TMAESPOLYTECHNIC,HOSAPETE

InstitutionCode:316

SELFASSESSMENTREPORT
ApplicationNo:6947-06/06/2022

PART-A

MechanicalEngineering

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
MechanicalEngineering	**Diploma**	**1985**	**1985**	**40**	**Yes**	**60**	**Applying first time**	**-**	**-**	**Yes**	**0**

SanctionedIntakeforLastFiveYearsfortheMECHANICALENGINEERING	
AcademicYear	**SanctionedIntake**
2023-24	60
2022-23	60
2021-22	60
2020-21	60
2019-20	60

7aAccreditationHistory

Sr. No	**Nameof theDepartment**	**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)	43	43	43	43	43	43
FacultyinEngineering&Technology(Female)	10	10	10	10	9	10
FacultyinScience&Humanities(Male)	4	4	4	4	4	4
FacultyinScience&Humanities(Female)	3	3	3	3	3	4
Non-teachingstaff(Male)	60	64	64	64	63	64
Non-teachingstaff(Female)	5	5	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

PART - B

Criteria No.	Criteria	TotalMarks	InstituteMarks
1.	Vision,MissionandProgramEducationalObjectives	50	47.00
2.	ProgramCurriculumand Teaching–LearningProcesses	200	166.00
3.	CourseOutcomesandProgramOutcomes	100	87.00
4.	Students'Performance	200	123.72
5.	FacultyInformationand Contributions	150	122.81
6.	Facilitiesand Technical Support	100	83.00
7.	ContinuousImprovement	75	56.00
8.	StudentSupportSystems	50	46.00
9.	Governance, InstitutionalSupportand FinancialResources	75	72.00
	Total	1000	803.53

1. VISION,MISSIONANDEDUCATIONALOBJECTIVES(50)

TotalMarks:47.00

1.1 StatetheVision and Missionof theDepartmentandInstitution(5)

TotalMarks:5.00
InstituteMarks:5.00

Vision ofthe institute — Empoweringyouth byimpartingqualitytechnicaleducation andstrivetopreparestudentswithexcellenttechnicalskills

Mission of the institute
1. Tooffervalueaddedqualitytechnicaleducation&excellentacademic trainingtoourstudent.
2. Toprovide stateof artinfrastructurewithlatestfacilities.
3. Tostrengthenindustryinstituteinteraction.

Vision oftheDepartment — Create competentmechanicalengineerstoexceltheir skillsindesign,drawing,estimationandproduction.

	MissionNo.	MissionStatements
Mission of theDepartment	M1	Toimpartqualitytechnical educationrelatedtostudents by providingexcellentTeaching-learningenvironmentandfacilitiestoenhanceskillsinvariousfields ofmechanicalengineering.
	M2	Toprovide experiencesinleadership,teamwork, communication – oral,writtenandHands-onactivitiestroughworkshops,industrialvisitsandcareerguidanceprograms .
	M3	Tobuildethicalvaluesandsocialresponsibilitiesinthemindsofstudentsso astoworkTowardsthegrowthofthe society.

1.2 StatetheprogramEducationalObjectives(PEOs)(5)

TotalMarks:5.00Institute Marks:5.00

PEO No.	ProgramEducationalObjectivesStatements
PEO1	Topreparestudentsforsuccessfulcareersinindustrytomeetchangingdemands oftheirprofessionandinstil adesiretolearncontinuously.
PEO2	Toprovide studentsstrongfoundationinmathematics,scienceandsoundbasictheoreticalknowledgealongwithr equiredpracticalskillsinthe coreareasof MechanicalEngineeringtodemonstrate technicalexcellence
PEO3	Toinculcate teamworkcapabilitiesandcommunicationskillsamonggraduatesofMechanicalEngineers.
PEO4	Tocreateawareness onenvironmentalissuestowardsprofessionalcareeradvancementandneedforLife-longlearning.

1.3 Indicatewhereand howtheVision,MissionandPEOsarepublished anddisseminatedamongstakeholders(10) TotalMarks:10.00

InstituteMarks:9.00

Themissionandvisionoftheinstitutearepublishedin theInstitutionalwebsitehttp:/tmaespolytechnichpt.com/.Themissionandvisionisdisplayedatprominen tlocationsin thecampuswhichcan be viewed bystudents,parents,facultymembersandotherstakeholders.

SL. No.	Methodology	InternalstakeHolders					External StakeHolders		
		Students	Faculty	Management	DTED Board	NBA Committee	Parent	Employer	Alumni
1	College Website	√	√	√	√	√	√	√	√
2	DisplayBoardsDepartmentClassRoomLaboratoriesCommonplaces	√	√	√	√	√	√		
3	Includedin Theagendaofdepartmentand NBA Committee Meeting		√	√		√			
4	Directcommunication				√	√	√	√	√

1.4 StatetheprocessfordefiningtheVisionandMissionoftheDepartment, andPEOsoftheprogram(15) **TotalMarks:15.00**

InstituteMarks:14.00

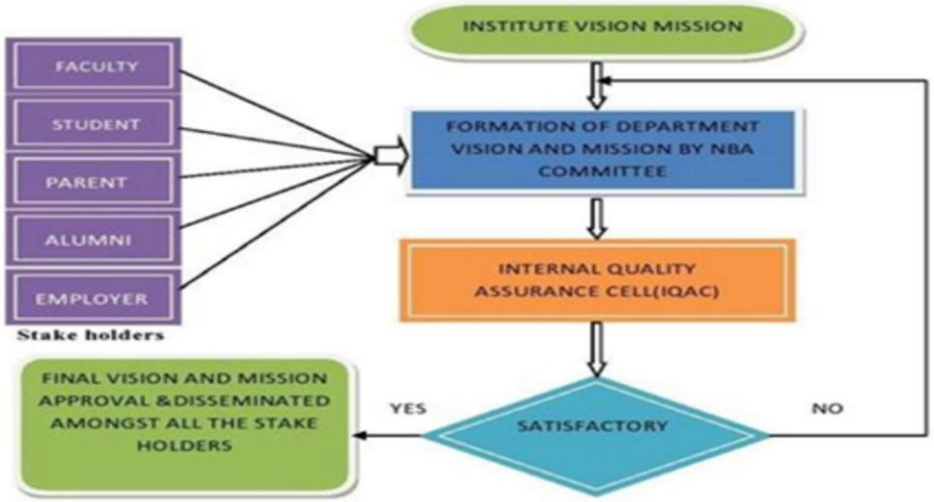


Figure 1.4.1 Process for Defining Vision and Mission of the program

<u>The processfor definingtheVisionandMissionofthe program</u>

Step1:ResponseoftheStakeholders(students,facultymembers,parents,employersandalumni)regardingthevisionandmissionstatementsofthe departmentarecollected throughsurvey.

Step2:Theviewsandopinionsareconsolidatedfromthesurveyprocess,andtheinstitutevision,missionareconsideredindraftingthevisionandmissio nof thedepartmentbytheNBAcommittee.

Step3:ThedraftvisionandmissionarereviewedbytheNBAcommitteeandfurthersubmittedtotheIQAC.Afterconfirmingtheconsistencyofthedepa rtmentvisionandmissionwiththe visionandmission ofthe institute,the samewillbeapprovedby IQAC.

