3	0	0	3
5.	GE8292	EngineeringMechanics	ES	5	3	2	0	4
6.	GE8261	EngineeringPracticesLaboratory	ES	4	0	0	4	2
7.	BE8261	BasicElectrical,ElectronicsandInstrumentationEngineeringLaboratory	ES	4	0	0	4	2
8.	CE8394	Fluid MechanicsandMachinery	ES	5	3	2	0	4
9.	EE8353	ElectricalDrivesandControls	ES	3	3	0	0	3
10.	EE8361	ElectricalEngineeringLaboratory	ES	4	0	0	4	2
11.	CE8395	Strength of Materials for MechanicalEngineers	ES	3	3	0	0	3
12.	CE8381	StrengthofMaterialsandFluid MechanicsandMachineryLaboratory	ES	4	0	0	4	2

PROFESSIONALCORE (PC)

SL. NO.	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	ME8391	EngineeringThermodynamics	PC	5	3	2	0	4
2.	ME8351	ManufacturingTechnology-I	PC	3	3	0	0	3
3.	ME8361	ManufacturingTechnologyLaboratory -I	PC	4	0	0	4	2
4.	ME8381	ComputerAidedMachineDrawing	PC	4	0	0	4	2
5.	ME8492	KinematicsofMachinery	PC	3	3	0	0	3
6.	ME8451	ManufacturingTechnology-II	PC	3	3	0	0	3
7.	ME8491	EngineeringMetallurgy	PC	3	3	0	0	3
8.	ME8493	ThermalEngineering-I	PC	3	3	0	0	3
9.	ME8462	ManufacturingTechnologyLaboratory-II	PC	4	0	0	4	2
10.	ME8595	ThermalEngineering-II	PC	3	3	0	0	3
11.	ME8593	DesignofMachineElements	PC	3	3	0	0	3
12.	ME8501	MetrologyandMeasurements	PC	3	3	0	0	3
13.	ME8594	Dynamicsof Machines	PC	4	4	0	0	4
14.	ME8511	KinematicsandDynamicsLaboratory	PC	4	0	0	4	2
15.	ME8512	ThermalEngineeringLaboratory	PC	4	0	0	4	2
16.	ME8513	MetrologyandMeasurementsLaboratory	PC	4	0	0	4	2
17.	ME8651	DesignofTransmissionSystems	PC	3	3	0	0	3
18.	ME8691	Computer Aided Design andManufacturing	PC	3	3	0	0	3
19.	ME8693	HeatandMassTransfer	PC	5	3	2	0	4
20.	ME8692	FiniteElementAnalysis	PC	3	3	0	0	3
21.	ME8694	HydraulicsandPneumatics	PC	3	3	0	0	3
22.	ME8681	C.A.D./C.A.M.Laboratory	PC	4	0	0	4	2
23.	ME8682	DesignandFabricationProject	PC	4	0	0	4	2
24.	ME8792	PowerPlantEngineering	PC	3	3	0	0	3
25.	ME8791	Mechatronics	PC	3	3	0	0	3
26.	ME8793	Process Planning and CostEstimation	PC	3	3	0	0	3
27.	ME8711	SimulationandAnalysisLaboratory	PC	4	0	0	4	2
28.	ME8781	MechatronicsLaboratory	PC	4	0	0	4	2

PROFESSIONALELECTIVESFORB.E.MECHANICALENGINEERINGSEMESTE

RVI,ELECTIVE I

SL. NO.	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	ME8091	AutomobileEngineering	PE	3	3	0	0	3
2.	PR8592	WeldingTechnology	PE	3	3	0	0	3
3.	ME8096	Gas Dynamics and JetPropulsion	PE	3	3	0	0	3
4.	GE8075	Intellectual PropertyRights	PE	3	3	0	0	3
5.	GE8073	Fundamentals of NanoScience	PE	3	3	0	0	3

SEMESTERVII,ELECTIVEII

SL. NO.	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	ME8071	Refrigeration and Airconditioning	PE	3	3	0	0	3
2.	ME8072	Renewable Sources ofEnergy	PE	3	3	0	0	3
3.	ME8098	QualityControlandReliabilityEngineering	PE	3	3	0	0	3
4.	ME8073	UnconventionalMachiningProcesses	PE	3	3	0	0	3
5.	MG8491	OperationsResearch	PE	3	3	0	0	3
6.	MF8071	AdditiveManufacturing	PE	3	3	0	0	3
7.	GE8077	Total QualityManagement	PE	3	3	0	0	3

SEMESTERVII, ELECTIVEIII

SL. NO.	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	ME8099	Robotics	PE	3	3	0	0	3
2.	ME8095	Design of Jigs, FixturesandPressTools	PE	3	3	0	0	3
3.	ME8093	ComputationalFluid Dynamics	PE	3	3	0	0	3
4.	ME8097	Non Destructive TestingandEvaluation	PE	3	3	0	0	3
5.	ME8092	Composite Materials andMechanics	PE	3	3	0	0	3
6.	GE8074	HumanRights	PE	3	3	0	0	3
7.	GE8071	Disaster Management	PE	3	3	0	0	3

SEMESTERVIII,ELECTIVEIV

SL. NO.	COURSE CODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	IE8693	Production Planning andControl	PE	3	3	0	0	3
2.	MG8091	Entrepreneurship Development	PE	3	3	0	0	3
3.	ME8094	Computer IntegratedManufacturingSystems	PE	3	3	0	0	3
4.	ME8074	Vibration and NoiseControl	PE	3	3	0	0	3
5.	EE8091	Micro Electro MechanicalSystems	PE	3	3	0	0	3
6.	GE8076	Professional Ethics inEngineering	PE	3	3	0	0	3

EMPLOYABILITYENHANCEMENTCOURSES(EEC)

SL. NO.	COURSECODE	COURSETITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	HS8381	InterpersonalSkills/Listening&	EEC	4	0	0	4	2
2.	ME8712	TechnicalSeminar	EEC	2	0	0	2	1
3.	ME8811	ProjectWork	EEC	20	0	0	20	12
4.	HS8461	Advanced Reading andWriting	EEC	2	0	0	2	1
5.	ME8682	Design and Fabrication Project	EEC	4	0	0	4	2
6.	HS8581	ProfessionalCommunication	EEC	2	0	0	2	1

ANNAUNIVERSITY:: CHENNAI- 600025

AFFILIATEDINSTITUTIONS

REGULATIONS

2021CHOICEBASEDCREDITSYSTEM

CommontoallB.E./B.Tech.Full-TimeProgrammes

(For the students admitted to B.E. / B.Tech. Programmeat variousNon-autonomousAffiliatedInstitutions)

DEGREE OFBACHELOROFENGINEERING / BACHELOROFTECHNOLOGY

This Regulation is applicable to the students admitted to B.E/B.Tech. Programmes at all EngineeringColleges affiliated to Anna University, Chennai (other than Autonomous Colleges) and to all theUniversity Colleges of Engineering of Anna University, Chennai from the academic year 2021-2022onwards.

1. PRELIMINARYDEFINITIONSANDNOMENCLATURE

IntheseRegulations,unlessthecontextotherwiserequires:

I) "**Programme**"meansDegreeProgramme,thatisB.E./B.Tech.DegreeProgramme.

II) "**Discipline**"meansspecializationorbranchofB.E./B.Tech.DegreeProgramme,likeCivilEngineering,TextileTechnology,etc.

