TMAESPOLYTECHNIC,HOSAPETE

InstitutionCode:316

SELFASSESSMENTREPORT
ApplicationNo:6947-06/06/2022

PART-A

Electronics&CommunicationEngg.

Part A:

1 NameandAddressofthe Institution:**TMAESPOLYTECHNICBELLARYROADHOSAPETE**

2. NameandAddressof theDirectorateofTechnicalEducation:**Department ofCollegiateandTechnicalEducation PalaceRoadBengaluru**

3. YearofEstablishment: **1983**

4. Typeof theInstitution:**GovernmentAided**

5. OwnershipStatus:**State GovernmentAided - Society**

6. OwnershipStatus: **StateGovernmentAided**

7. OtherAcademicInstitutionsoftheTrust/Society/Companyetc.,ifany:

Name ofInstitutions	YearofEstablishment	ProgramsofStudy	Location
TMAESTCH	1969	TEACHERS TRAINING	HARAPANAHALLI
TMAESSANSKRITPATASHALA	1970	SCHOOLEDUCATION	HARAPANAHALLI
TMAESCOLLEGEOFEDUCATION	1973	TEACHERSTRAINING	HARAPANAHALLI
TMAESHIGHSCHOOL	1979	HIGHSCHOOLEDUCATION	HARAPANAHALLI
TMAESCOLLEGEOFEDUCATION	1980	TEACHERS TRAINING	GANGAVATHI
TMAESANGANAVADITRAININGCENTER	1982	TEACHERS TRAINING	HARAPANAHALLI
TMAESHIGHSCHOOL	1982	HIGHSCHOOLEDUCATION	NEELAGUNDA,HARAPANAHALLI
TMAESSRIBAPUJIITI	1982	TECHNICALTRAINING	LAXMESHWARA

TMAESSRIMAHARISHIVALMIKIITI	1982	TECHNICALTRAINING	RANEBENNUR
TMAESITI	1983	TECHNICALTRAINING	SHIVAMOGGA
TMAESITI	1983	TECHNICALTRAINING	BHADRAVATHI
TMAESITI	1983	TECHNICALTRAINING	HOSAPETE
TMAESITI	1984	TECHNICALTRAINING	CHITHRADURGA
TMAESSRIMAHARUDRASWAMYITI	1984	TECHNICALTRAINING	CHANNAGIRI
TMAESGMCJHIGHSCHOOL	1985	HIGHSCHOOLEDUCATION	DHULEHOLE
TMAESHIGHSCHOOL	1986	HIGHSCHOOLEDUCATION	HIREMUGADUR
TMAESSRI THIMMAIAHSHETTYITI	1986	TECHNICALTRAINING	HAGARIBOMMANAHALLI
TMAESITI	1989	TECHNICALTRAINING	HIRIYUR
TMAESSRITONKADAVEERAPPAITI	1983	TECHNICALTRAINING	HAVERI
TMAESSCSCOLLEGEOFPHARMACY	1980	PHARMACY	HARAPANAHALLI
TMAESMMJCOLLEGEOFPHARMACY	1983	PHARMACY	HAVERI
TMAESCPEd COLLEGE	1984	PHYSICALTEACHERS TRAINING	HAVERI
TMAESPOLYTECHNIC	1984	DIPLOMA	BHADRAVATHI
TMAESAYURVEDICMEDICALCOLLEGE	1991	AYURVEDICMEDICINE	HOSAPETE
TMAESAYURVEDICMEDICALCOLLEGE	1991	AYURVEDICMEDICINE	BHADRAVATHI
TMAESROSEBUDPRIMARYSCHOOL	1995	SCHOOLEDUCATION	HOSAPETE

TMAESSCHOOLOFNURSING	2004	NURSING	HOSAPETE
TMAESDAVPUBLICSCHOOL	2004	SCHOOLEDUCATION	HOSAPETE
TMAESCOLLEGE OFEDUCATION	2005	TEACHERSTRAINING	HAVERI
TMAESCPEdCOLLEGE	2005	PHYSICAL TEACHERS TRIANING	HAVERI
TMAESSIRMVPOLYTECHNIC	2008	DIPLOMA	HOSAPETE
TMAESITI	2008	TECHNICAL TRAINING	HULIGI,MUNIRABAD
TMAESEASTFORT PRIMARYSCHOOL	2010	SCHOOLEDUCATION	CHITHRADURGA
TMAESWISDOMPUBLICSCHOOL	2010	SCHOOLEDUCATION	HAVERI
TMAES SRIBANGIBASAPPPUSCIENCE COLLEGE	2011	PREUNIVERSITY EDUCATION	HARAPANAHALLI
TMAESDAVPUBLICSCHOOL	2013	SCHOOLEDUCATION	HARAPANAHALLI
TMAESDAVPUBLICSCHOOL	2013	SCHOOLEDUCATION	GANGAVATHI
TMAESPREPRIMARYSCHOOL	2017	SCHOOLEDUCATION	KAMPASAGARA
TMAES SRICHANDRAMOULSESWARB.Sc.	2021	NURSING	HARAPANAHALLI

8. Details ofalltheprogramsbeingoffered bytheinstitutionunderconsideration:

NameoftheProgram	Program Applied Level	Start of Year	Year ofAICTE	Initial Intake	IntakeIncrease	Current Intake	Accreditation status	From	To	Programforconsideration	Program duration
Electronics&CommunicationEngineering	**Diploma**	**1983**	**1983**	**45**	**Yes**	**50**	**Applying first time**	**-**	**-**	**Yes**	**0**

SanctionedIntakeforLastFiveYearsfortheELECTRONICS&COMMUNICATIONENGINEERING	
AcademicYear	**SanctionedIntake**
2023-24	50
2022-23	50
2021-22	50
2020-21	50
2019-20	50

7aAccreditationHistory

Sr. No	**NameoftheDepartment**	**Nameofthe Program**	**Year of 1stAccreditation(ifApplicable)**	**Year of 2ndAccreditation(ifApplicable)**	**Year of 3rdAccreditation (ifApplicable)**
1					

7bProgramstobe consideredforAccreditationvidethisapplication:

S No	Level	Discipline	Program
1	Diploma	Engineering&Technology	CivilEngg.
2	Diploma	Engineering&Technology	Electronics&CommunicationEngg.
3	Diploma	Engineering&Technology	MechanicalEngg.
4	Diploma	Engineering&Technology	ElectricalandElectronicsEngineering

9. TotalnumberofEmployees:

A. Regular*Employees(FacultyandStaff):Enginee

ringandTechnology- DiplomaShift-1

Items	2023-24		2022-23		2020-21	
	MIN	MAX	MIN	MAX	MIN	MAX
FacultyinEngineering&Technology(Male)	42	52	43	51	43	52
FacultyinEngineering&Technology(Female)	6	12	6	12	6	10
FacultyinScience&Humanities(Male)	3	3	4	4	4	4
FacultyinScience&Humanities(Female)	2	2	3	3	3	4
Non-teachingstaff(Male)	63	64	63	64	63	64
Non-teachingstaff(Female)	9	9	5	5	5	5

B. ContractualStaff(NotCoveredin9.A):

EngineeringandTechnology-Diploma	☐ Shift1	☐ Shift2

10. TotalnumberofStudents:

EngineeringandTechnology- DiplomaShift-1

	2023-24	**2022-23**	**2021-22**
Totalno.ofBoys	988	962	926
Totalno.ofGirls	167	158	165
Total	**1155**	**1120**	**1091**

11. ContactInformationoftheHead oftheInstitutionand NBA Coordinator:

Head of the Institution	
Name	Dr. H K Shankarananda
Designation	Principal
MobileNo.	9945909990
EmailID	tmaespoly316@gmail.com

NBACoordinator, IfDesignated

Name	Sri. T Naziruddeen
Designation	VicePrincipal/HOD,Mech.Dept
MobileNo.	9886572502
EmailID	naziruddeent@gmail.com

Criteria – 1

Vision,Mission &ProgramEducationalObjectives

PartB

1. VISION,MISSIONANDPROGRAMEDUCATIONALOBJECTIVES(50) Total Marks 47

1.1 StatetheVisionandMissionoftheDepartmentandInstitution(5)

TotalMarks5.0In stituteMarks 5.0

Visionoftheinstitute	Empoweringyouthbyimpartingqualitytechnicaleducationandstrivetopreparestudentswithexcellentt echnicalskills.
Missionoftheinstitute	1. Tooffervalueaddedqualitytechnicaleducation&excellentacademictrainingtoourstudents. 2. Toprovidestateofartinfrastructurewithlatestfacilities. 3. Tostrengthenindustryinstituteinteraction.
Vision of theDepartment	Toproducecreative,innovative,competitiveandethicalengineerswhocanleadintheever-changingworldofelectronics andcommunicationtechnologies.

	Mission No.	MissionStatements
MissionoftheDepartment	M1	ToimpartQualityTechnicalEducationindiplomaelectronicsandcommunicationengineer ing
	M2	Todeveloppracticalexperienceinlearningand involveincontinuousindustryinteractionandparticipation.
	M3	Toimpartsocial,ethicalvalues&leadershipqualitiesinstudentsthroughvaluebasedsystem ofeducation.

1.2 Statethe ProgrameducationalObjectives(PEOs)(5)

TotalMarks 05InstituteMarks 05

PEONo.	ProgramEducationalObjectivesStatements
PEO1	Demonstrate,Updateandadaptknowledgeintheareaofelectronicsandcommunicationengineeringandthealliedfi elds.
PEO2	Proposesolutionsforthecoreindustryintheeverchangingglobalenterprisewithethicalpractices.
PEO3	Developleadershipqualitiesandsucceedintheirchosencareerpath,inindustryorpublicservicethroughengineerin gability,life skillsandmultidisciplinaryskillsetacquired.

PEO4	Pursuehighereducationinstitutesofnationallevel

1.3 IndicatewhereandhowtheVision,MissionandPEOsarepublishedanddisseminatedamongstakeholders(10)

Total Marks 09

InstituteMarks 09

ThemissionandvisionoftheinstitutearepublishedintheInstitutionalwebsitehttp://tmaespolytechnichpt.com/.

Themissionandvisionisdisplayedatprominentlocationsinthecampuswhichcanbeviewedbystudents,parents,facultymembersandotherstakeholders.

Sl. No.	Methodology	InternalStakeholders					ExternalStakeholders		
		Students	Faculty	Manage-ment	DTE Board	NBA Committee	Parent	Employer	Alumni
1	College Website	√	√	√	√	√	√	√	√
2	DisplayBoards DepartmentsClassRoomsLaboratoriesCommon Places	√	√	√	√	√	√	√	√
3	Includedintheagenda ofdeptandNBACommitteemeetings		√	√		√		√	√
4	DirectCommunication				√	√	√	√	√

Table:DisseminationofVision,Mission&PEOs among Stakeholders

1.4 StatetheprocessfordefiningtheVisionandMissionoftheDepartmentandPEOsoftheprogram(15)

TotalMarks 14
InstituteMarks 14

TheProcess of definingthe Visionand Mission ofthe program

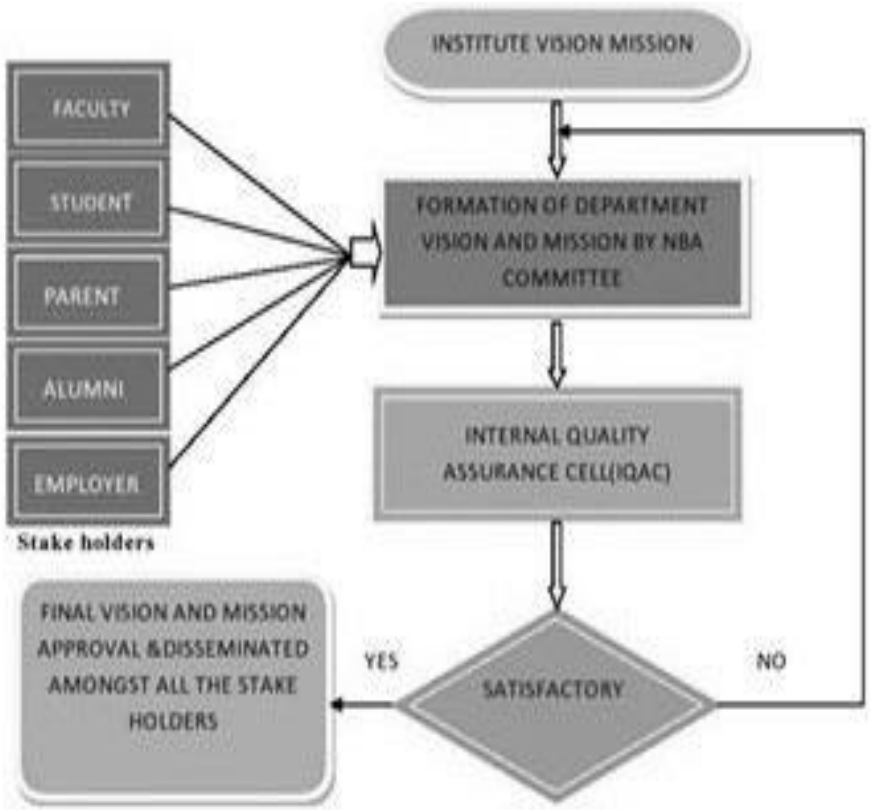

Fig.:Flowchartshowingtheprocess

Step1:Responseofthestakeholders(students,facultymembers,parents,employersandalumni)regardingthevisionandmissionstatementsofthedepartmentarecollectedthroughsurvey.

Step2:Theviewsandopinionsareconsolidatedfromthesurveyprocess,andtheinstitutevision,missionareConsideredindraftingthevisionandmissionofthedepartmentbytheNBAcommittee.

Step3:ThedraftvisionandmissionarereviewedbytheNBAcommitteeandfurthersubmittedtotheIQAC.Afterconfirmingtheconsistencyofthedepartmentvisionandmissionwiththevisionand missionoftheInstitute,the same will be approvedbyIQAC.

Step4:OnapprovalbyIQAC,thevisionmissionofthedepartmentarepublishedanddisseminatedtoallthestakeholders.

TheprocessfordefiningthePEOsoftheprogram

ThePROGRAMMEEDUCATIONALOBJECTIVESAREESTABLISHEDTHROUGHACONSULTATIONPROCESSINVOLVINGTHECORECONSTITUENTSSUCHAS:STUDENT, ALUMNI,FACULTY,EMPLOYERSANDPARENTS.
THEPEOSAREESTABLISHEDTHROUGHTHEFOLLOWINGSTEPSANDAREREPRESENTEDASSHOWNINTHEFIG.BELOW.

Step1:THEPEOSAREDONEINLINEWITHINSTITUTEANDDEPARTMENTVISIONANDMISSIONSTATEMENTS.

Step2:THECOLLABORATIVEVIEWSARECOLLECTEDFROMVARIOUSSTAKEHOLDERSBYTHEPROGRAMMECOORDINATORANDFORMULATIONOFPEOSWITHREFERENCETOPEOSOFOTHERINSTITUTIONSANDJOURNALPAPERS.

Step3:THEPEOSAREDEVELOPEDBYTHETEAMOFFACULTYMEMBERSANDREVIEWEDINTHEDEPARTMENTALMEETINGS.

Step4:THEPEOSAREPRESENTEDINTHEPROGRAMADVISORYCOMMITTEE(PAC)FORADDITIONALINPUTSREQUIREMENTSFORANYCHANGEINTHESTATEMENTS.

Step5:FINALIZEDPROGRAMMEEDUCATIONALOBJECTIVES(PEOS)AREPUBLISHED.

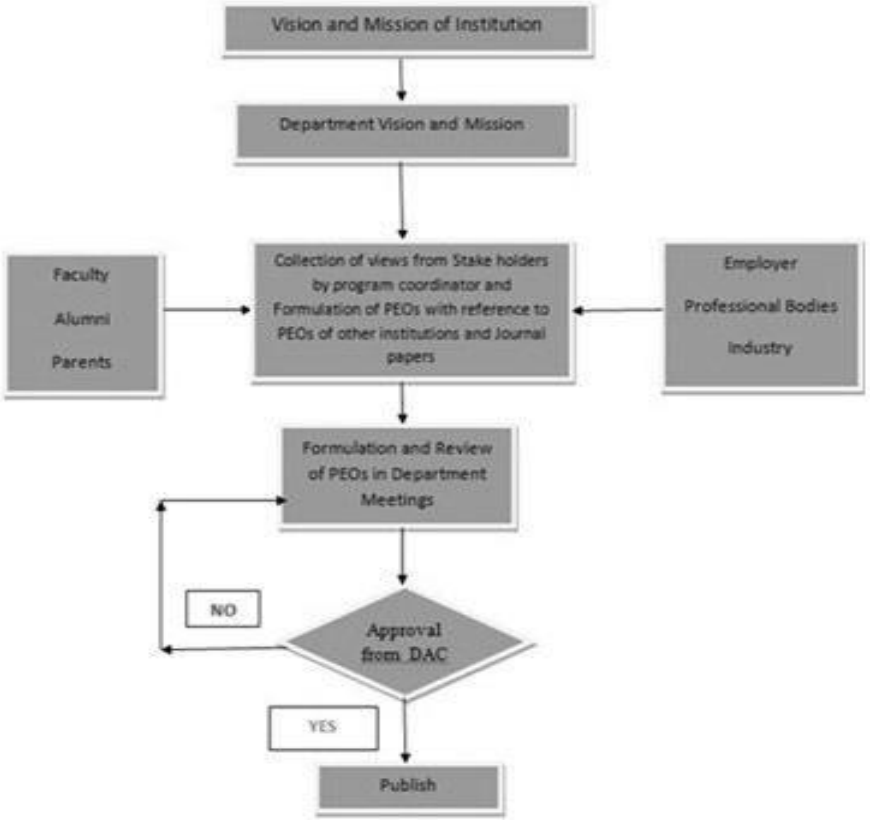

Fig:***Process for definingPEOs ofthePrograM***

1.5 EstablishConsistencyofPEOswithMissionoftheDepartment(15) **TotalMarks 14InstituteMarks 14**

Justification:

PEOs	M1	M2	M3	Justification
PEO1	2	3	3	(Mission1)moderatelyPEO1toembedastrongfoundationinE&CEngineeringtosucceedinindustryorhighereducation. (Mission2)highlysupporttoachievePEO1,asobjectiveistoachieveprofessionalbyadaptingtochallengesinrapidlychangingtechnology. (Mission3)highlysupportstoachievePEO1forinterpersonalandentrepreneurial skills.
PEO2	2	3	3	(Mission1)moderatelysupporttoachievePEO2,asobjectiveistobeable tosolverealworldproblemsusingsoundtechnicalknowledgein E& CEngineering. (Mission2)highlysupportsPEO2,asprofessionalgrowthcanonlybeachievedbyadaptingtochallengesinrapidlychangingtechnologyDevelopmentinleadershipqualitiesthroughinterpersonalandentrepreneurialskills(Mission3)canbeachievedwithstrongsupportofcoreknowledgeof ComputerEngineering(PEO 2)
PEO3	3	3	2	Stronglysupport of technicalknowledge(Mission1) helpsinexcelling skill invariousfiled ofE & C PEO3canbeachievedthroughmoderatelyadaptingchangingcurricular, co-curricular activities Moderatebondbetweenmission3andPEO3helpsinexcellinginprofessionalcarrier

PEO4	1	2	3	Moderatesupporttechnicalknowledge(Mission1)willhelpinachieving successinvariousfiledofE& Cengineering. Strongbondingbetweenadaptingchallengesinrapidlychangingtechnol ogy(Mission2)canleadtosuccesshonestyandteambuilding. Stronginterpersonalandentrepreneurialskills(Mission3)arenecessary forprofessionaldevelopment.

PEOStatements	M1	M2	M3
Demonstrate,Updateandadaptknowledgeintheareaofelectronicsandcommunicationengineeringandthealliedfields.	3	2	2
Propose solutionsfor the coreindustryintheeverchangingglobalenterprisewithethicalpractices.	2	2	2
Developleadershipqualitiesandsucceedintheirchosencareerpath,inindustryorpublicservicethroughengineeringability,lifeskillsandmultidisciplinaryskill setacquired.	2	2	2
Pursuehighereducationinstitutesofnationallevel.	2	2	2

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Criteria – 2

ProgramCurriculum&TeachingLearningProcesses

2. PROGRAMCURRICULUMANDTEACHING-LEARNINGPROCESSES (200) Total Marks184

2.1 ProgramCurriculum(40) InstituteMarks 38

AllPOsandPSOsarebeingdemonstrablymetthroughCurriculum?: Yes

2.1.1 Statetheprocessusedtoidentifyextentofcomplianceoftheboardcurriculumforattainingthe ProgramOutcomes(POs)andProgramSpecificOutcomes(PSOs)asmentionedinAnnexure I.Alsomentiontheidentifiedcurricular gaps,ifany(40)

A. Processusedtoidentifyextentofcomplianceofcurriculumforattaining POs&PSOs(40)

InstituteMarks38TMAESPolytechnic,establishedintheYear1983.Thecollegeisrecognizedby GovernmentofKarnatakaandaffiliatedtoAICTE,NewDelhi.TheCurriculumforE&CEngineeringprogramcomprisesofthecourse contentasprescribedbytheDCTE,Bengaluru.TheDCTEmaintainsbalancebetweenvariousdisciplinessuchasScience&Humanities,Basicsciences,ProgramCore,EngineeringProgramElective,Inplanttrainingcourse.HencetheElectronics&CommunicationEngineeringProgramstructurefollowstherecommendations of theBoardof TechnicalExamination(BTE),Bengaluru,timetotimeandaccordinglymodifiesthecurriculum.

FurthertheE&CEngineeringCurriculumisalsoupgradedcontinuouslyasperthedirectionsfromCurriculumDevelopmentCelloftheDCTE.ThecellconductsperiodicmeetingsandsetsguidelinesandframethesyllabusbasedontheinputreceivedfromIndustrialists,Academicians,IndustrialistsandAlumni.Thecurriculumwillberevisedoncein5yearsbytheDCTE.

Theboardfollowstheoverallcurriculumbreakupanditisimplementedinitsprogram,whichisforaperiodof6semestersor3years.

PROGRAMOUTCOMES(POs)

1	**Basic and Disciplinespecificknowledge**:Applyknowledgeofbasicmathematics,scienceandengineeringfundamentalsandengineeringspecializationtosol
2	**Problemanalysis**:Identifyandanalysewell-definedengineeringproblemsusingcodifiedstandardmethods.
3	**Design/developmentofsolutions**:Designsolutionsforwell-definedtechnicalproblemsand assistwiththedesignofsystemscomponentsorprocessestomeetspecifiedneeds.
4	**EngineeringTools,ExperimentationandTesting**:Applymodernengineeringtoolsandappropriatetechniquetoconductstandardtestsandmeasurements.
5	**Engineeringpracticesforsociety,sustainabilityandenvironment**:Applyappropriatetechnologyincontextof society,sustainability,environment and ethicalpractices.

6	**ProjectManagement**:Useengineeringmanagementprinciplesindividually,asateammemberoraleadertomanageprojectsandeffectivelycommunicateaboutwell-definedengineeringactivities.
7	**Life-longlearning**:Abilitytoanalyseindividualneedsandengageinupdatinginthecontextoftechnological changes.

PROGRAMSPECIFICOUTCOMES(PSOs)

PSO1	Applyprinciplesofmathematics,communication,automationandlogiccontroltoanalyzedifferenttypes ofsignalsandswitchingoperations.
PSO2	Analyze,Synthesizetheanalog&digitalcircuits&toadaptforrapidchangesintoolsandtechnologythroughlife-longlearning.
PSO3	Design,simulateandfabricatePCBusingEDAtoolsforElectronics&Communication,Electrical circuits,andinterfacethrough programming.

Table2.1:StructureoftheprogramasperBTECurriculum(2020Scheme)

I SEMESTERDIPLOMAIN ELECTRONICS &COMMUNICATION ENGINEERING

S.No	Course/TeachingDepartment	Course Code	CourseTitle	Hoursperweek			TotalContact Hrs/week	Credits
				L	T	P		
THEORYCOURSES								
1	ES/EC	20EC11T	DigitalElectronics	4	0	0	4	4
PRACTICALCOURSES								
2	BS/SC	20SC02P	StatisticsandAnalytics	2	0	4	6	4
3	ES/ME	20ME02P	ComputerAidedEnggGraphics	2	0	4	6	4
4	ES/EE/EC	20SC01P	Fundamentals ofElect &EEngg	2	0	4	6	4
AUDITCOURSES								
5	AU/SC	20AU01T	EnvironmentalSustainability	2	0	0	2	2
TOTAL				14	0	12	14	18

T:TheoryP:PracticalD:DrawingE:ElectiveBS:BasicScienceES:EngineeringScienceHS:Humanities&SocialScienceAU:AuditCourseEG:EnglishSC:Science

II SEMESTERDIPLOMA INELECTRONICS &COMMUNICATION ENGINEERING

S.No	Course/TeachingDepartment	Course Code	CourseTitle	Hoursper week			Total Contact Hrs/week	Credits
				L	T	P		
THEORYCOURSES								
1	SC/EC	20PM01T	ProjectManagementSkills	2	0	4	6	4
2	BS/SC	20SC01T	EngineeringMathematics	4	0	0	4	4
PRACTICAL COURSES								
3	ES/EE/EC	20EG01P	CommunicationSkills	2	0	4	6	4
4	ES/CS	20CS01P	IT Skills	2	0	4	6	4
5	ES/EC	20EC21P	ElectronicComponents& Devices	2	0	4	6	4
AUDITCOURSES								
5	AU/SC	20KA21T	Kannada-I/SahithyaSincha-I/BalkeKannada-I	2	0	0	2	2
TOTAL				12	0	20	32	22

T:TheoryP:PracticalD:DrawingE:ElectiveBS:BasicScienceES:EngineeringScienceHS:Humanities&SocialScienceAU:AuditCourseEG:EnglishSC:Science

III SEMESTERDIPLOMA IN ELECTRONICS&COMMUNICATIONENGINEERING

S.No	Course/TeachingDepartment	Course Code	CourseTitle	Hoursper week			Total Contact Hrs/week	Credits
				L	T	P		
INTEGRATEDCOURSE								
1	PC/EC	20EC31P	AnalogElectronics	3	1	4	8	6
2	PC/EC	20EC32P	LogicDesignUsingVerilog	3	1	4	8	6

3	PC/EC	20EC33P	CommunicationSystems	3	1	4	8	6
4	PC/EC	20EF34P	ElectronicsmeasurementsandTestingTechniques	3	1	4	8	6
AUDITCOURSES								
5	AU/KA	20KA31T	Kannada-II/SahithyaSincha-II/BalkeKannada-II	2	0	0	2	2
TOTAL				14	4	16	34	26

IV SEMESTER DIPLOMA IN ELECTRONICS&COMMUNICATION ENGINEERING

S.No	Course/TeachingDepartment	Course Code	CourseTitle	Hoursper week			Total Contact Hrs/week	Credits
				L	T	P		
INTEGRATEDCOURSE								
1	PC/EC	20EC41P	PCB Design&Fabrication	3	1	4	8	6
2	PC/EC	20EC42P	WirelessCommunication	3	1	4	8	6
3	PC/EC	20EC43P	EmbeddedC Programming	3	1	4	8	6
4	PC/EC	20EF44P	IndustrialAutomation	3	1	4	8	6
AUDITCOURSES								
5	AU/EC	20KA41T	IndianConstitution	2	0	0	2	2
TOTAL				14	4	16	34	26

V SEMESTER DIPLOMAIN ELECTRONICS &COMMUNICATION ENGINEERING

S.No	Course/TeachingDepartment	Course Code	PathwayTitle	Hoursper week			TotalContact Hrs/semester	Credits
				L	T	P		
ProgrammeSpecializationPathway								
1	EC Specialization pathwaysinEmergingAreas studentMayselectany oneof the specializations	20EC51I	1. DroneTechnologies	104	52	312	468	24
		20EC52I	2. IndustrialInternetofThi	104	52	312	468	24
		20EC53I	3. Automation&Robotics	104	52	312	468	24
		20EC54I	4. E -Mobility	104	52	312	468	24
Science&Research Pathway				**L**	**T**	**P**	**Total**	**Credits**
2	BS/SC/EC Specialization pathwayinScience&Research (Studentneedtotakeall fourpapersin thisPathway)	20SC51T	Paper-I-AppliedMathematics	52	26	0	78	6
		20SC52T	Paper-2-AppliedScience	52	0	52	104	6
		20RM53T	Paper-3-ResearchMethodo	52	0	52	104	6
		20TW54P	Paper-4-TechnicalWriting	39	13	52	104	6
			Total	195	39	156	390	24
3	ES/EC	20ET51I	EntrepreneurshipStartup	104	52	312	468	24

Note:In 5th Semesterstudentneedto select any one of the pathways consistingof 24 credits. Students cancontinue theirhighereducationirrespective of thePathwayselected

VI SEMESTER DIPLOMA IN ELECTRONICS&COMMUNICATION ENGINEERING

Pathway	Course/TeachingDepartment	Course Code	PathwayTitle	Course		TotalContactHours	Credits
Internship/Project	ES/EC	20EC61S	Specialisation Pathway	Internship/ Project	40 Hours /Week Total 16 weeks	640	16
		20EC61R	Science&ResearchPathway	Research Project	40 Hours /Week Total 16 weeks	640	16
		20EC61E	Entrepreneurship andstart up pathway	MinimumViable Product MVP/Incubation/Startup Proposal	40 Hours /Week Total 16 weeks	640	16

Note:Student shallundergoInternship/Project/researchproject/MVP/Incubation/Startupproposalinthesamearea as optedin5thsemesterpathway

a)Courses:

Year/Sem		HS	BS	ES (Inter-disciplinary)	PC	PE	OE	AU	EEC	Totalno. ofCourses
IYear	ISem		1	2	1			1		5
	IISem	1	1	1	2			1		6
IIYear	IIISem				4			1		5
	IVSem				4			1		5
III Year	VSem					1				1
	VISem								1	1
TotalCourses		1	2	3	11	1		4	1	**22**

Legend: HS-CommunicationSkills&SocialScience,BS-BasicScience,ES-EnggScience,PC-ProfessionalCore, PE-ProfessionalElective,OE-OpenElective,AU-AuditCourse,EEC-EmployabilityEnhancement Course

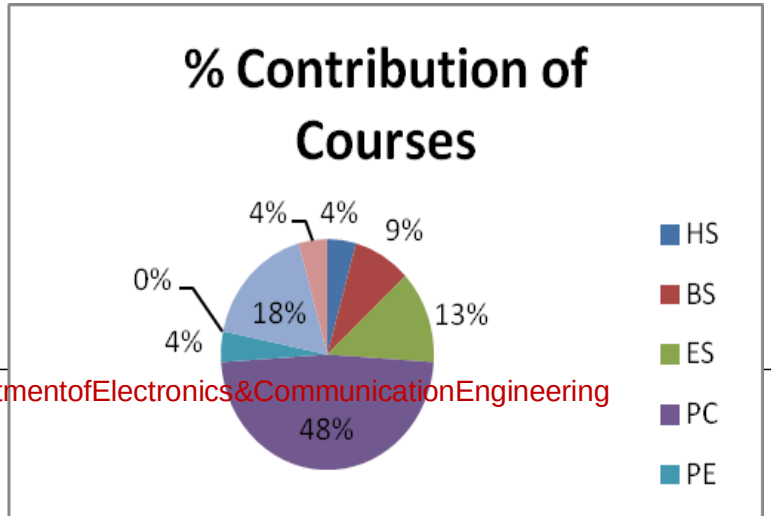
a)Credits:

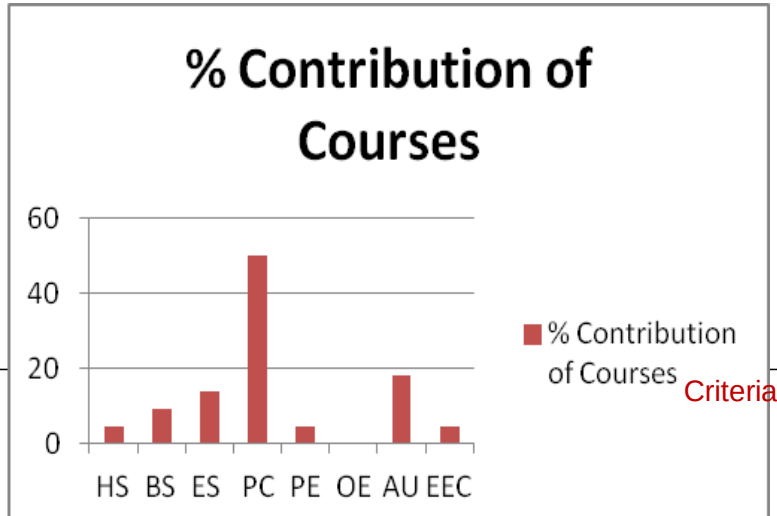
Year/Sem		HS	BS	ES (Inter-disciplinary)	PC	PE	OE	AU	EEC	Total Credits
IYear	ISem		4	8	4			2		18
	IISem	4	4	4	8			2		22
IIYear	IIISem				24			2		26
	IVSem				24			2		26
III Year	VSem					24				24
	VISem								16	16
TotalCourses		4	8	12	60	24		8	16	**132**

Legend: HS-CommunicationSkills&SocialScience,BS-BasicScience,ES-EnggScience,PC-ProfessionalCore,PE-ProfessionalElective,OE-OpenElective,AU-AuditCourse,EEC-EmployabilityEnhancement Course

CourseContribution:

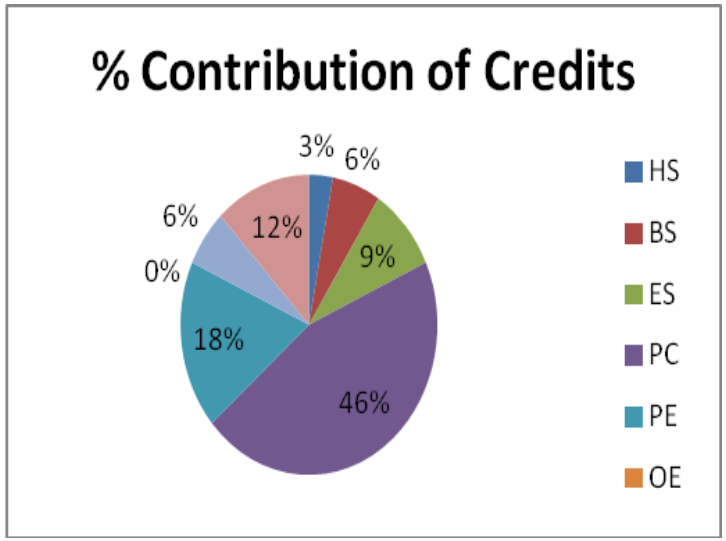
CourseType	% Contribution
CommunicationSkills&SocialScience(HS)	4.5
Basic Science(BS)	9.1
EngineeringScience(ES)	13.6
ProfessionalCore(PC)	50
ProfessionalElective (PE)	4.5
OpenElective(OE)	0
AuditCourse(AU)	18.2
EmploymentEnhancementCourse(EEC)	4.5

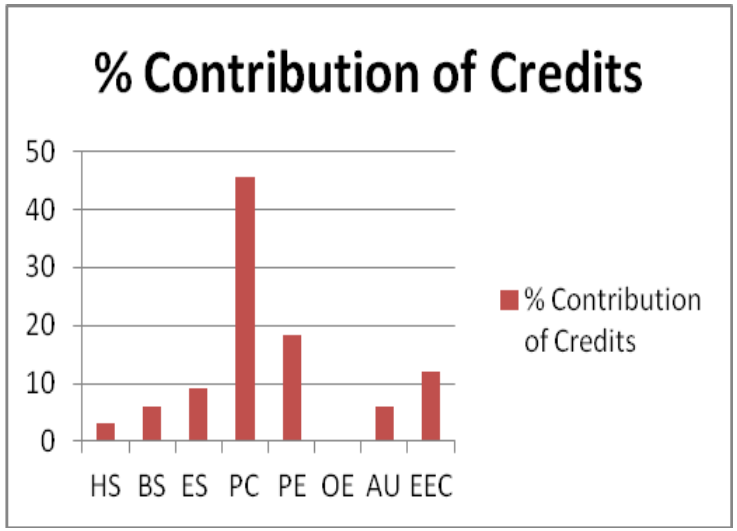




CreditContribution:

CourseType	% Contribution
CommunicationSkills&SocialScience(HS)	3
Basic Science(BS)	6.1
EngineeringScience(ES)	9.1
ProfessionalCore(PC)	45.5
ProfessionalElective (PE)	18.2
OpenElective(OE)	0
AuditCourse(AU)	6.1
EmploymentEnhancementCourse(EEC)	12.1





TheprocessadoptedintheDepartmenttoidentifycomplianceofE&CEngineeringprogramCurriculumfortheattainmentofPO'sandPSOsissummarizedbelow:Attheoutset,forallthe Coursespresentinthecurriculumthe CourseOutcomestatementsaredevelopedbythecourseownerandforeachCOs,themappingismadetoeachPOsandPSOsbasedonthecontentofCourseoutcomesandaccordinglyattainmentlevelsofmappingiscarriedout.Thenaverageattainmentlevelsarecomputedfromtheaggregateattainmentlevelsofallthecoursesexistinginthecurriculumand thedetailsareshown inTablesNo 2.2 & 2.3.