Step4: On Approvalby IQAC,thevision mission of thedepartmentarepublishedand disseminatedtoallthestakeholders.

The processfor definingthePEOsof the program

ThePrograme ducationalObjectivesareestablishedthroughaconsultationprocessinvolvingthecoreconstituentssuchas:Student, Alumni,Faculty,EmployersandParents,ThePEOsareestablishedthroughthefollowingprocess,stepsarefollowedandsameasshowninthefig.

- **Step1**:ThePEOs aredoneinlivewithInstituteandDepartment'sVision andMissionstate
- **Step2**:ThecollaborativeviewsarecollectedfromvariousstakeholdersbytheprogramcoordinatorandformulationofPEOswithreferencetoPEOsofotherInstitutionandjournalpapers.
- **Step3**:ThePEOsaredevelopedbytheteamoffacultymembersandreviewedinthe departmentalmeeting.
- **Step4**:ThePEOsarepresentedintheProgramAdvisoryCommittee(PAC)foradditionalinputsrequirementsforany changeinthe statements.
- **Step5**:FinalizedprogramEducationalobjectives(PEOs)arepublished.

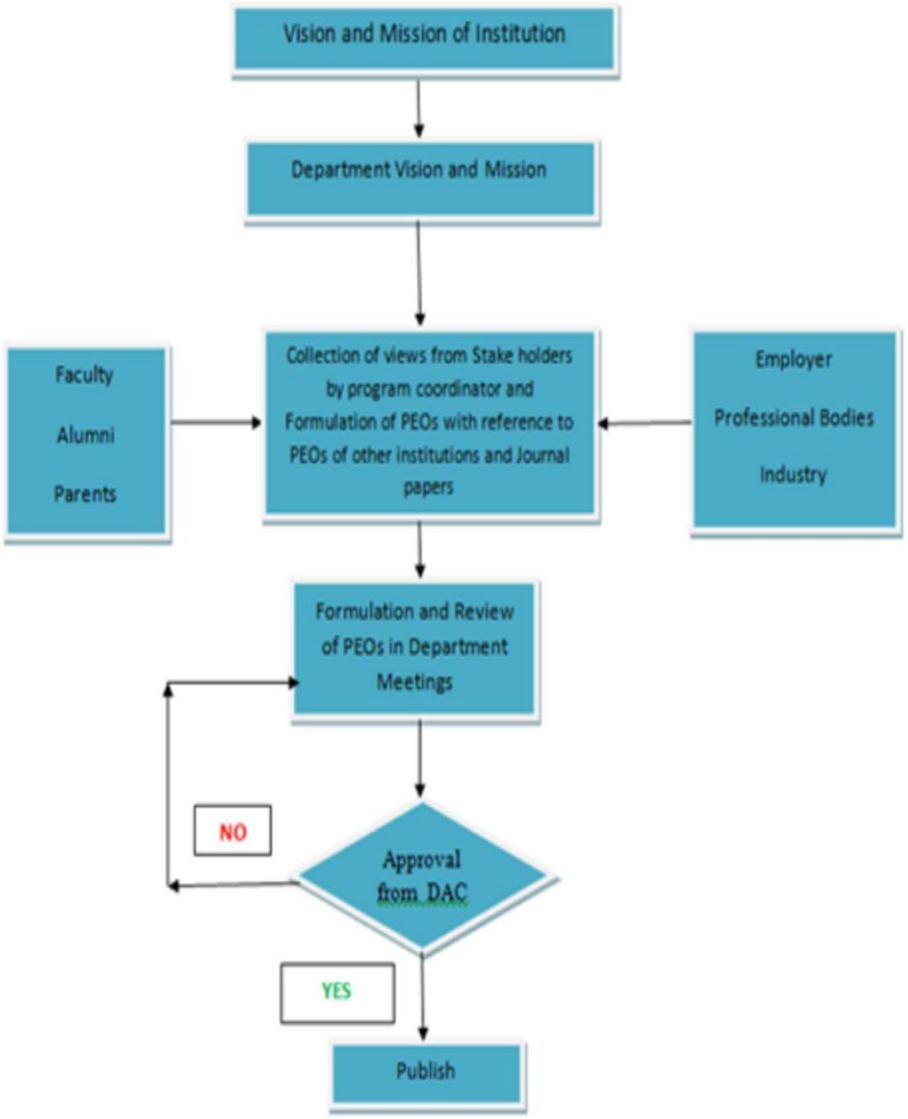


Figure 1.4.2 Process for Defining PEO's the department

1.5 EstablishConsistencyofPEOs withMissionof theDepartment(15)

TotalMarks:15.00Institute Marks: 14.00

PEOStatements	M1	M2	M3
Topreparestudentsforsuccessfulcareersin Industrytomeetchangingdemandsoftheir professionandinstiladesiretolearncontinuously.	3	2	2
Toprovide students a strongfoundationinmathematics,scienceandsoundbasictheoreticalknowledgealongwithrequiredpracticalskillsinthecore areas ofMechanicalEngineeringtodemonstratetechnical excellence	3	2	2
Toinculcate teamworkcapabilitiesandcommunicationskillsamonggraduates Ofmechanicalengineers.	2	2	2
Tocreateawareness onenvironmentalissuestowardsprofessionalcareer advancementandneedforlong-learning.	2	2	2

CRITERIA – 2

PROGRAMCURRICULUM &TEACHING – LEARNINGPROCESS

2.1 ProgramCurriculum

All POs and PSOs arebeingdemonstrablymetthroughCurriculum?: YES

2.1.1 Statetheprocessusedtoidentifyextentofcompliance oftheBoardcurriculumforattainingtheprogramOutcomes(POs)andprogramSpecificOutcomes (PSOs)as mentionedinAnnexurel.Alsomentiontheidentifiedcurriculargaps,if any(40) InstituteMarks38

A. Processusedtoidentifyextentofcompliance ofcurriculumforattaining POs&PSOs(40) InstituteMarks38

TheTMAESPolytechnicisaffiliatedunderDeptof Technical&CollegiateEducation,Bengaluru.SoourProgrammecurriculumisframedby theboard.GenerallyCurriculummaintainsthebalanceinthecompositionofbasicscience,humanities,professionalcoursesandtheirdistributionincoreandelec tiveandbreadthofferings.The2015curriculumhad10programoutcomes.Thesyllabuswasrevisedintheyear2020&thenewcurriculumhad7programoutcome s.Ifsomecomponents,toattainCOs/POs,arenotincludedinthecurriculumprovidedbytheaffiliatedboard,thentheinstitutemakesadditionaleffortstoimpartsu chknowledgebycoveringaspectsthrough“CONTENTBEYONDSYLLABUS”.Weaddcontentbeyondsyllabus byproper“GAPanalysis”process.

PROGRAMOUTCOMES (2020 CURRICULUM)

1. BasicandDisciplinespecificknowledge:Applyknowledgeofbasicmathematics.Scienceandengineeringfundamentalsandengineeringspecializati ontosolvetheengineeringproblems.
2. Problemanalysis:Identifyandanalyzewell-definedengineering problemsusingcodifiedmethods.