III) "**Course**"meansatheoryorpracticalsubjectthatisnormallystudiedinasemester,like Mathematics,Physics,etc.

IV) **"Director,AcademicCourses"**meanstheauthorityoftheUniversitywhoisresponsibleforallacademicactivities ofthe Academic Programmes for implementationofrelevantrulesofthisRegulationspertainingtotheAcademicProgrammes.

V) **"Chairperson"**meanstheHeadoftheFaculty.

VI) **"HeadoftheInstitution"**meansthePrincipaloftheCollege.

VII) **"Headof theDepartment"**meansHeadofthe Departmentconcerned.

VIII) **"ControllerofExaminations(COE)"**meanstheauthorityof the Universitywhoisresponsible for allactivitiesoftheUniversityExaminations.

IX) **"University"**meansANNAUNIVERSITY,CHENNAI.

2. ADMISSION

Candidates seeking admission to the first semester of the eight semesters B.E. /B.Tech.Degree Programme:

Should have passed the Higher Secondary Examinations of (10+2) Curriculum (AcademicStream)prescribedbytheGovernmentofTamil

NaduwithMathematics,PhysicsandChemistryasthreeofthefoursubjectsofstudyunder Part-IIIoranyexaminationofanyotherUniversityorauthorityaccepted bythe SyndicateofAnnaUniversityasequivalentthereto.

(OR)

Should have passed the Higher Secondary Examination of Vocational stream (VocationalgroupsinEngineering/Technology)asprescribed bythe GovernmentofTamilNadu.

Lateral entryadmission

(i) Thecandidates whopossesstheDiplomain Engineering/Technology awardedbythe State Board of Technical Education, Tamil Nadu or its equivalent are eligible to applyfor Lateral entry admission to the third semester of B.E. / B.Tech. as per the rules fixed byGovernmentofTamilNadu.

(OR)

(ii) ThecandidateswhopossesstheDegreeinScience(B.Sc.,)(10+2+3stream)withMathematicsas asubjectattheB.Sc.Levelareeligibletoapplyfor Lateralentryadmissionto thethirdsemesterofB.E./B.Tech.

Suchcandidates shall undergotwoadditionalEngineering subject(s)inthe**thirdandfourthsemesters**asprescribedbytheUniversity.

3. PROGRAMMESOFFERED

B.E. / B.Tech. Programmes under the Faculty of Civil Engineering, Faculty of MechanicalEngineering, Faculty of Electrical Engineering, Faculty of Information and CommunicationEngineering andFacultyofTechnology.

4. STRUCTUREOFPROGRAMMES

CategorizationofCourses

EveryB.E./B.Tech.Programmewillhaveacurriculumwithsyllabiconsistingoftheoryand practicalcoursesthatshallbecategorized asfollows:

i. **HumanitiesSocialSciencesandManagementCourses(HSMC)** courses includeProfessio nalEnglish,Communicationskillsetc.

ii. **BasicSciencesCourses(BSC)**includeMathematics,Physics,Chemistry,Biology,Envir onmentalScienceandEngineeringetc.

iii. **EngineeringSciencesCourses(ESC)**includeEngineeringpractices,EngineeringGraphics, BasicsofElectrical/Electronics/Mechanical/ComputerEngineering,Instrumentation etc.

iv. **Professional Core Courses (PCC)** include the core courses relevant to the chosenspecialization/branch.

v. **Professional Elective Courses(PEC)**includetheelectivecoursesrelevanttothechosenspecialization/branch.

vi. **OpenElectiveCourses(OEC)**includethecoursesofferedbyabranchtootherbranches,

fromthelistspecifiedintherespectivecurriculumoftheB.E./ B.Tech./ B.Arch.Programmes.

vii. **Employability Enhancement Courses (EEC)** include Project Work,Internship,Seminar,Professional Practices,Case StudyandIndustrial/PracticalTrainingetc.

viii. Auditcourses(AC)includethecoursessuchasConstitutionofIndia,Sangamliteratureetc.

PersonalityandCharacter Development

Allstudentsshallenroll,onadmission,inanyoneofthepersonalityandcharacterdevelopmentprogrammes NCC/NSS/NSO/YRC and undergo training / conduct activitiesfor about 80hours and attend a camp of aboutsevendays.Thetrainingshallincludeclassesonhygieneandhealth awareness and also training in first-aid. Alternately, activities of science,literature and arts also help for personality and character development. So, students shallconductandparticipateactivelyinScienceclub/LiteraryForum/FineArtsactivitiesfor80hoursandparticipateinatleastONEevent.

NationalCadetCorps(NCC)willhaveabout20parades.

NationalServiceScheme(NSS)willhavesocialserviceactivitiesinandaroundtheCollege /Institution.

NationalSportsOrganization(NSO)willhaveSports,Games,DrillsandPhysicalexercises.

YouthRedCross(YRC)willhaveactivitiesrelatedtosocialservicesinandaroundCollege/Institutions.

While thetraining activities will normally beduring weekends, the campwill normally beduringvacationperiod.

Scienceclubshallorganiseactivitiesofpopularisationofscienceandscientifictemperthroughactivities related to astronomy, works of great scientists from India and abroad, observingNationalScienceDay,etc.

LiteraryClublike„TamilIlakkiyaMandram"shallbeformed,whichshallorganisecolourfulliteraryeventstopropagategoodhumanistvalues,moralsandethicsreflectedintheliterature.

FineArtsClublikemusic,painting,documentaryfilmswithsocialthemesshallbeencouraged.

Studentswhoenrollandtakeactiveparticipationinanyoneoftheaboveactivitiesfor80hoursand participate at least one event/programme will be given a certificate by the Head of theInstitutionandthecopyofthesameshallbe forwardedtotheControllerofExaminationsforthepurposeofrecordand scrutiny. Nofeeshallbechargedforalltheseactivities.

Numberofcoursespersemester

Each semester curriculum shall normally have a blend of lecture courses not exceeding **7**Theory courses and Laboratory integrated theory courses and **4** Employability EnhancementCourse(s)andLaboratoryCourses.However,thetotalnumber ofcoursesper semester shall

notexceed10.EachCourse shallhavecreditsassigned asper clause4.4.

CreditAssignment

Eachcourseisassignedcertainnumberofcreditsbasedonthefollowing:

Contactperiodper week	**CREDITS**
1LecturePeriod	1
1TutorialPeriod	1
1Laboratory Period (also forEEC courses like Seminar /ProjectWork/Casestudy/etc.)	0.5

IndustrialTraining/ Internship

The students may undergo Industrial training for a period as specified in the Curriculum duringthe summer / winter vacation. In this case, the training has to be undergone continuously for aperiod ofatleasttwoweeksinanorganization.

The students may undergo Internship at a Research organization / University/ Industry (afterdue approval from the Head of the Institution) for the period prescribed in the curriculum duringthesummer/wintervacation,inlieuofIndustrialtraining.AttendanceCertificatementioningthe period of Industrial Training / Internship and signed by the competent authority of the industry,as per the format provided by Centre for Academic Courses shall be submitted to the Head ofthe Institution. The attendance certificate shall be forwarded to COE, Anna University by theHead oftheInstitutionforprocessingresults.