TheattainmentlevelforeachPO'sandPSO'sisworkedoutsimilarly.TheattainmentforPO'SandPSO'SisconsideredfullyattainediftheaverageattainmentlevelcomputedfromtheabovetablesishigherthanTWO.

ToidentifytheExtentofcurriculumgapsandtorecognizetheattainmentlevelsofPO's,PSO'samatrixisdeveloped thecoursesandtheirattainmentlevelsiscomputedforallPO'sandPSO's.AftermappingwithallthePO'sandPSO'

Thedetailsareshowninfig2.1.

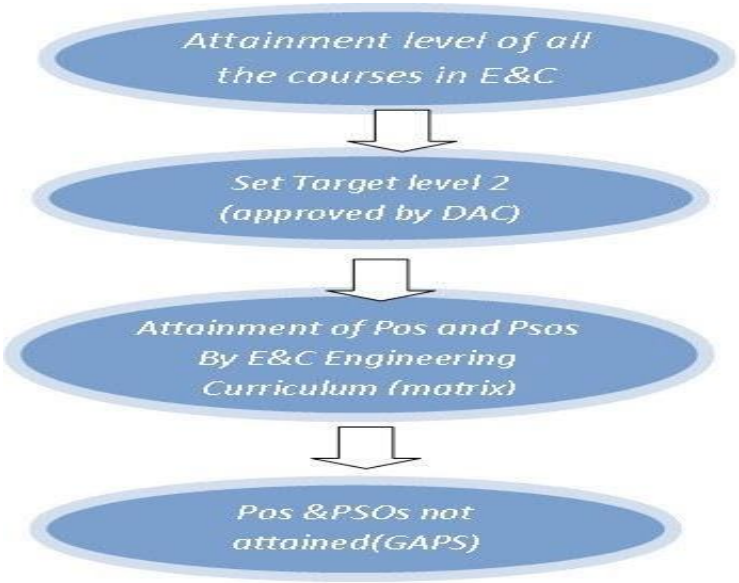


Fig2.1:ProcesstodescribethemappingofPO'sandPSO'swith DTECurriculum

Table2.2: ProcessShowingmappingofPO's&PSO'sby all theCourseOutcomes:

Sl. No.	SEM	Course	Course Index	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
1	1	DE	CO101.1	3	2			1			2	3	3
2			CO101.2	3	2	1	2				2	3	3
3			CO101.3	3	2	1	2				2	3	3
4			CO101.4	3				1			2	3	3
5	1	S&A	CO102.1	3	3		3	3		3	2	2	3
6			CO102.2	3	3		3	3		3	2	2	3
7			CO102.3	3	3		3	3		3	2	2	3
8			CO102.4	3	3		3	3		3	2	2	2
9	1	CAEG	CO103.1	3			3				2	2	2
10			CO103.2	3			3				2	2	2
11			CO103.3	3			3				2	2	2
12			CO103.4	3			3				2	2	2
13	1	FEEE	CO104.1	3			3				3	3	2
14			CO104.2	3			3				3	3	2
15			CO104.3	3			3				3	3	2
16			CO104.4	3			3				3	3	2
17	1	EVS	CO105.1	3				3		3			
18			CO105.2	3				3		3			
19			CO105.3	3				3		3			
20			CO105.4	3				3		3			
21			CO105.5	3				3		3			
22			CO105.6	3				3		3			
23	2	PMS	CO105.1	3	3			2		1	1	2	3
24			CO105.2	3	3	3				1	1	2	3

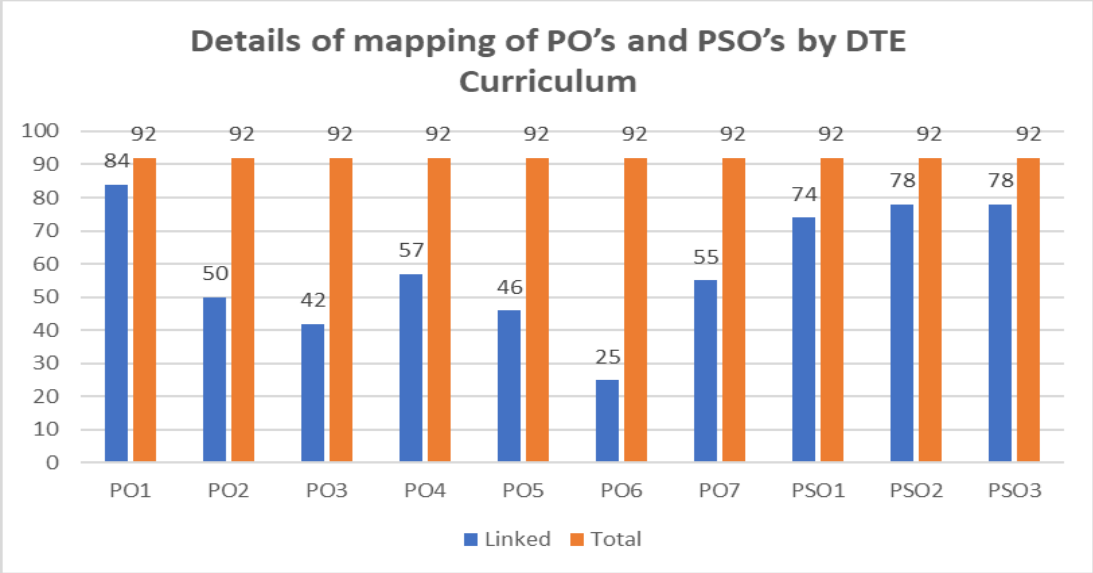
25			CO105.3	3			3		3	1	1	2	3
26			CO105.4	3			3		3	1	1	2	3
27			CO105.5	3	3			2		1	1	2	3
28			CO105.6	3				2		1	1	2	3
29	2	EM	CO106.1	3	1					3	3	3	3
30			CO106.2	3	1					3	3	3	3
31			CO106.3	3	1					3	3	3	3
32			CO106.4	3	1	3				3	3	3	3
33			CO106.5	3	1	3				3	3	3	3
34	2	Comn Skills	CO107.1	3			3			3			
35			CO107.2	3			3			3			
36			CO107.3	3			3			3			
37			CO107.4	3			3			3			
38	2	ITSkills	CO108.1	3			3			3	2	1	3
39			CO108.2	3			3			3	2	1	3
40			CO108.3	3			3				2	1	3
41			CO108.4	3			3			3	2	1	3
42			CO108.5	3			3				2	1	3
43	2	ECD	CO109.1	3	1		2	1			3	3	3
44			CO109.2	3			2	1			3	3	3
45			CO109.3	3		1	2	1			3	3	3
46			CO109.4	3		1	2	1			3	3	3
47			CO109.5	3		1	2	1			3	3	3
48	3	AE	CO201.1	3	1	3	3		3	3	3	3	2
49			CO201.2	3	1	3	3		3	3	3	3	2
50			CO201.3	3	1	3	3	1	3	3	3	3	2

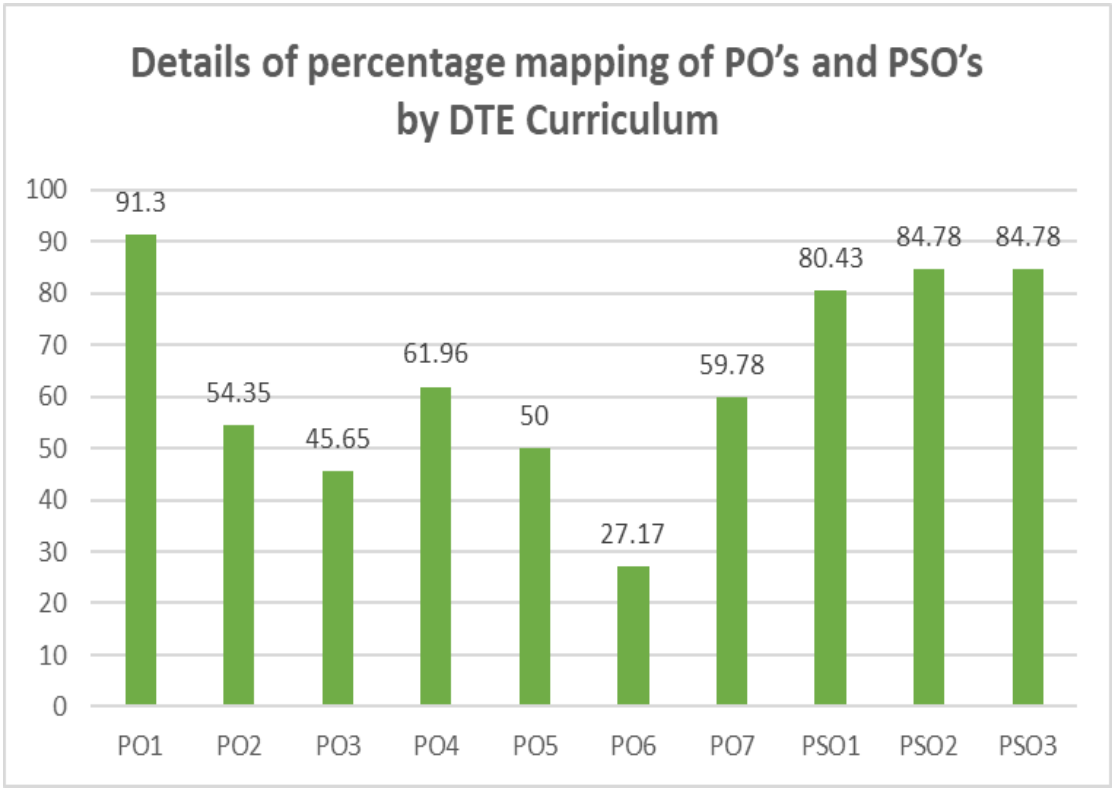
51			CO201.4	3	1	3	3	1	3	3	3	3	2
52	3	LDV	CO202.1	3	3	3	3	1	3	3	3	3	3
53			CO202.2	3	3	3	3		3	3	3	3	3
54			CO202.3	3	3	3	3		3	3	3	3	3
55			CO202.4	3	3	3	3		3	3	3	3	3
56	3	CS	CO203.1	3	3	2	2	3	3	1	3	3	2
57			CO203.2	3	3	2	2	3	3		3	3	2
58			CO203.3	3	3	2	2	3	3	1	3	3	2
59	3	EMTT	CO204.1	3	1		3	3	2	3	2	2	2
60			CO204.2	3	1	1	3	3	2	3	2	2	2
61			CO204.3	3	1	1	3	3	2	3	2	2	2
62			CO204.4	3	1		3	3	2	3	2	2	2
63	4	PCB	CO205.1	1	3						3	3	2
64			CO205.2	1	3	3	3	1		2	3	3	2
65			CO205.3		3	3	3	1		2	3	3	2
66			CO205.4		3		3	1		2	3	3	2
67	4	WC	CO206.1	3	1	1		3		2	1	3	3
68			CO206.2	3	1	1		3		2	1	3	3
69			CO206.3	3	1	1		3		2	1	3	3
70			CO206.4	3				3		2	1	3	3
71	4	ECP	CO207.1	3	3	3						2	3
72			CO207.2	3	3	3						2	3
73			CO207.3	3	3	3		1		2		2	3
74			CO207.4					1		2		2	3
75	4	IA	CO208.1	3		3					3	3	3
76			CO208.2	3		3		3			3	3	3

77			CO208.3	3		3		3		2	3	3	3
79			CO208.4			3		3		2	3	3	3
80	5	IC	CO209.1						3	3			
81			CO209.2						3	3			
82			CO209.3						3	3			
83			CO209.4						3	3			
84	6	A&R	CO301.1	3	2	3	2	2	1		3	3	3
85			CO301.2	3	2	3	2	2	1		3	3	3
86			CO301.3	3	2	3	2	2	1	3	3	3	3
87			CO301.4	3	2	3	2	2		3	3	3	3
88			CO301.5	3				2		3	3	3	3
78	7	Internship projectwork	CO302.1	3	3	3	3	3	3	3	3	3	3
89			CO302.2	3	3	3	3	3	3	3	3	3	3
90			CO302.3	3	3	3	3	3	3	3	3	3	3
91			CO302.4	3	3	3	3	3	3	3	3	3	3
92			CO302.5	3	3	3	3	3	3	3	3	3	3
Average				**2.95**	**2.18**	**2.45**	**2.75**	**2.27**	**2.66**	**2.58**	**2.45**	**2.59**	**2.69**

Table2.3:DetailsofpercentagemappingofPO'sandPSO'sbyDTECurriculum:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
Linked	84	50	42	57	46	25	55	74	78	78
Total	92	92	92	92	92	92	92	92	92	92
Percentage	91.30	54.35	45.65	61.96	50.00	27.17	59.78	80.43	84.78	84.78

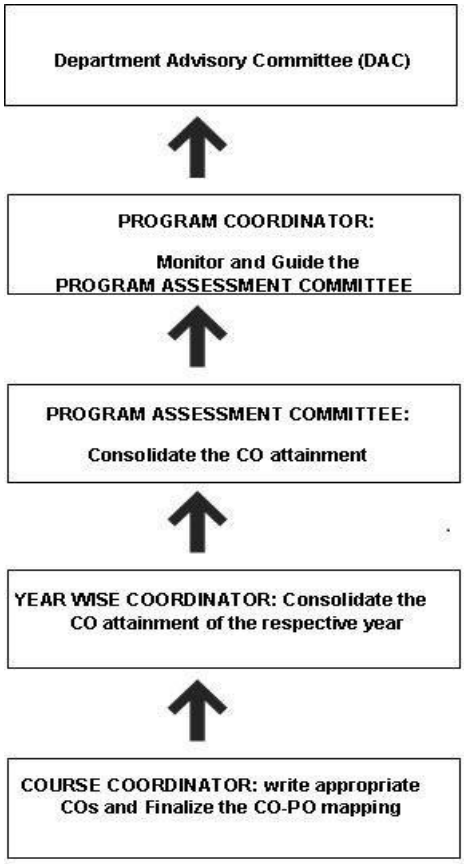




Processinvolvedin CO-POMapping

Afterthecourse(subject)allotmentfromthedepartment,thecoursein-chargeofthecoursehastowriteappropriateCOsfortheircorrespondingcourse.Itshouldbenarrowerandmeasurable statements.Byusingthe actionverbsoflearninglevels,CO'swillbedesigned.COstatementsshoulddescribewhatthestudentsareexpectedtoknowandabletodoatthe endofeachcourse,whicharerelatedto theskills, knowledgeandbehaviorthatstudentswillacquirethrough thecourse.

TheroleofCO-POmappingwillbeassignedtothefacultyasperhierarchyfollowedinfigurebelow:



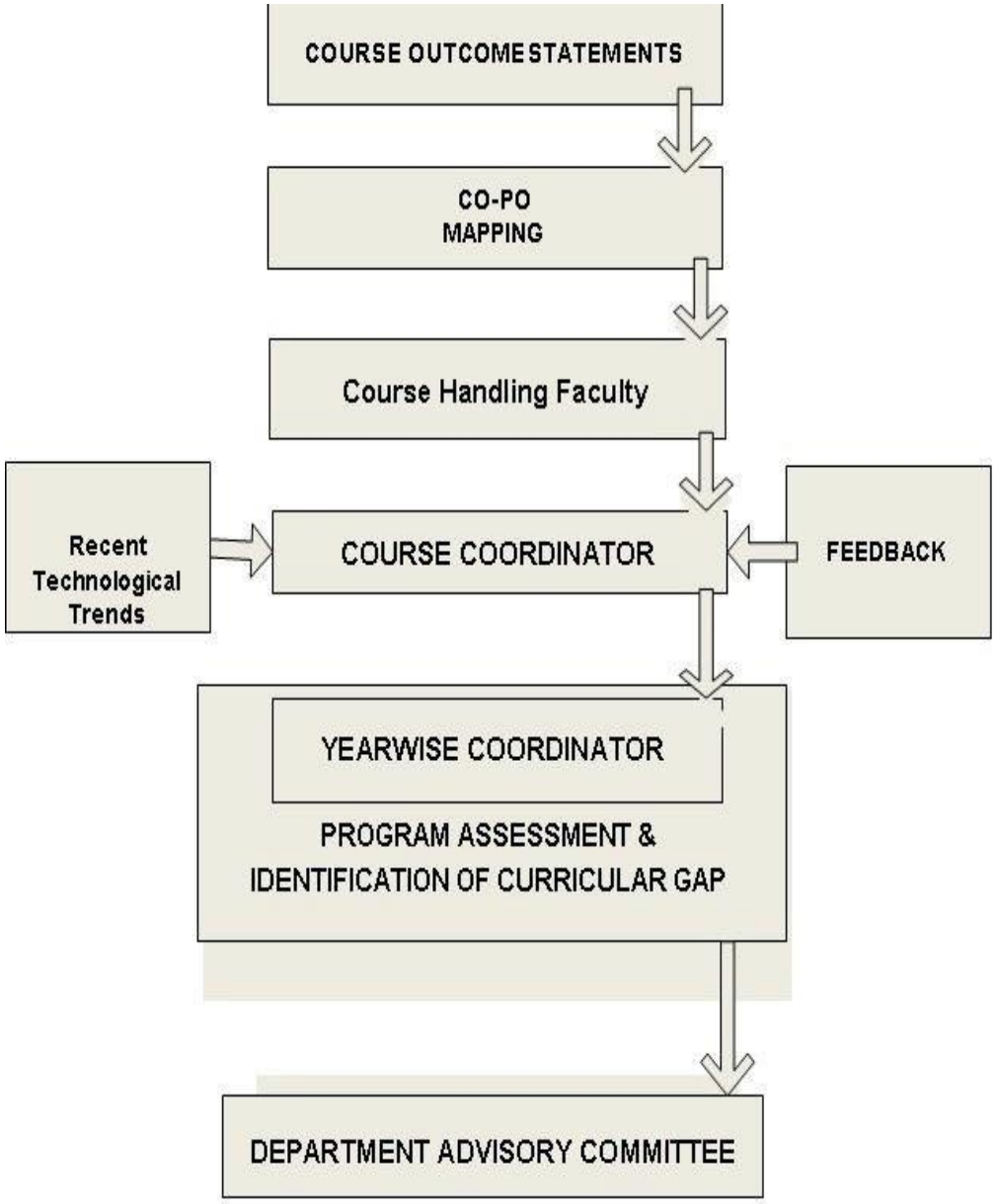
Theprocessusedtoidentifythecurriculargapstotheattainmentof COs/POsisgiveninfigurefollowedbytheexplanationgivenbelow:

Step-1:Thecoursehandlingfaculty,afterCO-POmapping,wouldsubmitCOattainmenttoCoursecoordinator.

Step-2:ThecoursecoordinatorwouldsubmittheCO-POattainmentalongwithcurriculumgapidentifiedinthecourseandrecommendationstoconductco-curricularactivities&identifycontentbeyond thesyllabustoyear-wisecoordinator.

Step-3:Theyearwisecoordinatorswhoarethemembersof thePACwouldconsolidatetheCOattainmentoftherespectiveyearalong withcurriculargapsandrecommendationstoconductco-curricularactivitiesreported by coursecoordinators.

Step-4:ThePACwouldconsolidatetheCOandPOattainmentoftheprogrammewithalltheidentifiedgapsandsubmitreporttoDAC


COURSE OUTCOME STATEMENTS
CO-PO MAPPING
Course Handling Faculty
Recent Technological Trends
COURSE COORDINATOR
FEEDBACK
YEARWISE COORDINATOR
PROGRAM ASSESSMENT & IDENTIFICATION OF CURRICULAR GAP
DEPARTMENT ADVISORY COMMITTEE

ListofcurricargapsfortheattainmentofdefinedPOsandPSOs

ThefollowingPOsandPSOsarepartiallyattainedbytheDTEcurriculumswhichareidentifiedasGapsaspercomputationsmadeinthetableandStakeholderscombinedwithmappingasshowninFigure.

ThefollowingPO'sandPSO'sarefullyAttainedbythecurriculum	ThefollowingPO's andPSO's arepartiallyattainedby thecurriculum
1.BasicKnowledge(PO1) 2.Problemanalysis(PO2) 3.Design/developmentofsolution(PO3) 4.Life-longlearning.(PO7) 5.ProgramSpecificOutcome1.(PSO1) 6.ProgramSpecificOutcome2(PSO2) 7.ProgramSpecificOutcome3(PSO3)	1.Engineeringtools,ExperimentationandTesting(PO4) 2.Engineeringpracticesforsociety(PO5) 3.ProjectManagement(PO6)

TofulfilltheGapsasidentifiedintheE&CEngineering,Curriculum,theDepartmenthasconductedadditionalcoursessuchasinvitedtalks,seminars,workshops&personalitydevelopmentprogramsasexhibitedin
AsperthecurriculummappingofPO4,PO5
&PO6arecomparativelyless.Hencethefollowingactivitiesareidentifiedtosupplementmappingof POs&PSOsasshownintable

S.NO	Activities	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
1	IndustrialVisit	√				√	√	√	√	√	√
2	InteractionwithIndustryExperts	√	√			√	√	√	√	√	√
3	WorkShops	√	√		√	√		√	√	√	√
4	Projects	√	√	√	√	√	√	√	√	√	√
5	ParticipationinCommunityServices					√	√	√			
6	Yoga					√		√			
7	Programsonsoftskill	√				√	√	√			
8	ParticipationinNSS					√		√			
9	CulturalActivities					√	√	√			

10	ParticipationinSports					√	√	√			
11	ExperimentsConductedBeyondSyllabus	√	√		√			√		√	

1. StatementofDeliverydetailsoftheContentbeyondthesyllabusandcurriculumgapforAttainmentofPOsandPSOs(10)

A.Initiationtakenuptoincludeidentifiedgapsintothecurriculum.

AmeetingofalltheMembersofDepartmentAdvisorycommittee(DAC),Constructionindustryprofessionals,Alumni'sandallotherfacultyme mberswascalledintheDepartmenttoidentifythe curriculumgapsbasedontheneedsofConstructionIndustry.Afterdeliberationsmadebetweent hememberstheindustryprofessionalsandAlumniopinions,that,theGraduatesproducedfromtheInstitutesarenotcompetitiveenoughtofacethe challengesoftheindustry,astheyarenotinculcatedwithenoughtechnicalknowledgeandfield/siteproblemsexpectedtofaceintheirProfession.

DuringtheProceedingsofthemeeting,theexpertsafterdiscussionsidentifiedandsuggestedsomemodificationsintheProgramstruadvisedtomodifythe syllabusin thesucceedingboardmeetings.

IfsomesuchCoursecontentstoattainPO'sandPSO'srenotinculcatedinthecurriculumprovidedbytheaffiliatedUniversitythenthknowledgebycoveringaspects through**"CONTENTSBEYONDSYLLABUS".**ThedetailsareshowninFigure.

SubsequentlyaftertheIdentificationofcurriculumGapsasstatedinsection2.1.1.andtoaccomplishthesamealetterwassubmittedtoincludethecontentsofPO's andPSO'swhicharenotattainedfromtheBoardcurriculumfortheAcademicYear2016-17.Iftheboardcurriculumhigherlevel of attainmentofthePO's&PSO'sispossibledirectlythroughthecurriculumitself.

B. InitiationtakenupbytheDepartmenttofilltheGaps:

Thefollowingactivities/eventsareadoptedtofillthegapsContentbeyondthesyllabus:

1. **Workshops**
2. **Invitedtalks**
3. **Tech-festivals**
4. **Seminars**
5. **Fieldtrips/visits**
6. **Trainingprograms**

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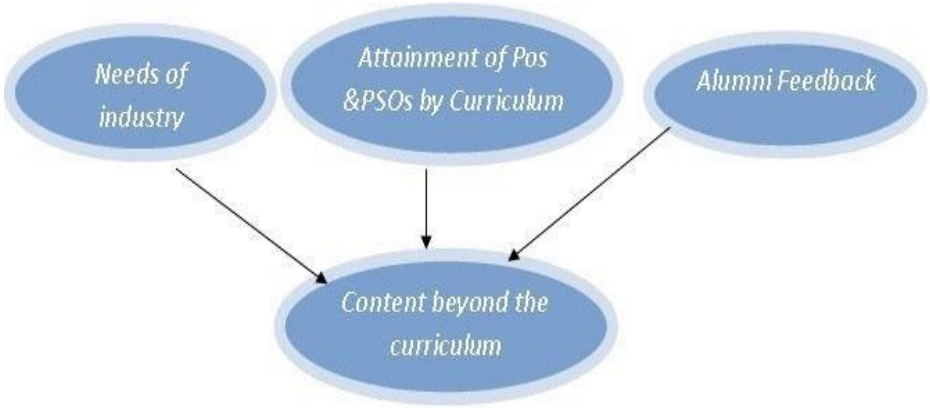


C. Mapping of contentbeyondsyllabuswith POs&PSOs

Table2.4:Programsconductedfor theacademicyear2019-20, 2020-21, 2021-22, 2022-23 &23-24

Sl. No.	GAP	ACTIONTAKEN	DATE /MONTH	RESOURCEPERSON(S)/INDUSTRY VISITED	MODE	NOOFSTUDENTS
1	PO2, PO3	Workshop onIIoT	02/08/2023	Mr. VinayKumar&Rakesh	Work-shop	35
2	PO6	Seminar on DCET Exams	23/06/2023	Mr. Mallikarjun,gpt,kampli	Seminar	33
3	PO6	Entrepreneurshipdevelopmentprogram	26-07-2022	Sri.Somashekar	PPT	60
4	PO4, PO6	Industrialvisit	08-06-2022	Mukundasumi		37
5	PO4, PO6	Industrialvisit	2/7/22&4/7/22	SLRMetaliks		37
6	PO2, PO3	Workshoponpcbdesign &fabrication	27/1/22 & 28/01/22	Mr. VinayKumar&Rakesh	WORK-SHOP	67
7	PO5	Participationincommunitys ervices(cyclerally)	31-05-2022			
8	PO5	Yoga	21-06-2022	At CollegeCampus		
9	PO5	Environmentalday(plantingtrees)	05-06-2022			

10	PO7	Internetofthings	18-12-2021	Mr. RaymondIrudayaraji		55
11	PO6	Skillsettoleadyourcareer	04-10-2021	Umesh D	ORAL	66
12	PO6, PO7	Inplanttrainingonembeddedsystem	26/08/21TO 29/08/21	MrPraveenKumar		21
13	PO2& PO3	Ns2simulator	28-12-2020	PROFSharada HN	Online	FinalYear Students
14	PO2& PO3	Ns2simulator	28-12-2020	PROFSandhyaSV	Online	FinalYear Students
15	PO2,PO3	Satellitecommunication	14-09-2019	Mr. S Venkataraghavan	PPT	29
16	PO2,PO3	Wirelesscommunication	27-07-2019	Mr. UlaganathanJ	PPT	43

2 Teaching-LearningProcess(160)

2.2.1 DescribeProcessesfollowedtoensure/improvequalityofTeaching&Learningbasedonfollowingpoints(25)

InstituteMarks25.0

A. AdherencetoAcademicCalendar(3) **InstituteMarks3.0**

SincetheInstituteisaffiliatedtoDTE,Bangalore,henceallthepramdateswilladheretothecalendaroftheBTEBengaluru.Basedonthedatesprescribedby BTE,InstitutionalCalendarofEventswillbepreparedeverysemester.Thedepartmentcalendarof eventswillbepreparedbyHODinconsultationwithfacultymembers.ThedepartmentCOEwillbeinaccordancetotheinstitutioncalendar.

DepartmentCOEincludesvariousdepartmentalactivitiesincludingmeetingdetailstobeconducted,IAtestdates,parentsmeeting,studentscounseling,extracurricularactivities,seminars/guestlecture/industryvisitsetc.,

B. Useofvariousinstructionalplanninganddeliverymethods(3) **InstituteMarks3.0**

VariousInstructional methods andpedagogicalinitiatesinvolvedinteachinglearningprocess arelistedbelow:

1. TeachingusingBlack/Green/WhiteBoardsfor theoryclasses.
2. LecturingthroughTutorialsandRemedialclasses
3. Powerpoint presentation

4. Models
5. Industrialtours/Fielddemonstrations/RealWorldcitations
6. Demonstrationsin theclass room
7. Simulationbasedlearningenvironmentinlabs

Lecturemethodand Interactivelearning:

Thefacultyusechalkandboardandaudiovisualaidsinteaching.Studentsarealsoencouragedtoactuallyinteractduringthelecture hourby getting thedoubtsclarifiedon thespot.Facultyusingmodels,charts for interactiveteaching

Computer-assistedlearning:

TheCollegehasrequirednumberofcomputers,printers,projectors.Theseareeffectivelyusedforteaching.Manyfinalyearprojectsareco mpleted through the useof software.