3. Design/developmentofsolutions:Designsolutionsforwell-definedtechnicalproblemsandassistwiththedesignofsystemscomponentsorprocessestomeetspecifiedneeds.
4. EngineeringTools,ExperimentationandTesting:Applymodernengineeringtoolsandappropriatetechniquetoconductstandardtestsandmeasurements.
5. Engineeringpracticesforsociety,sustainabilityandenvironment:Applyappropriatetechnologyincontextofsociety,sustainability,environmentandethicalpractices.
6. ProjectManagement:Useengineeringmanagementprinciplesindividually,asateammemberoraleadertomanageprojectsandeffectivelycommunicate aboutwell-definedengineeringactivities.
7. Life-longlearning : Abilitytoanalyzeindividualneeds andengageinupdatinginthecontext of technologicalchanges.

PROGRAM SPECIFICOUTCOMES(PSO's)

1. Thestudentswillbeabletoapplynecessaryconceptsincoreareasofmechanicalengineering.
2. Thestudentswillbeabletodevelop&optimizesolutionsincomputeraideddrawing&manufacturingplatforms.
3. Thestudentswillgainteamspiritforworkinginavarietyofmanufacturingindustries,Automobile&powersectorsaswellaspursuinghigherstudiesforcontributiontoresearch&development.

TABLE 2.1 :STRUCTUREOF PROGRAMASPERBTECURRICULUM

(2020 CURRICULUM)

GENERALSTUDIES:

Code	CourseTitle	Hoursperweek				Sem	Credits
		L	T	P	TotalHrs		
20EG01P	Communication Skills	2	0	4	6	I	4
	TotalCredits						4

APPLIEDSCIENCECOURSES:

Code	Course Title	Hoursperweek				Sem	Credits
		L	T	P	TotalHrs		
20SC01T	EnggMathematics	4	0	0	4	I	4
20SC02P	StatisticsandAnalytics	2	0	4	6	II	4
	TotalCredits						**8**

AUDITCOURSES:

Code	CourseTitle	Hoursperweek				Sem	Credits
		L	T	P	TotalHrs		
20AU01T	EnvtSustainability	2	0	0	2	I	2
20KA21T	Kannada-I	2	0	0	2	II	2
20KA31T	Kannada-II	2	0	0	2	III	2
	TotalCredits						6

BASICCOURSES IN ENGG&TECHNOLOGY:

Code	CourseTitle	Hoursperweek				Sem	Credits
		L	T	P	TotalHrs		
20EE01P	Fundamentals ofElect&ElectronicsEngg	2	0	4	6	II	4
20CS01P	ITSkills	2	0	4	6	II	4
	TotalCredits						8

DEPARTMENTALCORECOURSES:

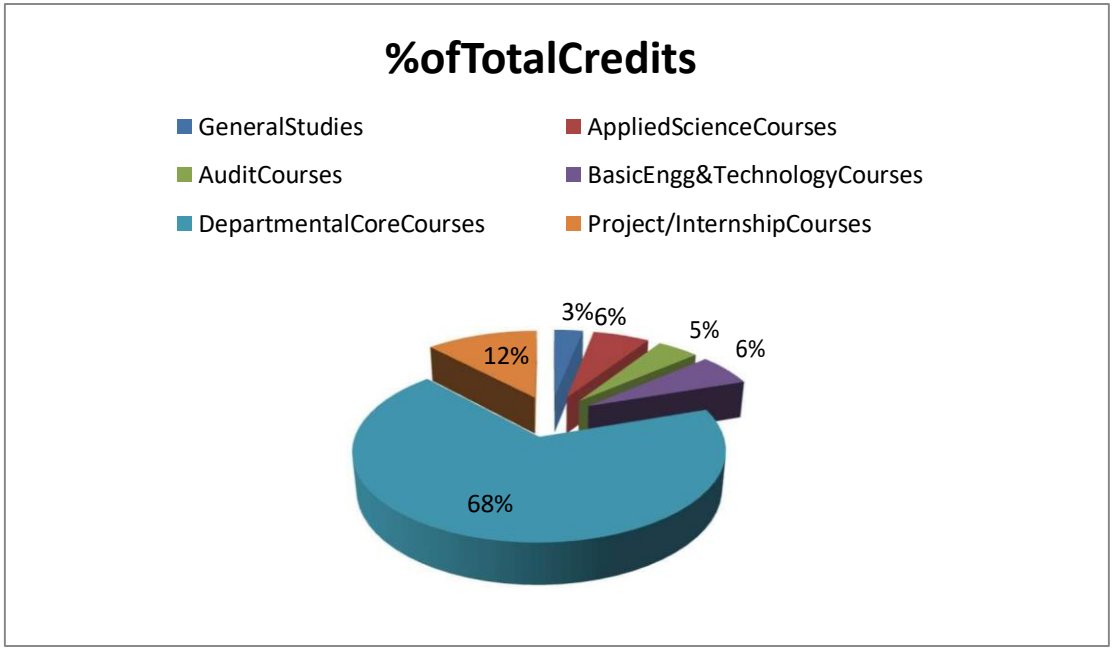
Code	CourseTitle	Hoursperweek				Sem	Credits
		L	T	P	TotalHrs		
20ME11T	Materials for Engineering	4	0	0	4	I	4
20ME12P	Comp.AidedEngg Draw	2	0	4	6	I	4
20PM01T	Projectmanagementskills	2	0	4	6	II	4
20ME21P	Mech workshopPractice I	2	0	4	6	II	4
20ME31P	MechanicsofMaterials	3	1	4	8	III	6
20ME32P	MachineTool Technology	3	1	4	8	III	6
20ME33P	ManufacturingProcesses	3	1	4	8	III	6
20ME34P	FluidPowerEngineering	3	1	4	8	III	6
20ME41P	OperationsManagement	3	1	4	8	IV	6
20ME42P	CNCProgandMachining	3	1	4	8	IV	6
20ME43P	ProductDesn&Devpt	3	1	4	8	IV	6
20ME44P	ElemofIndus Automation	3	1	4	8	IV	6
20ME45T	IndianConstitution	2	0	0	2	IV	2
20ME53I	AdvManufacturingTech	8	4	24	36	V	24
		TotalCredits					90

PROJECT/ INTERNSHIPCOURSES:

Code	CourseTitle	Hoursperweek			Sem	Credits
		L	T	P		
20ME61S	Internship/project	-	-	-	VI	16
TotalCredits						16

COMPONENTSOFTHE CURRICULUM

Component	TotalCredits	TotalContactHrs	%ofTotalCredits
GeneralStudies	4	6	3.1
AppliedScience Courses	8	10	6.1
AuditCourses	6	6	4.5
BasicEngg &TechnologyCours	8	12	6.1
DepartmentalCore Courses	90	124	68.2
Project/ InternshipCo	16	40	12
Total	132	194	100