If Industrial Training/ Internship is not prescribed in the curriculum, the student may undergoIndustrial Training/ Internship optionally and the credits earned will be indicated in the GradeSheet.IfthestudentearnsthreecreditsinIndustrialTraining/Internship,thestudentmaydropon e Professional Elective (only one professional elective can be dropped). In such cases,Industrial Training / Internship need to be undergone continuously from one organization orwithacombinationonetwoweekandonefourweekfromone/twoorganizations.However,ifthe number of credits earned is 1 or 2, then these credits shall not be consideredforclassification of the degree. Students shall get permission from the Head of the Institution fortaking industrial training/internship and the Certificate of completion of Industrial Training /Internship shallbeforwardedtoCOE.

DURATIONOFTRAINING/INTERSHIP	**CREDITS**
2Weeks	1
4Weeks	2
6Weeks	3

***1Week=40InternshipHours**

IndustrialVisit

Every student is required to go for at least one Industrial Visit every semester starting fromthe second year of the Programme. The Heads of Departments shall ensure that necessaryarrangementsaremadeinthisregard.

ValueAddedCourses

The Students may optionally undergo Value Added Courses (VAC) over and above thetopics covered in the curriculum to obtain practical and industry specific knowledge. Thecredits earned through the Value Added Courses shall be over and above the total creditrequirement prescribed in the curriculum for the award of the degree**. One / Two creditcourses shall be offered by a Department of an institution with the prior approvalfromtheHeadoftheInstitution and Centre for Academic courses without anyadditional fee charged.** The details of the syllabus, time table and course coordinator maybe sent to the Centre for Academic Courses at least one month before the course is offeredfor approval. **Students can take a maximum of two one credit courses / one two creditcourse**duringtheentiredurationofthe Programme.

Online Courses

Studentsmaybepermittedtocredita maximum of twoonlinecourses subjecttoamaximumofsixcredits, withthe approval of **Head of the Institution** and **Centre forAcademic Courses, in lieu of open elective / professional elective courses. The Headof the Institution shall form a three member committee with members as HOD and afaculty member from the Department of the student, HOD of any other branch of theInstitutiontoensurethatthestudenthasnotstudiedsuchcourseandwouldnotrepeatit again as Professional core/professional elective/open elective.** These online coursesshallbechosenfrom theSWAYAMplatform.

Auditcourses

The student may optionally study audit courses prescribed by the University and it will bementionedinthe GradeSheet.However,itwillnotbeconsideredforcomputationofCGPA.

Advancement of Courses:

Thestudentswhocompletedtheirfinalsemestercourses(exceptprojectwork)inadvance, shall be permitted to carry out their final semester Project work for six months inindustry/research organizations.

Thesestudentsshallundergotheeighthsemestercoursesotherthantheprojectworkinthesixth and seventh semesters, provided they do not have current arrears and have a CGPAof 7.50 and above up to Semester IV.The Head of Department, in consultation with thefaculty handling the said courses shall forward the proposal recommended by the Head ofInstitution to the Controller of Examinations through the Director, Centre for Academiccoursesforapprovalatleast4weeksbeforethecommencementofthesixthsemesteroft heprogramme forapproval.

MediumofInstruction

ThemediumofinstructionisEnglishforallcourses,examinations,seminarpresentationsandproject /thesis/dissertation reportsexceptforthe programmesofferedin TamilMedium.

5. DURATIONOFTHEPROGRAMME

A student is ordinarily expected to complete the B.E. / B.Tech. Programme in8semesters(for HSCstudents)andsixsemesters(forLateralEntrystudents)butinanycasenot morethan14Semesters for HSC (or equivalent) students and not more than 12 semesters for LateralEntrystudents.

A student is ordinarily expected to complete the B.E. Mechanical Engineering (Sandwich)Programmein10semesters(fiveacademicyears)but inanycase notmorethan18Semestersfor HSC(orequivalent)students.

Eachsemestershallnormallyconsistof75workingdaysor540periodsof50minuteseach.TheHeadoftheInstitutionshallensurethateveryteacherimpartsinstructionasperthenumberof periods specified in the syllabus and that the teacher teaches thefullcontentofthespecified syllabus for thecourse beingtaught.

TheHeadoftheInstitutionmayconductadditionalclassesforimprovement,specialcoaching,conduct of model test etc., over and above the specified periods. But for the purpose ofcalculation of attendance requirement for writing the end semester examinations (as perclause6)by thestudents,followingmethod shallbeused.

$$\text{Percentage of semesterAttendance} = \frac{\text{Total no. of periods attended in all the courses per semester}}{\text{(No. of periods / week as prescribed in the curriculum) x 15taken togetherforallcoursesofthe semester}} \times 100$$

The University Examination will normally follow immediately after the last working day of thesemester asper theacademicscheduleprescribed from timeto time.

The total period for completion of the programme reckoned from the commencement of thefirst semester to which the student was admitted shall not exceed the maximum periodspecified in clause 5.1 irrespective of the period of break of study (vide clause 18) in orderthathe/shemaybeeligible fortheawardofthe degree (videclause16).

6. COURSEREGISTRATION

The Institution is responsible for registering the courses that each student is proposing toundergointheensuingsemester.Eachstudenthasto registerforallcoursestobeundergonein the curriculum of a particular semester (with the facility to drop courses to a maximum of 6credits (vide clause 6.2)). The courses dropped in earlier semesters can be registered in thesubsequentsemesterswhenoffered.

The registration details of the student shall be approved by the Head of the Institution andforwarded to the Controller of Examinations. This registration is for undergoing the course aswellasforwritingtheEndSemesterExaminations.

Thecourses thatastudentregistersinaparticularsemestermayinclude

i. Coursesofthe currentsemester.
ii. Coursesdroppedinthelowersemestersand
iii. Courses advanced to Semester VI and VII from Semester VIII (as per clause4.10).

Themaximumnumberofcreditsthatcanberegisteredinasemesteris36.However,thisdoesnot include the number of Re-appearance (RA) and Withdrawal (W) courses registered by thestudentfor theappearanceofExamination.

FlexibilitytoDropcourses

A student has to earn the total number of credits specified in the curriculum of the respectiveProgrammeofstudyinordertobeeligibletoobtainthe degree.

Fromthe**second**tofinalsemesters,thestudenthastheoptionofdroppingexistingcoursesina semester during registration. Total number of credits of such courses shall not exceed 6 persemester.Thestudentispermittedtodropthecourse(s)within30daysofthecommencementofthea cademicschedule.

7. ATTENDANCEREQUIREMENTSFORCOMPLETIONOFTHESEMESTER

A student who has fulfilled the following conditions shall be deemed to have satisfied therequirementsfor completionofasemester.

Ideally every student is expected to attend all classes of all the courses and secure 100%attendance.However,inordertogiveprovisionforcertainunavoidablereasonssuchasMedical/participationinsports,thestudentisexpectedtoattendatleast75%oftheclasses.

Therefore, he/she shall **secure not less than 75%** (after rounding off to the nearest integer)ofoverallattendanceascalculatedasper clause5.3.

However, a student who secures overall attendance between 65% and 74% in the currentsemester due to medical reasons (prolonged hospitalization / accident / specific illness) /ParticipationinSportseventsmaybepermittedtoappearforthecurrentsemesterexaminations subject to the condition that the student shall submit the medical certificate /sports participation certificate attested by the Head of the Institution. The same shall beforwardedtothe ControllerofExaminationsforrecord purposes.