C. Methodologiestosupportweakstudentsandencouragebrightstudents(4) **InstituteMarks4.0**

AllthestudentsinasemesterareclassifiedasBrightordebilitatedineachcoursetakingintoconsiderationabouthis/heroverallCGPA,previ ousSEEandcurrentsemesterIAperformance.TheMentors/Counselorsregularlyconductmeetingsregardingprogressoftheirmentees/s tudentsandareresponsibletoidentifystudentswhoscoredlessthan50%marksintheirinternals.

Benchmark to identifyslowlearners:

UnderthedirectionofHOD,thestudentsCounselorsevaluatestheprogresscardofthosestudentswhoscorebelow50%marksinthreeorm oresubjectandbelow75%attendanceareconsideredas**academicallyslowlearners**andsameisalsointimatedtotheirparents.

Mentorsystemisadoptedinthedepartmentandtherecordismaintainedasbelow:

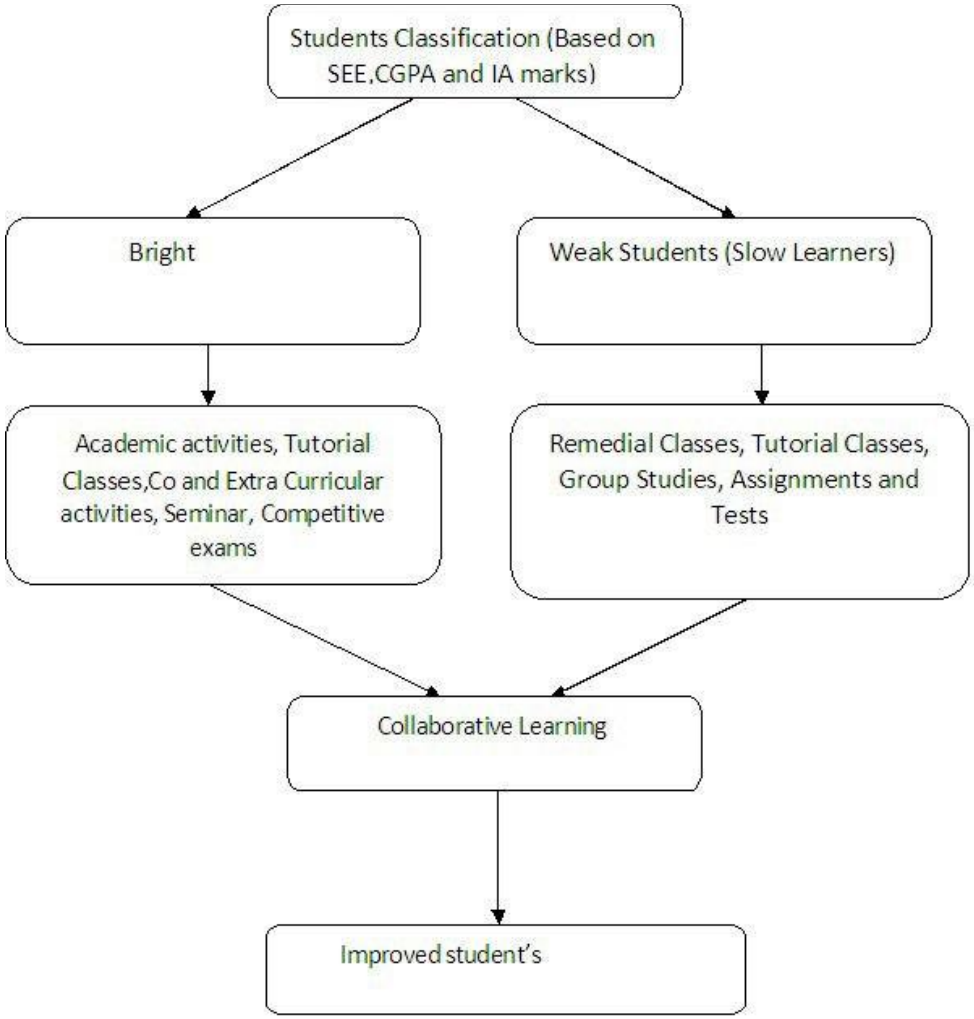
IdentificationCriteria	ActionsTaken
Studentsscoringlessthan60%ofmarksinInter nalAssessment.	1. Studentcounselorfollowstheirprogressregularlyadvisingstudentsaboutatten dingclasses,making up classesmissed,andgettingadditionalhelp. 2. Intimatingparentsto counsel theirwards. 3. Conduction of remedialclasses

Diplomastudentswho enteredwithlessbasicsof mathematics	Conduction of remedialclasses.
Students who failinsemesterexams	Conductionof extraclassestothosewho failedinprevioussemestersubjects.

Mentorsdiariesaremaintainedinthedepartmentfromtheacademicyear2020-21InitiativesandimplementationdetailsofEncouragingMeritoriousStudents.

- StudentsareEncouragedtoparticipateinvariouscompetitiveexams/quest/quiz.
- InspiredtotakeupcompetitiveexaminationslikeDCETetc.,
- MeritoriousstudentsareawardedthroughFelicitationfunctionwhichwillbeorganisedonceinayear.

Themethodologyoftheprocessisdepictedinfigurebelow:



D. Qualityofclassroomteaching(3) **InstituteMarks3.0**

AllclassroomsareprovidedwithGreenBoards,AllthetheorycoursesaredeliveredthroughlectureS.Studentsareencouragedtointeractanddiscusswiththefacultyduringlectureandgettheirdoubtscleared.Forthecoursesinvolvingnumericalanddesigns,problemsfromtheBTEquestionpapersaresolvedintheclass.BTEquestionpaperpatternwillbeexplainedthoroughlyandquestions willbesolvedintheclassroomitself.

QuestionsforinternaltestswillbepreparedasfollowingguidelinesprescribedbyBTE.Questionnairewillbegiventostudentsaftertheendofeachunit.Ineveryongoingclasssomestipulatedtimewillbespentinclasstodiscussaboutthetopicsdealtinpreviousclassin order tomaintain the continuity.

BasedontherequestfromtheFacultyandconsideringtheimportanceofthesubject,additionalteachinghoursareallottedintheTimetableastutorialclasses.

Thefollowinginnovativeteachingmethodsareadoptedbythefaculty:

- Computersareusedforteachingpurposesandinternetfacilityisavailabletostudentsandfaculty.
- Facultymembersaretakingadvantageof sourceslikeNationalProgrammeon TechnologyEnhancedLearning(NPTEL),internetsourcesforeffectiveteaching.
- Teachingwillbedoneusing Projectors forpresentation, onlinelearningencouraged forstudents.
- WellstructuredlessonplansareprepareD/revisedforalltheoryandpracticalcoursesonaperiodtoperiodbasis,scrutinizedbyHODs.

E. Conductofexperiments(3) **InstituteMarks3.0**

Allthelaboratorieshaveexcellentfacilities.Fortheexperimentsdetailedinstructionmanualsareprovided.Theobservationsarecheckedandverifiedbyfacultyandrecordbooksaremaintainedsystematically. Onefacultymembersandone instructor/attendantareassignedforeachpracticalclass.

InitiativesandimplementationdetailsofimprovingLaboratoryExperienceinConductingExperiments:

- StudentBatchesforeachexperimentaremadedependingonthetypeofexperiment,laboratoryandavailabilityofequipment.
- Thefacultywillmonitortheprogress ofexperimentscarried out by eachbatchof students.
- Thefacultychecks/verifiestheobservationsrecordedintheobservationbookwithcalculationsuntiltheresultsandconclusionsaredrawnbythestudents.
- Thestudentswillentertheentireobservationsinobservationbookandsubmittherecordinthesubsequentweekwithalltheinformationrelatedtothetest/experiment.
- Vivaquestions/question bankisprovidedtostudentspriortotheBTEexaminations.
- AttheendofthesemesteraninternalpracticaltestisconductedinlinewithDTEpracticalexaminationandmarksareawarded.
- TheperformanceofStudentsintheLaboratoriesareevaluatedbythefacultiesfor25marksasperC-15Curriculumand60marksasperC-20Curriculum

F. ContinuousAssessmentinthelaboratory(3)

InstituteMarks3.0

Continuousassessmentsystemisalsoimplementedforassessmentoflaboratorywork.Theassessmentisdoneonthebasisofsubmissionoflaboratoryrecords,understandingoftheexperimentthroughoralvivavocequestionsandparticipationinperformingtheexperiment.Neatnessofthelaboratoryrecordbookisalsogivenweightageintheassessment.

TwointernaltestswillbeconductedinasemesterasperBTEnorms.TheschemeandscheduleofCIEforC-20forfirst yearandsecondyearisasbelow:

Sl.No	Assessment	Duration	Max marks	Conversion	
1.	CIE Assessment 1 (Written Test -1-theory) - At the end of 3rd week	60 minutes	20	Average of two written tests 20	
2.	CIE Assessment 2 (Written Test -2-theory) - At the end of 13th week	60 minutes	20		
3.	CIE Assessment 3 (Skill test) - At the end of 5th week	3 Hours	100	20	Average of three skill tests 20
4	CIE Assessment 4 (Skill test) - At the end of 7th week	3 Hours	100		
5	CIE Assessment 5 (Skill test) - At the end of 9th week	3 Hours	100		
6	CIE Assessment 6 (Student activity) - At the end of 11th week	-	20	20	
7.	Total Continuous Internal Evaluation (CIE) Assessment			60	

Sl. No	Assessment	Test Week	Duration In minutes	Max marks	Conversion
1.	CIE-1 Written Test	5	80	30	Average of three tests 30
2.	CIE-2 Written Test	9	80	30	
3	CIE-3 Written Test	13	80	30	
4.	CIE-4 Skill Test-Practice	6	180	100	Average of two skill tests 20
5	CIE-5 Skill Test-Practice	12	180	100	
6	CIE-6 Portfolio continuous evaluation of Activity through Rubrics	1-13		10	10
			Total CIE Marks		60

ImplementingQualityproceduresinconductingLaboratoryExperiments:

QualityofconductingexperimentsisimprovedintheLaboratorybyadoptingthefollowingprocedures;

- ProvidingDo'sandDont's(DisplayBoard)
- MethodologytoconductexperimentsisasperttheprevailingI.S.Codeprocedures.
- ProvidingLaboratorymanual
- Maintaininglogbookforeverylaboratory(ComputerLab).
- Demonstrationofexperimentsinthelaboratory

- Continuousmonitoringthestudentsthroughevaluationoftheobservationbookandrecordregularly.

- AnExtralaboratoryclassisarrangedforstudentswhoremainedabsentforregularclasses.
- GoodresultsinlaboratorySEEexamination

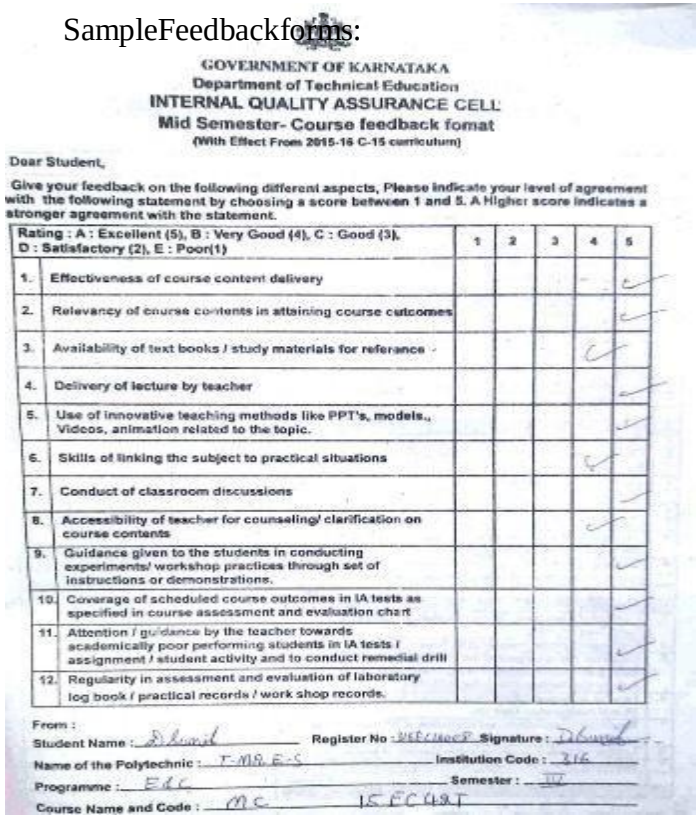
G. Studentfeedbackofteachinglearningprocessandactiontaken(6)

InstituteMarks6.0 Atthemiddleandend ofthesemester,allthestudentsarerequiredtofillafeedbackformsaboutteachinglearningprocess.Feedbackformsarealsoprovidedintheinstitutionwebsite.thestudentscandownloadthesameandsubmittheform.

Basedonthefeedbackreceivedfromstudents,concernedfacultywillbeinformedaboutitandsuggestionswillbeprovidedforimprovement.Suggestionswillbeintheformofconstructivecommentstoimprovethequalityofteachingandtheteaching-learningprocess.

Ifrequired,propercounselingwillbecarriedoutbytherespectiveHODforthosefacultymemberswhohavesecuredlowscoresandnegativecomments,ifany,inthefeedback.Thismotivatesthemtoimprovetheirskillsandteachingabilities

SampleFeedbackforms:



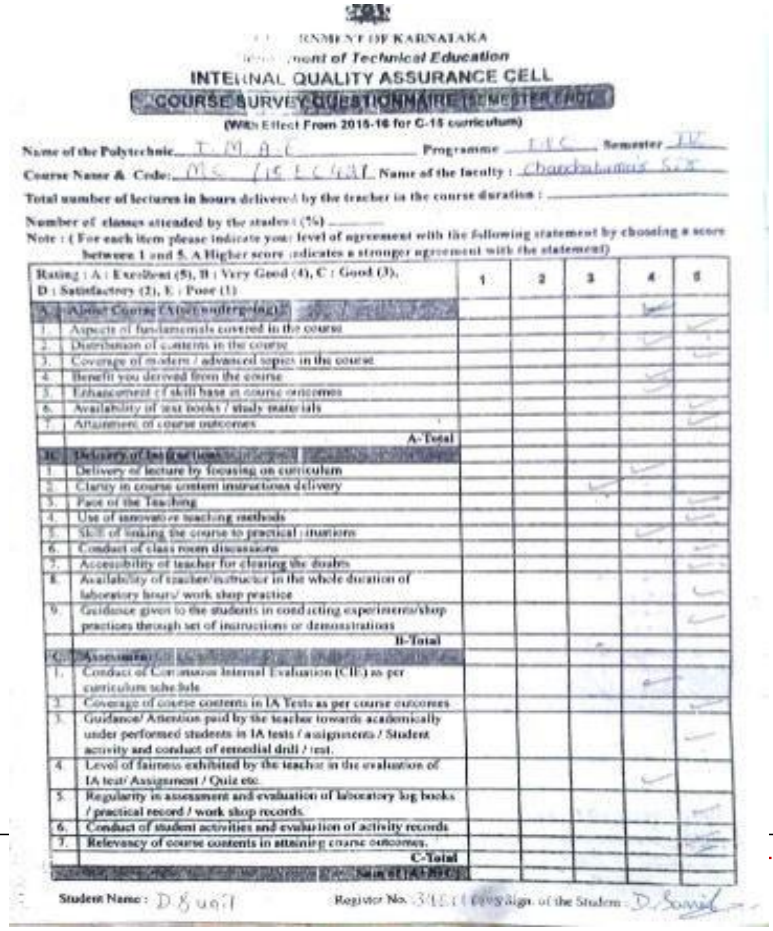
GOVERNMENT OF KARNATAKA
Department of Technical Education
INTERNAL QUALITY ASSURANCE CELL
Mid Semester- Course feedback fomat
(With Effect From 2015-16 C-15 curriculum)

Dear Student,

Give your feedback on the following different aspects, Please indicate your level of agreement with the following statement by choosing a score between 1 and 5. A Higher score indicates a stronger agreement with the statement.

Rating : A : Excellent (5), B : Very Good (4), C : Good (3), D : Satisfactory (2), E : Poor(1)		1	2	3	4	5
1.	Effectiveness of course content delivery					✓
2.	Relevancy of course contents in attaining course outcomes					✓
3.	Availability of text books / study materials for referance				✓	
4.	Delivery of lecture by teacher					✓
5.	Use of innovative teaching methods like PPT's, models., Videos, animation related to the topic.					✓
6.	Skills of linking the subject to practical situations				✓	
7.	Conduct of classroom discussions					✓
8.	Accessibility of teacher for counseling/ clarification on course contents				✓	
9.	Guidance given to the students in conducting experiments/ workshop practices through set of instructions or demonstrations.					✓
10.	Coverage of scheduled course outcomes in IA tests as specified in course assessment and evaluation chart					✓
11.	Attention / guidance by the teacher towards academically poor performing students in IA tests / assignment / student activity and to conduct remedial drill					✓
12.	Regularity in assessment and evaluation of laboratory log book / practical records / work shop records.					✓

From :
Student Name : D Sunil Register No : 16EC400P Signature : D Sunil
Name of the Polytechnic : T.M.A.E.S Institution Code : 316
Programme : E&C Semester : IV
Course Name and Code : MC 15EC48T



GOVERNMENT OF KARNATAKA
Department of Technical Education
INTERNAL QUALITY ASSURANCE CELL
COURSE SURVEY QUESTIONNAIRE (MID SEMESTER FEEDBACK)
(With Effect From 2015-16 for C-15 curriculum)

Name of the Polytechnic : T.M.A.E Programme : E&C Semester : IV
Course Name & Code : MC 15EC48T Name of the faculty : Chandrakumar S.P
Total number of lectures in hours delivered by the teacher in the course duration :
Number of classes attended by the student : (%)
Note : (For each item please indicate your level of agreement with the following statement by choosing a score between 1 and 5. A Higher score indicates a stronger agreement with the statement)

Rating : A : Excellent (5), B : Very Good (4), C : Good (3), D : Satisfactory (2), E : Poor (1)	1	2	3	4	5
A. About Course (After undergoing)					
1. Aspects of fundamentals covered in the course					✓
2. Distribution of contents in the course					✓
3. Coverage of modern / advanced topics in the course					✓
4. Benefit you derived from the course					✓
5. Enhancement of skill base as course outcomes					✓
6. Availability of text books / study materials					✓
7. Attainment of course outcomes					✓
A-Total					
B. Delivery of lectures					
1. Delivery of lecture by focusing on curriculum				✓	
2. Clarity in course content instructions delivery			✓		
3. Pace of the Teaching					✓
4. Use of innovative teaching methods					✓
5. Skill of linking the course to practical situations					✓
6. Conduct of class room discussions					✓
7. Accessibility of teacher for clearing the doubts					✓
8. Availability of teacher/instructor in the whole duration of laboratory hours/ work shop practice					✓
9. Guidance given to the students in conducting experiments/shop practices through set of instructions or demonstrations					✓
B-Total					
C. Assessment					
1. Conduct of Continuous Internal Evaluation (CIE) as per curriculum schedule				✓	
2. Coverage of course contents in IA Tests as per course outcomes					✓
3. Guidance/ Attention paid by the teacher towards academically under performed students in IA tests / assignments / Student activity and conduct of remedial drill / test.					✓
4. Level of fairness exhibited by the teacher in the evaluation of IA test/ Assignment / Quiz etc.				✓	
5. Regularity in assessment and evaluation of laboratory log books / practical record / work shop records.					✓
6. Conduct of student activities and evaluation of activity records					✓
7. Relevancy of course contents in attaining course outcomes.					✓
C-Total					

Student Name : D Sunil Register No. : 16EC400P Sign. of the Student : D. Sunil

2.2.2 Initiativestoimprovethequalityofsemestertestsandassignments(15) **InstituteMarks15.0**

A. ProcessforInternalsemesterquestionpapersettingandevaluationandeffectiveprocessimplementation(5)

InstituteMarks5.0

Processfollowedtomonitorqualityofinternalassessmenttestquestionpapers:

TheDepartmentfollowsguidelinesof Boardof TechnicalExamination(BTE)toconductIAtestandawardthemarksasprescribedbytheboard.TheBTEprovidescompendiumofrulesandregulationto be followed forconductingIAtests.

AwardingofInternalAssessmentMarks:

ThefollowingprocedureismaintainedtoawardIAmarks:

TheInternalAssessmenttestisconductedasperttheprevailingschemesoftheBTEintherespectiveacademicyears.

ForC-20curriculum,totalsixinternaltestswillbeconductedandmaximummarksprescribedfortheoryexamswillbe50andforpracticalsubjectswillbe60. TheActivitymarksareawardedbasedtheperformanceofthestudentinthesuggestedactivity.Markswillbeawardedasper theRubrics

ConductingProcedureforInternalAssessmentTest:

HODwillnominateafacultyasaninternalassessmenttestcoordinatortomonitorthewholeprocessandhewillconstituteacommittee,whichwillo versee theprocessof monitoringthequalityofquestionpaper,schemeofevaluationandreviewstheevaluation ofIAbooks.

- Listof questionswillbesubmitted byeachfacultytotheCommitteewell beforethedateofinternaltest
- HODwillrandomlyselectsthe questionsamonglistof questionsubmittedbythe respectivefaculty
- Thecommitteegivesguidelines forIAQuestionpaperpreparation.
- Afterpreparingthefinalquestionpapers,requirednumberofphotocopieswillbe keptinthe custodyofHOD.
- Aftertheconductionoftests,concernedfacultywillevaluatethebookstoawardthemarks

ItisrecommendedtosetthequestionpaperhavingBloomstaxonomylevelsofCOisinlinewithBloomstaxonomylevelsofIAquestionpaper.

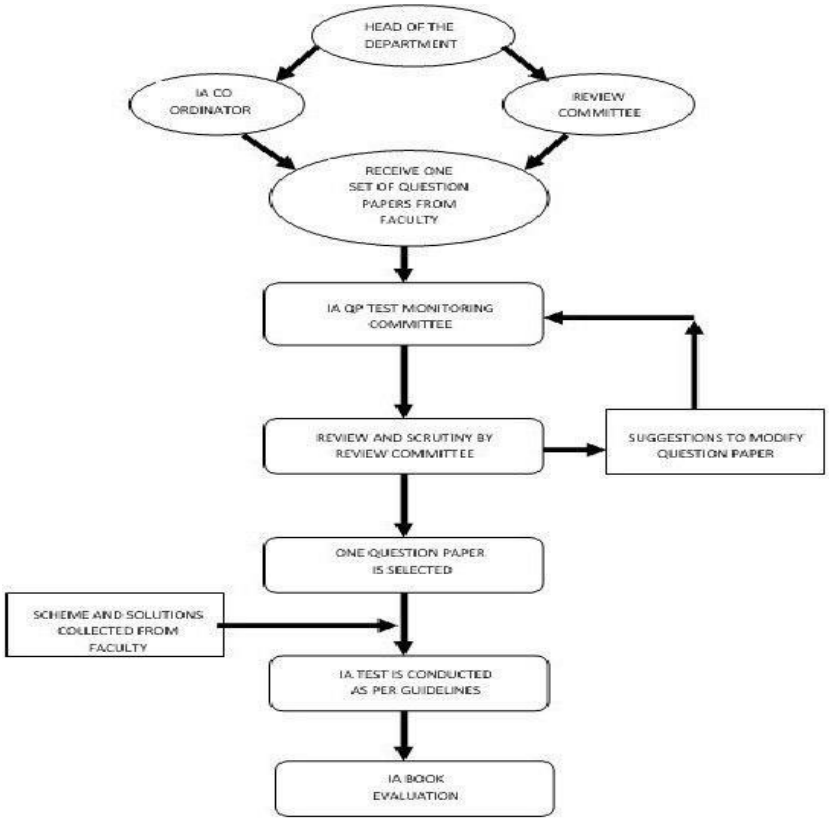


Fig2.8:FlowcharttoconductInternalAssessmentTestAwarding ofInternalMarks

Awardingof InternalMarks:

BasedontheperformanceofstudentsinThreeIATests,finalIAmarksiscomputedasAverageofthethreeIAtests.TheaboveprocedureofawardingtheIAmarksisbasedontheBTERegulations. PracticalcourseshavetwoInternalAssessmenttest.

MakeupInternalAssessmentTest:

MakeupInternalAssessmenttestisallowedforthoseStudentswhohavescoredlowAveragemarks,notattendedinternalsduemedicalandotherrelatedissues.

B. Questionpapersettingtakingintoaccountoutcomes/learninglevels(5) **InstituteMarks5.0**

InsettingtheinternalassessmentquestionpaperBloomsTaxonomyisadoptedasprescribedbythelearningobjectivesofDCTEandattainmentofPO'sandPSO's.MappingofPO'sandPSO'sisverifiedbeforefinalizingtheQuestionpaper.ThescrutinyofthequestionpapersismadebyDAC (Department AdvisoryCommittee).

C.COscoverageinclasstest/mid-termtestsandassignments(5) **InstituteMarks5.0**

Individualstudent'sAnswerbookisevaluatedandquestionansweredbystudentismappedwithCOsandPOs

2.2.3 QualityofExperiments(15) **InstituteMarks9.0**

A. Experimentalmethodologies(5) **InstituteMarks4.0**

Everylaboratoryinthedepartmentstrivestoexcelinconductionofexperiments.Themainm ethodologyofexperimentsconsists of:

- Totalstrengthisdividedintotwobatches.
- EachbatchesareallottedfordifferentlaboratorieswhichrunparallelforconductionofExperiments.
- Forcomputerlabs1:1ratioismaintained.Forotherlabs3to4studentsareallottedforConduction.
- Theapparatusorinstrumentsareprovidedforstudentstoconductexperimentwith DOs,Don'tsandsafetymeasures.
- Thelaboratoryequipmentismaintainedproperlyinordertogetcorrectreadings,regularserviceandmaintenanceiscarriedout.
- LaboratorymanualsarepreparedbyCourseCoordinatorpriortothestartofsemesterandtheseareissuedtostudentsthroughbookbanksch emeasreadyreference.

B. Innovativeexperimentsincludingindustryattachedpractices,virtuallabs(5) **InstituteMarks5.0**

- Knowledgeenhancingclassesareconductedforstudentsduringlabsessionsbyaccessingvideos.
- ToprovideremoteaccesstosimulationbasedLabsinvariousdisciplinesofscienceandEngineering.
- Toenthusestudentstoconductexperimentsby arousingtheircuriosity.Thiswouldhelp them inlearningbasicandadvancedconceptsthroughremoteexperiments.
- Wesharevariousotherlinkswithstudentsandinformthemtostudythemduringtheirfreetimetogainmoreknowledgeandclarifyfromresp ectivestaffifanyqueriesarise.

C. Relevancetooutcomes(5) **Institute Marks:3.00**

TheFollowingStudentsParticipated&won**StateLevel2nd PrizeinQuizCompetition**and**3rd PrizeinPaperpresentation**in3rdISTEStatelevel StudentconventionforPolytechnicon13/12/2022heldatGovernmentPolytechnic,Harapanahalli,Vijayanagardistrict

Sl/No	Reg No	Name	Competition	Award	Year
1	316EC20022	MohammedKaif	QuizCompetition	2nd Prize	2022
2	316EC20032	RishabPalrecha	QuizCompetition	2nd Prize	2022
3	316EC20006	B A Nafisa	Paperpresentation	3rd Prize	2022
4	316EC20028	Nazima	Paperpresentation	3rd Prize	2022

2.2.4 QualityofStudentsProjectsandReportWriting (35)

A. Identificationofprojectsandallocationmethodology (3) **InstituteMarks3.0**

Thestudent'sprojectsareselectedinlinewithdepartmentmission,visionandProgramoutcomes.

- Studentsareprovidedwithbriefideaofvariousfieldsforselectingtheprojectideas.
- Thelistof previousyear projectsisdisplayedatnoticeboardwhichensuresnorepetitionofproject work andalsoencouragesstudentstoenhancethepreviousworks.
- Thefacultiesencouragethestudentstocarryoutinhouseprojectsandsupportwillbeprovidedwithallnecessarysoftwareandhardware.
- Thefacultiesencouragestudentstoparticipateinprojectexhibitions.Theprojectexhibitionwasaimedtoprovidecommonplatformtoexhibittheirinnovationsandtheirworktowardsexcellenceinlatesttechnology.

IdentificationandallocationmethodologyofProjects:

ThefollowingCommittee/CommitteeMembersareconstitutedtomaketheregulationsandtoevaluatetheProjects:

1. HOD
2. ProjectReviewCommittee
3. ProjectGuide
4. ProjectCoordinator

AProjectReviewCommittee(PRC)isconstitutedbyHeadoftheDepartment,alongwiththeProjectCoordinatorcomprisingofseniorFacultymembersrepresentingallspecializations.TheHODnominatesoneofthefacultiesasProjectCoordinatortomonitorallProjectrelatedactivities.Anexternalsubjectexpertevaluatesallprojectsanddeclaresbestandaverageprojectbasedontherubricsoftheproject.

SelectionofProjectField:

Thestudentsaregivenoptiontochoosetheirfieldofinterestfromdifferentstreams/fields.

ProjectBatchFormation:

1. Projectbatchesareformedbasedonareaofinterestandconsideringtheirindividualgradesofprevioussemesterandoverallacademicbackground.
2. Theprocessofinitiatingandofferingprojectsforthestudentsismadebykeepingthefollowingviewsandperspectives:

- TheProjectsintheDepartmentaresochosensoastobenefitthesocietyandhavedirectapplicationinthefieldofE&CEngineeringandalsothathelpsstudentstoprospectivethinkingabouttheirhigherstudiesandcareeraftergraduation.
- Thestudentsareguidedtoselectprojectssothat,currentE&CEngineeringissuesorburningproblemsfacedbyconstructionindustryareselectedasProjects.Consideringthepossibilitiesofchoosingfields,withaviewofinnovativeideasandfocusingonthrustareassuchas,energy,environment,anduseofalternativebuildingmaterials.

- TheProjectfieldsarealsochosen,soastostrengthentheAttainmentofProgramoutcomesandProgramSpecificoutcomeswhichareidentifiedasGapsasperthetableNo2.9andalsoinlinewiththeDepartmentMissionandVision.

B. Types&relevanceoftheprojectsandtheircontributiontowardsattainmentofPOsandPSOs(5) **InstituteMarks5.0**

Table2.14: Mapping ofProjectFieldswithPOs andPSOs

SL. NO	TYPES OFPROJECTS	Inlinewith POs	PSO's
1	EMBEDDEDREALTIMEPROJECT	PO1,PO2,PO3,PO5,PO6,PO7	PSO1,PSO2
2	LOGICDESIGNBASEDPROJECT	PO1,PO2,PO3,PO4,PO7	PSO1,PSO2
3	PLCBASEDAUTOMATIONPROJECT	PO1,PO2,PO3,PO4,PO7	PSO1,PSO2
4	MONITORIN&CONTROLBASEDINNOVATIVEPROJECT	PO1,PO2,PO3,PO4,PO7	PSO1,PSO2
5	AUTOMOTIVEPROJECT	PO1,PO2,PO3,&PO7	PSO1,PSO2
6	CONSUMERELECTRONICS	PO1,PO2,PO3,PO5,PO6,PO7	PSO1,PSO2
7	POWERELECTRONICSBASEDPROJECT	PO1,PO2,PO5,PO6,PO7	PSO1,PSO2
9	INTERNETOFTHINGSBASEDPROJECT	PO1,PO2,PO5,PO6,PO7	PSO1,PSO2

Note:ThemappingofthePOsandPSOsmaybe varieddependingon theexactnatureoftheprojectworkcarriedout.

C. Processformonitoringandevaluation(5) **InstituteMarks5.0**

Process of Monitoring and Evaluation

ProjectEvaluationprocessisdividedintofourphases;

PhaseI:UnderthisphaseLiteratureSurveyandproblemidentificationfortheprojectismade.

PhaseII:Preliminarystudiesandprogress:

Underthisphasesynopsisandmethodologyoftheprojectissubmittedbythestudents.