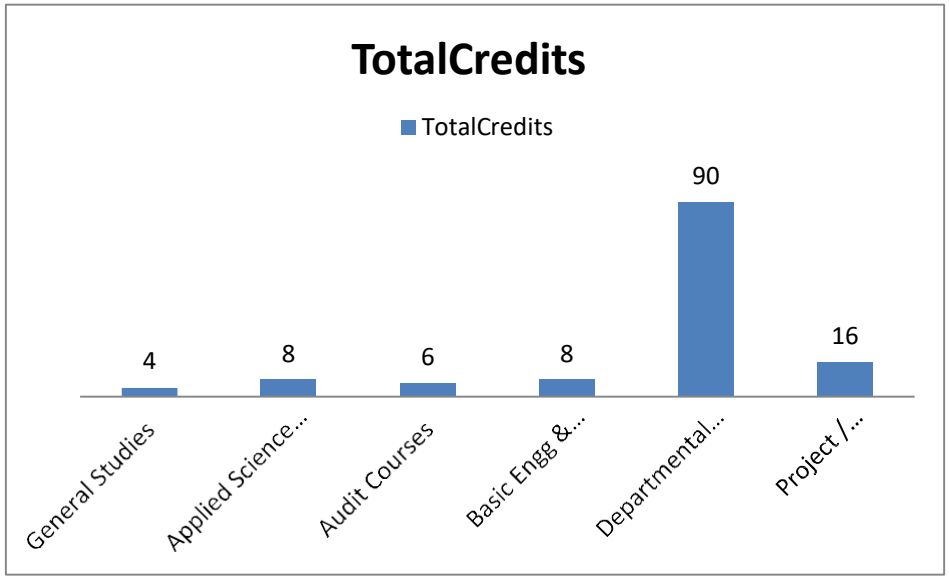


Fig2.1:CURRICULUMCONTRIBUTION(2020CURRICULUM)

Asper thecurricular mappingPO3,PO5,PO6, and PSO3arecomparativelylow.Hence,thefollowingactivitiesareidentified tosupplementmappingof

POs andPSOs asshown in table2.1.1.2.

Sl. No.	Activities	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
1	IndustrialVisit	√	√		√	√	√	√	√	√	√
2	InteractionwithIndustryExperts	√	√		√	√	√	√	√	√	√
3	Workshops	√			√	√	√	√	√	√	√
4	MiniProject	√		√	√	√	√	√		√	√
	Participation in CommunityServic					√		√			
6	Yoga					√		√			
7	ProgramsonSoftSkill					√	√	√			

8	ParticipationinNCCandNSS					√		√			
9	CulturalActivities					√					
10	ParticipationinSports					√		√			
11	Experiments Conducted BeyondSyllabus	√	√		√			√		√	

Table2.1.1.2:IdentifiedactivitiestosupplementmappingofPOsandPSOs

A.Processusedtoidentifyextentof complianceof curriculumforattainingPOs&PSOs(15)

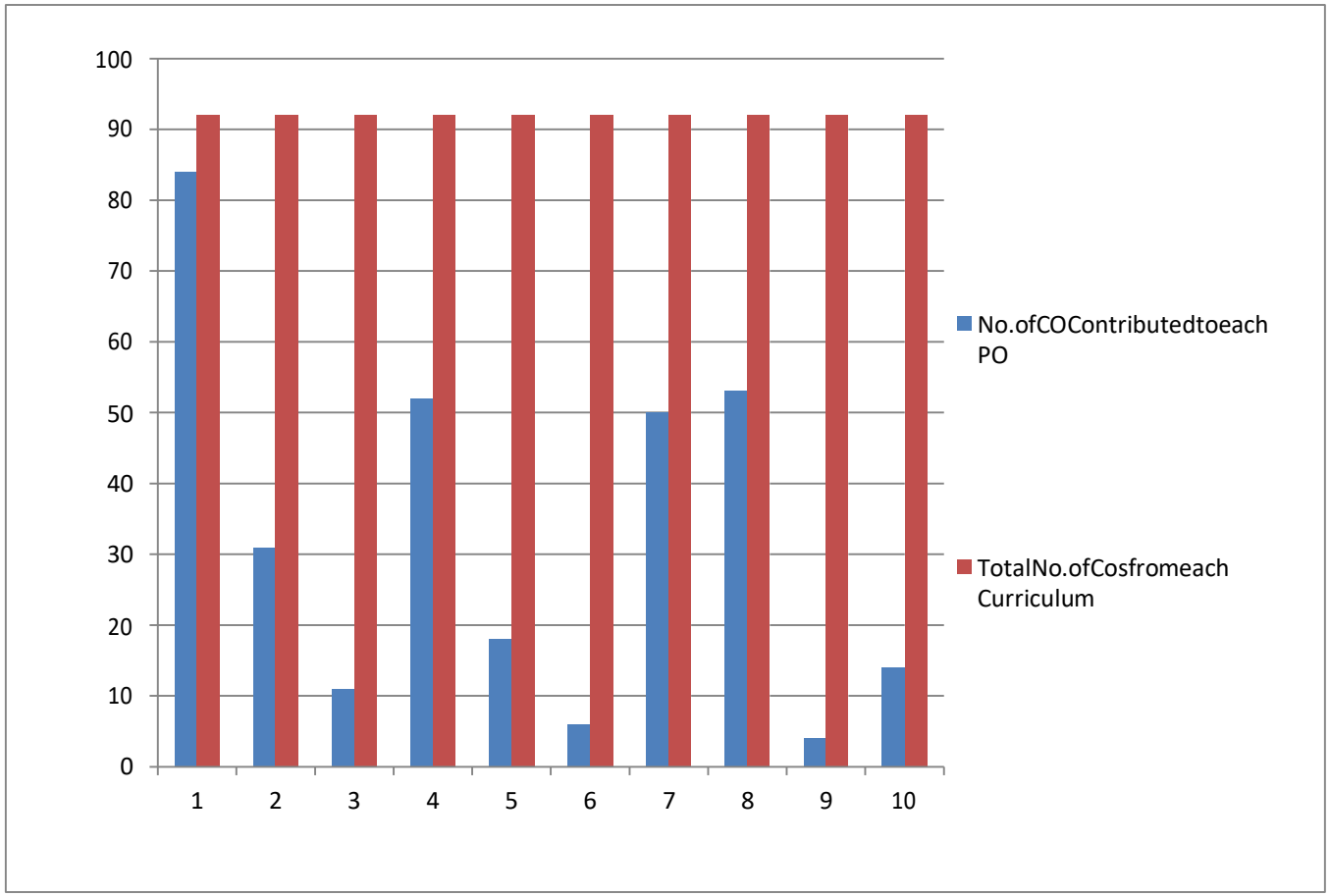
Sl. No.	SEM	Course	Course Index	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
1	1	EnggMaths	CO101.1	3						3			
2			CO101.2	3						3			
3			CO101.3	3						3			
4			CO101.4	3		3				3			
5			CO101.5	3		3				3			
6	1	MFE	CO102.1	3			3				3		
7			CO102.2	3			3				3		
8			CO102.3	3			3				3		
9			CO102.4	3			3				3		
10			CO102.5	3			3				3		
11	1	Communication Skills	CO103.1	3	3					3			
12			CO103.2	3	3					3			
13			CO103.3	3	3					3			
14			CO103.4	3	3					3			
15	1	CAED	CO104.1	3			3				3	3	
16			CO104.2	3			3				3	3	
17			CO104.3	3			3				3	3	
18			CO104.4	3			3				3	3	