Students who **secure less than 65% overall attendance** shall not be permitted to write theUniversity examination at the end of the semester and not permitted to move to the nextsemester. They are required to repeat the incomplete semester in the next academic year, asperthenormsprescribed.

8. CLASS ADVISOR

Thereshallbeaclassadvisorforeachclass.Theclassadvisorwillbeoneamongthe course-instructors of the class. He / She will be appointed by the HoD of the departmentconcerned. Theclass advisoristheex-officiomemberand the Conveneroftheclasscommittee.Theresponsibilitiesfor theclassadvisorshallbe:

- Toactasthechannel ofcommunicationbetweentheHoDandthestudentsofthe respectiveclass.
- Tocollectandmaintain variousstatisticaldetailsofstudents.
- Tohelpthechairpersonoftheclasscommitteeinplanningandconductoftheclasscommitteemeetings.
- Tomonitortheacademicperformanceofthestudentsincludingattendanceandtoinform theclasscommittee.
- Toattendtothestudents‟welfareactivitieslikeawards,medals,scholarshipsand industrial visits.

9. CLASSCOMMITTEE

Every class shall have a class committee consisting of teachers of the class concerned,student representatives and a chairperson who is not teaching the class. It is like the „QualityCircle‟ (more commonly used in industries) with the overall goal of improving the teaching-learningprocess.Thefunctionsofthe classcommitteeinclude:

- Solvingproblemsexperienced bystudentsintheclassroomandin thelaboratories.
- Clarifyingtheregulationsofthedegreeprogrammeandthedetails ofrulesthereinparticularly(clause5and7).
- Informingthestudentrepresentatives,theacademicscheduleincludingthedatesofassessments andthesyllabus coveragefor eachassessment.
- Informing the student representatives the details of Regulations regarding weightageused for each assessment. In the case of practical courses (laboratory / drawingprojectwork/seminaretc.)thebreakupofmarksforeachexperiment/exercise/moduleofwork,shouldbeclearlydiscussedintheclasscommitteemeetingandinformedtothestudents.
- Analyzingtheperformanceofthestudentsoftheclassaftereachtestandfindingtheways

andmeansofsolvingproblems,ifany.

- Identifying the weak students, if any, and requesting the teachers concerned to providesomeadditionalhelp or guidanceorcoachingtosuch weakstudents.

The class committee for a class under a particular branch is normally constituted by the Headof the Department. However, if the students of different branches are mixed in a class (likethe first semester which is generally common to all branches), the class committee is to beconstitutedbytheHeadoftheInstitution.

Theclasscommitteeshallbe constitutedwithinthefirstweekofeach semester.

Atleast4studentrepresentatives(usually2boysand2girls)shallbeincludedintheclasscommittee,covеringalltheelectivecourses.

TheChairpersonoftheclasscommitteemayinvitetheClassadviser(s)andtheHeadofthe Departmenttothe classcommitteemeeting.

TheHead ofthe Institutionmayparticipateinanyclasscommitteemeetingofthe institution.

Thechairpersonisrequiredtopreparetheminutesofeverymeeting,submitthesameto HeadoftheInstitutionwithintwodaysofthemeetingandarrangetocirculateitamongthestudentsand teachers concerned. If there are some points in the minutes requiring action by themanagement, the same shall be brought to the notice of the Management by the Head of theInstitution.

The first meeting of the class committee shall be held within one week from the date ofcommencement of the semester,in order to inform the students about the nature andweightageofassessmentswithintheframeworkoftheRegulations.Twoorthreesubsequentmeetingsmaybeheldinasemesteratsuitableintervals.**TheClassCommitteeChairpersonshalldisplaythecumulativeattendanceparticularsofeachstudentontheNotice Board at the end of every such meeting to enable the students to know theirattendance details to satisfy the clause 6 of this Regulation.**During these meetings thestudent members representing the entire class, shall meaningfully interact and express theopinionsandsuggestionsoftheotherstudentsoftheclassinordertoimprovetheeffectivenessoftheteaching-learningprocess.

10. COURSECOMMITTEEFORCOMMONCOURSES

Eachcommontheorycourseofferedtomorethanonedisciplineorgroup,shallhavea "Course Committee"comprising alltheteachers teaching the common course withoneof them nominated as Course Coordinator. The nomination of the Course Coordinator shallbe made by the Head of the Department / Head of the Institution depending upon whether allthe teachers teaching thecommon course belong toasingle department orto severaldepartments. The „Course committee" shall meet in order to arrive at a common scheme ofevaluation for the test and shall ensure a uniform evaluation of the tests. Wherever feasible,thecoursecommitteemayalsoprepareacommonquestionpaperfortheinternalassessmenttest(s).

11. SYSTEMOFEXAMINATION

Performance in each course of study shall be evaluated based on (i) continuous internalassessmentthroughout thesemesterand(ii)Universityexaminationattheend ofthesemester.

Eachcourse,boththeoryandpractical(includingprojectwork&vivavoceExaminations)shallbe evaluatedfor amaximumof100marks.

For all theory and practical courses, the continuous internal assessment will carry **25 marks**while the End Semester University examination will carry **75 marks. The** continuous internalassessment for the project work will carry 40 **marks** while the End Semester Universityexamination will carry60**marks.**

Industrialtrainingandseminarshallcarry100marksandshallbeevaluatedthroughinternal

assessmentonly.

The University examination (theory and practical) of 3 hours duration shall ordinarily beconductedbetweenOctoberandDecemberduringtheoddsemestersandbetweenAprilandJune duringtheevensemesters.

The University examination for project work shall consist of evaluation of the final reportsubmitted by the student or students of the project group (of not exceeding 4 students) by anexternal examiner and an internal examiner, followed by a viva-voce examination conductedseparatelyforeachstudentbyacommitteeconsistingoftheexternalexaminer,thesupervisorofttheprojectgroupandaninternalexaminer.

For the University examination of practical courses including project work the internal andexternalexaminersshallbe appointedbytheControllerofExaminations.

12. PROCEDUREFOR AWARDINGMARKSFORINTERNAL ASSESSMENT

Foralltheoryandpracticalcoursesthecontinuousassessmentshallbeforamaximumof25marks.Thecontinuousassessmentshallbeawardedaspertheproceduregivenbelow:

THEORYCOURSES

Two assessments each carrying 100 marks shall be conducted during the semester by theDepartment / College concerned. The total marks obtained in all assessments put togetherout of 200, shall be proportionately reduced for25 marks and rounded to the nearest integer(Thisalsoimpliesequal weightagetothetwoassessments).

AssessmentI(100Marks)		**AssessmentII(100Marks)**		**Total**
Individual Assignment /Case Study/ Seminar/MiniProject	Written Test	Individual Assignment /Case Study/ Seminar/MiniProject	Written Test	InternalAssessment
40	60	40	60	200*

*200Marksistobeconvertedinto25marksforinternalAssessment.

Twointernalassessmentswillbeconductedasapartofcontinuousassessment.Eachinternalassessment is to be conducted for 100 marks and will have to be distributed in two parts viz.,IndividualAssignment/Casestudy/Seminar/MiniprojectandTestwitheachhavingaweightageof40%and60%respectively.Thetestsshallbeinwrittenmode.Thetotalinternalassessmentmarks of 200 shall be converted into a maximum of 25 marks and rounded to the nearestinteger.