PhaseIII:EvaluationofProjects:

AlltheProjectsarecontinuouslymonitored/evaluatedbytherespectiveCommittee.GeneralGuidel inestotheGuide:

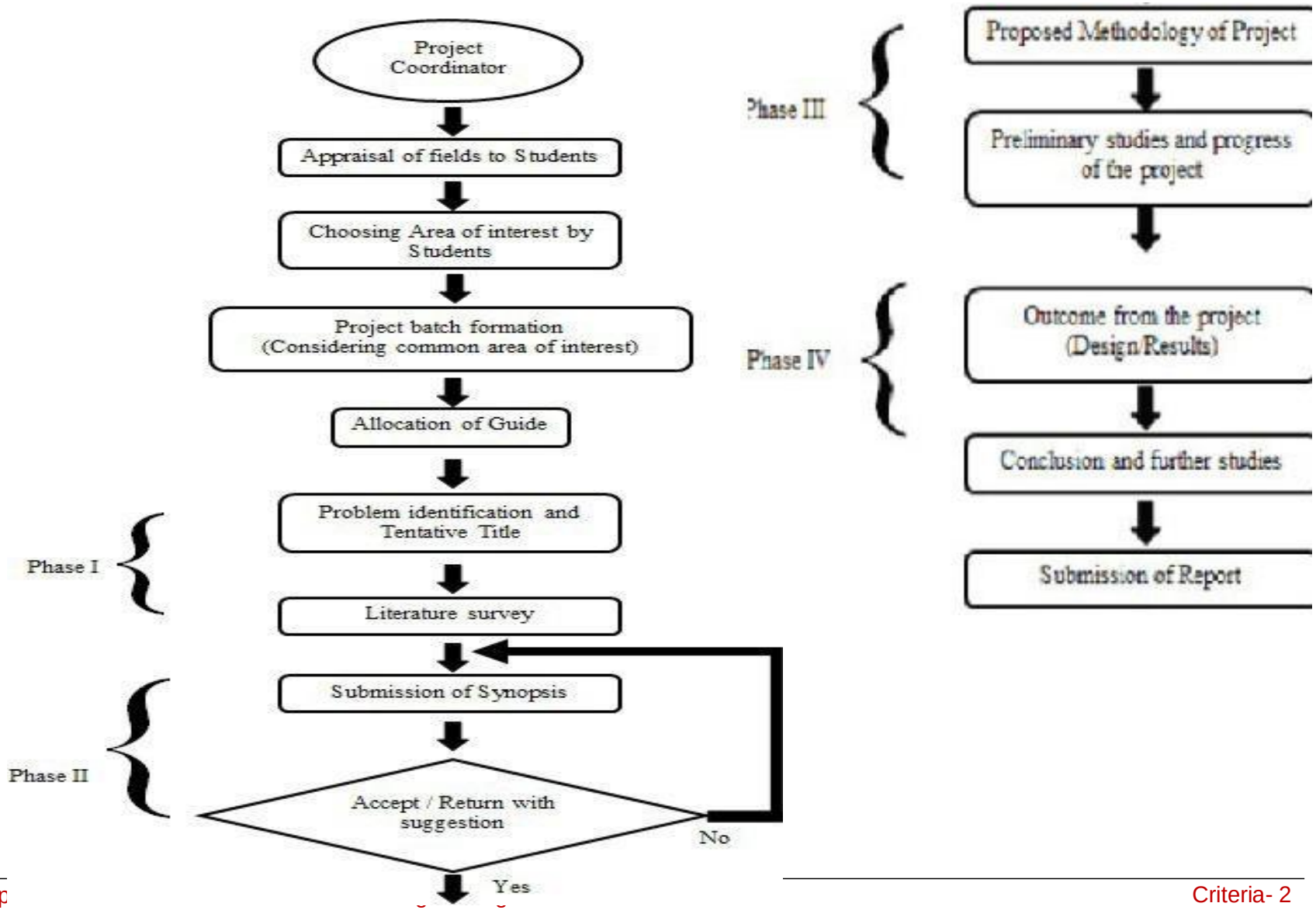
- Student'sattendanceismonitored by therespectiveGuidesregularly.
- Studentsareinstructedtomaintainobservationbooktorecordalltheirexperimentalfindingsandobservationsforwhichtheguidesignatureisobtainedregularly
- Theevaluationoftheprojectsismadeasper theRubricsas shown intheTable 2.2.1.

Phase IV: Submissionofthe finalProjectreport:

BeforeInternalexaminationthestudentsareaskedtopresentprojectfindingsbeforePEC.AfterpresentationtoPEC,thePECwillsuggestanyadditionalworktobecarriedouttosoastoimprovethete.Thestudentshavetopreparetheprojectreportinlinewiththe DCTEguidelinesforfontsize,style,colourofthereportetc.,Twocopiesonetothedepartmentlibraryandonetotheprojectguidearesubmitted.

Table2.15: PhasesintheExecutionofProjectwork

SL. No	PhasesinProject work	Schedule	Activitiestobecovered
1	Phase-I	Sixthweek(VSemester)	1. Literaturesurveyandidentifytheproblem. 2. TentativetitleoftheProjectisdecided.
2	Phase–II	Tenthweek(Vsemester)	1. SubmissionofSynopsis. 2. MethodologyoftheProject.
3	Phase–III	Fourthweek(VIsemester)	1. Progressoftheproject. 2. FinalresultsandConclusionsoftheproject.
4	Phase–IV	Tenthweek(VIsemester)	1. Submissionofthefinalprojectreport.


Project Coordinator
Appraisal of fields to Students
Choosing Area of interest by Students
Project batch formation (Considering common area of interest)
Allocation of Guide
Problem identification and Tentative Title
Literature survey
Submission of Synopsis
Accept / Return with suggestion
No
Yes
Phase I
Phase II
Phase III
Phase IV
Proposed Methodology of Project
Preliminary studies and progress of the project
Outcome from the project (Design/Results)
Conclusion and further studies
Submission of Report

AimsofCapstoneProject(For2020curriculum):

1. Promoteintegrationand synthesiswithintheprogramof study.
2. Promotemeaningfulconnectionsbetween the program of studyandcareerexperiences.
3. Improvelearner'scareerpreparationand preprofessionaldevelopments.
4. Demonstrateprofessionalidentityaslearner'stransitionfrom academictoprofessionalWorld.

Outcomes

Onsuccessfulcompletionofthecapstoneproject,studentswillbeableto:

- WriteCapstoneprojectscopedocument
- Prepare acapstoneprojectexecutionplan
- Managethecapstoneproject fromstarttofinishmeetingstated milestonesandtimelines
- Testandvalidate thefindings
- Demonstrateinterpersonalskills,teamwork, andeffectiveuse ofappropriate technologyrequiredforthecapstoneproject

ResponsibilitiesoftheStudents

Studentsare alsorequiredtoexerciseself-discipline,self-management, jobco-ordination,teamwork,andtrustworthinesstoensurethesuccess ofthecapstone project.

Theexpectedresponsibilitiesare:

- TowritetheCapstoneprojectscopedocument
- Topreparea capstoneprojectexecutionplan
- Toadheretotheweeklymeetingschedulewiththe cohortownerfor thepurposeofupdatingtheirprogressandseekingadvice oncapstoneprojectmatters(Attendanceiscompulsoryasperregulation)andsubmitweeklyreport
- ToManage thecapstoneprojectfromstarttofinishmeetingstatedmilestonesand timelines
- Toreportimmediatelytothecohortownerany difficultiesencounteredthatwould interruptthework.
- Tosubmitallreports ontime

GroupMemberRolesand Contributions

TheCapstoneprojectgroupsoftenfunctionmoreeffectivelywhengroupmembershave designatedroles.Eachcapstone projectgroupshallconsistofnotmorethan fourstudents.TheThree corerolesandresponsibilitiesare:

- **CapstoneprojectLead**:Onestudentinthegroupshallact asa capstoneprojectlead, whoisresponsiblefor keepingthegroupontask,distributingthe workload,meetingdeadlines,andensuringsmoothgroupcommunicationandcoordinationaswell asaccountabilitywiththecohortownerandcapstoneprojectrequirements
- **DocumenterLead:**Onestudentinthegroupshallactas a documenterlead,whoisresponsiblefor recordinggroup discussions and

decisions,documentingvariousaspects of thecapstoneproject'sprogress,andensuringwell-formedreportsandcapstoneprojectdocumentsare produced.

- DevelopmentLead:Twostudentsinthegroupshallactasa Developmentlead,who areresponsiblefor overseeingthecollaborativeaspects ofthecapstoneproject,troubleshootingmajor technicalproblems.

Theentirecapstoneprojectteamshouldbeengagedindiscussions,documentation,anddevelopmentofthecapstoneproject.Allmembersare expectedtocontributetowardsthe capstoneproject.

Groupswillahavetorotatetherolesamongmembersfordifferentstagesofthecapstoneproject.Thiswillallowmemberstogainexperience throughbeingresponsibleindifferentareas of capstone projectmanagement.

Assessmentofthecapstoneprojectwork

Thissectionisaddressedtocohortownerandexaminers.Itprovidesinformationonassessmentcriteriaforthecapstoneprojectwork.Italsoprovidesguidanceto studentsaboutwhatexaminerswillbelookingforinevaluatingthecapstoneprojects.TheCapstoneprojectworkwillbeassessedfor400marksthroughformativ eandsummativeassessmenttools,informativeassessmentthecapstoneprojectwillbeevaluatedfor240 marksandinsummativeassessmentcapstoneprojectwill be evaluatedfor160marks.

D. Processtoassessindividualandteamperformance(5) **InstituteMarks**

5.0Processtoassessindividualandteamperformance

Thefollowingkeyfactorsareconsideredforevaluatingstudent'sindividualandteamcoordinationorharmonyduringthe executionofaprojectislistedbelow:

Rubricsforindividualperformance;

- Displayofskills/capabilities
- Readytoshoulderresponsibilities
- Exhibitingconfidencelevelinthe projectfieldCommunicationabilitiesofstudentsduringpresentations
- Individualcontributiontotheproject work

Rubricsforteamperformance;

- Coordinationandharmony
- Involvementintheprojectwork
- PreparationofPowerpointpresentationPreparationoftheprojectworkreport

E. Qualityofdeliverable,workingprototypes(12) **InstituteMarks**

12.0CRITERIATODEFINEBESTPROJECTS

GuidelinesforselectionofBestProjects:

BestProjects;

- ProjectworkisstrictlybasedonRubricsadoptedintheDepartment.
- Projectworkisbasedonadheringtobasicsandfundamentalsintherelatedfield.

- MappingofCourseoutcomesofprojectwithProgramOutcomesandProgramSpecificOutcomesisstrong.
- Objective/AimoftheProjectaddressescurrentburningissuesinthefieldofElectronicsEngineering.
- Theevaluationofbestprojectawardismadebyoneexternal GuestProfessor

Table2.16:Rubricsforbestandaverageproject:

Sl. No.	PerformanceIndicator	Maximum Marks	BestProject	Average Project
1	Innovativeness and addressing currentburningissues	15	Morethan 85% maximum marks	Between 70-85%of maximum marks
2	LiteratureSurveyandPreviousstudies	10		
3	Definingtheproblemandadheringtobasicsandfundamentals	25		
4	Execution,resultsand,attainmentofprojectobjectivesandPO's&PSO's	35		
5	Individualperformance	15		
	TotalMarks	100		

Table2.17:RubricsfortheprojectsfollowedintheDepartment

Dimension	Scale					Marks(Example)
	1 Unsatisfactory	2 Developing	3 Satisfactory	4 Good	5 Exemplary	
1.Information searchandCollection.	Doesnotcollectinformationrelatetotopic	Collectsverylimitedinformation,somerelateto topic	Collectsbasicinformation,mostreferto thetopic	Collectsmoreinformation,mostreferto thetopic	Collectsagreatdealofinformation,allreferto thetopic	3
2. Full-fillsteamrolesandduties	Doesnotperformanydutiesassignedtotheteamrole	Performsverylittleduties	Performsnearlyallduties	Performsalmostallduties	Performsalldutiesofassignedteamroles	5
3.Shareswork equality	Alwaysrelieson otherstodothework	Rarelydoestheassignedwork,oftenneedsreminding	Usuallydoestheassignedwork,rarelyneedsreminding	Alwaysdoestheassignedwork,rarelyneedsreminding.	Alwaysdoestheassignedwork,withoutneedingreminding	5
4.Listening Skills	Isalwaystalking,neverallowsanyone toelseto	Usuallydoesmostofthetalking,rarely	Listens,butsometimestalktoomuch,	Listensandtalksalittlemorethanneeded.	Listensandtalksafareamount	3

	speak	allowsotherstos peak				
					Total	Ceil(13/4)= 4

F. Paperspublished/Awards/RecognitionreceivedbyprojectsatState/Nationallevel(5) **InstituteMarks 4.0**

CompulsoryparticipatinginDoityourselfprojectexhibitionorganizedbyDTEeveryyear.Certainprojectswillbedisplayedforinter-departmentvisit.Wonthebestprizesinprojectexhibitionorganisedbynearbyengineeringcolleges

2.2.5 IndustryInteractionandIndustryInternship/Training(30) **InstituteMarks 24.0**

A. IndustrysupportedLabs(2) **InstituteMarks 0.0**

Notestablishedanysuchlabs.PlanningtohaveMoUwithindustriessupportaspernewcurriculuminfuture(2023-24)

B. DeliveryofappropriateCourseworkbyIndustryexperts(5) **InstituteMarks 4.0AcademicYear 2022-23**

Sl. No.	Date	Topic	Guestspeaker	No. ofstudentsa
1	23/06/2023	Seminar on DCET Exams	Mr. Mallikarjun,Gpt,Kampli	33
2	02/08/2023	Workshop onIIoT	Mr. VINAYKUMAR&RAKESH	35
3	22/09/2023	Seminar on GPA&CreditSystem	Dr.H K Shankarananda	74

AcademicYear 2021-22

Sl. No.	Date	Topic	Guest speaker	No. ofstudentsa
1	26/08/21to 29/08/21	INPLANTTRAININGONE MBEDDEDSYSTEM	Mr.PRAVEENKUMAR	21
2	27/1/22 & 28/01/22	WORKSHOPONPCBDESIGN &FABRICATION	Mr. VINAYKUMAR&RAKESH	67
3	02/07/2022	INTERACTIONWITHI NDUSTRYEXPERTS	Sri CJagannath RtdEngineerAutomation	50

Industrialvisits/toursforstudents(3) **InstituteMarks 3.0**

Initiatives

- Industrialvisitisapartoftheengineeringcurriculum,duringwhichstudentsvisittheengineeringorganizationsandgetintotheoperationprocess,varioustechnologiesusedinrealtimeproduction,challengesinpracticingengineeringprinciplesandalsogetthepracticalaspectsofthecourse.Withanaimtogobeyondacademics,thesevisitsarearrangedtoattainpracticalknowledge.
- Developingcontacts,collectingtheaddressesoftheIndustriesplannedfortheIndustrialVisit.
- PrepareandsendthelettersapprovedbytheHeadoftheDepartmentrequestingtheIndustryconcernedtograntpermissionmentioningthedate/timeandnumberofstudentsaccompaniedbythestafffrom thedepartmentconcerned.

PhotosshowingIndustryvisits:

1. SLRMetaliksLtd

2. MukundSteels

3. IdealIndustry

4. Paperplatemanufacturingindustry

D. Industrialtraining/internship(5) **Institute Marks 4.0**

Internship

Objectives

InternshiptrainingmeansacourseoftraininginanyindustryorestablishmentundergonebythestudentoffinalyeardiplomainMechanicalengineeringinpursuanceofmemorandumofunderstandingbetweenindustryanddepartmentoftheconcernedinstituteordepartmentcanmakenecessaryarrangementsinthelocalvicinityindustriestoexposetheirstudentsforindustrylearningenvironment.

Theperiodofinternshiptrainingwillbetheperiodofonesemestertermforthesubject.Thestudentaresenttotheindustryforsixteenweeksasperthe curriculum.

Process

Permissionfromindustry.

TheGuideallottedbythedepartmentheadhavelibertytoselectnearbyorganization/industryoflocalvicinitywithpriorapprovalofprincipaloftheinstitute.Structuredtrainingtobearrangedbyguideandreportofthesameshallbesubmittedbytheindividualstudent,tofulfilltheirterm work.

Priorinformationtostudentsandinstructionaboutthearrangements,safetyprecautions,useofprotectivegadgetsandgeneraldisciplinetobefollowedinsideshopfloor,awarenessaboutrestrictedandprohibitedareasandanyotherinstructionsrelatedtothatindustry.

E. Posttraining/internshipAssessment(10) **InstituteMarks9.0**

Studentsareaskedtosubmittheinternshiptrainingreporttotheconcernedcoursefaculty.

Thestudentsarerequiredtopresenttheknowledgegainedthroughthetrainingintheformof PPTs.

Theconcernedcourseteacherthenawardmarksonthebasisofattendance,presentation,skillacquired,andknowledgegained.

F. ContributiontoCommunityrelatedprojects/activities(5)

FollowingProjectsareidentifiedtobecontributingtothecommunity

1	IOTBASEDAIRQUALITYMONITORINGSYSTEM	Thisprojectprovidesacombinationofprocessofsensingseveralgaslevelsintheairandalsotheambienttemperatureandhumiditythussensingthequalityofair
2	ELECTRICVEHICLELAWNMONITOR	ThepurposeofthisprojectisCollectionofdriedleavesandgrassinmaintainingthelandscapemanagementofresidentialareas

2.2.6 InformationAccessFacilitiesandStudentCentricLearningInitiatives(15) **InstituteMarks 12.0**

A. Availabilityoffacilities&EffectiveUtilization;*specifythefacilities,materials and scopeforself-learning,Webinars,NPTELPodcast,MOOCsetc*(10)

DepartmentLibrary:

Thedepartmenthasalibrarywiththebooksrelatedallthesemestersandcurriculum.Fewtechnicalmagazinesalsokeptinthelibrarywhichwillhelpthemtogainextraknowledge.Aseparateregisterismaintainedinthedepartmentandthebooksareissuedtothestudentsasand when required.

Videos:

Multimediahasmanykindsofdatasuchastext,audio,images,animation,videoandinteractivecontent.Thesemakethelearningcomplementary withtheexistingtools.

QuestionBank: EachstaffmemberwillprepareQuestionbankoftheircoursesandwillbesharedtothestudentstomakethemprepareforexamsthoroughly.

SimulationTools

Freeandopensourcesimulationandsynthesistoolsareinstalledinthecomputerlabs.Thesetoolshelpthestudentstoknowtheworkingofelectronicscircuitsbeforeconductingtheexperimentusingdiscretecomponents

StudentsareinsistedtogetregisteredforNDL,SWAYAMcourses,NPTELforselflearning.Studentsareprovidedwithstudymaterials,assignments,videolinksoverGoogleclassroom(LMS)

B. StudentCentricLearningInitiatives&EffectiveImplementation(5) **InstituteMarks4.0**

Followingwaysareincorporatedinordertoensuretheestablishmentofstudentcentricsystem.

Sl.No.	Activity	Skills Developed
1	Internship Aftercompletionof5th Semesteranddurin g6th Semester	Expandtheknowledgeandunderstandingofthefields;Contactthenetworkprofessionalsandadministratorsinthefields;andGainhands on trainingandProfessionalexperience
2	IndustryVisits	Industryvisitisapartoftheeducation,duringwhichstudentsvisitcompanies/industriesandgetinsightintotheinternalworkingenvironmentofthecompany.
3	ProjectsandField Visits	Understandtheirsubjectbetter.Getpracticalexperience. Havea chancetoshowcasetheirskills.Learn teamwork,c
4	GuestLectures,Seminar&Workshops	Aspartofacademicdevelopment,associationsofallthedepartmentsarrangeguestlecturesandseminarsthroughouttheyearontopicsofcoresubjects,Careerorientedlectures,recenttechnologiesandresearchareasperiodically

- Studentbeingsoulofthesystemandobjectivebeingoutcomebasededucationsystemeverystudentistreatedasspecialone.
- Awell-definedMentoringsystemisimplementedinthedepartmenttoidentifyandunderstandthestudentsproblem
- Parent-teachermeetingsarearrangedevery semester.Appreciation/awardsaregiventothestudentshavingexcellentacademicorextracurricular/co-curricularachievements

2.2.7 NewInitiativesforembeddingProfessionalSkills(15) **InstituteMarks 14.0**

A. EmployabilityskillenhancementInitiativesandeffectiveimplementation(8)

EntrepreneurshipDevelopment Cell ispresentinourinstituteunderwhich one or twoprograms areconductedeveryyear forstudentsof allprogramsthishelpsstudentstoenhancetheEntrepreneurship skills.
Followinginitiativesare takentoembedprofessional skills instudents.
Workshop on EntrepreneurshipDevelopmentprogrammewasorganized forfinalyearstudents.Thedetailsoftheprogramsareasfollows:

AcademicYear 2022-23

Sl.No.	Topic	ResourcePerson		No. of studentsatt
1	23/06/2023	Seminar on DCET Exams	Mr. Mallikarjun,Gpt,Kampli	33
2	02/08/2023	Workshop onIIoT	Mr. VINAYKUMAR&RAKESH	35
3	22/09/2023	Seminaron GPA &CreditSystem	Dr.H K Shankarananda	74

AcademicYear 2021-22

Sl.No.	Topic	ResourcePerson	No. ofstudentsa
1	EntrepreneurshipDevelopment Program	Sri. B.SomashekharJoint Director DistrictIndustrialandCommerceDeptVi	15

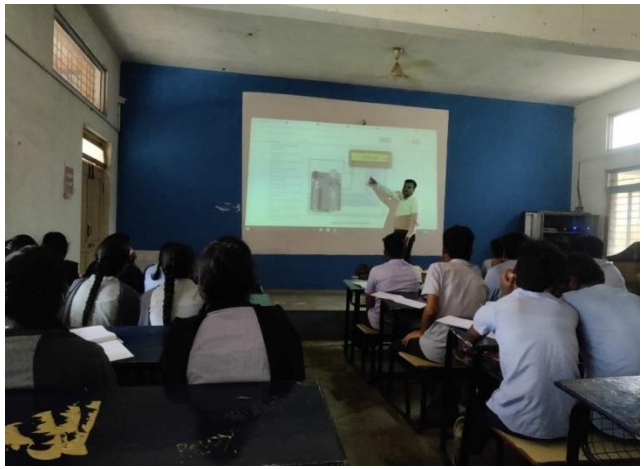
AcademicYear 2020-21

Sl.No.	Topic	ResourcePerson	No. ofstudentsa
1	EntrepreneurshipDevelopment Program	Sri.VinodKumar,CEDOK TreasuryOfficerBallari,Vi jayanagar	39

B. PersonalitydevelopmentrelatedInitiatives&effectiveimplementation(7) **InstituteMarks**

7.0 Personalitydevelopmentprogramsareconductedfor studentsinordertofocustheimportantattributesforthesoftskillsdevelopment.

S. NO	EVENT	RESOURSEPERSON	MODE	NOOFST UDENTS
1	ENTREPRENEURSHIPDEVELOPMENT PROGRAM	Sri.SOMASHEKAR	PPT	60
2	WORKSHOPONPCBDESIGN &FABRICATION	Mr. VINAYKUMAR&Mr.R	WORKSHOP	67
3	INTERACTIONWITHINDUSTRYE XPERTS	Sri.CJagannath, RtdEngineer(Automation)	SEMINAR	32
4	INTERNETOFTHINGS	Mr. RAYMONDIRUDAYARAJI	SEMINAR	55
5	NS2SIMULATOR	ProfSHARADAHN&Pr ofSANDHYASV	ONLINE	23
6	ORAGANIZATIONALMANAGEMENT ANDENTREPRENEURSHIP	Mr.PRAJWALRAJM	PPT	40
7	SATELLITECOMMUNICATION	Mr.SVENKATARAGHAVAN	PPT	29
8	WIRELESSCOMMUNICATION	Mr.ULAGANATHANJ	PPT	43
9	PERSONALITYDEVELOPMENT	Smt.SHAMITHA		26
10	CAREERGUIDANCE	Sri.ROHITHUM		26
11	Seminar on DCET Exams	Mr. Mallikarjun,Gpt,Kampli	Seminar	33
12	Workshop onIIoT	Mr. VINAYKUMAR&RAKESH	Workshop	35
13	Seminar on GPA&CreditSystem	Dr.H K Shankarananda	PPT	74



Studentcareerrelatedactivitiesorganizedforallsemester E&Cstudents.Thedetailsareasfollows:

Sl. No.	Date	Sem	No. of students attended	Mode	Topic
1	05/02/2021	I	36	Offline	CareerPlanningWorkshop – Studentsapproach
2	16/02/2021	V	47	Offline	CareerPlanning Workshop – Studentsapproach
3	22/02/2021	V	47	Offline	CareerPlanning Workshop – Studentsapproach
4	01/03/2021	V	47	Offline	SelfManagement – Effective use ofTime&Knowledge
5	03/03/2021	V	47	Offline	ExpressYourself– Waytofindthesuccess&Interviewreadiness
6	16/03/2021	V	47	Offline	ExpressYourself– Waytofindthesuccess&Interviewreadiness
7	13/05/2021	VI	47	Offline	Studentsapproachduringlockdown
8	18/05/2021	VI	47	Offline	Studentsapproachduringlockdown
9	22/06/2021	VI	47	Offline	Effectivewaystoalign E&CSkillset – LeadingyourCareer

10	04/10/2021	IV	47	Offline	Skill settoleadyour career
11	23/10/2021	I	47	Offline	CareerPlanning Workshop – Skill settoleadcareer

2.2.8 Co-curricular&ExtraCurricularActivities(10) **InstituteMarks 8.0**

Sl.No.	Date/Month	Activity	No. ofStudents participated
1	31-05-2022	PARTICIPATIONINCOMMUNITYSERVICES(CYCLERALLY)	55
2	14-03-2022	YOGA DAY	60
3	05-06-2022	ENVIRONMENTALDAY(Plantingtrees)	62
4	03-03-2023	DRUG ADDICTIONCONTROL By: District Judge&GovtMedicalOfficer	86

CycleRallyTobaccoFreeEnvironment

CelebrationofInternationalYogaDay

PlantationprogramonaccountofWorldEnvironmentDay

Seminar on DrugAddiction& Control

Criteria – 3

CourseOutcomes&ProgramOutcomes

3. COURSEOUTCOMES AND PROGRAMOUTCOMES(100) **InstituteMarks 95**

DefinetheProgramSpecificOutcomes:

PSO1: Applyprinciplesofmathematics,communication,automationandlogiccontroltoanalyzedifferenttypesofsignalsandswitchingoperations.

PSO2: Analyze,Synthesizetheanalog&digitalcircuits&toadaptforrapidchangesintoolsandtechnology throughlife-longlearning.

PSO3: Design,Simulateandfabricate PCBusingEDAtools for Electronics&Communication,Electrical Circuitsandinterfacethroughprogramming.

3.1 EstablishthecorrelationbetweenthecoursesandthePOsandPSOs(20) **TotalMarks20**

3.1.1 CourseOutcomes(SARshouldincludecourseoutcomesofonecoursefromeachsemesterofstudy,however,shouldbepreparedforallcourses) **InstituteMarks 5.0**

CourseName: C101 **CourseYear:2020-21**

CourseName	Statements
C101.1	Identifyandapplyarithmeticandconversionoperationsondifferent numbersystems
C101.2	Formulate,simplifyandimplementsimplelogicfunctions
C101.3	Build/designandanalyzevariouscombinationalcircuits
C101.4	Identifyandselectdigitalintegratedcircuits(ICs)forsimple applications

CourseName: C109 **CourseYear:2020-21**

CourseName	Statements
C109.1	Identifyandselecttheelectroniccomponentsand devices andinstruments.
C109.2	Testelectroniccomponents anddevices
C109.3	Fabricate/constructdiscretecircuits.
C109.4	Select andanalyseelectroniccircuitsforcharacteristics and/or simpleapplications.
C109.5	Experimentthe circuitcharacteristics/simpleapplicationsunder simulatedand realEnvironment

CourseName: C202 **CourseYear:2020-21**

CourseName	Statements
C202.1	ListthetypesofVerilog modelingand theuseofeachmodelforspecificapplication
C202.2	Designandconstructasequentialcircuitforagivenapplicationandtestthecircuittoobtainthedesired result/output.
C202.3	Compareandcontrastcombinationalandsequentialcircuitsandsimulateagivencircuitusing Verilog descriptions to testto obtainthedesiredresult/output
C202.4	ListthevarioustypesofA toD,D to Aconvertersalongwithmemoryandfora givenapplicationselectthe appropriateconvertersand/ormemorytypestobeusedto obtainthegivenresult/output.