19	1	EVS	CO105.1	3				3		3			
20			CO105.2	3				3		3			
21			CO105.3	3				3		3			
22			CO105.4	3				3		3			
23			CO105.5	3				3		3			
24			CO105.6	3				3		3			
25	2	PMS	CO106.1	3	3			2		3			3
26			CO106.2	3	3	2				3			3
27			CO106.3	3	3	2				3			3
28			CO106.4	3			1		1	3			3
29			CO106.5	3	3			2		3			3
30			CO106.6	3				2		3			3
31	2	SALAB	CO107.1	3	3		3	3		3			
32			CO107.2	3	3		3	3		3			
33			CO107.3	3	3		3	3		3			
34			CO107.4	3	3		3	3		3			
35	2	FEEE	CO108.1	3			3						
36			CO108.2	3			3						
37			CO108.3	3			3						
38			CO108.4	3			3						
39			CO108.5	3			3						
40	2	ITSkills	CO109.1	3			3			3			
41			CO109.2	3			3			3			
42			CO109.3	3			3			3			
43			CO109.4	3			3			3			
44			CO109.5	3			3			3			
45	2	MWP-1	CO110.1	3			3						
46			CO110.2	3			3						
47			CO110.3	3			3						

48			CO110.4	3			3						
49	3	MOM	CO201.1	3							3		
50			CO201.2		3						3		
51			CO201.3	3	3		3				3		
52			CO201.4	3	3		3			3	3		
53	3	MTT	CO202.1						3		3		
54			CO202.2	3			3				3		
55			CO202.3	3	3		3				3		
56			CO202.4	3	3		3			2	3		
57	3	MP	CO203.1	3			3				3		
58			CO203.2	3			3				3		
59			CO203.3	3			3			3	3		
60			CO203.4	3						3	3		
61	3	FPE	CO204.1	3			3				3		
62			CO204.2	3	1		3				3		
63			CO204.3	3							3		
64			CO204.4	3			3			2	3		
69	4	OM	CO205.1	3							3		
70			CO205.2	3	2					3	3		
71			CO205.3	3							3		
72			CO205.4	3			1	1		3	3		
73	4	CNCP&M	CO206.1	3			3				3		
74			CO206.2	3	1						3		
75			CO206.3	3			3			3	3		
76			CO206.4	3			3			3	3		
77	4	PDD	CO207.1	1							3		
78			CO207.2			3	3				3		
79			CO207.3			3	3			2	3		
80			CO207.4			3	3			2	3		

81	4	EIA	CO208.1	3							3		
82			CO208.2	3	3					2	3		
83			CO208.3		3						3		
84			CO208.4	3						2	3		
85	4	IC	C0209.1						3	3			
86			CO209.2						3	3			
87			CO209.3						3	3			
88			CO209.4						3	3			
88	5	AMT	CO301.1	3							3		3
89			CO301.2	3	3					2	3		3
90			CO301.3		3						3		3
91			CO301.4	3						2	3		3
92	6	Internship/ Project	CO302.1	3	3	3	3	3	3	3	3		3
93			CO302.2	3	3	3	3	3	3	3	3		3
94			CO302.3	3	3	3	3	3	3	3	3		3
95			CO302.4	3	3	3	3	3	3	3	3		3
Average				**2.97**	**2.82**	**2.81**	**2.92**	**2.72**	**2.80**	**2.81**	**3**	**3**	**3**

No.ofCOContributedtoeachPO	**84**	**31**	**11**	**52**	**18**	**6**	**50**	**53**	**4**	**14**
TotalNo.of CosfromeachCurriculum	**95**	**95**	**95**	**95**	**95**	**95**	**95**	**95**	**95**	**95**
% Contribution fromeach PO	**91**	**34**	**12**	**57**	**20**	**7**	**54**	**58**	**4**	**15**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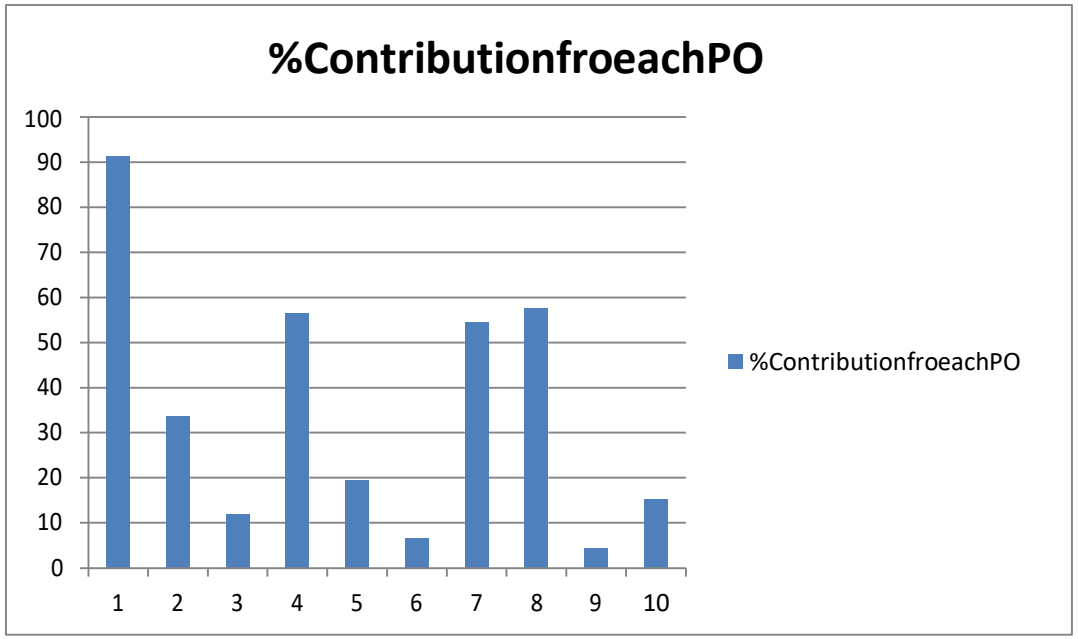
No.ofCOContributedtoeach PO
TotalNo.ofCosfromeach Curriculum



B. Listthecurriculargapsfortheattainmentof PO's&PSO's:

AIdentifiedCurriculumGaps

1. CertaingapslikeknowledgeoffundamentalsinMathematicsandScience(10th level)whichisnotcoveredinthecurriculumbutarerequiredfor studiesofDiplomacurriculum.They are taught in theregularclass by allocatingadditionalhours.
2. Personalityisthemostimportantvirtueoftheengineer.Thoughsomeaspectsofpersonalitydevelopmentarecoveredinsubjectssuchas Professionalpractices,Behaviouralscience,otheressentialskillssuchasstressmanagement,interviewtechniques,importanceof teamworketc.arecoveredbyinvitingexpertsinrespective fields.