LABORATORYCOURSES

The maximum marks for Internal Assessment shall be 25 in case of practical courses. Everypractical exercise / experiment shall be evaluated based on conduct of experiment / exerciseandrecordst ob emaintained.Thereshallbeatleastonetest.Thecriteriaforarriving at the Internal Assessment marks of 25 is as follows: 75 marks shall be awarded forsuccessfulcompletionofalltheprescribedexperimentsdoneintheLaboratoryand25marksforthetest.Thetotalmarkshallbeconvertedintoamaximumof25marksandroundedtothenearestinteger.

InternalAssessment (100Marks)*	
Evaluation of LaboratoryObservation,Record	Test

75	25

*Internalassessmentmarksshallbe convertedinto25 marks

THEORYCOURSESWITHLABORATORYCOMPONENT

If there is a theory course with Laboratory component, there shall be two assessments: thefirst assessment (maximum mark 100 mark) will be similar to assessment of theory courseand the second assessment (maximum mark 100) will be similar to assessment of laboratorycourse respectively.The weightage of first assessment shall be 40 % andthesecondassessmentbe60 %. **The weightedaverage of these twoassessmentsshallbe converted into25 marksandrounded tothenearestinteger.**

AssessmentI(100Marks)		**AssessmentII(100Marks)**		**Total**
Individual Assignment /Case Study/ Seminar/MiniProject	Written Test	Evaluation ofLaboratoryObservation,Record	Test	InternalAssessment
40	60	75	25	200*

*200Marksistobeconvertedinto25marksforinternalAssessment.

PROJECTWORK

The student shall register for Project Work-I in pre-final Semester and Project Work-II in finalSemester. Project work may be allotted to a single student or to a group of students notexceeding4 per group. Project Work-II may/may not be continuation of Project Work-I. IfProject Work II is not a continuation of Project Work I then the topic and constitution of theprojectteam membersneednotbethesame.

Projectworkshallbecarriedoutunderthesupervisionofa"qualifiedteacher"intheDepartmentconcerned.Inthiscontext"qualifiedteacher"meansthefacultymemberpossessing(i) PGdegreeor (ii) Ph.D.degree.

TheProject Work-IIcarriedoutinindustry/academic/researchinstitutions neednot beacontinuation of Project Work I. In such cases, the Project Work shall be jointly supervised by asupervisor of the department and an expert as a joint supervisor from the organization and thestudentshallbeinstructedtomeetthesupervisorperiodicallyandtoattendthereviewcommittee meetings for evaluating the progress. The review meetings, if necessary, may alsobe arranged in online modewith priorapproval from the Head of the Institution and suitablerecordofthemeetingsshallbemaintained.

The Head of the Institutions shall constitute a review committee for project work for eachprogramme. Thereview committee consists of supervisor, expert fromtheDepartment andaprojectcoordinatorfromtheDepartment.Iftheprojectcoordinator/expertmemberhappenstobetheSupervisorthenanalternatemembershallbenominated.Inthecaseof

industrial project,the reviewcommittee shall havesupervisor, coordinatorfromindustryandprojectcoordinatorfromtheDepartment.

There shall be three reviews during the Semester VII and VIII by the review committee. Thestudentshallmakepresentationontheprogressmadebyhim/herbeforethecommittee.Thetotalmarksobtainedinthethreereviewsshallbe**reducedfor40marks**androundedto thenearestinteger (asper the scheme givenin 12.4.1).

The project report shall carry a maximum of 20 marks. The project report shall be submittedas per the approved guidelines as given by Director, Academic Courses. Same mark shallbe awardedtoevery student withinthe project groupfor the project report. Theviva-voce examination shall carry 40 marks. Marks are awarded to each student of the projectgroup basedon the individualperformancein the viva-voceexamination.

Review I	Review II	Review III	EndsemesterExaminations				
			Project Report		Viva-Voce		
10	15	15	Internal	External	Internal	External	Supervisor
			10	10	10	20	10

The last date for submission of project report is the last working day of the semester. If astudentfailstosubmittheprojectreportonorbeforethespecifieddeadlineorthestudenthassubmitted the project report but did not appear for the viva-voce examination, it will beconsidered as fail in the Project Work and shall re-register for the same in a subsequentsemester.

OTHEREMPLOYABILITYENHANCEMENTCOURSES

(a) The Seminar / Case study/Mini project course is to be considered as purely INTERNAL(with 100% internal marks only). Every student is expected to present a minimum of 2seminarspersemesterbeforetheevaluationcommitteeandforeachseminar,markscanbeequallyapportioned.ThethreemembercommitteeappointedbyHeadoftheInstitution consisting of course coordinator and two experts from the Department, willevaluate the seminar and at the endofthesemester, themarks canbeconsolidatedandtakenasthefinalmark.The evaluation shall be based on the seminar paper(40%), presentation (40%) and response to the questions asked during presentation(20%).

(b) TheIndustrial / Practical Training, Summer Project, Internship, shall carry 100marksand shall be evaluated through internal assessment only. At the end of Industrial /Practical training/Internship/SummerProject,the~~candidate~~ student shallsubmitan attendancecertificatefromthe organization where he / she has undergone trainingand a brief report. The evaluation will be made based on this report and a viva-voceExamination,conductedinternallybyathreememberDepartmentalCommitteeconstituted by the Head of the Institution consisting of course coordinator andtwoexpertsfromtheDepartment.

Thecertificates(issuedbytheorganization)submitted by the students shall be attached to the mark list sent by the Head of theInstitution totheControllerofExaminations.

(c) For all the courses under Employability Enhancement Courses Category, except theprojectwork, the evaluation shall be done with 100% internal marks and as per theprocedure describedin12.5(a) /(b).

ASSESSMENTFORVALUEADDEDCOURSES

Theone/twocreditcourseshallcarry100marksandshallbeevaluatedthrough**continuousassessments only**. Two Assessments as per the clause 12.1 or 12.2 shall be conducted bythe Department concerned. The total marks obtained in the assessments shall be reduced to100 marks and rounded to the nearest integer.A committee consisting of the Head of theDepartment, staff handling the courseand a senior Faculty member nominated by the HeadoftheInstitutionshalldotheevaluationprocess.Thelistofstudentsalongwiththemarksandthe grades earned may be forwarded to the Controller of Examinations for appropriate actionat least one month before the commencement of End Semester Examinations. The gradesearnedbythestudentsforvalueaddedcourseswillberecordedinthe GradeSheet,howeverthe same shallnotbe consideredforthecomputation ofCGPA.

ASSESSMENTFORONLINECOURSES

Students may be permitted to credit two online courses (which are provided with certificate)subject to a maximum of six credits. **The online course of 3 credits can be consideredinstead of one elective course**. These online courses shall be chosen from the SWAYAMplatform.Thecreditsearnedshallbetransferredandthemarksearnedshallbeconverte dintogradesandtransferred,providedtheorganizationofferingthecourseconducts regularexaminationandthestudent has passedintheexaminationas perthe normsoftheoffering organisation.The detailsregardingonlinecoursestakenupbystudent and marks/credits earnedshouldbe senttotheControllerofExaminations,AnnaUniversityin the subsequent semester(s) along with the details of the professionalelective tobedropped.

12.8. InternalmarksapprovedbytheHeadoftheInstitutionshallbedisplayedbytherespective HODswithin5 daysfromthe lastworkingday.