CourseName: C205 **CourseYear: 2020-21**

CourseName	Statements
C205.1	IdentifydifferenttypesofPrintedCircuitBoard(PCB),listthedifferencesbetweenthemanditsadequacyf orspecificapplication.
C205.2	DrawtheschematicandPCBlayoutforananalogcircuitto beusedfor a givenapplication.
C205.3	Selecttherightcomponentsforadesignedcircuit,buildthecircuitandfabricateitusingtheappropriatetool s following allnecessarysafetyprotocols.
C205.4	Testthefabricatedcircuit,identifytheproblemandtroubleshoottoensurethecircuitprovidesthedesiredo utput

CourseName: C205 **CourseYear :2020-21**

CourseName	Statements
C301.1	DemonstrateandExplaintheConceptof Automation&Robotics,itscomponentsandapplicationsinIndustries.
C301.2	BuildandtroubleshootanyautomationsysteminasimulatedorRealenvironmentapplyingnecessaryNet workingProtocols.
C301.3	Install,troubleshootandmaintainPLC.InterfaceVFDwithHMIandPLCtocontrolmotorparameters.
C301.4	TestandtroubleshootRoboticssystemtomeetdefinedoperationalspecificationsinasimulatedor Realenvironment
C301.5	Implementthe Robot operating System forvariousapplications

CourseName:	C302	CourseYear:	2022-23

CourseName	Statements
C302.1	WriteCapstoneprojectscopedocument
C302.2	Prepareacapstoneprojectexecutionplan
C302.3	Managethecapstoneprojectfrom startto finishmeetingstatedmilestonesandtimelines
C302.4	Testandvalidatethefindings
C302.5	Demonstrateinterpersonalskills,teamwork,andeffectiveuseofappropriatetechnologyrequiredfortheca pstoneproject

3.1.2 CO-POmatricesofcoursesselectedin3.1.1(Sixmatricestobementioned;onepersemester(5)InstituteMarks :5.0

1. Coursename:C101

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C101.1	3	2	-	-	1	-	-
C101.2	3	2	1	2	-	-	-
C101.3	3	2	1	2	-	-	-
C101.4	3	-	-	-	1	-	-
Average	**3**	**2**	**1**	**2**	**1**	**-**	

2. Coursename:C110

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C110.1	3	1	-	2	1	-	-
C110.2	3	-	-	2	1	-	-
C110.3	3	-	-	2	1	-	-
C110.4	3	-	1	2	1	-	-
C110.5	3	-	1	2	1	-	-
Average	**3**	**1**	**1**	**2**	**1**	**-**	**-**

3. CourseName:202

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C202.1	3	3	3	3	1	3	3
C202.2	3	3	3	3	-	3	3
C202.3	3	3	3	3	-	3	3
C202.4	3	3	3	3	-	3	3
Average	**3**	**3**	**3**	**3**	**1**	**3**	**3**

4. Coursename:C205

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C205.1	1	3	-	-	-	-	
C205.2	1	3	3	3	1	-	2
C205.3	-	3	3	3	1	-	2
C205.4	-	3	-	3	1	-	2
Average	**1**	**3**	**3**	**3**	**1**	**-**	**2**

5. Coursename:C301

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C301.1	3	2	3	2	2	1	-
C301.2	3	2	3	2	2	1	-
C301.3	3	2	3	2	2	1	3
C301.4	3	2	3	2	2	-	3
C301.5	3	-	-	-	2	-	3
Average	**3**	**2**	**3**	**2**	**2**	**1**	**3**

6. Coursename:C302

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C302.1	3	3	3	3	3	3	3
C302.2	3	3	3	3	3	3	3
C302.3	3	3	3	3	3	3	3
C302.4	3	3	3	3	3	3	3
C302.5	3	3	3	3	3	3	3
Average	**3**	**3**	**3**	**3**	**3**	**3**	**3**

1. CourseName:C101

Course	PSO1	PSO2	PSO3
C101.1	2	3	3
C101.2	2	3	3
C101.3	2	3	3
C101.4	2	3	3
Average	**2**	**3**	**3**

2. CourseName 110

Course	PSO1	PSO2	PSO3
C110.1	3	3	3
C110.2	3	3	3
C110.3	3	3	3
C110.4	3	3	3
C110.5	3	3	3
Average	**3**	**3**	**3**

3. CourseName:C202

Course	PSO1	PSO2	PSO3
C202.1	3	3	3
C202.2	3	3	3
C202.3	3	3	3
C202.4	3	3	3

4. CourseName:C205

Course	PSO1	PSO2	PSO3
C205.1	3	3	2
C205.2	3	3	2
C205.3	3	3	2
C205.4	3	3	2

5. CourseName:C301

Course	PSO1	PSO2	PSO3
C301.1	3	3	3
C301.2	3	3	3
C301.3	3	3	3
C301.4	3	3	3
C301.5	3	3	3
Average	**3**	**3**	**3**

6.CourseName:C302

Course	PSO1	PSO2	PSO3
C302.1	3	3	3
C302.2	3	3	3
C302.3	3	3	3
C302.4	3	3	3
C302.5	3	3	3
Average	**3**	**3**	**3**

3.1.3-AProgramlevelCourse-POmatrixofallcoursesINCLUDINGfirstyearcourses(10) **InstituteMarks : 10**

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO101	3	2	1	2	1	-	-
CO102	3	3	1	3	3	2	3
CO103	3	-	-	3	-	-	-
CO104	3	-	-	3	-	-	-
CO105	3	-	-	-	3	-	3
CO106	3	3	3	3	2	3	1
CO107	3	1	3	-	-	-	3
CO108	3	3	-	-	-	-	3
CO109	3	-	-	3	-	-	3
CO110	3	1	1	2	1	-	2
CO201	3	1	1	3	3	2	3
CO202	3	3	3	3	1	3	3
CO203	3	3	2	3	2	3	1
CO204	3	1	1	3	3	2	3
CO205	1	3	3	3	1	-	2
CO206	3	1	1	-	3	-	2
CO207	3	3	3	-	1	-	2
CO208	3	-	3	-	3	-	2
CO209	-	-	-	-	-	3	3
CO301	3	2	3	2	2	1	3
CO302	3	3	3	3	3	3	3

3.1.3 -BProgramlevelCourse-PSOmatrixofallcoursesINCLUDINGfirstyearcourses

Course	PSO1	PSO2	PSO3
C101	2	3	3
C102	2	2	3
C103	2	2	2
C104	3	3	2
C105	1	2	3
C106	3	3	3
C107	-	-	-
C108	2	1	3
C109	3	3	3
C201	3	3	2
C202	3	3	3
C203	3	3	2
C204	2	2	2
C205	3	3	2
C206	1	3	3
C207	-	2	3
C208	3	3	3
C209	-	-	-
C301	3	3	3
C302	3	3	3

3.2.1 AttainmentofCourseOutcomes(40) **InstituteMarks:37**

3.2.1 Describetheassessmentprocessesusedtogatherthedatauponwhichtheevaluationof CourseOutcomeisbased(10)

InstituteMarks : 9.0

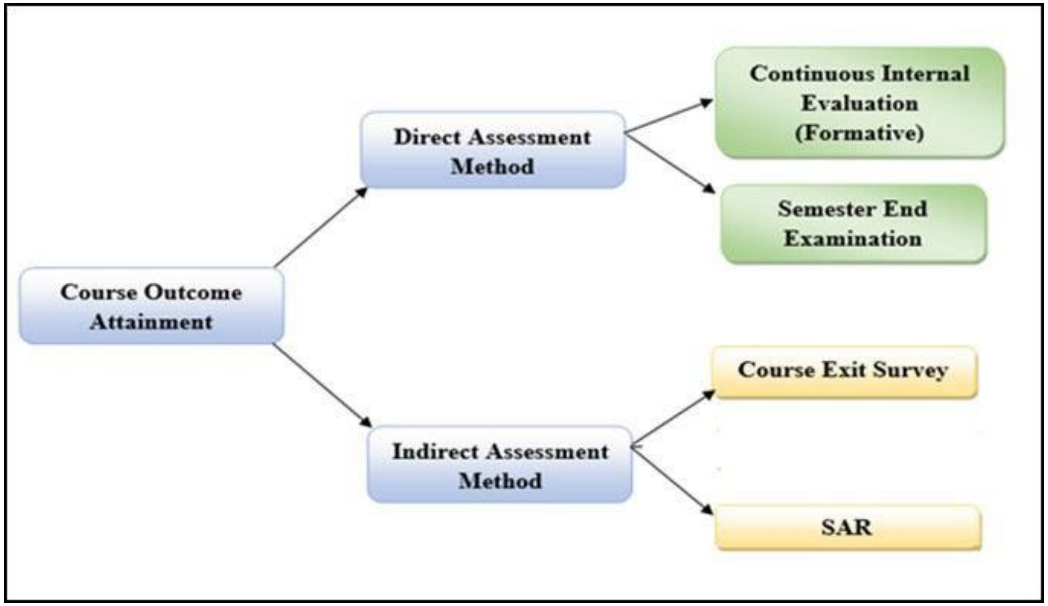
Assessmentprocesses:-

IntheOutcomeBasedEducation(OBE)system,assessmentismadethroughmorethanoneprocesses,toidentifyandcollectdatatoevaluatelevelo fattainmentofthecourse tools used are:

- DirectMethod
- Indirect Method

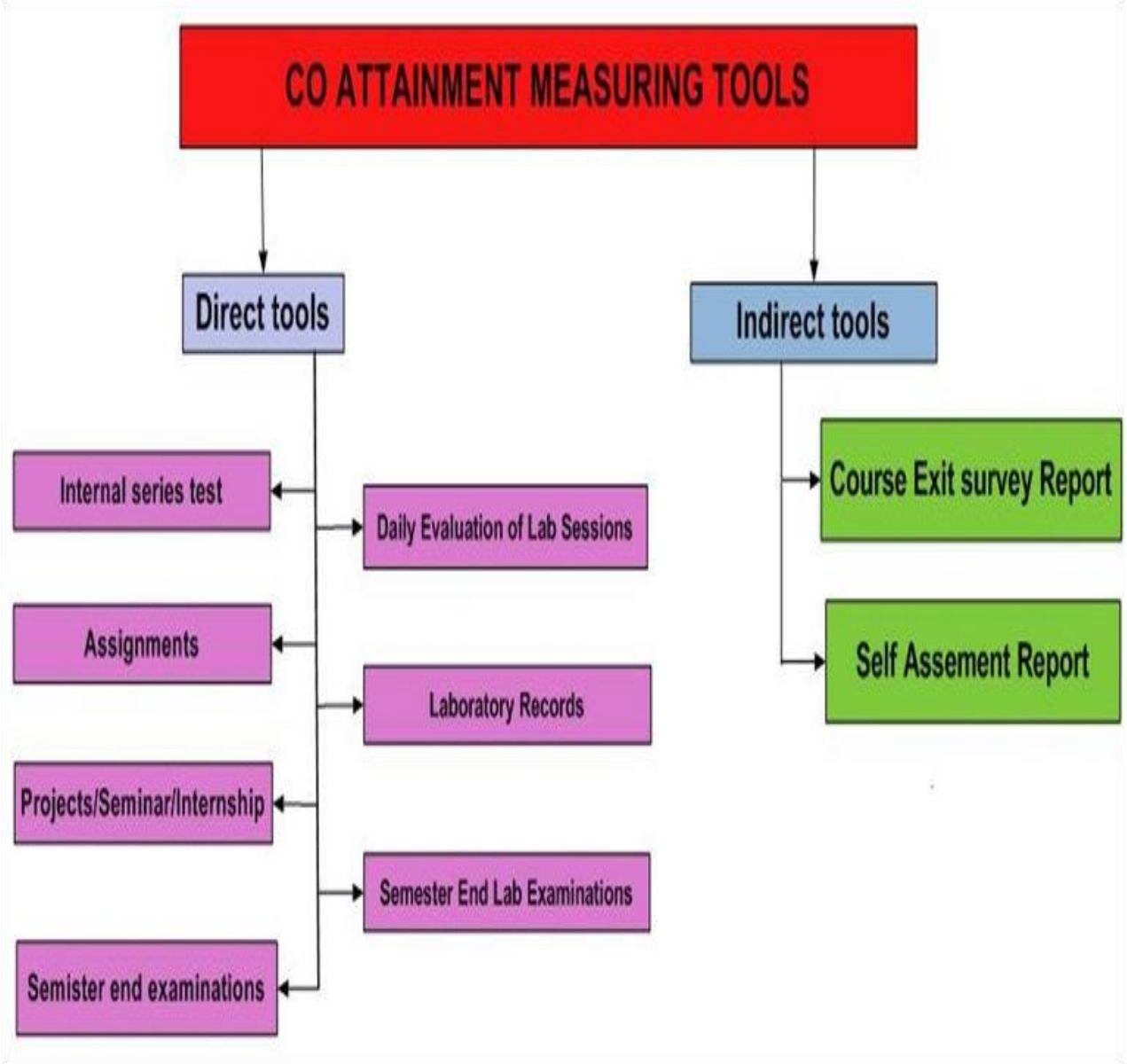
Directmethodsdisplaythestudent'sknowledgeandskillsfromtheirperformanceinthecontinuousinternalassessmenttests,classrooms,laborat oryassignments,seminarsandsemesterendexaminations.
Thesemethodsprovideinformationaboutstudents'knowledgeandprovideevidenceofstudentlearningperformance.

IndirectmethodsadoptedtoassessPOorcourseexitsurveyandself-assessmentreportthatreflectonstudents'learning.Thedifferentstakeholdersgiveopinionorthoughtstoassessaboutthegraduate's knowledgeorskills.



DirectAssessment Methods		
Sl.No	AssessmentMethod	Description
1.	InternalAssessment Test	Itisameasuretocontinuouslyassesstheattainmentofcourseoutcomes,student'slearningdomainsandthusimprovetheteaching–learningprocess.TheInternalAssessmentmarksinatheorypapershallbebasedonanytwotestsoutofthree,generallyconductedattheendof6th,10thand15thweekofeachsemester.Anadditionaltestmaybeconductedforthestudentswho desirousbeforetheendofthesemester.Averagemarksareawardedbasedonthescheme.
2.	LabAssessmentTest	LabAssessmentisametrictomainlyassessstudent'spracticalknowledgewiththeirdesigningcapabilities.InthecaseofaPractical,theIAmarksshallbebasedonthelaboratoryjournals/reports,conductionofexperimentsandonepracticaltest.
3.	TheorySemester Examination	Semestertheoryexaminationsarethemetrictoassesswhetherallthecourseoutcomesareattainedw.r.tcourseobjectivesframedbytheinstructor.SemesterExaminationismorefocusedonattainmentofcourseoutcomesandusesadescriptiveexam.
4.	PracticalSemester Examination	Practicalsemesterexaminationfocusesonconductionofexperimentsandviva-voce.
5.	Project.	TheIAmarksinthecaseofseminars,projectsandInternshipworkinthefinalyearshallbebasedontheevaluationattheendof6thsemesterbyacommitteeconsistingoftheHeadoftheconcernedDepartmentandtwoseniorfacultymembersoftheDepartment,oneofwhomshallbetheproject/seminarguide.
6.	Project/Viva-voce	Viva-voceexaminationinprojectworkshallbe conductedbatch-wiseattheendof 6th semester.
7.	Assignment	Assignmentisa metrictomainlyassessstudent'sknowledge/skills/attitudewiththeirdesigningcapabilities.
IndirectAssessmentMethods		
8.	CourseExitSurvey	Collectinformationfromthestudentstoassessthelearningoutcomesofthecourseattheendofthesemester.
9.	SelfAssessmentReport	Collectinformationfromthestudentsforselfassessingthemselvesaboutthecourseaftercompletionofcourse.

Flowchart:AssessmentProcessforCOAttainment



3.2.2**Record the attainment of courseoutcomes of allcourseswithrespectsetattainmentlevels (30)** **Institute Marks : 28**

Sl.No.	AssessmentMethod	Assessment frequency	Assessment Tool	Incharge	Reviewer
1	InternalAssessment Test(CIE-Theory)	After3rd,7th,11thWeek	Performanceintests (IABooks)	Course coordinator	HOD
2	InternalAssessment Test(CIE-Practical)	After5th,9th,13thWeek	Performanceintests (IABooks)	Course coordinator	HOD
3	SemesterEndExam(SEE) (Practical)	At theend ofthesemester	Performancein SEE (AnswerSheets)	External&InternalExaminersappointed by BTE,Bengaluru	
4	SemesterEndExam(SEE) (Theory)	At theend ofthesemester	Performancein SEE (AnswerSheets)	Valuer&Reviewerappointed byBTE,Bengaluru	
5	Project/Internship (CIE)	During 6thSemester	Rubrics	Guide/Cohort Owner	HOD
6	SEE onProject/InternshipandViva	At theend of6thSemester	StudentsperformanceinSEE	External&InternalExaminersappointed by BTE,Bengaluru	
7	Assignments	Aftereach CIE Test	Assignment Books/Sheets	Course coordinator	HOD
8	CourseExitSurvey	End ofsemes	StudentSurvey	Course coordinator	HOD
9	SelfAssessment Report	End ofsemes	StudentSurvey	Course coordinator	HOD

3.2.3 RecordtheattainmentofCourseOutcomeofallcourseswithrespecttosetattainmentlevels(40)

Thedescriptionoftheattainmentlevelsisasexplainedbelow.

MeasuringCOattainmentthroughInternalAssessments:

AttainmentLevelV/STarget

- AttainmentLevel1: 60%studentsscoringmorethan40% marksoutoftherelevantmaximummarks.
- AttainmentLevel2: 70%studentsscoringmorethan40% marksoutoftherelevantmaximummarks.
- AttainmentLevel3:80%studentsscoringmorethan40%marksoutoftherelevantmaximummarks.

MeasuringCOattainmentthroughSemesterEndExamination:

AttainmentLevelV/STarget

- AttainmentLevel1:60%studentsscoringmorethan40%marksoutoftherelevantmaximummarks.
- AttainmentLevel2:70%studentsscoringmorethan40%marksoutoftherelevantmaximummarks.
- AttainmentLevel3:80%studentsscoringmorethan40%marksoutoftherelevantmaximummarks.

COAttainmenthasbeencalculatedbyassuming60%weightagetoSEE,and40%weightage toInternalAssessment

FinalCOAttainmentiscalculatedbyassuming80%weightagetoDirectAttainmentand20%weightage toIndirectAttainment

%COAttainmentDirect									
Sl. No.	**SEM**	**Course**	**Course Code**	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**	**CO6**
1	1	DE	C101	14.39	19.57	25.49	26.77		
2		S & A	C102	80.58	80.58	80.58	80.58		
3		CAEG	C103	73.75	76.97	76.26	73.75		
4		FEEE	C104	86.43	90.18	89.36	86.43		
5	2	PMS	C105	70.09	73.93	74.75	74.75	69.88	64
6		EM	C106	64.83	68.25	68.53	68.03	60.53	
7		CS	C107	100	100	100	100		
8		IT Skills	C108	78.99	74.83	77.57	78.99	71.86	
9		ECD	C109	70.28	74.36	79.51	70.28	63.74	
10	3	AE	C201	69.11	70.81	68.79	71.43		
11		LDV	C202	74.51	86.42	89.38	81.63		
12		Com Sys	C203	65.71	73.79	69.71			
13		EMTT	C204	59.35	54.92	57.04	60.6		
14	4	PCB	C205	69.25	65.23	77.32	68.73		
15		WC	C206	61.38	60.53	63.11	75.21		
16		ECP	C207	76.04	86.13	70.14	75.43		
17		IA	C208	90.2	95.92	86.72	86.17		
18	5	A & R	C301	78.72	80.24	79.9	68.69	72.12	
19	6	Int/Proj	C302	92.5	92.5	92.5	92.5	92.5	

%COAttainmentIndirect									
Sl. No.	**SEM**	**Course**	**Course Code**	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**	**CO6**
1	1	DE	C101	75.26	72.48	73.72	76.97		
2		S& A	C102	80.63	79.28	80.63	80.18		
3		CAEG	C103	78.22	75.11	78.22	77.78		
4		FEEE	C104	91.26	90.74	91.26	90.74		
5	2	PMS	C105	68.65	72.8	74.07	74.07	64.81	58.33
6		EM	C106	86.42	84.44	86.91	87.96	88.97	
7		CS	C107	96.67	95	96.67	96.67		
8		ITSkills	C108	80.56	79.63	77.78	81.02	77.33	
9		ECD	C109	73.23	78.7	81.48	74.07	71.67	
10	3	AE	C201	85.42	84.55	79.67	80.49		
11		LDV	C202	90.39	94.21	96.84	96.32		
12		Com Sys	C203	80.7	83.27	79.39			
13		EMTT	C204	74.74	69.76	70.11	75.12		
14	4	PCB	C205	76.88	73.98	79.67	78.19		
15		WC	C206	69.55	69.55	69.97	82.32		
16		ECP	C207	91.07	88.81	78.99	78.99		
17		IA	C208	97.58	94.55	91.2	92.35		
18	5	A& R	C301	81.48	81.48	83.33	88.89	94.44	
19	6	Int/Proj	C302	100	100	100	100	100	

3.3 AttainmentofProgramOutcomesandProgramSpecificOutcomes(40) InstituteMarks : 38

3.3.1 DescribeassessmenttoolsandprocessesusedforassessingtheattainmentofeachPOsandPSOsasmentionedinAnnexure1(10)
InstituteMarks: 10

DescribeassessmenttoolsandprocessesusedforassessingtheattainmentofeachPOs&PSOsPOAssessmentTools.Assessmenttoolsarecategorizedintodirectandindirectmethodstoassesstheprogrammeeducationalobjectives,programoutcomesandcourseoutcomes. Directmethodsdisplaythestudents'knowledgeandskillsfromtheirperformanceinthecontinuousassessmenttests,semesterend examinations,presentations,andclassroomassignmentsetc.these methodsprovideevidenceofstudent learning performance.Indirectmethods:Asurveyisconductedincludingalumni,students'performanceininterviews,industrialist'sopinionsandother stakeholderstoknowgraduationknowledge&skills.

PODirectAssessmentMethods		
S. No.	**AssessmentMethod**	**Description**
1	InternalAssessmentTest	Itisametrictocontinuouslyassesstheattainmentofcourseoutcomes,student'slearningdomainsandthusimprovetheteaching–learningprocess.TheInternalAssessmentmarksinatheorypapershall be conductedattheend of 3rd, 7thand11thweeks of eachsemester. AnadditionaltestmaybeconductedforthedesirousstudentsbeforetheendofthesemestertogiveanopportunitytosuchstudentstoimprovetheirInternalAssessmentMarks.Averageofthebettermarksobtained from theInternalAssessment Marks fortherelevantsubject.
2	LabAssessmentTest	LabAssessmentisametrictomainlyassessstudent'spracticalknowledgewiththeirdesigningcapabilities.Inthecase ofa Practical,theIAmarksshallbebasedonthelaboratoryjournals/reports,conductionofexperimentsandonepra
3	SemesterEnd Examination	Semestertheoryexaminationsarethemetrictoassess whetherallthecourseoutcomesareattainedw.r.tcourse objectivesframedbytheinstructor.SemesterExaminationismorefocusedonattainmentofcourseoutcomesandusesadescriptiveexam.Practicalsemesterexaminationfocusesonconductionofexperimentsandvice-voice.
4.	Seminar/Project/ Internship	TheIAmarksinthecaseofminiprojects,projectsandseminarsinthefinalyearshallbebasedontheevaluationattheendof6thsemesterbyacommitteeconsistingoftheHeadoftheconcernedDepartmentandtwoseniorfaculty membersoftheDepartment,oneofwhomshallbetheproject/seminarguide.
5.	Project/InternshipWork Viva-voce	Viva-voceexaminationinprojectworkshallbeconductedbatch-wise.
6.	Assignment	Assignmentisametrictomainlyassessstudent'sknowledge/skills/attitudewiththeirdesigningcapabilities.

3.3.2 ProvideresultsofevaluationofeachPO&PSO(30) InstituteMarks :

28PO Attainment

Course	PO1		PO2		PO3		PO4		PO5		PO6		PO7	
	TV	AV	TV	AV	TV	AV	TV	AV	TV	AV	TV	AV	TV	AV
C101	3	0.83	2	0.52	1	0.30	2	0.59	1	0.26		-		
C102	3	2.9	3	2.9	1	0.97	3	2.9	3	2.9	2	1.93	3	2.9
C103	3	2.77	0	0	0	0	3	2.77	0	0	0	0	0	0
C104	3	2.78	0	0	0	0	3	2.78	0	0	0	0	0	0
C105	3								3				3	
C106	3	2.93	3	2.93	3	2.91	3	2.94	2	1.95	3	2.94	1	0.98
C107	3	2.22	1	0.74	3	2.15	0	0	0	0	0	0	3	2.22
C108	3	3	3	3	0		0		0		0		3	3
C109	3	2.84	0	0	0	0	3	2.84	0		0		3	2.84
C110	3	2.77	1	0.92	1	0.92	2	1.84	1	0.92	0	0	2	1.84
C201	3	2.44	1	0.81	1	2.44	3	2.44	3	0.84	2	2.44	3	2.44
C202	3	2.45	3	2.45	3	2.45	3	2.45	1	0.8	3	2.45	3	2.45
C203	3	2.46	3	2.46	2	1.64	3	2.46	2	1.64	3	2.46	1	0.81
C204	3	2.30	1	0.77	1	0.76	3	2.30	3	2.30	2	1.53	3	2.30
C205	1	0.85	3	2.61	3	2.65	3	2.62	1	0.87	0	0	2	1.74
C206	3	2.64	1	0.87	1	0.87	0	0	3	2.64	0	0	2	1.76
C207	3	2.65	3	2.65	3	2.65	0	0	1	0.90	0	0	2	1.80
C208	3	2.76	0	0	3	2.76	0	0	3	2.77	0	0	2	1.82
C301	3	2.67	3	1.84	3	2.76	3	1.84	3	1.78	3	0.97	3	2.50
C302	3	2.78	3	2.78	3	2.78	3	2.78	3	2.78	3	2.78	3	2.78

TV – Targetvalue, AV – AverageValue

POAttainmentLevel

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
DirectAttainment	2.475	1.883	1.934	2.396	1.667	2.187	2.136
IndirectAttainment	2.805	2.13	2.196	2.696	1.873	2.422	2.364
POAttainment	2.89	2.22	2.13	2.78	2.07	2.37	2.43
	2.64	**2.006**	**2.065**	**2.546**	**1.77**	**2.304**	**2.25**

PSOAttainment

Course	PSO1		PSO2		PSO3	
	TV	AV	TV	AV	TV	AV
C101	2	0.56	3	0.83	3	0.83
C102	2	1.93	2	1.93	3	2.90
C103	2	1.84	2	1.84	2	2
C104	3	2.78	3	2.78	2	3
C105						
C106	1	0.98	2	1.95	3	2.93
C107	3	2.22	3	2.22	3	2.33
C108					3	3
C109	2	1.9	1	0.95	3	1
C110	3	2.77	3	2.77	3	3
C201	3	2.44	3	2.44	2	3
C202	3	2.45	3	2.45	3	3
C203	3	2.46	3	2.46	2	3
C204	2	1.53	2	1.53	2	2
C205	3	2.61	3	2.61	2	3
C206	1	0.88	3	2.64	3	3
C207	0	0	2	1.77	3	2
C208	3	2.76	3	2.76	3	3
C301	3	2.67	3	2.67	3	2.76
C302	3	2.78	3	2.78	3	2.78

PSOAttainmentLevel

Course	PSO1	PSO2	PSO3
DirectAttainment	2.091	2.187	2.554
IndirectAttainment	2.337	2.478	2.567
PSOAttainment	2.47	2.61	2.68
	2.214	2.332	2.560

Criteria - 4

Student Performance

4 STUDENTSPERFORMANCE (200) **InstituteMarks:95.4**

IntakeInformation:

Table4.1

Item	2023-24 (CAY)	2022-23 (CAYm1)	2021-22 (CAYm2)	2020-21 (CAYm3)	2019-20 (CAYm4)	2018-19 (CAYm5)
Sanctionedintakestrength of theprogram((N)	50	50	50	50	50	50
Totalnumberof students,admittedthroughstatelevelcounseling (N1)	52	53	47	37	41	37
Numberof students,admittedthroughInstitutelevelquota(N2)	3	1	0	0	3	1
Numberof students,admittedthroughLateralEntry (N3)	3	4	2	4	9	6
Totalnumberof studentsadmittedintheprogramme(N1+ N2+N3)	58	58	49	41	53	44

Table4.2

Yearof entry	TotalNoofstudentsadmittedintheprogram(N1+N2+N3)	Numberofstudentswhohavesuccessfully passedwithoutbacklogsinanyyearofstudy		
		Iyear	IIyear	IIIyear
2023-24	58			
2022-23	58	5		
2021-22	49	5	6	
2020-21 (LYG)	41	5	5	5
2019-20 (LYGm1)	53	10	10	10
2018-19 (LYGm2)	44	3	3	3

Table4.3

Yearof entry	TotalNoofstudentsadmittedintheprogram(N1+N2+N3)	Numberofstudentswhohavesuccessfullygraduatedinstipulatedperiodofstudy)[Total of withBacklog+ withoutBacklog]		
		Iyear	IIyear	IIIyear
2023-24	58			
2022-23	58	9		
2021-22	48	8	16	
2020-21 (LYG)	41	25	24	28
2019-20 (LYGm1)	53	15	11	16
2018-19 (LYGm2)	44	5	12	15

4.1 EnrolmentRatio(20) **InstituteMarks:18.00**

	N (FromTable4.1)	N1+N2 (FromTable4.1)	EnrollmentRatio[(N1+N2/N)*100]
2023-24	50	55	110
2022-23	50	54	108
2021-22	50	47	94

Average [(ER1+ER2+ER3)/3]:104

Assessment: 20.00

PSOAttainment

Course	PSO1		PSO2		PSO3	
	TV	AV	TV	AV	TV	AV
C101	2	0.56	3	0.83	3	0.83
C102	2	1.93	2	1.93	3	2.90
C103	2	1.84	2	1.84	2	2
C104	3	2.78	3	2.78	2	3
C105						
C106	1	0.98	2	1.95	3	2.93
C107	3	2.22	3	2.22	3	2.33
C108					3	3
C109	2	1.9	1	0.95	3	1
C110	3	2.77	3	2.77	3	3
C201	3	2.44	3	2.44	2	3
C202	3	2.45	3	2.45	3	3
C203	3	2.46	3	2.46	2	3
C204	2	1.53	2	1.53	2	2
C205	3	2.61	3	2.61	2	3
C206	1	0.88	3	2.64	3	3
C207	0	0	2	1.77	3	2
C208	3	2.76	3	2.76	3	3
C301	3	2.67	3	2.67	3	2.76
C302	3	2.78	3	2.78	3	2.78

PSOAttainmentLevel

Course	PSO1	PSO2	PSO3
DirectAttainment	2.028	2.128	2.373
IndirectAttainment	2.337	2.479	2.561
PSOAttainment	2.47	2.61	2.67
	2.18	2.30	2.47

4.2 SuccessRateinthestipulatedperiodoftheprogram(60)

4.2.1 Successratewithoutbacklogsinanyyearofstudy(40) **InstituteMarks:5.02**

Item	LastYear Graduate (2020-21)	LastYearGraduate Minus1 (2019-20)	LastYearGraduateMinus2Batch(2018-19)
TotalNumber ofstudents (X) (admittedthroughstatelevelcounseling+admittedthroughInstituteonLevelquota+admittedthroughLateralentry) (N1+N2+N3)	41	53	44
Numberofstudentswhohavegraduatedwithoutbacklogsinthestipulatedperiod(Y)	5	10	3
SuccessIndex[SI=Y/X]	0.121	0.188	0.068

AverageSI[(SI1+ SI2+SI3) /3]:0.125 Assessment[40*AverageSI]:5.026

4.2.2 Successrateinstipulatedperiod(20) **InstituteMarks:8.80**

Item	LatestYearofGraduate LYG(2020-21)	Latest YearofGraduationminus1,LYGm1 (2019-20)	Latest YearofGraduationminus2LYGm2 (2018-19)
TotalNumber ofstudents (X) (admittedthroughstatelevelcounseling+admittedthroughInstituteonLevelquota +admittedthroughLateralentry)(N1+N2 + N3)	41	53	44
Numberofstudentswhohavepassedinthestipulatedperiod(Y)	28	16	15
SuccessIndex[SI=Y/X]	0.68	0.301	0.340

AverageSI[(SI1+ SI2+SI3)/3]:0.440 Assessment[20*AverageSI]:8.806

4.3 AcademicPerformanceinFirstYear(25) **InstituteMarks:7.162**

AcademicPerformance	2022-23 (CAYm1)	2021-22 (CAYm2)	2020-21 (LYG)
MeanofCGPAormeanpercentageofallsuccessfulstudents (X)	7.727	7.84	7.71
Totalnumberofsuccessfulstudents(Y)	9	8	25
Totalnumberofstudentsappearedintheexamination(Z)	39	43	36
API[X*(Y/Z)]:	1.783	1.458	5.354

AverageAPI [(AP1+AP2+AP3)/3]:2.865
Assessment[2.5*Average API]:7.162

4.4 AcademicPerformanceinSecondYear(20) **InstituteMarks:6.38**

AcademicPerformance	2021-22 (CAYm2)	2020-21 (LYG)	2019-20 (LYGm1)
MeanofCGPAormeanpercentageofallsuccessfulstudents (X)	7.136	7.01	7.71
Totalnumberofsuccessfulstudents(Y)	16	24	11
Totalnumberofstudentsappearedintheexamination(Z)	37	38	41
API[X*(Y/Z)]	3.085	4.427	2.068

AverageAPI [(AP1+AP2+AP3)/3]:3.193
Assessment[2.0*AverageAPI]:6.386

4.5 AcademicPerformanceinFinalYear(15) **InstituteMarks:7.74**

AcademicPerformance	2020-21 (LYG)	2019-20 (LYGm1)	2018-19 (LYGm2)
MeanofCGPAormeanpercentageofallsuccessfulstudents(X)	8.03	7.97	7.63
Totalnumberofsuccessfulstudents(Y)	28	16	15
Totalnumberofstudentsappearedintheexamination(Z)	32	39	22
API[X*(Y/Z)]:	7.02	3.269	5.202

AverageAPI [(AP1+AP2+AP3)/3]:5.16

Assessment[1.5*AverageAPI]:7.745

4.6 PlacementandHigherStudies(40) **InstituteMarks:23.30**

Item	2020-21 (Last YearGraduate,LYG)	2019-20 (Last YearGraduate Minus1,	2018-19 (LastYearGraduate Minus2Batch,LYGm2)
TotalNoofFinalYear Students(N)	32	39	22
Noofstudentsplacedinthecompaniesor governmentsector(X)	11	2	4
Noofstudentsadmittedtohigherstudies(Y)	11	9	10
No.of studentsturnedentrepreneurinthe respective field ofengineering/technology(Z)	0	0	0
PlacementIndex[(1.25*X)+Y+Z)/N]:	0.773	0.294	0.681

AveragePlacement[(P1+P2+P3)/3]:0.582Assessment[40* AveragePlacement]: 23.30

Providethe placement data in the belowmentioned formatwith the name of theprogramandthe assessmentyear(separatelyforCAYm1, CAYm2andCAYm3):

ProgramName:Electronics&CommunicationEngg.