CurricularGaps:

Theshortcoming ofthe syllabusaddressed by CourseCo-ordinator,expertlecturesandacademicians asfollows:

CAY2023-24

Sl.No.	Course Code	CourseName	Gap	GapDescription
1	20ME12P	COMPUTER AIDED ENGGDRAWING	PO1,PO7	Units&Dimensions
2	20ME31P	MECHANICS OFMACHINES	PO5, PO7	Basic mathematics and operatingcalculator
3			PO5,PO7	INDUSTRIALSAFETY
4			PO5,PO7	ROADSAFETY
5			PO5,PO7	CAREEROPPORTUNITIES

CAY2022-23

Sl.No.	Course Code	CourseName	Gap	GapDescription
1	20ME12P	COMPUTER AIDED ENGGDRAWING	PO1,PO7	Units&Dimensions
2	20ME31P	MECHANICS OFMACHINES	PO5,PO7	Basic mathematics and operatingcalculator
3	20ME45T	INDIANCONSTITUTION	PO5,PO7	Human values
4			PO5,PO7	Entrepreneurship & DevelopmentProgr

CAY2021-22

Sl.No.	Course Code	CourseName	Gap	GapDescription
1	15ME01D	ENGGGRAPHICS -1	PO1, PO7	Units&Dimensions
2	15ME41T	BASICTHERMALENGG	PO5,PO7	Non-conventionalenergysources
3	15ME51T	INDUSTRIALMANAGEMENT	PO5, PO7	Pollutioncontrol
4	15ME44T	PROFESSIONAL ETHICS ANDINDIANC	PO5,PO7	Humanvalues
5	15ME51T	INDUSTRIALMANAGEMENT	PO5, PO7	Industrialsafety

Table2.1.1.5:Listof curriculargaps

B. Deliverydetails of content

beyondsyllabusLibrary/internetassignments on

contemporaryissues.Additionallaboratoryexperiments

Pre-

placementTrainingTrainin

gon Soft skills

Value addedprogramsCreative/Projects

Guestlectures,Workshops/conference , IndustrialVisits

2023-24

Sl. No.	Gap	ActionTaken	Date-Month-Year	ResourcePersonwithDesignation	Mode	No.ofStudentsPresent	RelevancetoPOs&PSOs
1	PO2,PO7, PSO1	Units & Dimensions	05/08/2023	MaheshBuddhaLecturer Science	Chalk & Talk	57	PO1,PO5,PO7
2	PO5, PO7	BasicMathematics&OperatingCalculators	26/08/2023	Panduranga &Harsha, KFIL	Chalk & Talk	50	PO5, PO7
3	PO1, PO7	IndustrialSafety	25/11/2023	Vijaykumar,Engineer, JSW,	PPT	52	PO1,PO7
4	PO5,PO7	RoadSafety	25/11/2023	Shaikshavali,Viswas MotordrivingschoolHosapete	PPT	65	PO5,PO7
5	PO5,PO7	CareerOpportunities	27/01/2024	Shivaprasad Soft	PPT	65	PO5,PO7

2022-2023

Sl. No.	Gap	ActionTaken	Date-Month-Year	ResourcePerson withDesign	Mode	No.ofStudentsPresent	Relevance toPOs&PSOs
1	PO1,PO2	Basicmathematics andoperatingcalculator	22.08.2022	PandurangaandHarshaKFILHosapete	PPT	65	PO5,PO7
2	PO5,PO7	Human values	18.07.2022	T NaziruddeenH	PPT	62	PO7

3	PO6,PO7	EntrepreneurshipDevelopmentProgramme	26.07.2022	Somashekar Joint Director, DIC	PPT	59	PO6,PO7

2021-2022

Sl. No.	**Gap**	**ActionTaken**	**Date-Month-Year**	**ResourcePersonwithDesignation**	**Mode**	**No. ofStudentsPrese**	**Relevancetо POs&PSOs**
1	PO2,PO7, PSO1	Units & Dimensions	08.11.2021	Smt. Jotsna GDatar, Sl	Chalk &Talk	57	PO1,PO5, PO7
2	PO6,PO7	CareerOpportunities	18.01.2022	GK ShivaprasadMan	PPT	65	PO5,PO7
3	PO5,PO7	IndustrialSafety	31.01.2022	VijaykumarEngineer,JSW	PPT	65	PO5,PO7
4	PO5,PO7	Human values	30.06.2021	T NaziruddeenH	PPT	62	PO7
5	PO5,PO7	Interviewtechniques	15.06.2021	T NaziruddeenH	PPT	65	PO7
6	PO6,PO7	EntrepreneurshipDevelopmentProgramme	22.07.2021	Somashekar Joint Director, DIC	PPT	65	PO6,PO7

2.2 Teaching– LearningProcess(160) **Institute Marks:**

2.2.1. Describeprocessesfollowedto ensure/improvequalityof Teaching&Learning basedon followingpoints(25) InstituteMarks20

AAdherencetoAcademic Calendar(3) Institutemarks 3

- AcademiccalendarprovidedbytheBoardisusedasreference&thedetailedcalendarofeventsispreparedbytheinstituteandthemthe departmentcalendarofeventsispreparedatthebeginningofthesemesterwhichincludesguestlecturers,workshops,industrialvisit,inplant training,sportsday,internalassessmenttest,laboratoryandsemesterendexamination.
- Thefaculty andstudentsadhere totheDepartmentcalendarofevents.
- ProgramCo-ordinator monitorsthe academic calendar oftheDepartmentthroughoutthesemester.

Maintenanceof Coursefiles:

Foreachcourse,file ispreparedbytheconcernedfaculty,The coursefile consistsoffollowingitems.

1. **Courseplan:**Courseplansforeachandeverycoursearepreparedbythecourseco-ordinator,beforethecommencementofthesemesteranditisdulyapprovedaftercarefulexaminationbytheboard.Thecourseoutcomesaredefinedforeachcoursewhicharelinkedwith PO's.
2. **QuestionBank:** Question banks arepreparedforeachunitinthe coursebased on thecourseobjectivesandconsideringthenatureoftheboardquestionpapers.Thepreviousquestionpapersofboardarealsomaintainedinthecourse files.
3. **Assignment:**Questionsandtestquestionpapersalongwithmodelanswersareincludedinthecoursefiles.
4. TheCIEreportsandrubrics of eachcourseisalsoincludedinthecoursefile.

B.Use ofvariousinstructionalplanningand deliverymethods(3) InstituteMarks2

LecturemethodandInteractive learning:

Thefacultyusechalk andboardand lcdprojector&screeninteachingStudentsarealsoencouragedtoactuallyinteractduring thelecturehourbygettingthedoubtsclarified on the spot.

Thefacultyusesmodels,chartsfor interactive teaching.

Project-based learning :

During theperiodofstudyinthe5th&6thsemester,manyrealtimeprojects aregiventothestudentsandthey areguided by faculty.

Computer-assistedlearning:

TheCollegehasrequirednumberofcomputers,printers,projectors.Theseareeffectivelyusedforteaching.Thestudentsarealsoen couraged topreparePPTs astheassignmentsandtutorials.

SMARTclassRoom

FacultyareusingSMARTclass roomtointeractivesession,projectorisusedfordemonstration,video(NPTEL),audioof classes

C. Methodologiestosupportweakstudentsand encouragebrightstudents(4) InstituteMarks4

Guidelinestoidentifyweakstudents

Thementorsregularlyconductmeetingsregardingprogressoftheirmenteesandareresponsibletoidentifystudentswhoscoredlessthan60%mark sintheirinternals.UndertheHODdirection,theStudentsmentorsevaluatestheprogresscardofthosestudentswhoscorebelow60%marksinthreeormoresubject andbelow75%attendanceareconsideredasacademicallyweakstudentsandsameisalsointimatedtotheirparents.