AttendanceRecord

Every teacher is required to maintain an 'ATTENDANCE AND ASSESSMENT RECORD'whichconsistsofattendancemarkedineachlectureorpracticalorprojectworkclass,thet estmarks and the record of class work (topic covered), separately for each course. This shouldbe submitted to the Head of the department periodically (at least three times in a semester)forcheckingthesyllabuscoverageandtherecordsoftestmarksandattendance.TheHea d of theDepartmentwillputhissignatureanddateafterdueverification.At theendofthesemester,therecordshouldbeverifiedbytheHeadoftheInstitutionwhowillkeepthisdoc umentinsafecustody(forfiveyears).TheUniversityoranyinspectionteamappointedby the University may verify the records of attendance and assessment of both current andprevioussemesters.

Conductof Academic AuditbyeveryInstitution

Everyeducationalinstitutionshallstriveforabetterperformanceofthestudentsbyconductingthe internalassessmentsasmentionedinClause12

In order to ensure the above, Academic Audit is to be done for every course taught during thesemester. For the internal assessments conducted for each course as per details provided inClause 12, the academic records shall be maintained in the form of documentation for theindividual assignments / case study report / report of mini project submitted by each studentandassessmenttestquestionpaperandanswerscript.Reportofindustrialtraining/internship shall alsobemaintained, if applicable.For laboratory courses students‟ recordshall bemaintained. Further, the bio-metric attendance of all students shall be maintained as a record.Head of the Institution shall arrange to conduct the Academic Audit for every course in asemester by forming the respective committees with an external course expert as one of themembersdrawn froma Technicalinstitutionofrepute nearthe institute.

The University or any inspection team appointed by the University may verify the records ofAcademic Audit report of the courses of both current and previous semesters, as and whenrequired.

13. REQUIREMENTSFORAPPEARING FORUNIVERSITYEXAMINATIONS

A student shall normally be permitted to appear for the University Examinations for all thecoursesregisteredinthecurrentsemester(videclause6)ifhe/shehassatisfiedthesemestercompletionrequirements(asperClause7).

Further, examination registration by a student is mandatory for all the courses in the currentsemester and all arrear(s) course(s) for the university examinations failing which, the studentwillnotbepermitted tomoveto thehigher semester.

Astudentwhohasalreadyappearedforanycourseinasemesterandpassedtheexaminationisnotentitled toreappearinthesame subjectforimprovementofgrades.

14. PASSING REQUIREMENTS

A student who secures not less than 50% of total marks prescribed for the course [InternalAssessment + End semester University Examinations]with a minimum of 45% of the markspresc ribed for theend-semester University Examination, shall be declared to have passedthecourseandacquiredtherelevantnumberofcredits.Thisisapplicableforboththeoryandpracticalcourses(includingprojectwork).

Ifastudentfailstosecureapassinatheorycourse/laboratorycourse(exceptelectives),thestudent shall register and appear only for the end semester examination in the subsequentsemester. In such case, the internal assessment marks obtained by the student in the firstappearanceshallberetainedandconsideredvalidforallsubsequentattemptstillthestudentsecureapass.However,fromthethirdattemptonwardsifastudentfailstoobtainpassmarks(IA + End Semester Examination) as per clause 14.1, then the student shall be declared tohave passed the examination if he/she secure a minimum of 50% marks prescribed for theuniversityendsemesterexaminationsalone.

If the course, in which the student has failed, is a professional elective or an open elective,the student may be permitted to complete the same course**.**In such case, the internalassessment marks obtained by the candidate in the first appearance shall be retained andconsidered valid for all subsequent attempts till the candidate secure a pass. However, fromthe third attempt onwards if a candidate fails to obtain pass marks (IA + End SemesterExamination) as per clause 14.1, then the candidate shall be declared to have passed theexamination if he/she secure a minimum of 50% marks prescribed for the university endsemesterexaminationsalone.

Ifanyotherprofessionalelectiveoropenelectivecourseisoptedbythestudent,thepreviousregistrationiscancelledandhenceforthitistobeconsideredasanewprofessionalelectiveor open elective course. The student has to register and attend the classes, earn thecontinuous assessment marks, fulfil the attendance requirements as per Clause 7 andappeartheendsemester examination.

If a student is absent during the viva - voce examination, it would be considered as fail.If astudent fails to secure a pass in Project work I, **the student shall register** for the courseagain inthesubsequentsemester andcan doProjectWorkIandIItogether.

The passing requirement for the courses which are assessed only through purely internalassessments (EEC courses except project work and laboratory), is 50% of the internalassessment(continuousassessment) marksonly.

Astudentcanapplyforrevaluationofthestudent"ssemesterexaminationanswerpaperin a theory course, as per the guidelines of the COE on payment of a prescribed fee alongwith prescribed application to the COE through the Head of the Institution. The COE willarrange for the revaluation and the results will be intimated to the student concernedthrough the Head of the Institution. Revaluation is not permitted for laboratory course andEECcourses.

15. AWARDOFLETTERGRADES

All assessments of a course will be evaluated on absolute marks basis. However, for thepurposeofreportingtheperformanceofastudent,lettergrades,eachcarryingcertainnumberofpoints,willbeawardedaspertherangeoftotalmarks(outof100)obtainedbythestudent,in eachsubjectasdetailedbelow:

LetterGrade	GradePoints	MarksRange
O (Outstanding)	**10**	**91-100**
A+(Excellent)	**9**	**81-90**
A (VeryGood)	**8**	**71–80**
B +(Good)	**7**	**61–70**
B (Average)	**6**	**56-60**
C (Satisfactory)	**5**	**50-55**
RA	**0**	**<50**
SA(ShortageofAttendance)	**0**	
W	**0**	

A student is deemed to have passed and acquired the corresponding credits in a particularcourse ifhe/sheobtainsanyoneofthe followinggrades:"O","A+","A","B+","B","C".

„SA" denotes shortage of attendance (as per clause 7.3) and hence prevention from writingthe endsemesterexaminations.„SA"willappearonlyinthe resultsheet.

"RA"denotesthatthestudenthasfailedtopassinthatcourse."**W**"denotes**withdrawal**fromthe exam for the particular course.The grades RA and W will figure both in Grade Sheet aswell as in Result Sheet. In both cases, the student has to appear for the End SemesterExaminationsasper theregulations.

If the grade RA is given to **Theory courses**/ **Laboratory Courses it is not required tosatisfy the** attendance requirements (vide clause 7) but has to appear for the end semesterexamination and fulfil the norms specified in Clause 14 to earn a pass in the respectivecourses.

If the grade RA is given to **EEC course (except project work), which are evaluated onlythroughinternalassessment,**thestudentshall registerforthecourseagaininthesubsequent semester fulfil the norms as specified in Clause 14 to earn pass in the course.However,attendancerequirementneed notbesatisfied.

If the grade RA is given to a Project work **course**, then the course is to be registered againand theattendancerequirements(videclause7) shouldbesatisfied.

FortheCo-curricularactivitiessuchasNationalCadetCorps(NCC)/NationalServiceScheme(NSS) / NSO / YRC / Science club / Literary Club/ Fine Arts Club, a „ completed" remark willappearin the Grade Sheet on successful completion of the same. Every student shall put ina minimum of 75% attendance in the training and attend the camp or events of the clubscompulsorily.Thetrainingandcamporclubeventsshallbecompletedduringthefirstyearofthe programme. However, for valid reasons, the Head of the Institution may permit a studentto complete thisrequirementinthesubsequentyears.