AssessmentYear: 2022-23 (CAYm1)

Sl.No	StudentName	EnrollmentNo	EmployeeName	AppointmentNo
1	MissRJeevitha	EC20031	AdityaBrilaUltratech cement Ltd	2001
2	MissBANafisa	EC20006	AdityaBrilaUltratech cement Ltd	2002
3	MissAshwiniA	EC20005	AdityaBrilaUltratech cement Ltd	2003
4	Miss Nazima	EC20028	JSW PaintsprivateLtd	2004

5	MissB Uma	EC20037	DanaAnand indiaPvtLtd	2005
6	MissTabasum	EC20036	DanaAnand indiaPvtLtd	2006
7	MissGangotri	EC20014	DanaAnand indiaPvtLtd	2007
8	MrVijayaKumar	EC20021	NMDC.Donimali	2008
9	MrNadeem	EC20027	QuessCorp Ltd	2009
10	MrMahanthesh	EC20026	CreativeEngineers	2010
11	MrKhasim	EC20033	Innovativecontrols(p)Ltd.	2011

AssessmentYear: 2021-22 (CAYm2)

Sl.No	StudentName	EnrollmentNo	EmployeeName	AppointmentNo
1	Shailaja	EC19038	MukundsummiSpecialSteelsLtd,Ginigera,Koppal	1901
2	Harshavardhan	EC19021	AlphaEngg,Devanahalli, Koppal	1902

AssessmentYear: 2020-21 (CAYm2)

Sl.No	StudentName	EnrollmentNo	EmployeeName	AppointmentNo
1	HVenkatesh	EC18010	RAMONEITCompanyBan	1801
2	N.Varun	EC18024	KirloskarFerrousIndustries	1802
3	Abhishek	EC19301	KEONICSComputerCenterKa	1803
4	HussainPashaB	EC18006	HFCDesign ServicePvt Ltd,Bengaluru	1804

4.7 ProfessionalActivities(20) **InstituteMarks:19.00**

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4.7.1 ProfessionalSocieties/studentchaptersandorganizingtechnicalevents(10) **InstituteMarks:10.00**

A. AvailabilityofProfessionalSocieties/Chapters&Relevantactivities(5) **InstituteMarks:5.00**

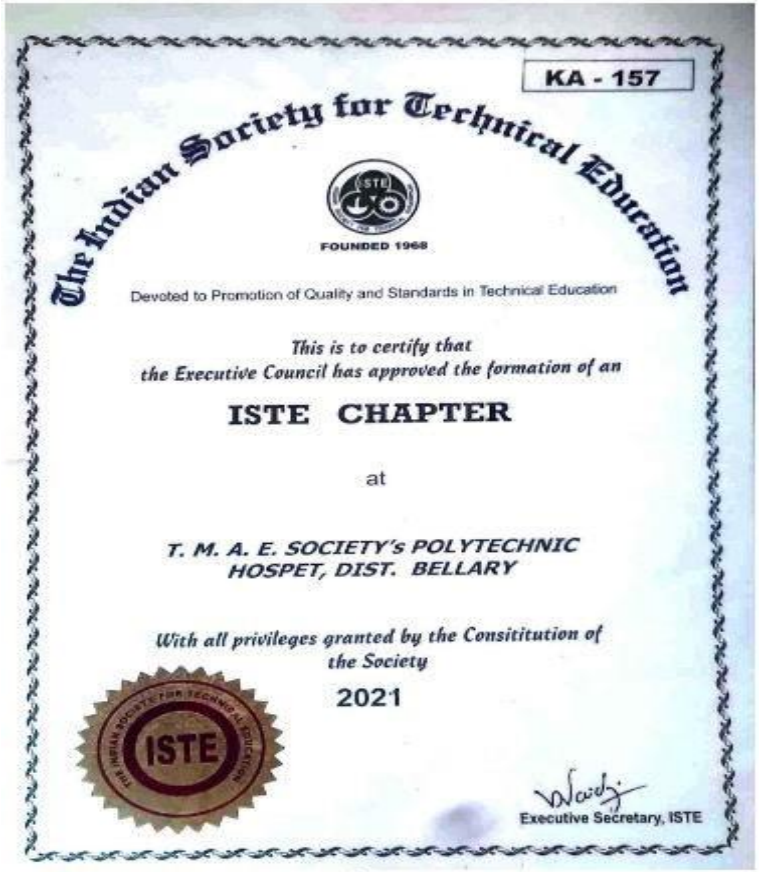
1)

InstitutionalmembershipofIndianSocietyforTechnicalEducation(ISTE).Institutio

nalMembershipNo.:IM2146

FollowingstaffmembersofE & C DepartmentarehavingLifeMembershipofISTE

Sl. No	NAMEOFTHE STAFF	Designation	MISTE NUMBER
1	Dr. HKSHANKARANANDA	SelectionGrade Lecturer	LM21414
2	Sri.MAHESHKUMARN	SelectionGrade Lecturer	LM89296
3	Sri.CHANDRASHEKARG	SelectionGrade Lecturer	LM50460
4	Sri.SADANANDAPPAN	SelectionGrade Lecturer	LM89297
5	Smt.REKHAM	SelectionGrade Lecturer	LM89298
6	Sri.CHANDRAKUMARM	Lecturer	LM89299
7	Smt.GEETAALIASGIRIJAGADED	Instructor	LM89985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the Executive Council has approved the formation of an

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T. M. A. E. SOCIETY's POLYTECHNIC
HOSPET, DIST. BELLARY

With all privileges granted by the Consititution of the Society

2021

ISTE

Executive Secretary, ISTE

NumberofstudentsRegisteredformembership:218fortheacademicyear2021-22

2)MoUwithBestowEdutrexInternationalLLP

MEMORANDUMOFUNDERSTANDING(MoU)

BETWEEN

T.M.A.E .S POLYTECHNIC
BELLARY ROAD,HOSPET-583201

&

Bestow Edutrex International LLP

Mumbai : 400 064

FOR

SKILL DEVELOPMENT PROGRAM
OUTCOME BASED TRAININGS,PLACEMENT, R&D
SERVICESANDRELATEDSERVICES

For T.M.A.E.S Polytechnic, Hospet

Name: Authorized Signatory

For Bestow Edutrex International LLP

Dr Kumardatt A Ganjre

T.M.A.E.S POLYTECHNIC	Bestow Edutrex International LLP
Bellary road ,Hospet,Vijaynagar Dist,Karnataka	S 2, 303, Malad W, Mumbai 400 064
Contact Details:9448126133	+91 9011424678
E-mail:tmeaspoly316@gmail.com	md@bestowedutrex.co.in
Web:https:\\tmaespolytechnichpt.com	www.bestowedutrex.co.in

B. Number,qualityofengineeringevents(5) **InstituteMarks:5.00**

EngineersDaywillbecelebratedonSeptember15thofeveryyearandToppersofpreviousSemesterEndExaminationsfromallthedepartmentswil lbelistedandarefelicitatedwithtrophies.Alsodistinction holdersare felicitatedwithmedals.

Thestudentsareinsistedtogetregisteredtoonlineeducationapplicationsandareencouragedtakeupcoursesoftheirinterest,suchasInfosysSpring Board,FreeLMS,etc.,

4.7.2 Publicationoftechnicalmagazines,newsletters,etc.(5)

A. Quality&RelevanceofthecontentsandPrintMaterial(3) **InstituteMarks:3.00**

Labmanualshavebeenpreparedforallthelabsbytheconcernedstaffmembers.Copiesofeachmanualismadeavailableinthedepartment.Thesema nualsarealsoissuedtostudentsforreference.Labmanualsarepreparedasperthecurriculumcontentsandarereadyreckonerfor students andareeffectivetoolfor betterunderstanding.

Byreferringthemanuals,studentscanconductexperimentseasilyandtheyhelpthemtounderstandtheconceptandprincipleandpurposeofeachexp eriment/exercise.

Publications:Ne

wsLetter:

Year	Name oftheMagazine	Editor(s)
CAYm1 2022-23	ECNewsLetter	Sri G.Chandrashekar
CAYm1 2021-22	ECNewsLetter	Smt RekhaM
CAYm2 2020-21	ECNewsLetter	MaheshKumar

DepartmentTechnicalMagazine:

Year	PublicationName	Frequency ofPublication
CAYm12023-24	ELECTRONIKA	Yearly
CAYm22022-23	ELECTRONIKA	Yearly

B. ParticipationofStudentsfromtheprogram(2) **InstituteMarks:2.00**

S. No.	DATE	Activity
1	31-05-2022	PARTICIPATIONINCOMMUNITYSERVICES (CYCLERALLY– AntiTobaccoDay)
2	14-03-2022	YOGAatCampus
3	05-06-2022	ENVIRONMENTALDAY(Plantingtrees)

7.3 Participationininter-institute/state/nationaleventsbystudentsoftheprogramofstudy(5) **InstituteMarks : 4**

Inter-Departmentalcompetitionsareconductedeveryyearandtrophiesandvariousprizesunderdifferentcategorieswillbedistributedtothewinners.Also,ourfinalyearstudentsattendDOITYOURSELFprojectexhibitionorganizedby DCTE,BengaluruTheFollowingStudentsParticipated&won**StateLevel2nd PrizeinQuizCompetition**and**3rd PrizeinPaperpresentation**in 3rdISTEStatelevelStudentconventionforPolytechnicon13/12/2022heldatGovernmentPolytechnic,Harapanahalli,Vijayanagardistrict

Sl/No	Reg No	Name	Competition	Award	Year
1	316EC20022	MohammedKaif	QuizCompetition	2nd Prize	2022
2	316EC20032	RishabPalrecha	QuizCompetition	2nd Prize	2022
3	316EC20006	B A Nafisa	Paperpresentation	3rd Prize	2022
4	316EC20028	Nazima	Paperpresentation	3rd Prize	2022

Criteria-5

FacultyInformation&contributions

5. FACULTYINFORMATIONANDCONTRIBUTIONS(150) InstituteMarks:148.00

Name	University Degree	Area ofSpecialzation	Contributiontothe Program			Research Paper Publi-cation	FacultyReceivingMtech/PhddduringAssessment year	CurrentDesignation	InitialDate ofJoining	Association Type	AtPresent Working with the Institution (yes/No)	Incase NoDateof Leaving	Is Principal ?
			CAY 2023-24	CAY m1 2022-23	CAYm2 2021-22								
Dr.HK Shankarananda	M.Tech, Phd	CompSci.	100	100	100	4	2022(Ph.D)	HOD	09-03-1992	Regular	Yes		No
Sri. NMaheshKumar	M.Tech	VLSIDsgn&EmbeddedSystem	100	100	100	1		SL.GrLect	14-07-1997	Regular	Yes		No
Sri. GChandrashek	B.E.	Comp.Sci	100	100	100	1		SL.GrLect	13-07-1998	Regular	Yes		No
Sri. NSadanandap	B.E.	E&CE	100	100	100	1		SL.GrLect	16-07-1998	Regular	Yes		No
Smt. RekhaM	B.E.	E&CE	100	100	100	1		SL.GrLect	15-11-2001	Regular	Yes		No
Sri. MChandraku	B.E.	E&CE	100	100	100	1		SL.GrLect	01-02-2012	Regular	Yes		No
Sri. TSathyanaraya	M.Sc.	Mathematics	0	25	25			SL.GrLect	19-07-1991	Regular	No	31/05/2023	No
Smt. Jotsna	M.Sc.	Physics	0	0	25			SL.GrLect	22-07-1991	Regular	No	30/06/2022	No
Sri. BHShiv	M.A.Phd	English	25	25	25	1	2019(PhD)	Lecturer	07-12-2011	Regular	Yes		No
Smt. YamunaKulk	M.A.	Kannada	25	25	25			Lecturer	18-07-2016	Regular	Yes		No
Sri. KPMallikarj	B.E.	Mech. Engg	25	25	25			SL.GrLect	06-12-1999	Regular	Yes		No
Miss.Vinutha SC	M.Tech.	D.E&Commn	0	100	100			Lecturer	20-07-2018	Regular	No	15/06/23	No
Miss.NandaK M	M.Sc.	Statistics	0	25	25			Lecturer	05-01-2021	Regular	No	31/03/23	No
SriManjunathanS	M.Tech.	DE	100	100	0			Lecturer	01-07-2022	Regular	Yes		No
SriTAnand	M.Sc	Mathematics	25	0	0			Lecturer	16-07-1991	Regular	Yes		No
SriMahesh Buddha	MSc	CompSci.	25	0	0			Lecturer	01-03-2023	Regular	Yes		No

5.1 Student-FacultyRatio(SFR)(25) **InstituteMarks:25.00**

Year	N	F	SFR=N/F
2023-24(CAY)	160	8.25	19.39
2022-23(CAYm1)	160	9.25	17.30
2021-22(CAYm2)	160	8.5	18.82

AverageSFR:19.46Assessmentm
arks :

5.1.1. Providetheinformationabouttheregularandcontractualfacultyaspertheformatmentionedbelow:

Year	Totalnumber ofregularfacultyinthedep	Totalnumberofcontractualfa cultyinthedepartment
CAY(2023-24)	12	0
CAYm1(2022-23)	13	0
CAYm2(2021-22)	13	0

5.2 FacultyQualification(25) **InstituteMarks:25.00**

5.2.1 FacultyQualificationIndex(20) **InstituteMarks:20.00**

Year	X	Y	F	FQ=2x[(10X+7Y)/F)]
2023-24	4	5	6.00	25.00
2022-23	5	5	6.00	28.33
2021-22	4	5	6.00	25.00

AverageAssessment:26.11

5.2.2 AvailabilityofFaculty/principalofthatdisciplinewithPhD.Qualification(5) **InstituteMarks:5.00**

Dr.HKShankarananda,HODofE&CDepartmenthasdonedoctoralcourse.AwardedDoctorateon6/3/2022Dr.Shivaraj
B H HODofSciDepartmenthasdonedoctoralcourse.AwardedDoctorateon / /2019

5.3 FacultyRetention(20) **InstituteMarks:20.00**

Description	2021-22(CAYm2)	2022-23(CAYm1)	2022-23(CAY)
NoofFacultyRetained	13	13	12
TotalNo ofFaculty	13	13	12
%ofFacultyRetained	100	100	100

Average:100.00

5.4 FacultyasparticipantsinFacultydevelopment/trainingactivitiesconductedbyotherorganizations(30)

InstituteMarks:30.00

Nameofthefaculty	Max5PerFaculty		
	2021-22(CAY	2022-23(CAY	2023-24(CA
DrH.K.Shankarananda	5.00	5.00	5.00
MaheshKumarN	5.00	5.00	5.00
G.ChandraShekar	5.00	5.00	5.00
N.Sadanandappa	5.00	5.00	5.00
RekhaM	5.00	5.00	5.00
MChandraKumar	5.00	5.00	5.00
VinuthaSC	5.00	5.00	-
ManjunathanS		5.00	5.00
TSathayanarayanRao	--	--	--
Jotsna	--	--	--
BHShivaraj	--	--	--
KPMallikarjuna	--	--	--
NandaKM	--	--	--
YamunaKulkarni	--	--	--
MaheshBuddha	--	--	--
Sum	35.00	40.00	35.00
RF=NumberofFacultyrequiredtocomplywith 25:1SFRas	6	6	6
Assessment[6*(Sum/0.5RF)](Markslimitedto30)	30.00	30.00	30.00

Averageassessmentover3years(Markslimitedto30):30.00

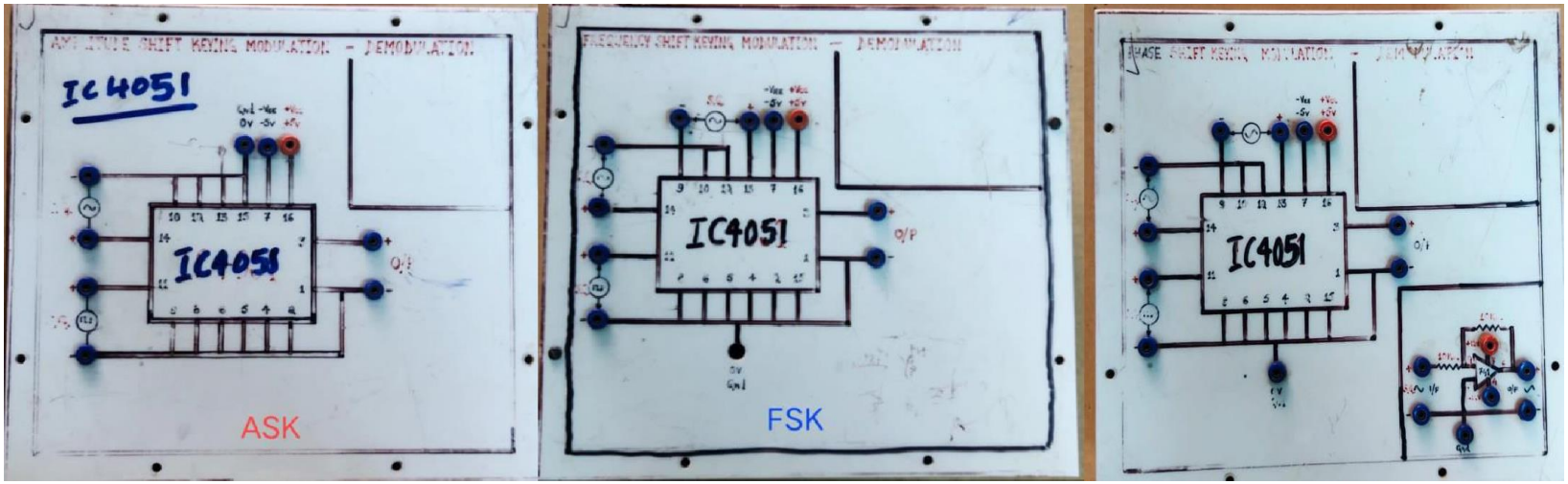
5.4.a.Organized/ConductedFDPsandSTTPbythisdepartmentatState/NationalLevel(12) **InstituteMarks:12.00**

Sl.No.	AcademicYear	TotalnumberofProgramsconducted
1	2023-24	1
2	2022-23	1
3	2021-22	2

Sl.No.	Date	NameoftheEvent	NameoftheResourcePerson
2023-24			
1	1/1/2024to5/01/24	Industry&Internet ofThings	Mr.VinayKumar&Mr.RakeshR LogicTechnologies,Kudligi
2022-23			
2	20/11/23to24/11/23	Automation&Robotics	Mr.VinayKumar&Mr.RakeshR LogicTechnologies,Kudligi
2021-20			
1	09/8/21to13/8/21	OnlineFDPAccreditationprocessforDiplomaEngineering	Dr.SGAnuradha,&Prof.RaghukumarKSRY MEC,Ballari
2	07/2/22to11/2/22	FDPon“WirelessCommunication”	Sri.UlaganathanJB ITM,Ballari Mr.RaymondIrudayrajRaylogIndustries,Ballari
2020-21			
3	18/1/21to22/1/21	Preparationof SARforNBA	Dr.MohammedRafiq,UBDTCollegeof Engineering, Davanagere,Dr.VeergangadharSwamyRYMEC,Ballari
4	15/7/21to9/7/21	OnlineFDPon“ITSKILLS	Mr.Srinath, TNITechnologies,Mysore Mr.KrishnaDK IndianGlobalSoftwareSolutions,Bengaluru

5.5 Productdevelopment,Consultancy,Manufacturingcontracts,testingcontracts(8) **InstituteMarks:7.00**

Variouselectronicslabkitsaredevelopedwiththehelpoffaculties.AmplitudeModulation,frequesncyModulation,ASK,FSK,PSKkitsareprepar edforcarryingoutdifferentexperimentsincommunicationLabs.AnIC testerisdevelopedforDigitalElectronics.



5.6 FacultyPerformanceAppraisalandDevelopmentSystem(FPADS)(30) **InstituteMarks:29.00**

A. Awell-definedFPADSinstitutedforalltheassessmentyears(5) **InstituteMarks:25.00**

FacultymembersofHigherEducationalInstitutionstodayhavevarietyoftaskspertainingtodiverseroles.Rolerelatestotheshoulderingof administrativeresponsibilitiesandco-operationwithotherFaculty,HeadsofDepartments,andtheHeadofInstitute.
AneffectiveperformanceappraisalsystemforFacultyisvitalforoptimizingthecontributionofindividualFacultytoinstitutionalperformance.

FacultyPerformanceAppraisalletteriscollectedfromeachfacultyinwhichtheyneedtoshowtheirrolesandresponsibilitiesinthedepartment.T heformatofFacultyPerformanceAppraisalletterisprovidedbyESTsection.BasedontheremarksbyHODandPrincipal,facultywill begivenappraisal intheformof increment.

Appraisalisalsobased onthecontributionofthefacultyattheDepartment/Institutelevel

1. AcademicauditcarriedbyHOD duringfirstweekofthemonthandforeverysemester.
2. Contributiontothedepartmentinthepreviousacademicyear
3. Resultofthesubjecthandled
4. RoleofStaffmemberattheinstitutelevel
5. Faultypublicationincollaboration
6. Contributiontoimprovecampusplacements/highereducationetc.

B. Itsimplementationandeffectiveness(15) **InstituteMarks:14.00**

Facultyappraisalform(Incrementform)willbeissuedtoallthefacultymembers.Theformneedstobefilledbyconcernedfacultyandtobesubmitte dtotheHOD.ItwillbeevaluatedbyHODandforwardedtotheprincipalforfurtherevaluation ofthereportandrecommendationandapproval.Ifanyunfavourablefeedbackisobtained,itwillbebroughttothenoticeofthefacultyandinsistthemt oimprovise.Thesimilarprocesswillbeadoptedforappraisalof HODbytheheadoftheinstitution.

C. Detailsofqualificationup-gradationoffaculty(10) **InstituteMarks:10.00**

Postgraduationcompletedbyfollowingfaculty:

Name:**NMaheshKumar,SelectionGradeLecturer,E&CDept**
M.Tech.inVLSI&EmbeddedSystem

Nameof theinstitute:**BallariInstituteofTechnologyandManagement**,**Ballari**
YearofCompletion:**2018**

DoctoralDegreeawardedforfollowingfaculty:Name:**Dr.**

HKShankarananda,HOD,ECDept
PhDinComputerScience,JJTUniversity,Jhunjhunu,Rajasthan

TitleofThesis:**DynamicDevelopmentofWSNtomaximisenetworklifetimeusingParticleSwarmOptimization(PSO)**
Month&YearofAward:**March2022**

Allotherteachingfacultymembersinthedepartmentareengineeringgraduates.Allthefacultieshaveparticipatedin theFDPand

differenttypesofworkshopsduringthethreeAcademicYears.(CAY,CAYm1,CAYm2).

Name:**Dr.ShivarajBH,HOD, SciDept**
PhDinEnglishLiterature,karnatakaUniversity,Dharwad

TitleofThesis:The ThemeofDe colonizationinNgugiWaThiongo'sWorks

Criteria - 6

Facilities&Technicalsupport

PartB

6. FACILITIESANDTECHNICALSUPPORT(100) InstituteMarks:95.00

6.1 Availabilityofadequate,wellequippedclassroomstomeetthecurriculumrequirements(10) Institute Marks:9.00

Thedetailsoflecturehall,seminarhall&roomsdetailsareasshownbelow.

SL.NO.	ROOMS	NUMBERS
1	LectureHalls	3
2	SeminarHalls	1
3	HODRoom	1
4	FacultyRoom	1

Room Description	Number of Rooms	Usage	Shared/ Exclusive	Capacity	RoomsEquippedwith	Adequacy
LH-7	01	1stYear(I/IISem)	Exclusive	60	Greenboard,Podium,Fans,Benches,adequatelighting.	Adequate
LH-12	01	2ndYear(III/IVSem)	Exclusive	60	Greenboard,Podium,Fans,Benches,adequatelighting.	Adequate
LH-18	01	3rdYear(I/IISem)	Exclusive	60	Greenboard,Podium,Fans,Benches,adequatelighting.	Adequate
StoreRoom	1					Adequate
HODRoom	01	AllottedforHOD	Exclusive	01	Wellfurnishedwithtable&chairs.Tubelight,fan&Laptop	Adequate
Faculty Room	01	AllottedforFaculty	Exclusive	08	Individualtablewithchairsforstaffswithracks&adequatespace.	Adequate
Seminar Hall	01	Allottedforallthestudentswho havePPT, conductseminarsandguestlectures	Shared	80	Whiteboard,adequatelighting,fans,benches,computersystem,podium&overhead projector	Adequate

6.2 Availabilityofadequateandwell-equippedworkshops,LaboratoriesandTechnicalmanpowertomeetthecurriculumrequirements(40) InstituteMarks:38.00

(Odd Sem2020-21)

Sl. No	Nameof thelaboratory	Carpetarea	No. of students/ batch	Nameof theimportantequipment	Weeklyutilization	Technicalmanpower support		
						Nameof the staff	Designation	Qualification
1	CAEGLab (Computerlab)	6.7X6.9= 46.23m	22	PC,printer,UPSwithbatteries	6 days/week	KPMallikarjuna	Sl.Gr. Lecturer	BE(ME)
2	FEEElab (EClab)	8.9X4.9= 43.61m	22	RPS, CRO,signal/functiongenerators,meters, DCB,DRB,DIB	6 days/week	Arunkumar T	Asst. Instructor	DE & CE
3	AnalogElectronics&Commnlab	8.8x4.9=43.61m	20	RPS, CRO,signal/functiongenerators,meters	6 days/week	Arunkumar T	Asst. Instructor	DE & CE
4	DigitalElectronicsLab-2(Digitallab)	8.9x4.9=43.61m	20	Digitaltrainerkits,ICtester	6 days/week	B Parameshwarappa	Mech	ITI
5	C-Progg. Lab(Computerl	6.7X6.9=46.23 m	22	PC,printer,UPSwithbatteries	6 days/week	Smt.GeethaGaded	Instructor	BE(CSc)
6	ARM Controllerlab(Computerlab)	6.7X6.9=46.23 m	22	PC,printer, DCmotor,steppermotor,LCDdisplaykits,UPSwithbatteries	Digitaltrainerkits,ICtester	Smt. GeethaGaded	Instructor	BE(C Sc)
7	PCBdesign&fabricationlab(Computerlab)	6.7X6.9=46.23 m	22	PC,printer,UPSwithbatteries	6 days/week	Smt.GeethaGaded	Instructor	BE(CSc)
8	Electronicsservicinglab(Computerlab)	6.7X6.9=46.23 m	22	PC,printer,UPSwithbatteries	6 days/week	Arunkumar T	Asst. Instructor	DE & CE

9	Projectwork-1	AllLabs		RPS, CRO,signal/functio ngenerators,meters PC,printer,UPSwith		ArunkumarT B Parameshwarappa	Asst.Ins Mech	DE & CE ITI

(EvenSem2020-21)

Sl. No	Nameof thelaboratory	Carpetarea	No. of students/ batch	Nameof theimportantequipmen	Weeklyutilization	Technicalmanpower support		
						Nameof the staff	Designation	Qualification
1	IT Skills(Comput	(Computerlab)	(Computer lab)	(Computerlab)	(Computer lab)	(Computerlab)	(Computer lab)	(Computer lab)
2	ElectronicComponents&Deviceslab(Analoglab)	8.9X4.9=43.61m	18	RPS, CRO, signal/functiongenerators,meters	6 days/week	ArunkumarT	Asst. Instructor	DE & CE
3	Professional practices(Digitallab)	8.9x4.9=43.61m	20	Digitaltrainerkits,ICtester	6 days/week	B Parameshwarappa	Mech	ITI
4	Microcontroller Lab (Computerlab)	6.7X6.9=46.23m	22	PC,printer,UPSwithbatteries	6 days/week	Smt. GeethaGaded	Instructor	BE(C Sc)
5	DC & N Lab(Computerl	6.7X6.9=46.23m	22	PC,printer,UPSwithbatteries	6 days/week	Smt. GeethaGaded	Instructor	BE(C Sc)
6	IndustrialAutomation(Analog/Computer Lab)	8.9X4.9=43.61m/6.7X6.9=46.23m		RPS, CRO, signal/functiongenerators,meters	6 days/week	ArunkumarT	Asst. Instructor	DE & CE
7	VerilogLabComputerLab	6.7X6.9=46.23m	22	PC,printer,UPSwithbatteries	6 days/week	Smt. GeethaGaded	Instructor	BE(C Sc)
8	Project-II	AllLabs		RPS, CRO,signal/functiongenerators,meters PC,printer,UPSwith		ArunkumarT B Parameshwarappa	Asst.Ins Mech	DE & CE ITI

(Odd Sem2021-22)

Sl. No	Nameof thelaboratory	Carpetarea	No. of students /batch	Nameof theimportantequipment	Weeklyutilization	Technicalmanpower support		
						Nameof the staff	Designation	Qualification
1	CAEGLab (Computerlab)	6.7X6.9=46.23 m	22	PC,printer,UPSwithbatteries	6 days/week	KP Mallikarjuna	Sl.Gr. Lecturer	BE(ME)
2	FEEElab (EClab)	8.9X4.9=43.61 m	22	RPS, CRO,signal/functiongenerators,meters, DCB,	6 days/week	ArunkumarT	Asst. Instructor	DE & CE
3	AnalogElectronics(ECLab)	8.8x4.9=43.61m	20	RPS, CRO, signal/functionge nerators,meters	6 days/week	ArunkumarT	Asst. Instructor	DE & CE
4	LogicDesign UsingVerilog(Computerlab)	6.7X6.9=46.23 m	22	PC,printer,UPSwithbatteries	6 days/week	Smt. GeethaGaded	Instructor	BE(CSc)
5	Communication Systems.(Commn,Lab)	6.7X6.9=46.23 m	22	PC,printer,UPSwithbatteries	6 days/week	B Parameshwarappa	Asst.Mech	ITI
6	EMTT	8.9X4.9=43.61 m	22	RPS, CRO, signal/functiongenerators ,meters, DCB,DRB,DIB	6 days/week	ArunkumarT	Asst. Instructor	DE & CE
7	ARM Controllerlab(Computerlab)	6.7X6.9=46.23 m	22	PC,printer, DCmotor,steppermotor,LCDdisplaykits,UPS withbatteries	Digitaltrainerkits,ICtester	Smt. GeethaGaded	Instructor	BE(CSc)
8	PCBdesign&fabricationlab(Computerlab)	6.7X6.9=46.23 m	22	PC,printer,UPSwithbatteries	6 days/week	Smt. GeethaGaded	Instructor	BE(CSc)
9	Electronicsservicinglab(Computerlab)	6.7X6.9=46.23 m	22	PC,printer,UPSwithbatteries	6 days/week	ArunkumarT	Asst. Instructor	DE & CE
10	Projectwork-1	AllLabs		RPS, CRO,signal/functiongenerators,metersPC,printer, UPSwithbatteries,		ArunkumarT B Parameshwarappa	Asst.Ins Mech	DE & CE ITI

(EvenSem2021-22)

Sl. No	Nameof thelaboratory	Carpetarea	No. of students/batch	Nameof theimportantequipmen	Weeklyutilization	Technicalmanpower support		
						Nameof the staff	Designation	Qualification
1	IT Skills(Comput	(Computerlab)	(Computer lab)	(Computerlab)	(Computer lab)	(Computerlab)	(Computer lab)	(Computer lab)
2	ElectronicComponents&Deviceslab(Analoglab)	8.9X4.9=43.61 m	18	RPS, CRO, signal/functiongenerators,meters	6 days/week	ArunkumarT	Asst. Instructor	DE & CE
3	PCBDesign&Fabrication(Computerlab)	6.7X6.9=46.23 m	22	PC,printer,UPSwithbatteries	6 days/week	Smt. GeethaGaded	Instructor	BE(C Sc)
4	Wirelesscommn(Commn,Lab)	6.7X6.9=46.23 m	22	PC,printer,UPSwithbatteries	6 days/week	B Parameshwarappa	Asst.Mech	ITI
5	EmbeddedCProg(Computerlab)	6.7X6.9=46.23 m	22	PC,printer,UPSwithbatteries	6 days/week	Smt. GeethaGaded	Instructor	BE(C Sc)
6	IndustrialAutomation(Analog/ComputerLab)	8.9X4.9=43.61 m/6.7X6.9=46.23m		RPS, CRO, signal/functiongenerators,meters	6 days/week	ArunkumarT	Asst. Instructor	DE & CE
7	IndustrialAutomation(Analog/ComputerLab)	8.9X4.9=43.61 m/6.7X6.9=46.23m		RPS, CRO, signal/functiongenerators,meters	6 days/week	ArunkumarT	Asst. Instructor	DE & CE
8	VerilogLabComputerLab	6.7X6.9=46.23 m	22	PC,printer,UPSwithbatteries	6 days/week	Smt. GeethaGaded	Instructor	BE(C Sc)
9	Project-II	AllLabs		RPS, CRO,signal/functiongenerators,meters PC,printer,UPSwith		ArunkumarT B Parameshwarappa	Asst.Ins Mech	DE & CE ITI

(Odd Sem2022-23)

Sl. No	Nameof thelaboratory	Carpetarea	No. of students/batch	Nameof theimportantequipment	Weeklyutilization	Technicalmanpower support		
						Nameof the staff	Designation	Qualification
1	CAEGLab (Computerlab)	6.7X6.9=46.23 m	22	PC,printer,UPSwithbatteries	6 days/week	KPMallikarjuna	Sl.Gr. Lecturer	BE(ME)
2	FEEElab (EClab)	8.9X4.9=43.61 m	22	RPS, CRO,signal/functiongenerators,meters, DCB,DRB,DIB	6 days/week	Arunkumar T	Asst. Instructor	DE & CE
3	AnalogElectronics (EC lab)	8.8x4.9=43.61m	20	RPS, CRO, signal/functionge nerators,meters	6 days/week	Arunkumar T	Asst. Instructor	DE & CE
4	LogicDesign UsingVerilog(Computerlab)	6.7X6.9=46.23 m	22	PC,printer,UPSwithbatteries	6 days/week	Smt.GeethaGaded	Instructor	BE(CSc)
5	Communication Systems.(Com mn,Lab)	6.7X6.9=46.23 m	22	PC,printer,UPSwithbatteries	6 days/week	B Parameshwarappa	Asst.Mech	ITI
6	EMTT	8.9X4.9=43.61 m	22	RPS, CRO, signal/functiongenerators,meters,DCB,DRB,DIB	6 days/week	Arunkumar T	Asst. Instructor	DE & CE
7	A&R(Computer, Lab)	6.7X6.9=46.23 m	22	PC,printer,UPSwithbatteries	6 days/week	Smt.GeethaGaded	Instructor	BE(CSc)

(EvenSem2022-23)