MENTORINGSYSTEM

IdentificationCriteria	Actionstaken
Studentsscoringlessthan60%ofmarksinInternalAssessment	1. Studentmentorsfollowstheirprogressregularlyadvisingstudentsaboutattendingclasses,makingupclassesmissed,andgettingadditionalhelp. 2. Intimatingparents tocounseltheirwards, 3. Conductionofremedialclasses
Students whofailinsemesterexams	Conductionofextraclassestothosewhofailinprevioussemestersubjects.

Thebrightstudentsareencouraged by givingmementosintheengineersdaycelebrations.

D. Quality of classroom teaching(3) **InstituteMarks2**

Thefollowinginnovative teachingmethodsareadoptedby thefaculty:

- Computersareusedfor teachingpurposesandinternetfacilityisavailabletostudentsandfaculty.
- FacultymembersaretakingadvantageofsourceslikeNationalProgrammeonTechnologyEnhancedLearning(NPTEL),internetsourcesfor effectiveteaching.
- SmartBoard,LCDsetc.areusedforteachingpurposes.
- Wellstructuredcourseplans areprepared/revisedforalltheoryandpracticalcourses on aperiodtoperiodbasis,scrutinized by HODs.

E. Conduct ofexperiments(3) **InstituteMarks2**

Studentscarryoutexperimentsasspecifiedinthecourseby theboard,Alllaboratorieshave excellentfacilities,Foralllabs,manualsareprovided.Theobservationsare checkedandverifiedbyfaculty andrecordbooks aremaintainedsystematically.

F. ContinuousAssessmentinthe laboratory(3) **InstituteMarks2**

Continuousassessmentsystemisalsoimplementedforassessmentoflaboratorywork.Theassessmentisdoneonthebasisoftwo IAtestsconducted,on eafter50%ofcoveringofsyllabusandtheotheraftercompletionofallexperimentsinthelab.Thetestsarevaluedfor50marksarereducedto10marks.10 Marksarealsoawardedforthegradedexercisesconductedbythestudent.5marksareawardedtothe activitysubmittedbythe student.

G. Student feedback ofteachinglearningprocessandactiontaken(6) **InstituteMarks5**

Feedbackistakenfromstudentsone atthemiddleofthesemesterandtheotherattheend..

Thishelps usevaluatetheeffectivenessofsyllabuscoverage,coursedeliveryandassessments.

Process

- Thisfeedbackistakenonlinefromallstudentsonceeverysemesterfor everycourse
- Theassessmentisdone based on course,deliveryofInstructionsandAssessment.
- Theconsolidatedreportwiththe averagepercentageof ratingsgiven byeverystudentisgeneratedforeverycourseandanalyzed.

GOVERNMENT OF KARNATAKA
Department of Technical Education
INTERNAL QUALITY ASSURANCE CELL
Mid semester - course feedback format
(With Effect From 2015-16 for 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 reference				✓	
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 acitivity and to conduct remedial drill.				✓	
12	Regularity in assessment and evaluation of laboratory log books / practical records / work shop records.					✓

From :
Student Name: Arun Pandey Registered No. 316MC noo6 Signature: Arun
Name of the Polytechnic : GMAE'S Institution Code : 316
Programme : Mechanical Semester : 6
Course Name and code : Mechatronics & 15ME54P

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

Name of the Polytechnic : GMAE'S
Name of the Programme : Mechanical Semester : 6
Course Name & Code : Mechatronics 15ME54P Name of the faculty : Sri B Hanamanth
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 in course outcomes				✓	
6	Availability of text books / study materials					✓
7	Attainment of course outcomes					✓
B. Delivery of Instructions						
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	Skills 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					✓
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 test / 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 records / work shop records.					✓
6	Conduct of Student activities and evaluation of activity records					✓
7	Relevancy of course contents in attaining course outcomes					✓
	Sum of (A+B+C)					

Student Name : G Arun Pandey Register No : 316MEA006 Signature of the student : Arun

2.2.2 Initiatives toimprovethequalityofsemestertestsandassignments(15) **InstituteMarks12**

AProcessfor internalsemesterquestionpapercuttingand evaluationandeffectiveprocessimplementation(5) InstituteMarks 4

1. CourseCo-Ordinatorwillsettheinternalquestionpaperreferringtopreviouslyheld Boardexaminationsquestionpapersandfromthequestionbankgiven by theboardforeachunit.Thestudentswillwritethe internalassessmenttestinbluebooks.
2. Whilesettingquestionpaper,theCourseCo-Ordinatorensuresthatcognitivelearninglevelsarefollowedand CO-POmappingismentioned.
3. questionpapersarecollectedfromtheCourseCo-Ordinatorsandoneamongthemisselected byProgramCo-Ordinatorinordertomaintaintransparency.
4. Thescheme of evaluation andmodelanswerscriptare preparedby CourseCo-Ordinatorandmaintainedincourse file.
5. TheCourseCo-Ordinatorevaluatesthe bluebooksasperthepreparedscheme of evaluationandmodelanswerscript.
6. Theconsolidatedtestreportpreparedbyprogramco-ordinatorisdisplayedonthenoticeboardforstudentsreference.Andthetestreportissenttoparents alsothroughsms.
7. FinalizedIAmarks(50M) are obtained bytakingaverageof 3 CIEtests(30M), average of(2 CIEtests(20M)andactivity(20M)).
8. TheinternalassessmentmarkswillbesenttotheBoardaftertheverificationdonebyIAVerifierassignedfromBoardandsameisdisplayed onthenoticeboard.

B.Questionpapersettingtakingintoaccountoutcomes/learninglevels(5) **InstituteMarks4**

Toevaluate thestudent'sperformance,CIEareconductedbasedonthesyllabuscoveredasprescribed bytheBoard.

Thequestionpaperisprepared bytheCourseCo-Ordinatorinorder toassesstheunderstandingofstudentknowledgeand skill.

TheCIEquestion paperincludestheCO-POmappingand alsoitcoverscognitivelevels(Remember/Understanding/AnalyzeandApplication……).

Three CIEquestionpapersare prepared by CourseCo-Ordinatorinsucha way thatallcourse outcomesarecovered.

C. Coscoverageinclasstest / mid-termtests andassignments(5) **InstituteMarks4**

Eachcourse willhave 3to6 welldefinedcourseoutcomes.

Course Co-Ordinatorwillcoversyllabusasplanned andconducttheCIEtoevaluate courseoutcomes.

Course Co-Ordinatordecidescoverageof COsineachtestbased on the hoursallottedfor eachunitbythe Board.Course Co-Ordinatorwillgiveactivity/assignmentsforeachcourseandpertainingtoCOs mentionedinthesyllabus.