Successful completionofanyoneoftheaboveco-curricularactivitiesiscompulsoryfortheawardof degree.

ThegradesO,A+,A,B+,B,Cobtainedfortheone/twocreditcourse(notthepartofcurriculum)shall figure in the Grade Sheet under the title **„Value Added Courses/Internship/Industrialtraining"**.TheCoursesforwhichthegradesobtainedareRA,SA**will notfigureintheGradeSheet.**

For the students who complete the audit course satisfying attendance requirement, the title ofthe audit course will be mentioned in the Grade Sheet. If the attendance requirement is notsatisfied,itwillnotbeshowninthe**Gradesheet.**

Afterresults are declared, Grade Sheets willbe issued to each studentwhichwillcontainthe followingdetails:

- The college in whichthe studenthasstudied
- Thelistofcoursesregisteredduringthe semesterand thegrade scored.
- TheGradePointAverage(GPA)forthesemesterand
- TheCumulativeGradePointAverage(CGPA)ofallcoursesenrolled fromfirstsemester onwards.

GPAfor asemester istheratiooftheproductsofthenumberofcreditsfor coursesacquired and the corresponding pointsto the sum of the number of credits for the coursesacquiredinthesemester.

CGPA will be calculated in a similar manner, considering all the courses registered from firstsemester.RAgradeswill beexcludedfor calculatingGPAandCGPA.

$$\text{GPA/CGPA} = \frac{\sum_{i=1}^{n} C_i GP_i}{\sum_{i=1}^{n} C_i}$$

where$C_i$isthenumberof Creditsassigned tothecourse

GP_iisthe pointcorrespondingto thegradeobtainedforeachcourse

nis number of all courses successfully cleared during the particular semester inthecaseofGPAandduringall the semestersinthecaseofCGPA.

16 ELIGIBILITYFORTHEAWARDOFTHEDEGREE

AstudentshallbedeclaredtobeeligiblefortheawardoftheB.E./B.Tech. Degreeprovidedthestudenthas

i. Successfully gained the required number of total credits as specified in the curriculumcorrespondingto the student"sprogrammewithinthe stipulated time.
ii. Successfullycompletedthecourserequirements,appearedfortheEnd-Semesterexaminations and passed all the subjects within the period as prescribed in Clause 5.1and5.1.1.
iii. Successfully passedanyadditionalcoursesprescribedbytheDirector,AcademicCourseswheneverthestudentisreadmittedunderregulationsR-2021.
iv. Successfully completed the NCC / NSS / NSO / YRC / Science Club / Literature Club /Fine ArtsClubrequirements.
v. Nodisciplinaryactionpendingagainstthestudent.

CLASSIFICATIONOFTHEDEGREEAWARDED

FIRSTCLASSWITHDISTINCTION

Astudentwhosatisfiesthefollowingconditionsshallbedeclaredtohavepassedthe examinationinFirstclasswithDistinction:

- Should have passedtheexamination inall thecourses of all the eight semesters(10 Semesters in case of Mechanical (Sandwich) and 6 semesters in the case ofLateralEntry)inthestudent"s First Appearance within**five**years (Sixyears inthe case of Mechanical (Sandwich) and Four years in the case of Lateral Entry).Withdrawalfromexamination(videClause17)willnotbeconsideredasanappearan ce.
- ShouldhavesecuredaCGPAof notlessthan**8.50**.
- Oneyearauthorizedbreakofstudy(if availedof)isincludedinthefiveyears(Six years in the case of Mechanical (Sandwich) and four years in the case of lateralentry)for awardofFirstclasswithDistinction.
- Should NOT have been prevented fromwriting endsemester examination due tolackofattendanceinanysemester.

FIRSTCLASS:

Astudentwhosatisfiesthefollowingconditionsshallbedeclaredto havepassed theexamininin**Firstclass**:

- ShouldhavepassedtheexaminationinallthecourseS ofalleightsemesters(10Semesters incaseofMechanical (Sandwich) and6semestersinthecaseof Lateral Entry) **within five years**. (Six years in case of Mechanical (Sandwich) andFouryearsinthecaseofLateralEntry)
- Oneyearauthorizedbreak ofstudy (ifavailedof)or preventionfrom writing theEnd Semesterexaminationduetolackof attendance(if applicable)isincludedinthedurationof fiveyears(SixyearsincaseofMechanical(Sandwich)andfouryearsinthecaseoflateralentry) for awardofFirstclass
- ShouldhavesecuredaCGPAof notlessthan**6.50.**

SECONDCLASS:

All other students (not covered in clauses 16.2.1 and 16.2.2) who qualify for the award ofthedegree**(**videClause16.1)shallbedeclaredtohavepassedtheexamininin**SecondClas s**.

A student whois absentinendsemesterexaminationinacourse/ projectwork afterhavingregisteredforthe same shall be considered to have appeared in that examinationforthepurposeofclassification.(subjecttoclause17and18)

Photocopy/Revaluation

A student canapply forphotocopy ofhis/hersemesterexamination answerpaperinatheory course, as per the guidelines of COE on payment of a prescribed fee through properapplication to the Controller of Examinations through the Head of Institutions. The answerscript is to be valued and justified by a faculty member, who handled the subject andrecommendforrevaluationwithbreakupofmarksforeachquestion.Basedontherecommendat ion, the student can register for the revaluation through proper application totheControllerofExaminations.TheControllerofExaminationswillarrangefortherevaluationandt heresultswillbeintimatedtothestudentconcernedthroughtheHeadoftheInstitutions.Revaluation isnotpermitted for practicalcoursesandEECcourses.

Astudentcanapplyfor revaluationofanswerscriptsfor notexceeding5subjectsatatime.

Review

Students not satisfied with Revaluation can apply for Review of his/ her examination answerpaper in a theory course, within the prescribed date on payment of a prescribed fee throughproperapplication to ControllerofExamination through theHeadofthe Institution. studentsapplyingforRevaluationonlyareeligibletoapplyforReview.

17. PROVISIONFORWITHDRAWALFROMEND-SEMESTEREXAMINATION

Astudentmay, forvalid reasons,(medicallyunfit/ unexpected familysituations / sportsapprovedbyChairman,sportsboardandHOD)begrantedpermissiontowithdraw from appearing for the end semester examination in any course or courses in **ANYONE**ofthesemesterexaminationsduringtheentiredurationofthedegreeprogramme.Theap plicationshallbesenttoCOEthroughtheHeadoftheInstitutionswithrequireddocuments.

Withdrawal application is valid if the student is otherwise eligible to writetheexamination(Clause7)andifitismadewithinTENdaysafterthedateoftheexamination(s)int hatcourseor courses and recommended by theHeadoftheInstitutionandapprovedby theController of Examinations. For a student to withdraw from a course / courses, he/she shouldhave registered for the course, fulfilled the attendance requirements(videclause7) andearnedcontinuousassessmentmarks

Notwithstandingtherequirementofmandatory10days,applicationsforwithdrawalforspecialcasesunderextra ordinaryconditionswillbeconsideredonthemeritofthe case.

In case of withdrawal from a course / courses, the courses will figure both in Grade Sheet aswell as in Result Sheet. However, withdrawal shall not be considered as an appearance forthe eligibilityofastudentfor FirstClasswithDistinction.