Sl. No	Nameof thelaboratory	Carpetarea	No. of students/batch	Nameof theimportantequipmen	Weeklyutilization	Technicalmanpower support		
						Nameof the staff	Designation	Qualification
1	IT Skills(Comput	(Computerlab)	(Computer lab)	(Computerlab)	(Computer lab)	(Computerlab)	(Computer lab)	(Computer lab)
2	ElectronicComponents&Devicеslab(Analoglab)	8.9X4.9 =43.61m	18	RPS, CRO, signal/functiongenerators,meters	6 days/week	ArunkumarT	Asst. Instructor	DE & CE
3	PCBDesign&Fabrication(Computerlab)	6.7X6.9 =46.23m	22	PC,printer,UPSwithbatteries	6 days/week	Smt. GeethaGaded	Instructor	BE(C Sc)
4	Wirelesscommn(Commn,Lab)	6.7X6.9 = 46.23m	22	PC,printer,UPSwithbatteries	6 days/week	B Parameshwarappa	Asst.Mech	ITI
5	EmbeddedCProg(Computerlab)	6.7X6.9 =46.23m	22	PC,printer,UPSwithbatteries	6 days/week	Smt. GeethaGaded	Instructor	BE(C Sc)
6	Industrial Automation	8.9X4.9 =43.61m	22	RPS, CRO, signal/functiongenerators,meters	6 days/week	ArunkumarT	Asst. Instructor	DE & CE
7	Project/Internship	AllLabs		RPS, CRO,signal/functiongenerators,meters PC,printer,UPSwith		ArunkumarT B Parameshwarappa	Asst.Ins Mech	DE & CE ITI

(Odd Sem2023-24)

Sl. No	Nameof thelaboratory	Carpetarea	No. of students/batch	Nameof theimportantequipment	Weeklyutilization	Technicalmanpower support		
						Nameof the staff	Designation	Qualification
1	CAEGLab (Computerlab)	6.7X6.9=46.23 m	22	PC,printer,UPSwithbatteries	6 days/week	KPMallikarjuna	Sl.Gr. Lecturer	BE(ME)
2	FEEElab (EClab)	8.9X4.9=43.61 m	23	RPS, CRO,signal/functiongenerators,meters, DCB,DRB,DIB	6 days/week	Arunkumar T	Asst. Instructor	DE & CE
3	AnalogElectronics (EC lab)	8.8x4.9=43.61m	18	RPS, CRO, signal/functiongenerators,meters	6 days/week	Arunkumar T	Asst. Instructor	DE & CE
4	LogicDesign UsingVerilog(Computerlab)	6.7X6.9=46.23 m	18	PC,printer,UPSwithbatteries	6 days/week	Smt.GeethaGaded	Instructor	BE(CSc)
5	Communication Systems.(Commn,Lab)	6.7X6.9=46.23 m	18	PC,printer,UPSwithbatteries	6 days/week	B Parameshwarappa	Asst.Mech	ITI
6	EMTT	8.9X4.9=43.61 m	18	RPS, CRO, signal/functiongenerators,meters,DCB,DRB,DIB	6 days/week	Arunkumar T	Asst. Instructor	DE & CE
7	A&R(Computer, Lab)	6.7X6.9=46.23 m	18	PC,printer,UPSwithbatteries	6 days/week	Smt.GeethaGaded	Instructor	BE(CSc)

(EvenSem2023-24)

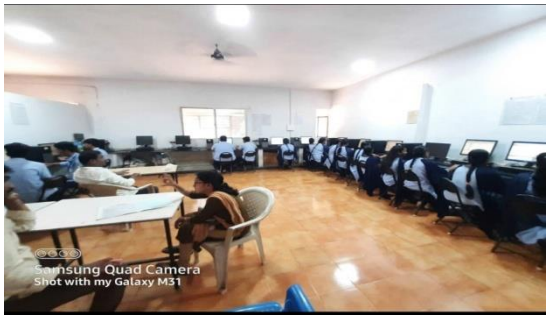
Sl. No	Nameof thelaboratory	Carpetarea	No. of students/batch	Nameof theimportantequipmen	Weeklyutilization	Technicalmanpower support		
						Nameof the staff	Designation	Qualification
1	IT Skills(Comput	(Computerlab)	(Computer lab)	(Computerlab)	(Computer lab)	(Computerlab)	(Computer lab)	(Computer lab)
2	ElectronicComponents&Devicеslab(Analoglab)	8.9X4.9 =43.61m	23	RPS, CRO, signal/functiongenerators,meters	6 days/week	ArunkumarT	Asst. Instructor	DE & CE
3	PCBDesign&Fabrication(Computerlab)	6.7X6.9 =46.23m	18	PC,printer,UPSwithbatteries	6 days/week	Smt. GeethaGaded	Instructor	BE(C Sc)
4	Wirelesscommn(Commn,Lab)	6.7X6.9 = 46.23m	18	PC,printer,UPSwithbatteries	6 days/week	B Parameshwarappa	Asst.Mech	ITI
5	EmbeddedCProg(Computerlab)	6.7X6.9 =46.23m	18	PC,printer,UPSwithbatteries	6 days/week	Smt. GeethaGaded	Instructor	BE(C Sc)
6	Industrial Automation	8.9X4.9 =43.61m	18	RPS, CRO, signal/functiongenerators,meters	6 days/week	ArunkumarT	Asst. Instructor	DE & CE
7	Project/Internship	AllLabs		RPS, CRO,signal/functiongenerators,meters PC,printer,UPSwith		ArunkumarT B Parameshwarappa	Asst.Ins Mech	DE & CE ITI

A. Adequacy(10) **InstituteMarks:10.00**

1. Departmenthasprovidedsufficientlabstolearnacademiccourses.
2. Allthepracticallabsareprovidedwithsufficienttechnicalstafftocompletesyllabuswithintheprescribedtime.
3. Technicalfacilityandsupportavailablearehelpfultoprovidequalityeducation;thiswillfacilitatesthestudentstogainthesufficientknowledge.
4. Studentsareabletoperformtheinnovativeandperformedactivitythroughouttheprogram.
5. Thecomputerlabisprovidedwith1:2ratiostothestudents.
6. Thespecificationoftheapparatusmeetswiththestandards.

B. QualityofLabs/workshop(20) **Institute Marks:18.00**

1. Labsarespacious forconductingtheexperimentstimely.
2. Laboratoryexperimentalequipmentsandtestkitsarereliableandaccuratewithperiodicmaintenance.
3. Properlightingandventilationisprovidedineverylab.
4. Informativenoticeboardcontainingsafetymeasures.
5. LEDprojectoris providedfor computerlab.
6. Each labisequippedwithfireextinguishersandfirst aid box.
7. Stockverificationisdonefor every yearto confirm theavailabilityandworkingcondition of theequipment.



C. TechnicalManpowersupport–EligibleandAdequate(10) **InstituteMarks:10.00**

- Thedepartmenthasadequatewellexperiencedtechnicalsupportstaffforalllaboratoriestosupportandassistteachingfacultiesinconductionoflabs.Theyalsoinvolvedinrepairworksofequipments.
- Thetechnicalstaffsarewellqualifiedandtheycanmonitortheequipmentsregularlytoavoiddeficiency.Welltechnicalstaffsareavailableformaintenanceofelectronicequipmentsandsoftware.

SL.NO.	Laboratory	No.ofstaff
1	ElectronicsLabs	1+1+1=3 (Instructor,AsstInstructor,Mechanic)
2	Computerlab	1
3	Seminarhall	1

Sl. No.	Nameof theTechnicalsupp	Designation	Dateofjoining
1	Smt.GeethaGaded	Instructor	02/07/1990
2	Sri.TArunKumar	Asst.Instructor	05/03/1992
3	Sri.BParameshwarappa	Mechanic	01/07/1991

6.3 Additionalfacilitiescreatedforimprovingthequalityoflearningexperienceinlaboratories(20) **Institute Marks:19.00**

A. Facilities(10) **InstituteMarks:9.00**

SL.NO.	Facilityname	Detailsoffacility
1	Solarpanel	Solarpanel,UPSwithbattery
2	Departmentlibrary	Havingcollectionoftextbooks,CD'sforallsemestersandprojectreportsarekeptindept.
3	Charts	SomeoftheE&CEngineering.Chartsaredisplayedinthelabs
4	OldprojectsofE&C Engineering.	BetteroldprojectsofE &C Engineering.Arekeptfor furtherstudiesabouttheirprojects

B. EffectiveUtilization(5) **InstituteMarks:5.00**

Itisnecessaryforthetechnicalstudentstoexploreadvancedtechnologyratherthanprescribedinformationbycreatingstateofartofcentersforthead vancedlearning.

1) Theentirefacilitiesaremadeavailabletothestudentsinregularacademicsweekly2to3hrsforeachbatchtomakesurethemtolearnpractically.
2) Thesefacilitieshasextendedacademicallytofacilitatethestudentsto build advancedlearningcapabilities

SL. NO.	Facilityname	Details of facility	Reasonforcreatingfacility	Utilization	Quality oflearningexperience	
					Areainwhich thestudentsareexpectedto have enhancedlearning	Relevance toPO/PSO
1	Solarpanel	Solarpanel, UPS withbattery	Fromthis facilitythestudentscangainthekno wledge ofsolar cells,solarpanelinstallationand howthenonconventional energy isutilizedindomesticandelectricala	Students ofallsemesters	Studentsareabletolearnaboutapplications ofsemiconductordevicessuchassolarcell, solarpanel, UPS	PO1' PO2
2	Department library	Havingcollection of textbooks, CD's forallsemestersandprojectreports arekeptindept.	Togaindeepknowledgeofconcept usinga referencebooks&CD's forallcourses,seminar,laboratoryprojects	Students ofallsemesters	Studentlearning process	PO1, PO2,PO3,PO4, PO5, PO6
3	Charts	Some of the E & CEngg.Chartsaredis playedinthelabs	Togivebetterunderstanding oftheelectronicscomponents&communication, networking, PLC	Students ofallthese mesters	Inallthecoursesof E & C Engg.From Sem1 to Sem6	PO1, PO2, PO8
4	Oldprojectsof E & C Engg.	BetteroldprojectsofE & C Engg. Arekeptfor further studies abouttheirprojects	Innovationof theexistingprojectsandlearningexperiencefor 5th&6thsemstudents	Usedby thepresentbatches forinnovationintherelated projects	Innovativeprojects	PO1. PO2, PO4, PO8

C. RelevancetoPOs/PSOs(5) **InstituteMarks:5.00**

SOLARPANELDEPARTM	PO1,PO2
ENT	PO1,PO2,PO3,PO4,PO5,PO6P
LIBRARYWALLCHARTS	O1, PO2, PO8
OLDPROJECTREPORTS&MODELS	PO1.PO2,PO4,PO8

6.4 Laboratories:Maintenanceandoverallambiance(10)

InstituteMarks:10.00MaintenanceofLaboratoryEquipments

- Eachlabisneatlymaintainedbyregularhousekeeping
- RegularcheckingofequipmentiscarriedoutattheendofeverysemesterandbeforethestartofeverysemesterInformativenoticeboardcontainingsafety,DO's& Don'ts isproperlymaintained
- WelltechnicalstaffsareavailableformaintenanceofelectronicequipmentsandsoftwareMaintenanceofprintersisbeingdoneforevery6months
- AllnecessaryPCsystem'sregularsoftwarelikeMSOffice,labsoftware,antivirussoftwareetc,isinstalledandmaintainedLEDprojectors are providedforcomputerlaboratory
- Eachlabequippedwithfireextinguisherequipmentsandfirstaidkits
- Stockverificationisdoneforeveryyeartoconfirmtheavailabilityandworkingconditionoftheequipment

OverallAmbiance

- Departmenthaswellfurnishedwithwellequippedequipmentswhichshallusedbyallthecoursesaspercurriculumrequirements Conditions of chairs/benches/stoolsarein goodcondition
- Allthelabsareconductedandevaluatedeveryweek
- Allthelaboratorieshavesufficientnaturallight,goodventilationwithtubesandfanarrangementssufficientnumberofwindowsareavailableforventilationandnaturallightandeverylabhasoneexiteach lab is provided withblack board
- Computerlabisprovidedwithwhiteboard,internetfacility

Aregisterismaintainedinthedepartmenttorecordthemaintenanceworkattendedasperttheschedule.Theformatofmaintenancerecordisshowbelow.

(2019-20)

Sl. No.	Nameof thelaboratory	Nameof theimportantsystem/equipment.	Log bookmaintained(Y/N)	Overhauling/servicedate	Maintenanceschedule	
					Typeofservice	Due datefor maintenance
1	Computerlab	PCsystems	Y	27/03/2019,24/09/2019	Refurbishingandcleaning,installation ofantiviruss/w forproperrunning	22/03/2020
2	Computerlab	UPSwithbatteries	Y	28//01/2019,24/06/2019	UPSbatteriesarecleanedandcheckingthewaterandvoltagelevels	28/11/2019
3	Computerlab	Printer	Y	29/04/2019,02/10/2019	Checkingthecartridgeoftheprinterandcleaning	25/05/2020
4	Analoglab	Signal/functiong enerators, RPS,Meters	Y	08/03/2019,10/09/2019	Any looseconnections,knob adjustment,metermovementadjustment&manualc	22/03/2020
5	Analoglab	CROs andanalogexperimentalkits	Y	29/04/2019,02/10/2019	Allthefrontpanel knobadjustment,display adjustment,powercordcheckingandcleaning	25/05/2020
6	Analoglab	Powerelectronics kits,Workingmodels,PLCkits	Y	28//01/2019,24/06/2019	Checkingfor looseconnections,circuitconnections,minorrepairs	28/11/2019
7	Digitallab	ICtrainerkits,ICtester	Y	27/03/2019,24/09/2019 22/03/2020	Checkingfor looseconnections,sockets,minorrepairs	22/03/2020

(2020-21)

Sl. No.	Nameof thelaboratory	Nameof theimportantsystem/equipment.	Log bookmaintained(Y/N)	Overhauling/servicedate	Maintenanceschedule	
					Typeofservice	Due datefor maintenance
1	Computerlab	PCsystems	Y	22/03/2020,29/09/2020	Refurbishingandcleaning,installation ofantiviruss/w forproperrunning	29/03/2021
2	Computerlab	UPSwithbatteries	Y	28/11/2019. 24/04/2020	UPSbatteriesareclean edandcheckingthewat erandvoltagelevels	28/09/2020
3	Computerlab	Printer	Y	25/05/2020,27/11/2020	Checkingthecartridgeof theprinterandcleaning	30/08/2021
4	Analoglab	Signal/functiong enerators, RPS,Meters	Y	22/03/2020,29/09/2020	Any looseconnections,knob adjustment,metermovem entadjustment&manualc	02/03/2021
5	Analoglab	CROs andanalogexperi mentalkits	Y	25/05/2020,27/11/2020	Allthefrontpanel knobadjustment,display adjustment,powercordc heckingandcleaning	30/08/2021
6	Analoglab	Powerelectronics kits,Workingmod els,PLCkits	Y	28/11/2019.24/04/2020	Checkingfor looseconnections,ci rcuitconnections,mi norrepairs	28/09/2020
7	Digitallab	ICtrainerkits,ICte ster	Y	22/03/2020,29/09/2020	Checkingfor looseconnections,soc kets,minorrepairs	29/03/2021

(2021-22)

Sl. No.	Nameof thelaboratory	Nameof theimportantsystem/equipment.	Log bookmaintained(Y/N)	Overhauling/servicedate	Maintenanceschedule	
					Typeofservice	Due datefor maintenance
1	Computerlab	PCsystems	Y	29/03/2021, 27/09/2021	Refurbishingandcleaning,installation ofantiviruss/w forproperrunning	27/03/2022
2	Computerlab	UPSwithbatteries	Y	28/09/2020,25/02/2021	UPSbatteriesarecleanedandcheckingthewaterandvoltagelevels	30/07/2021
3	Computerlab	Printer	Y	30/08/2021,25/01/2022	Checkingthecartridgeoftheprinterandcleaning	26/07/2022
4	Analoglab	Signal/functiong enerators, RPS,Meters	Y	02/03/2021,06/09/2021	Any looseconnections,knob adjustment,metermovementadjustment&manualc	08/03/2022
5	Analoglab	CROs andanalogexperimentalkits	Y	30/08/2021,25/01/2022	Allthefrontpanel knobadjustment,display adjustment,powercordcheckingandcleaning	26/07/2022
6	Analoglab	Powerelectronics kits,Workingmodels,PLCkits	Y	28/09/2020,25/02/2021	Checkingfor looseconnections,circuitconnections,minorrepairs	30/07/2021
7	Digitallab	ICtrainerkits,ICtester	Y	29/03/2021,27/09/2021	Checkingfor looseconnections,sockets,minorrepairs	27/03/2022

(2022-23)

Sl. No.	Nameof thelaboratory	Nameof theimportantsystem/equipment.	Log bookmaintained(Y/N)	Overhauling/servicedate	Maintenanceschedule	
					Typeofservice	Due datefor maintenance
1	Computerlab	PCsystems	Y	29/09/2022, 27/03/2023	Refurbishingandcleaning,installation ofantiviruss/w forproperrunning	27/09/2023
2	Computerlab	UPSwithbatteries	Y	28/12/2022, 27/6/2023	UPSbatteriesarecleanedandcheckingthewaterandvoltagelevels	26/12/2023
3	Computerlab	Printer	Y	02/01/2023,26/07/2023	Checkingthecartridgeoftheprinterandcleaning	25/01/2024
4	Analoglab	Signal/functiongenerators, RPS,Meters	Y	13/09/2022,25/03/2023	Any looseconnections,knobadjustment,metermovementadjustment&manualc	25/09/2023
5	Analoglab	CROs andanalogexperimentalkits	Y	02/01/2023,26/07/2023	Allthefrontpanel knobadjustment,displayadjustment,powercordcheckingandcleaning	25/01/2024
6	Analoglab	Powerelectronics kits,Workingmodels,PLCkits	Y	28/12/2022,27/6/2023	Checkingfor looseconnections,circuitconnections,minorrepairs	26/12/2023
7	Digitallab	ICtrainerkits,ICtester	Y	29/09/2022,27/03/2023	Checkingfor looseconnections,socketsminorrepairs	27/09/2023

(2023-24)

Sl. No.	Nameof thelaboratory	Nameof theimportantsystem/equipment.	Log bookmaintained(Y/N)	Overhauling/servicedate	Maintenanceschedule	
					Typeofservice	Due datefor maintenance
1	Computerlab	PCsystems	Y	02/10/2023, 25/04/2024	Refurbishingandcleaning,installation ofantiviruss/w forproperrunning	24/10/2024
2	Computerlab	UPSwithbatteries	Y	28/12/2023, 01/7/2023	UPSbatteriesarecleanedandcheckingthewaterandvoltagelevels	01/03/2024
3	Computerlab	Printer	Y	26/01/2024,25/06/2024	Checkingthecartridgeoftheprinterandcleaning	22/12/2024
4	Analoglab	Signal/functiong enerators, RPS,Meters	Y	26/09/2023,22/03/2024	Any looseconnections,knob adjustment,metermovementadjustment&manualc	25/10/2024
5	Analoglab	CROs andanalogexperimentalkits	Y	10/01/2024,20/07/2024	Allthefrontpanel knobadjustment,display adjustment,powercordcheckingandcleaning	2/03/2024
6	Analoglab	Powerelectronics kits,Workingmodels,PLCkits	Y	28/12/2023,25/6/2024	Checkingfor looseconnections,circuitconnections,minorrepairs	20/12/2024
7	Digitallab	ICtrainerkits,ICtester	Y	29/09/2023,20/03/2024	Checkingfor looseconnections,socketsminorrepairs	13/09/2024

6.5 Availabilityofcomputingfacilityinthedepartment(10) **Institute Marks:10.00**

Sr. No	NoOfComputer terminals	Students Computer Ratio	DetailsofLegalSoftware	DetailsofNetworking	DetailsofPrinters,Scannersetc.
1	20	1:1	Windows 7	StandAlone	CANONLBP2900B

6.6 Languagelab(10) **InstituteMarks:9.00**

Afull-fledgeddigitallanguagelabwith20studentconsolesisavailablefordevelopingcommunicationskillsof ourstudents.ThefouressentialskillsofListening,Speaking,ReadingandWritingareimpartedsystematicallywithactivitiesthatrequiretheirusean daredesignedtosupportinprocess of acquiringcommunicationskillssetsquickly

Details of LanguageLab:

Detailsofcomputerspecifications	No.ofcomputersavailable	No.of Teacher console	No.of Students console
CuteECOCPUVIEWSonicIntelAtom330processor,2GBRAM,320GBHarddiscdrive,wifi,nvidiagraphics/HDMI&DUI/USB3.0Windows-7installed. ZebsterLEDmonitor15.6“HPkeyboard&mouse	20	1	20

Features ofLanguage lab

- Elementary,intermediateandadvancedschoollevel
- Professioncommunication skill development
- Phonetics-GeneralEnglish
- Conversation-GeneralEnglish, IntelligibleEnglish,Globalcommunicative
- Grammar-English
- Professionalcommunicationlab-Skills,presentationskills group discussion,Interviews,Publicspeaking,email soft skills etc.
- Aptitude& GK

Utilization of language lab

- Languagelabslots havebeenallottedinthetimetablefor 1and 2 Sem students
- A syllabus for"Communication Skills" isfollowedasset by BTE&labswithall be conductedaccordingly

Criteria - 7

Continuous Improvement

7. CONTINOUSIMPROVEMENT (75) InstituteMarks:62.00

7.1 Actionstakenbasedontheresults ofevaluationofeachofthePOsandPSOs(25) InstituteMarks:20.00

POsAttainmentLevelsandActionsforImprovement-(2022-23)

POs	TargetLevel	AttainmentLevel	Observations
PO1:BasicandDisciplinespecificknowledge			
PO1	2.89	2.47	Electronicsandcommunicationengineeringcurriculumrequires the strongfoundationof theoreticalandpracticalknowledgeofscienceandmathematics,whichthestudentsstudyintheirfirstyear,butstudent'slagsin correlatingthetheoretical

ACTION1: Tutorialsbasedon real applicationinclusion of simulationsoftwareinteachinglearningprocess.
ACTION2: Weinspirestudentstoparticipateintechnicalevents,otherevents wheretheir basicknowledge should converttoapplicationmatchingwithdefinedleveloftheirstandards

PO2:Problemanalysis

PO2	2.2	1.88	Theproblemsolvingandanalyzingskillsgainedthroughfirstandsecondyearcourseshelpsthestudentstoapplyinrealtimeapplication.

ACTION1:Studentsareencouragedtoobserve,theirhomesandsurroundingstogaininsightintoreallifeengineeringproblemsandthink of possibleapproaches/solutionstotheseproblems.

PO3:Design/developmentofsolutions

PO3	2.13	1.93	Someoftheprojectsdevelopedbythestudentashobbyprojects/majorprojects(finalyear)arenotfullyconsidering the socialandenvironmentalissues.

ACTION1:Studentsaremotivatedtoincludeallstandardparametersandconstraintsaccordingto NationalandInternationalsafetynormsandtoaddressenvironmentalconcerns

PO4:EngineeringTools,ExperimentationandTesting

PO4	2.78	2.39	Itisobservedthatmostoftheprojectabstractandliteraturesurveyareaddressingtheresearchbasedapproach butdoesnotendwithvalidconclusions.

ACTION1:Academicworkshopsarecomingintopicturetoapplymoreknowledgeintermsofconductionofexperimentsandanalysisofresultsatrequiredlevel.

PO5:Engineeringpracticesforsociety,sustainabilityandenvironment

PO5	2.07	1.66	ItisobservedthatUp-gradationsoftoolsandresourcesarenecessarytomeettheindustrystandardsandresearch.

ACTION1:ModernlabsaredevelopedtodemonstratetheuseofModerntoolslikeMATLAB,Arduino,LabView,Cadenceetc.tospecifyfulfillmentofrequirementinengineeringapplicationsinnewindustrial era.

PO6:ProjectManagement

PO6	2.37	2.18	ThecoursesofElectronicsandcommunicationEngineeringareaddressingtheneedsof,health,safetyandsocialconcernsregardingengineeringpracticesinreallife.

ACTION1:Tounderstandthesafetyconcernsandsocialaspects,studentsvisitedindustrytoexpandtheirpracticalknowledgewiththeeffectofimprovedpracticesinengineering.

PO7:Life-longlearning

PO7	2.43	2.13	Theissuesofglobalandenvironmentalawarenessamongthestudentshouldbeimproved. The final year courses of the program aredemonstratingtheresourcefor
Studentsareencouragedtoindulgeinprojects,inwhichglobalandenvironmentalissuesareimproved,withrespecttoconsumptionofenergyandutilizationofrenewableenergyresources.			

PSOsAttainmentLevels andActionsforImprovement-(2020-21)

PSOs	TargetLevel	AttainmentLevel	Observations

PSO1: Applyprinciplesofmathematics,communication,automationandlogiccontroltoanalyzedifferenttypesofsignalsandswitchingoperations.

PSO1	2.47	2.09	Thecourses of theprogram aredemonstratingtheresourcefullnessforcontemporary issues. Theprojecttitlesofthefinalyearandpre-
ACTION1:Studentsaremotivatedtotakeupthereallifeproblemsduringtheirprojectworksothattheycandesign,analyzeandfindsolutionwhichgivesexposuretolatesttechnologies			

PSO2: Analyze,Synthesizetheanalog&digitalcircuits&toadaptforrapidchangesintoolsandtechnologythroughlife-longlearning.

PSO2	2.61	2.18	Usageofdifferenttoolsanddesignsareusedto,develop/implement,test,manufactureandmaintaintheelectronics systems for consumerelectronics/telecommunication/opticalcommunication/automobile/Industrial
ACTION1:Academicworkshopsandconferencesarecomingintopicturetoapplymoreknowledgeintermsofconductionofexperimentsandanalysistheasrequiredlevel.			

PSO3: DesignElectronics&Communication,Electricalcircuits,simulateusingEDAtoolsandinterfacewithkitsormodulesthroughprogrammingandfabricatePCB.

PSO3	2.68	2.55	Toinculcateethics,goodinterpersonalrelationships,abilitytocommunicate,leadershipandprojectmanagement.
ACTION1:Careerreadinessprogramandcorporatelecturesarearrangedtomeetrequiredexpertiseinfieldofengineering.			

7.2 ImprovementinSuccessIndexofStudentswithoutthebacklog(10) InstituteMarks:8.00

Items	LatestPassedoutBatch(2020-21)	LatestPassedoutBatchminus1(2019-20)	LatestPassedoutBatchminus2(2018-19)
SuccessIndex(from4.2.1)	0.121	0.188	0.068

7.3 ImprovementinPlacementandHigherStudies(10) InstituteMarks:8.00

Items	LatestPassedoutBatch(2020-21)	LatestPassedoutBatchminus1(2019-20)	LatestPassedoutBatchminus2(2018-19)
PlacementIndex(from4.6)	0.773	0.294	0.681

7.4ImprovementinAcademicPerformanceinFinalyear(10) InstituteMarks:8.00

Items	LatestPassedoutBatch(2020-21)	LatestPassedoutBatchminus1(2019-20)	LatestPassedoutBatchminus2(2018-19)
AcademicPerformanceIndex(from4.3)	7.02	3.269	5.202

7.5 Internal Academic Audits to Review Complete Academics & to Implement Corrective Actions on Continuous Basis (10)

Total Marks 9.00

Inst marks 9.00

Items	2021-22 (CAYm1)	2020-21 (CAYm2)	2019-20 (CAYm3)
Internal Academic Audits	02	02	02

During every semester Internal Academic Audit will be carried out by respective HODs and Principal. The process involves verification of academic documents such as Attendance Registers, Course Plans, CIE Reports, Activity Reports, and Mentor's Diary. This is done during first week of every month from the beginning and till end of semester.

An External Audit is also conducted by the official appointed by BTE, Bengaluru. The External audit will be conducted every semester during board theory exams.

7.6 New Facility created in the Program(10) InstituteMarks:9.00

Items	2022-23(CAYm1)	2021-22(CAYm2)	2020-21(CAYm3)
New Facility Created	-	2	4

Criteria – 8

StudentSupportSystem

2. PROGRAMCURRICULUMANDTEACHING-LEARNINGPROCESSES (200) **Total Marks181**

1. STUDENTSUPPORTSYSTEMS

Mentoringsystemtohelpatindividuallevel Forstudents,amentorissomeonewhoservesasaguidethroughouttheirinstitutionaltrain ing.Mentorsapplytheirguidance,experienceandexpertiseinpromotingtheirmenteesprofessionallyandpersonally,throughinterp ersonalengagement.
Inshort,Mentoringaspirestotransformationalpositivechanges.Itenhancesselfconfidence,improvespeerbondingandpreparesmente esforcareeradvancement.

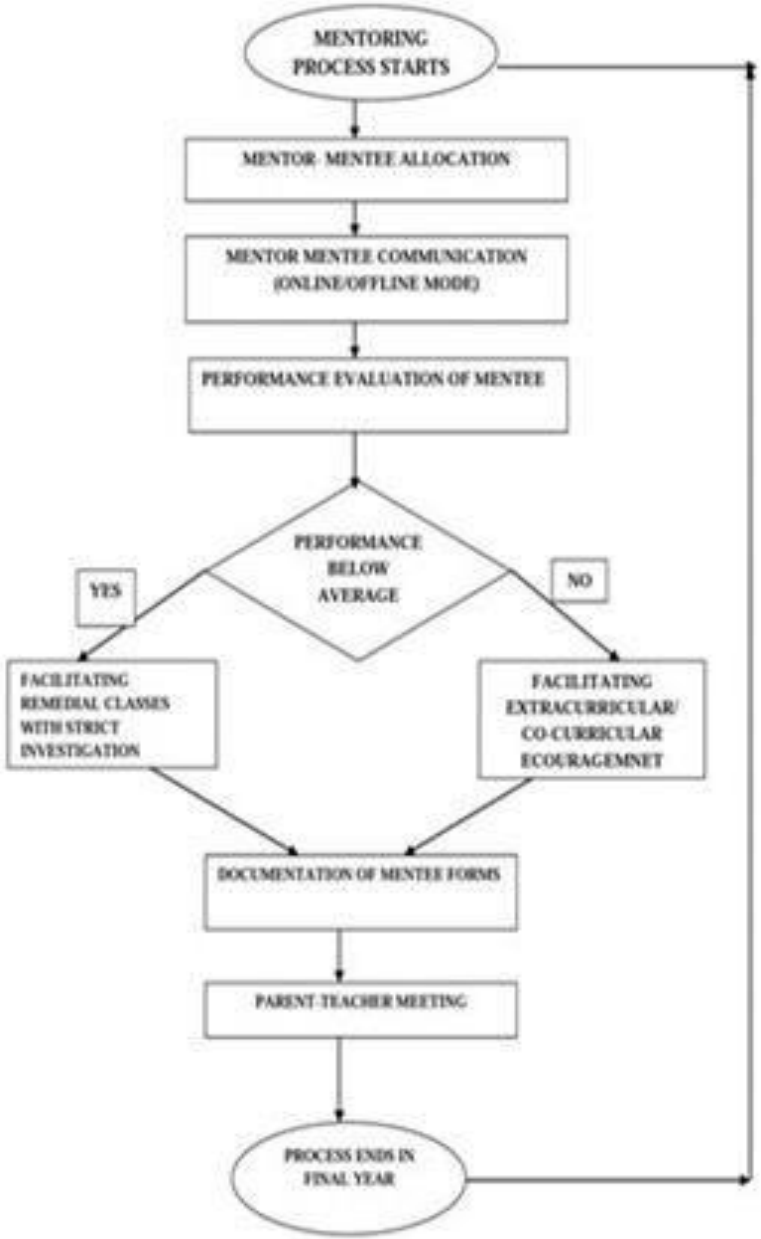
Eachfacultyisassigned15to20students.Thefacultymonitorstheirprogressandreportstodepartmentin-chargeofcounsellingcell.Thismentoringisforover-alldevelopmentofthestudent.Acounsellingsheetismaintainedbyfaculty,whereattendance,examinationmarksandfamilydetailsa rerecorded.Thesameiscontinuedtillthestudentcompleteshis/hergraduation.Theperiodicstatuswillbesubmittedtotheparents/Gu ardians.

ObjectivesofMentoring
Refiningteacher-studentcommunicationoutsideclassroom
HelpingstudentsunderstandthechallengesandopportunitiespresentintheInstituteanddevelopsmoothtransitiontocampuslife.Maint ainingdatabase ofstudentperformance,attendancedetails&drop outs
Ensuringregularityandpunctualityofstudentsthroughcounsellingsessions.
Supportingpersonal&professionalgrowth&monitoringpsychologicalgrowth&progress

ExpectedOutcomes
AhealthyLearningEnvironment
CreationofpositivecommunicationchannelsamongPrincipal,Parents,Staff&StudentsEnhancingafeelingofbelongingamon gstudents
Selfconfident,bold&anactive,enthusedstudentcommunity
Betterattendance,lesserdropoutsandgoodpsychologicalhealthofstudentsConfidentParent sImprovedPerformance

Note:MentorsDiaryismaintainedfromtheacademicyear2019-20.