If a student withdraws a course or courses from writing end semester examinations, he/sheshallregisterthesameinthesubsequentsemesterandwritetheendsemesterexamination(s) .

IfastudentappliesforwithdrawalfromProjectwork,he/shewillbepermittedforthewithdrawalonly after the submission of project report before the deadline. However, the student mayappear for the viva voce examination within 30/60 days after the declaration of results forProjectWorkIand IIrespectivelyand the sameshallnotbe considered asreappearance.

Withdrawalispermittedfortheendsemesterexaminationsinthefinalsemester,asperclause16.2.1.

18. PROVISIONFORAUTHORISEDBREAKOFSTUDY

A student is permitted to go on authorised break of study for a maximum period of one yearasasinglespell.
BreakofStudyshallbegrantedonlyonceforvalidreasonsforamaximumofoneyear duringthe entire period of study of the degree programme. However, in extraordinary situation thestudent may apply for additional break of study not exceeding another one year. If a studentintends to temporarily discontinue the programme in the middle of the semester for validreasons, and to re-join the programme in a subsequent year, permission may be grantedbased on the merits of the case provided he / she applies to the Director, Student Affairs inadvance, but not later than the last date for registering for the end semester examination ofthesemesterinquestion,throughtheHeadoftheInstitutionstatingthereasonsthereforeandthe probabledateofre-joiningtheprogramme.

Thestudentpermittedtore-jointheprogrammeafterbreakofstudy/preventionduetolackofattendance, shall be governed by the Curriculum and Regulations in force at the time of re-joining.The studentsre-joiningin newregulationsshallregisterforadditionalcourses,ifany,

as notified by the Centre for Academic Courses under change of regulations. These coursesmaybefromanyofthesemestersofthecurriculum inforce,soastobridgethecurriculuminforce andtheoldcurriculum.

The authorized break of study is included in the duration specified for passing all the coursesforthepurposeofclassification (videClause16.2).

The total period for completion of the Programme reckoned from, the commencement of thefirst semester to which the candidate was admitted shall not exceed the maximum periodspecified in clause 5.1 irrespective of the period of break of studyin order that he/she may beeligible fortheawardofthedegree.

If any student is prevented for want of required attendance, the period of preventionshall notbe consideredasauthorized„BreakofStudy"(Clause18.1).

IfastudentinFullTimemodewantstotakeupjob/start-up/entrepreneurshipduringtheperiodofstudyhe/sheshallapplyforauthorisedbreakofstudyforoneyear.Thestudentshalljointhejob/start-up/entrepreneurshiponlyaftergettingapprovalofthesamebyTheDirector,CentreforAcademicCourseswithdueprooftothateffect.

Nofee isapplicable to studentsduringthe BreakofStudyperiod.

19. DISCIPLINE

Everystudentisrequiredtoobservedisciplinedanddecorousbehaviourbothinsideand outside the college and not to indulge in any activity which will tend to bring down theprestige of the University / College. The Head of Institution shall constitute a disciplinarycommittee consisting of Head of Institution, Two Heads of Department of which one shouldbe from the faculty of the student, to enquire into acts of indiscipline and notify the Universityabout the disciplinary action recommended for approval. In case of any serious disciplinaryactionwhichleadstosuspensionordismissal,thenacommitteeshallbeconstitutedincludingonerepresentativefromAnnaUniversity,Chennai.Inthisregard,thememberwillbenominated bythe Universityon gettinginformation fromthe Head oftheInstitution.

If a student indulges in malpractice in any of the University / internal examination he / sheshallbe liable forpunitive action asprescribed bytheUniversityfromtime to time.

20. REVISIONOFREGULATIONS,CURRICULUM ANDSYLLABI

The University may from time to time revise, amend or change the Regulations, Curriculum,Syllabus and scheme of examinations through the Academic Council with the approval ofSyndicate.

Date: 27.07.2021

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON AUTONOMOUS AFFILIATED COLLEGES

August 2021 – December 2021 (ODD SEMESTER)*

UG & PG Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech.(Full-Time)	III, V, VII	18.08.2021	30.11.2021**	02.12.2021	13.12.2021
2.	B.E. / B.Tech (Part-Time)	III, V, VII				
3.	B.Arch. (Full-Time)	III, V, VII, IX				
4.	M.C.A. (Full-Time)	V				
5.	M.Sc (5 Yrs-Integrated)	V, VII, IX				
6.	M.B.A. (5 Yrs-Integrated)	V, VII, IX				

*** As per the directives of the Government of Tamil Nadu, the classes will be conducted in ONLINE mode**

RE - OPENING DAY FOR THE NEXT SEMESTER: 19.01.2022 (Wednesday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

**** In order to ensure minimum no. of working days, the following 7 Saturdays are declared as working days.**

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	28.08.2021	Friday
2.	11.09.2021	Monday
3.	25.09.2021	Friday
4.	09.10.2021	Thursday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
5.	23.10.2021	Friday
6.	06.11.2021	Tuesday
7.	20.11.2021	Thursday

27.07.2021

DIRECTOR
ACADEMIC COURSES

DAC - SB

Date: 25.10.2021

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

November 2021 – March 2022 (SEMESTER I)

UG (FT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Induction Programme	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech. (Full Time)	I	08.11.2021	22.11.2021	08.03.2022	10.03.2022	21.03.2022

RE-OPENING DAY FOR THE NEXT SEMESTER: 18.04.2022 (Monday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course. (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

DIRECTOR
ACADEMIC COURSES

DAC - SB

Date: 16.02.2022

DIRECTOR ACADEMIC COURSES ANNA UNIVERSITY CHENNAI-600 025

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

March 2022 – June 2022 (Even Semester – Except Semester II)

UG (FT/PT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech.(Full-Time)	IV,VI,VIII	07.03.2022	11.06.2022**	13.06.2022	22.06.2022
2.	B.E. / B.Tech (Part-Time)	IV,VI				
3.	B.Arch. (Full-Time)	IV,VI,VIII,X				

RE - OPENING DAY FOR THE NEXT SEMESTER: 01.08.2022 (Monday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

**** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.**

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	12.03.2022	Thursday
2.	26.03.2022	Friday
3.	09.04.2022	Tuesday
4.	23.04.2022	Monday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
5.	07.05.2022	Tuesday
6.	21.05.2022	Wednesday
7.	04.06.2022	Thursday
8.	11.06.2022	Friday

16/02/2022

DIRECTOR
ACADEMIC COURSES

DAC - SB

NELLAICOLLEGEOFENGINEERING

1. TeachingLoad&Timetable:

Allthefaculties will beequallydistributed with

- Departmentworks
- weeklyloadfor handlingthe theory&laboratoryclasses

2. InternalContinuousEvaluationSystem:

Accordingtoregulations2017(sofar allregulations),

- weconduct3InternalAssessment Testsand uploadin webportalofUniversity
- Periodicclass test in weeklybasis is alsoconducted

3. StudentsAssessmentofFaculty:

- ThefeedbackfromstudentsforfacultymembersistakenbeforeIAT-1ineachsemester.
- Onsummary,2 Feedbacksaretakenforeachacademicyear
- Inadditiontoittheparentsalsogiveafeedbackabouttheentireteachinglearningprocessoncei n awhile in an academicyear.