Flowchartbelowshowsthe



Feedbackanalysisandreward/correctivemeasurestaken,ifany

Methodologybeingfollowedforfeedbackcollection,analysisanditseffectiveness

Thefeedbackcollectionprocessisveryimportantforqualityimprovementoftheinstitution.Thefacultyfeedbackiscollectedfromthest udentseverysemester.Thisprocesscontributestoevaluatethefacultyperformanceforreward/correctivemeasures

Theonlinefeedbackwillbetakenfromthestudentsinregularclasshoursandmonitoredbytheinterdepartmentfaculty

AveragePercentageofStudentswhoparticipates: Studentshavingattendancemorethan75%areparticipated.Thefeedbac

kanalysisprocess:
TheinterdepartmentfacultycollectthefeedbackfromstudentsthroughonlineandconsolidatedreportgeneratedonlineisforwardedtothePri ncipalsOfficeforfurtherCorrectiveMeasures.Thesamewillbe senttorespective HOD's.

Table:Feedbackanalysisgrading

Grading	Points
Excellent	9- 10
Good	7 - 9
Average	3 -7
Poor	1 –3

Theteachingperformanceindicesareanalysedbythe PrincipalsOfficeandthesameisconveyedtotheconcerned.Recordofcorre

ctivemeasurestaken

BasisofReward/CorrectiveMeasures:

Theindicesusedformeasuringthequality ofteaching,learningandsummaryoftheindexvaluesarementionedinbelow.

1. CreatinginterestintheSubject.
2. RegularityinhandlingtheClasses/E-Classes.
3. PresentationoftheSubject.

4. AudibilityorClarityofSpeech.
5. InteractionwithStudents.
6. ClarifyingStudentsDoubts.
7. FairnessinevaluationofIAtestandassignmentbooks.
8. AbilitytodesignQuizzes/Tests/Assignments/Examinations&projectstoevaluatestudentsunderstandingof thecourse.
9. Interactandencouragesstudentstoaskquestion/participation.
10. Fulfilmentofcourseobjectivesandoutcomes.

SystemofReward:

Bestperformingfacultyisrewardedbyissuinga LetterofAppreciation.Performanceratingoffacultythroughstudentfeedbacksystemisone ofthefactorsinevaluatingtheannualperformanceandtoreleasetheannualincrement.

CorrectiveActionstaken:

Thefacultiesperformingbelowaveragearetrainedcontinuouslythrough FacultyDevelopmentProgramtoimprovethequality ofthestaff.

Feedbackonfacilities

Studentfeedbackonfacilities,analysisandcorrectiveactiontaken

Assessmentisbasedonstudentfeedbackcollection,analysisandcorrectiveactiontaken.

Feedbackonfacilities

Astandardprocedureforfeedbackonfacilitiesistakenupinthecollege.Feedbackiscollectedfromthestudentsonfacilitiesavaila bleinthecollegesuchasWaterfacility,Internetfacility,Canteenfacility,SportsandGymnasticfacility,etc.

ThefeedbackisanalysedandthenecessarycorrectivemeasuresareimplementedafterdiscussionswiththeManagement.

Followingistheprocessoffeedbackonfacilities.

i. Feedbackcollectionprocess
ii. Feedbackanalysis
iii. Correctivemeasures

i) Feedbackcollectionprocess:

Differentfeedbackformsaremadeavailableonourcollegewebsites:http://tmaespolytechnichpt.com/stakeholders-feedback-forms/Table:Details of feedbackcollectionprocess:

Item	Description
Feedbackcollectedonallfacilitiesprovided bythecollege.	YES
Feedbackcollectionprocess	Frominstitutewebsite
Feedbackreceiver	HODsthroughwebsiteadmin

FORMATofStudentFeedbackonFacility:

SampleQuestionnaires:

- InteractionwiththePrincipal.
- InteractionwithHODs.
- ResponseattheReception
- Goodsupport/interactionfromOffice
- Availability ofStaffinworkingHours.
- ExtraCurricularActivities.
- DisciplineinCampus.
- InternetfacilityatInternetCentre
- HouseKeepingatCollegeCampus
- DrinkingWaterFacility
- Washroomfacilitiesandmaintenance
- SportsActivities
- Mentor-MenteeSystem
- Areyouhappy withthefoodservedinthepresentcanteen?
- Areyouawareof theNSSActivitiesinourTechnicalBoard?

RatingofScale

Poor	1 yo3
Average	3.1to7
Good	7.1to 9
Excellent	9.1to 10

Feedback Analysis

Thefeedbackgivenbythestudentsisconsolidatedandanalysed.Principalwilldiscussabouttheconsolidatedreportwiththemanagementandcomeoutwithnecessaryactions.

Correctivemeasures:
Correctivemeasureswillbeimplementedatthecollegelevelwithrespecttothedecisionmadebythemanagement.

CareerGuidance,Training,Placement
Careerguidanceforthestudentsisamustsothatgraduatescandiscovertheirstrengthsandweaknessesbeforeventuringoutintothehighlycompetitive world, somePrecautionaryaswellascareer-boostingmeasures needtobetaken bygraduates.

Careercounsellingorcareerguidanceprocessinvolvesindividuals(schoolorcollegestudentsorprofessionals)exploringvariouscareeroptions,understandingmoreabouttheopportunities,analysingthecareerprospectsandearningpotential.Theprocessalsoincludesanall-inclusivecareerassessmenttestwhichevaluatesindividuals'interests,strengthsandweaknesses,ability/aptitude,personalitytraitsandcapabilities.Thestudentsareguidedbymentorsandalsocareerguidanceprogramisconductedregularly.

Softskillsprogramswillbeorganizedforenhancingtheabilitythestudentsandtoexplorethemin thecompetitiveworld.Thecareerplanningworkshoporganisedonlineduringpandemicandalsooffline.GroupDiscussionactivityisorganizedintheworkshop.
FeworganizationstonameareArt of Living, Bestow education,EntrepreneurshipCell/TechnologyBusinessIncubator

Criteria – 9

Governance,InstitutionalSupport andFinancialSupport

1.GOVERNANCE,INSTITUTIONALSUPPORT

ANDFINANCIALRESOURCESOrganization,GovernanceandTransparency

StatetheVisionandMissionheInstitute

Vision:
Empoweringyouthbyimpartingqualitytechnicaleducationandstrivetopreparestudentswithexcellenttechnicalskills.
Mission:
1. Tooffervalueaddedqualitytechnicaleducation&excellentacademictrainingtoourstudents. 2. Toprovidestateofartinfrastructurewithlatestfacilities. 3. Tostrengthenindustryinstituteinteraction.

Governingbody,administrativesetup,functionsofvariousbodies,definerulesprocedures,recruitmentandpromotionalpolicies

Sl. No	**Name**	**Designation**
1	Sha.Bra.VARASADYOJATHASHIVACHARYAMAHASWAMIJI	PRESIDENT
2	SRIN.G.NAGANAGOUDA	VICEPRESIDENT
3	SRITMCHANDRASHEKARIAH	SECRETARY
4	DrMAHESH	MEMBER
5	DrRAMESHKUMAR	MEMBER
6	SRITMSHIVADEVAIAH	MEMBER
7	SRIKMGURUSIDDAIAH	MEMBER
8	SRIBALARAMASHETTY	MEMBER
9	SRITMSHIVASHANKAR	MEMBER

FunctionsofGoverningBody:

RolesandResponsibilitiesofGoverningCouncilofTMAESPolytechnic,HosapeteasperByelawofTMAESociety,Harapanahalli

- Governingcouncilresponsibletomonitordaytodayoverallaffairsoftheinstitution.
- GoverningcouncilresponsibletoimplementguidelinesgivenbyManagementCommitteeofTMAESociety,Harapanahalli.ItisResponsibletotakecooperation,favourandSympathyfromallstakeholders.
- TogatherFundsrequiredforManagementoftheInstitutionandmaintenanceofauditreportsoffinancialresourcesoftheinstitution.
- TopreparеandsubmitAnnualandsupplementaryBudgetproposalstotheTMAESocietyManagementforapproval.PrepareAnnualreportsandsubmitittoManagementcommitteeofTMAESocietyforapproval.
- Budgetrequirementofequipment's,constructionandmaintenanceof\BuildingandAcademicactivitiesshallbesubmittedtothemanagementcommitteeforapproval
- Extensionofserviceafterretirementofstaffmembersshallbesubmittedtothesecretarywithrecommendationifnecessary.Verifyauditstatementsfromtimetotimetocheckitsauthenticityandcorrecttheauditstatementsifanydeficiencies.
- AllexpenditureoftheinstitutionshallbewithinthebudgetapprovedbyTMAESSociety,Harapanahalli.SubmitAnnualreporttoManagementcommitteeofTMAESSociety,Harapanahalli.
- DaytodayactivitiesofTeaching,Non-TeachingandofficestaffmembersshallbemonitoredbyGoverningbody of theinstitutioninitiateappropriateactionifanyviolationofserviceoftheinstitution.
- AdvisinganddirectingtheinstitutesbytheManagementCommitteeofTMAESSociety,Harapanahalliforoverallgrowthoftheinstitution.
- GoverningBodyshalltakeadvicefromsenioracademicleadersandexperts,Industry,Seniorlegalluminaries,SeniorMedicalexperts, achieversandotherKnownpersonsofthesocietyforoverallgrowth of the institution.
- GoverningCouncilresponsibilitytofollowdiligentlyrulesandregulationsprescribedby statutory bodiesnamelyGovernment,DCTE,AICTE,andotherregulatoryagencies.
- ItisresponsibilityofgoverningcouncilTofollowguidelinesasamendedbyTMAESSociety, timetotimetoaccommodatedynamicchangesintechnicaleducation,generalsocietyandotherimportantsegments of thesociety
- MinutesofthemeetingandactiontakenreportsCServiceandRecruitmentRules
- ServicerulesareconstitutedbyTMAESSociety,andismadeavailabletoallthedepartmentsforthesakeoftheinformationtotheemployees .

	Thereshallbethreecategoriesoffaculty/staffmembers:
1	Academic:HOD, SelectionGradeLecturer,Lecturer. TechnicalSupport:Instructor,AsstInstructor,Mechanic,Helper. Office Staff :OfficeSuperintendents,FDA,SDA,Attender,Group-D.
2	AppointmentsaremadeasperAICTEforteaching&Govt.C&RRulesfornonteachingpostsandtherespectivepostsareapprovedbythe Govt.ofKarnatakaaccordingly.ThepayscaleshavebeenfixedasperAICTE&StateGovernmentnorms.TheAppointingAuthorityfor othernongovernmentpostsshallbeaGoverningCouncilattheinstitutionlevelincludingPrincipalastheGoverningCouncilMember. TheappointmentofstaffmembersatanInstitutionshallbemadebytheGoverningcouncil byadoptinganopenandtransparentselectionprocedurenamely:
3	IssueofattractiveadvertisementforthepostsatState-levelEnglishandKannadaDailyNews Papers; Issueofrollingannouncementofvacanciesinanappropriatesite;AdherenceofPolicymattersgivenbytheManagemen t/Government; ShortlistingofcandidateswillbedoneasperAICTE/DCTE/GOKNormstomeettherequirements.Inti matingeligiblecandidatesfortherecruitmentprocessaftershortlistingaspernorms SettingupScreeningCommitteestoidentifycandidatestobeinterviewed; SettingupSelectionCommitteestointerviewtheidentifiedcandidatesincludingthesubjectexpertintheconcerned domain;PlacingtheSelectionCommitteeReportsbeforetheGCforapproval;PlacingselectedcandidatesinMCMeetingatManagemen tLevel IssueofAppointmentLettersbytheSecretary/ChairmanoftheManagement. ListofselectedcandidateswillbesenttoGovernmentforfinalapproval(foraidedposts)
4	EachappointmentshallbenormallymadeagainstasanctionedpostattheInstitute.However,theGCshallhavethepowerstomakeanyother appointment/s,afterdeterminingandfixingasourceof fund fortheexpenditure.
5	TheGCmayalsoconsiderandappointwellqualified/experiencedcandidatestotheInstitutioninvariousdepartmen ts/sections.
6	Thepayscalesadmissibletothefaculty/staffmembersattheinstitutionshallfollowtheAICTE/GOK/Management normsandstandards.
7	TheServiceConditionsforallacademic,administrativeandtechnicalstaffmembersoftheinstitutionshallbeasprescribedintheServiceRe gister /ManualoftheManagement.
8	ThereshallbeaCodeofEthicstobestrictlyfollowedbyallacademic,administrativeandtechnicalstaffasprescribedbytheManagement.

Decentralizationinworkingandgrievanceredressalmechanism

Listthenamesofthefacultymemberswhohavebeendelegatedpowersfortakingadministrativedecisions

Sl.No	Name	Designation	Department	Role
1	DrH K Shankarananda	Principal	Administrative	Chairman
2	Sri T M Shivashankar	Tech.Direct.	Administrative	Member
3	Sri T Naziruddeen	HOD	Mechanical	Member
4	Sri N MaheshKumar	HOD.	E&CE	Member
5	Sri G Chandrashekar	HOD	CS&E	Member
6	Sri DhanjujayaG H	HOD	Automobile	Member
7	Sri ShivarajBH	HOD	Science	Member
8	Sri K ManjanaGouda	Sl.Gr.Lect	E&EE	Member
9	Sri K LaxmiReddy	Sl.Gr.Lect	Civil	Member
10	Sri YoganandaT L	Incharge HOD	Metallurgy& Mining	Conveyor

GrievanceRedressalMechanism:

Thefunctionofthecellislookintothecomplaintslodgedbyanystudentifanyandthenjudgeitsmerit.Thegrievancecellisalsoempowe redtolookintomattersofharassment.Anyonewithagenuinegrievancemayapproachthedepartmentmembersinpersonorinconsult ationwithofficerin-

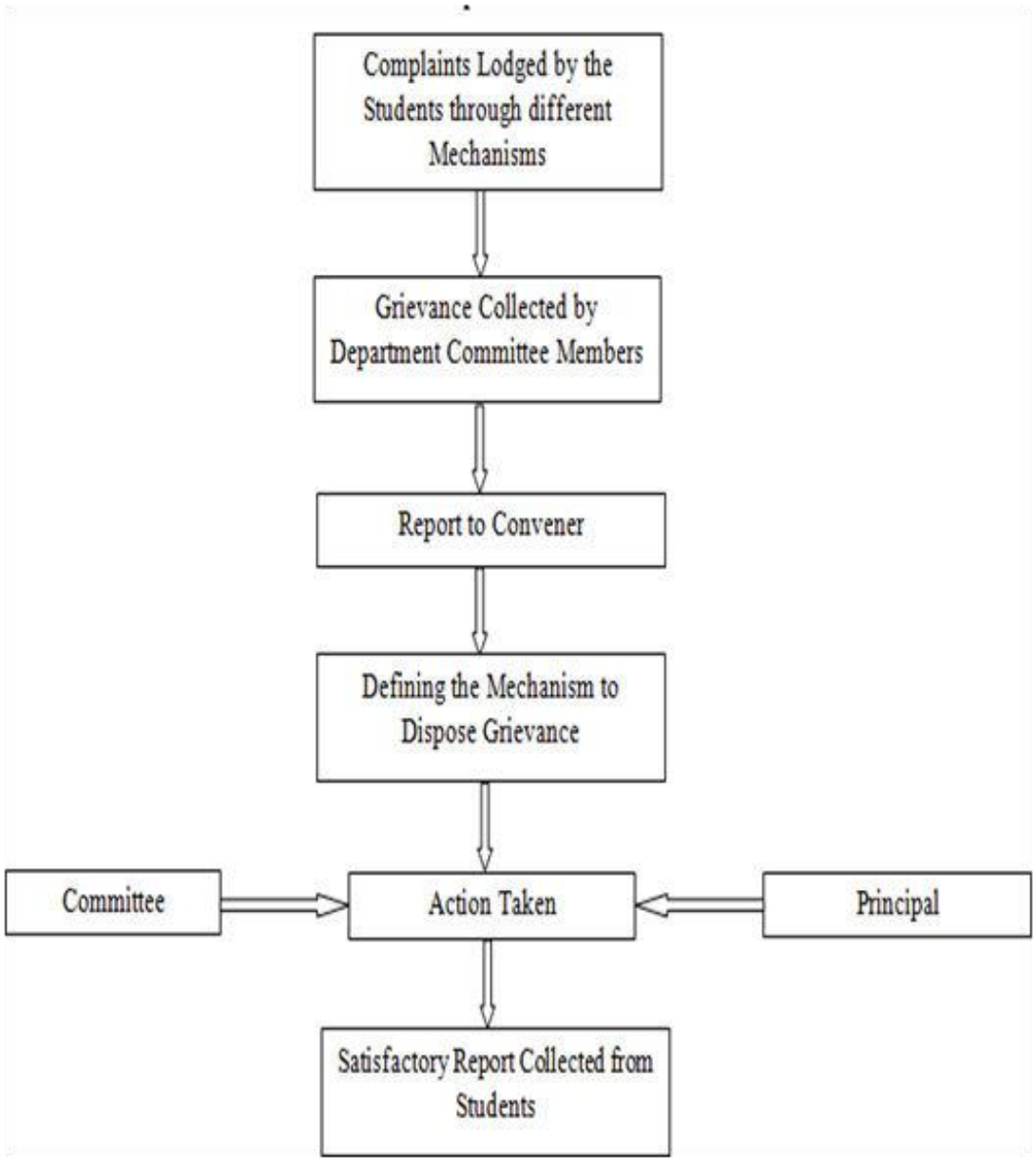
chargestudent'sgrievancecell.Incasepersonisunwillingtoappearinself,grievancemaybedroppedinwritingattheletterbox/sugge stionboxofthegrievancecellatadministrativeblock.

MechanismadoptedtocollecttheGrievancesattheinstitute

Suggestion/complaintBoxisinstalledinwhichthestudents,whowanttoremainanonymous,putinwritingtheirGrievancesandtheirsuggestions for improvementoftheAcademics / AdministrationintheCollege.

Providing Onlinesubmission of Grievancesintheinstitutewebsitefor bothstaff&students

WrittenComplainttoPrincipalandCommitteememberofthedepartmentorallytotherespectiveDepartmentcommitteemember,H ODs&Principal


Complaints Lodged by the Students through different Mechanisms
Grievance Collected by Department Committee Members
Report to Convener
Defining the Mechanism to Dispose Grievance
Committee
Action Taken
Principal
Satisfactory Report Collected from Students

Sl.No	Name	Designation	Rolein thecommit
1	Dr. H. K. Shankarananda	Principal	Chairman
2	SriSrinivasMeti	CPI	Member
3	SriShivashankarBanagere	PressReporter	Member
4	SriHRaghavendraRao	NGO	Member
6	SriGChandrashekar	HOD,CS	Member
7	SriTSathyanarayanaRao	HOD, Sci	Member
8	SriTNaziruddeen	HOD,Mech	Member
9	SriDM Shivakumar	FDA	Member
10	SriTArunKumar	AsstInstructor	Member
11	SriRishabPalrecha	Student	Member
12	SriKirnaKumar	Student	Member
13	SriSathyasaiSrinivas	Student	Member
14	SriManojSubramaniyam	Student	Member
15	MsAnusha	Student	Member

Delegationoffinancialpowers:

- Financialpowersaredelegated/authorizedtoPrincipalbythemanagementtospenduptoRs.25,00,000(RupeesTwentyfivethousand)and theHOD'sofallthedepartmentsofthisInstitutearealsoauthorizedtospenduptoRs.5,000(RupeesTenThousand)for academicpurposes.
- Transparencyandavailabilityofcorrect/unambiguousinformationinpublicdomain
- DisseminationandAvailabilityofinstitute/programspecificinformationthroughtheweb:

Theinstitutehashosteditsownwebsitewhichisupdatedregularly.TheinstituteandProgramspecificinformationismadeavailablet oallaspirantsthroughtheweb-site.Theweb-siteURLis:https://www.tmaespolytechnichpt.com

Table:URLLinks

1	InstitutionMission&Vision	http://tmaespolytechnichpt.com/vision-mission/
2	AuditedStatements	http://tmaespolytechnichpt.com/mandatory-disclosures/
3	NSS	http://tmaespolytechnichpt.com/student-support/nss/
4	Placement	http://tmaespolytechnichpt.com/placements/
5	AICTEMandatory	http://tmaespolytechnichpt.com/mandatory-disclosures/
6	ImportantLinks:AICTE/DCTE/MHRD/SWAYAM/NPTEL/NDL	http://tmaespolytechnichpt.com/important-links/

BudgetAllocation,Utilization,andPublicAccountingatInstitutelevel(10)

Summary

ofcurrentfinancialyear'sbudgetandactualexpenditureincurred(fortheinstitutionexclusively)inthethreepreviousfinancialyears

TABLE-Consolidatedbudgetreceived-ExpenditureinCFY,CFYm1,CFYm2,CFYm3

Item	Budget inCFY2022-23	Actual Expenseinin CFY 2022-23	Budget inCFY2021-22	Actual Expenseinin CFY 2021-22	Budget inCFY2020-21	Actual Expenseinin CFY 2020-21
Infrastructure Built-Up	70,000	65,086	75,000	50,000	1,40,000.00	1,36,198.00
Library	70,000	64,000	75,000	53,400		Nil
Laboratory Equipment	7,50,000	7,24,689	2,50,000	2,49,739	3,70,000.00	3,64,531.00
LaboratoryConsumables	4,00,000	3,81,072	3,40,000	3,39,470	60,000.00	56,373.00
TeachingandNon TeachingStaff Salary	143000000	142825062	13,66,00,000	13,65,48,371	11,46,50,000.00	11,46,33,212.00
Maintenanceand Spares	10,50,000	10,35,354	9,17,000	9,16,932	6,80,000.00	6,77,803.00
R & D				Nil		Nil
Trainingandtravel	2,00,000	1,75,701	30,000	26,960	35,000.00	30,470.00
Miscellaneous expenditure	110000	1,00,534	75000	73,713	65,000.00	62,295.00
others/Specify			39,00,000	38,38,083	46,20,000.00	46,13,766.00
Total	**14,56,50,000**	**14,53,71,498**	**14,22,62,000**	**14,20,96,668**	**12,06,20,000.00**	**12,05,74,648.00**

Table 1–CFYm12022-23

TotalIncomein CFY			***ActualexpensesinCFY***			***Totalno.of Studentsin CFY(1120)***
Fee	*Govt.Grants*	*Anyother Sources*	*Recurring including Salaries*	*Non-Recurring*	*SpecialProjects/Anyotherspecify*	*Expensesper student*
1,15,09,959.00	**13,76,58,118.00**	**2,75,692.00**	**15,04,05,841.00**	**8,67,899.00**	**Nil**	**12,157.00**

Table 2–CFYm22021-22

TotalIncomein CFY			***ActualexpensesinCFY***			***Totalno.of Studentsin CFY(1091)***
Fee	*Govt.Grants*	*Anyother Sources*	*Recurring including Salaries*	*Non-Recurring*	*SpecialProjects/Anyotherspecify*	*Expensesper student*
1,03,29,409.00	**13,11,13,647.00**	**2,51,460.00**	**14,16,40,282.00**	**2,64,425.00**	**Nil**	**9,891.00**

Table 3–CFYm32020-21

TotalIncomein CFY			***ActualexpensesinCFY***			***Totalno.ofStudentsinCFY(999)***
Fee	*Govt.Grants*	*Anyother Sources*	*Recurring including Salaries*	*Non-Recurring*	*SpecialProjects/Anyotherspecify*	*Expensesper student*
88,18,408.00	**11,05,82,250.00**	**2,58,680.00**	**12,00,73,919.00**	**5,00,729.00**	**Nil**	**10002.00**

AdequacyofBudgetAllocation

TheBudgetproposalfortheacademicyearispreparedby theindividualdepartmentsaspertheguidelinesbyTMAESocietyandPrincipaloffice.Thecollectivebudgetproposalsarescrutinized bythebudgetcommitteeatthecollegelevelandfurthertakentogoverningcouncilandmanagementcouncilforapprovalandsanction.Onceitissanctioned,thePrincipalwillissuethebudgetorderaccordingly.Thebudgetallocationandutilizationforthelastthreeyears areadequate.

Utilizationofallocatedfunds

Utilizationof allocatedfund during 2020-23

YEAR	2022-23	2021-22	2020-21
UtilizationoftheBudget(%)	92.6	93.1	73.3

Availability oftheauditedstatementsontheinstitute'swebsite
Auditedstatementsforthefinancialyears2018-19,2019-20,2020-21,2021-

22areavailableinourinstitutewebsiteURL:http://tmaespolytechnichpt.com/mandatory-disclosures/

DepartmentSpecificBudgetAllocation,Utilization
BudgetwillbeallocatedtoeverydepartmentatthebeginningoftheacademicyearbasedontheestimationsubmittedbytheconcernedHOD.Itwillbesanctionedaftertheapprovalfrom themanagement.

Table1:CFY 2022-23

TotalBudget:190000		Actualexpenditure(till…):176023	
NonRecurring	Recurring	NonRecurring	Recurring
150000	40000	140000	36023

Table 2:CFYm12021-22

TotalBudget45000		Actualexpenditure(till…):41887	
NonRecurring	Recurring	NonRecurring	Recurring
20000	25000	19588	22299

Table 3:CFYm22020-21

TotalBudget45000		Actualexpenditure(till…):32986	
NonRecurring	Recurring	NonRecurring	Recurring
10000	35000	--	32986

Table 4:CFYm32019-20

TotalBudget40000		Actualexpenditure(till…):26557	
NonRecurring	Recurring	NonRecurring	Recurring
10000	30000	--	26557

AdequacyofBudgetAllocation(2)

Theadequatebudgetwillbesanctionedbythemanagementforthepurchaseofequipmentsandconsumablesatthebeginningofeveryfinancialyear.
Theprincipalcallsforindentfromeachdepartment.TheHODsmeetingwillbecalledbytheprincipaltodiscussaboutbudgetavailabilityandtherequirementsfortheacademicyear.Aconsolidatedreportwillbepreparedbytheprincipalafterthemeetingandthesamewillbeforwardedtothe management.Themanagementwillscrutinizethebudgetrequirementand asanctionletter willbesenttotheprincipal

Utilizationofallocatedfunds(3)

Year	Non-RecurringBudget		RecurringBudget		Utilization	
	Sanctioned	Expenditure	Sanctioned	Expenditure	Non-Recurring	Recurring
2020-21	10000	0	35000	32986	0	94.2%
2021-22	20000	19588	25000	22299	97.9%	89.1%
2022-23	150000	140000	40000	36023	93.3%	90.1%

LibraryandInternet(20)

(Itisassumedthatzerodeficiencyreportwasreceivedbytheinstitution,Effectiveavailabilityandutilizationtobedemonstrated)Qualityoflearningresources(hard/soft)(10)

Ourinstitutelibraryhassufficientnumberofbooks,Journals,TechnicalMagazines;E-BooksareavailableinDigitalLibrary(LanguageLab).OurfacultymembersareregisteredwithNDL.StudentsareinsistedtogetregisteredtoNDL.

ThedetailsofBooks&Journalsavailabilityisgivenbelow:

Department	Titles	Volumes
Automobile	188	950
CompScience	1002	4156
Civil	637	3583
E& C	886	4826
E& E	393	2160
Mechanical	856	6207
Metallurgy	48	291
Mining	83	492
Science	287	2223
General	84	125
Total	**4469**	**25113**

ListofJournalsavailableintheLibrary:

Sl. No.	TitleofJournal
1	IndianJournalofInformationSciencesandComputerApplication
2	IndianJournalofMechanicsandThermodynamics
3	IndianJournalofPhysicsandApplications
4	IndianJournalofMaterialsinCivilEngineering
5	AdvancesinWirelessandMobileCommunications
6	IndianJournalofAdvancesinElectricalEngineering
7	IndianJournalofModernAutomobileEngineering
8	IndianJournalofCivilMechanicalEngineering
9	IndianJournalofProductionandQualityTesting
10	IndianJournalofAutomobileEngineering
11	IndianJournalofConstructionEngineeringandTechnology
12	IndianJournalofMechatronics
13	IndianJournalofSimulationandWirelessCommunication
14	IndianJournalofModernSoftwareEngg.
15	IndianJournalofNetworksandApplications
16	IndianJournalofMaterialsPhysics

Internet(10)

NameoftheInternetprovider	BSNL FTTH
Availablebandwidth	up to100Mbps
Wi-Fiavailability	YES
Internetaccessinlabsandoffice	YES
Securityarrangements	YES

InstitutionalContributiontotheCommunityDevelopment(5)

WehaveNSSwingtheinstituteandourNSSCoordinatorswillidentifyfewvillagesandalongwithvolunteersorganizevariouscommunitydevelopmentandawarenessprogramsatidentifiedvillagesregularly.Theseprogramswillbeorganizedineverysemesterwiththeactiveparticipationofstudentsand NSSvolunteers.Therewillbeonespecialcampeveryyear.Themajorobjectiveoftheprogramistocreateawarenessamongpublicregarding cleanliness,plantation,healthcareetc.,

Photographsbelow through somelightson various activitiesorganizedunderNSScamp.

Variousothercommunitydevelopmentprogramswill be organizedineverysemestershownbelow:

2) NationalVotersDayOathtakingprogram

3) General Healthcheckupcampfor staff&students

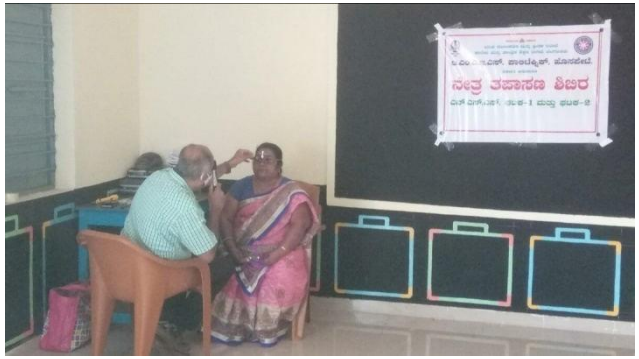
4) CovidVaccinationProgramattheinstitutewiththesupportofLocalHealthDept:

5) CovidTest(RapidTest)ProgramtofollowtheSOPGuidelinesgivenbyHealthDept

6) ParticipationinRoadSafetyweekorganizedby DepartmentofTraffic Police,Hosapete


7) FreeEyeCheckupCamp forthepublic.





8) NationalYouthdaycelebration


INDUCTIONPROGRAMFORFIRSTSEMESTERSTUDENTSOFTHEACADEMICYEAR2023-24

YOGA&MEDITATION

SEMINARONPERSONAL HEALTHCAREFORGIRLS

STUDENTSATTENDINGLECTUREON“SANKALPANA-2047”


SECONDSEMESTERSTUDENTSANDSTAFFATTENDEDTHEPROGRAMONACCOUNTOF161STBIRTHDAYOFSWAMYVIVEKANANDAOURSTUDENTGOTSECONDPRIZEINSPEECHCOMPETITIONONPERSONALITYDEVELOPMENT


AlumniPerformanceandConnect

AlumniCommitteehasbeenconstitutedhavingfollowingstaffmembers

Sl. No.	Name	Designation	RoleinAlumni Committee
1	Dr.HKShankarananda	Principal	Secretary
2	Sri. TLYogananda	I/cHOD,MN/MT	JointSecretary
3	Sri.NMaheshKumar	HOD/ECDept	Coordinator/Treasurer
5	Sri.ShankarBabu	Lecturer/CEDept	Member
6	Sri.Gavisiddappa	Sl.Gr.Lecturer/MEDept	Member
7	Sri.SSSiriyannavar	Sl. Gr.Lecturer/ATDept	Member
8	Smt.RekhaM	Sl.Gr.Lecturer/ECDept	Member

Severalactivitiesorganizedincoordinationwithalmamaterbothoffline&online

Alumniconnectactivityisdonethroughsocialmediaplatform.Meetingswillbeorganizedtodiscussaboutacademicprogress.

Declaration

Theheadofthe institutionneedstomake adeclarationaspertheformatgiven-

Iundertakethat,theinstitutioniswellawareabouttheprovisionsintheNBA'saccreditationmanualconcernedforthisapplication,rules,regulations,notificationsandNBAexpertvisitguidelinesinforceasondateandtheinstituteshallfullyabidebythem.

ItissubmittedthatinformationprovidedinthisSelf-AssessmentReportisfactuallycorrect.
IunderstandandagreethatanappropriatedisciplinaryactionagainsttheinstitutewillbeinitiatedbytheNBA.Incase,anyfalse statement/informationisobservedduringpre-visit,visit,postvisitandsubsequenttograntofaccreditation.

HeadoftheInstitute
Name:Dr.HKSHANKARANANDA
Designation:PRINCIPAL

Signature

SealoftheInstitution:

Place:HOSPETDate:
01-02-2024