2.2.3 Qualityof Experiments(15) **Institute Marks**

Experimentalmethodologies(5) **InstituteMarks4**

1. TheMechanicalEngineeringDepartmentiswellequippedwithdifferentlaboratorieslike Mechanicsofmaterialslab.,CNClab,Fluidpowerlab andWorkshops.
2. TheExperimentsarecarriedoutby concernedsubjectlecturer withthehelp oflaboratory assistant/Technician and labattendant.
3. Therecordiswritten bystudentsaftertheexperimentisdone.TheevaluationofLabrecordsaredonein a continuousevaluationmanner.
4. Thejobsinworkshoppracticelikefitting,carpentry,forging,sheetmetal,foundryandweldingarecarriedoutbystudentsasperthe prescribedsyllabus.
5. .TheMachineshopiswellmaintainedwithsufficient machines, sothatthestudentscanperformallthejobs.
6. Themaintenanceofdifferentmachinesandequipmentsareperiodicallydonebylabinstructorsandmechanicsforbetterqualityofexperimentsbystude nts.
7. Log bookismaintained bythelaboratoriesthroughouttheyear.
8. Therequirementsofconsumables forlaboratory/workshopsisgivenwellinadvance, sothatpractical canbeconductedwithoutanydelay.
9. Therepair &maintenancerelatedrequirementof laboratoryisalsocommunicatedtoPrincipal,periodically.

A. Innovativeexperimentsincludingindustryattachedpractices,virtuallabs (5) **InstituteMarks4**

Studentsare sentto Govt ToolRoomTrainingCentre,Mariyammanahallifortraining onlatestmachines.Studentsare senttoDistrictIndustriesCentre forEDPprogramseveryyear.

Variouslinksgiveninsyllabusaresharedtostudents&theyareinformedtocollectinformationaboutthetopicsofthecourse&theyareaskedto submitthemas activities.

B. Relevancetooutcomes(5) **InstituteMarks4**

Inorder toprovidepracticalknowledgeforstudent'swithrespecttoprograms,syllabuscontainsboththeoretical&practicalcourses.

Thegradedexerciseasperthesyllabus ofthe laboratoryismappedwithCOs, POs&PSOs

2.2.4 Qualityof StudentsProjectsandReportWriting(35) **InstituteMarks23**

A. Identificationofprojects andallocationmethodology(3) **InstituteMarks2**

1. Project workisstartedwhenthestudentsareinof5th semester(2015curriculum).
2. Studentsare divided intobatches. The batchwillcompriseof1 distinctionholder,2firstclassstudents, 3passstudentsand2studentswithbacklogs.
3. TheProjectCo-Ordinator andProgramCo-Ordinator willallottheprojectguidetoeachbatch.
4. Studentsare providedwithbriefideaof variousfieldsforselectingthe projectideas.
5. Thelistof previousyearprojects isdisplayedatnoticeboard whichensures norepetitionofprojectworkand alsoencouragesstudentstoenhancethepreviousworks.
6. TheProjectguidefinalizesthetopic andstudentsareaskedtosubmita synopsisreportofselectedtopictothe program co-ordinator.
7. TheProjectworkbeginsafterthesynopsisisapprovedby the programco-ordinator.
8. From2022-23 (2020curriculum),thenewsyllabusgives an option tochooseeitherprojectorinternship.Studentsopt forgoingfor internshipastheywillget industrialexposureandtheyare alsopaidstipendduringinternship.

B. Types and relevanceoftheprojectsandtheircontributiontowardsattainment ofPOsand PSOs(5) **InstituteMarks 4**

Theprojecttopicsareselectedbythestudentsfromtheareasgivenbytheboard:automobilerelated,fluidpowerandcontrol,agricultureproblems,non-conventionalenergy,applicationbasedproject,studybasedprojects,improvementoveranyexistingsystemand anyequipment/accessoriesrequiredforthedepartment.

Projectworkisoneofthedirect measurementtoolstoassesstheattainment levelofPOs&PSOs. TheprojectsundertakenbythestudentsofMechanicalEngineeringintheyears2021-22,2020-21and2019-20aregiveninthefollowingtablewhich showstherelevanceofprojectstowards the attainmentofPOsandPSOs.

CAY2021-2022

Sl.No.	NameoftheProject	NatureofProject	RelevancetoPOs&PSOs
1	DualSideShapermachine	Fabrication	PO1,PO6,PSO2
2	ConveyormodelusingPLC	ApplicationBased	PO1,PO6
3	Manually operated multinozzlesspra	Fabrication	PO1,PO6,PSO2
4	Pneumatic Sheet metalcuttingm	Fabrication	PO1,PO6,PSO2
5	Double saw hacksawmachine.	Fabrication	PO1,PO6,PSO2

CAY 2020-2021

Sl.No	NameoftheProject	NatureofProject	RelevancetoPos&PSOs
1	PEDALOPERATED WETGRINDER	FABRICATION	PO1,PO6,PSO2
2	SOLAR TREE	APPLICATIONBASED	PO1,PO6
3	SOLARSTREETLIGHT	APPLICATIONBASED	PO1,PO6
4	SOLAR OPERATEDS	APPLICATIONBASED	PO1,PO6
5	SOLAR OPERATEDS	APPLICATIONBASED	PO1,PO6

CAY m1 2019-2020

Sl.No	NameoftheProject	NatureofProject	RelevancetoPOs&PSOs
1	MULTIROTARYCARPARKING	APPLICATIONBASED	PO1,PO6
2	ELECTRICBICYCLE	FABRICATION	PO1,PO6,PSO2
3	AUTOMATICFERTILIZER SPRAYER	FABRICATION	PO1,PO6,PSO2
4	ECOFRIENDLYROAD CLEANING MACHINE	FABRICATION	PO1,PO6,PSO2
5	APPARATUS TOFINDCO-EFFICIENTOFDISCHARGETHROUGHV&RECTANGULARNOTCH	EXPERIMENTBASED	PO1,PO6

C. Process formonitoringandevaluation(5) **InstituteMarks4**

Projectworkiscarriedoutintwosemesters.Phase-Iiscarriedoutin5thsemester.Phase-IIiscarriedoutin6thsemester(2015curriculum)

1. Studentsincorporatethe suggestionsgiven by theProjectguideandstarttheirproject workat6thsemester.
2. Projectguide monitorsand reviewsprogressoftheprojectonceinaweekandensuresthatthestudents completetheirprojectsintime.
3. Thestudentswillmaketheprojectreportafterthecompletionof project.
4. Projectwork-Ihasonly CIEof25marks.
5. Projectwork-IIhas bothCIEof25marks&SEEof 50marks.
6. InternalevaluationisdonerespectiveProjectguides,basedontheinvolvementof eachstudentinthe project.
7. Theexternalevaluationisdone byinternaland external examinerallottedbytheBoard.
8. Theexaminersevaluatethe projectbased onthe schemeof evaluationgiven bytheBoard

SchemeofevaluationPhase–I (ProjectWorkI)(2015curriculum)

Sl.No.	Performance	Marks
1	ProjectIdentification	**05**
2	ProjectSynopsis	**10**
3	IndustrialVisit&Report	**10**
	TOTAL	**25Marks**

Phase–II(Project WorkII)CIE(2015curriculum)

Sl.No.	Performance	Marks
1	Relevanceofthesubjectinthepresentcontext	**05**
2	LiteratureReview	**05**
3	PlanandscheduleofFabricationofthemodel/Datacollection/repairandOverhaulingwork/creation	**10**
	Results&Discussion	**05**
	TOTAL	**25Marks**

Phase– II (ProjectWork II)SEE(2015 curriculum)

Sl.No.	Performance	Marks
1	Relevanceof the subjectinthepresent context	**05**
2	LiteratureReview	**05**
3	Fabricationofmodul/datacollection/Repairandoverhaulingwork/creation	25
4	Results&Discussion	**05**
5	Presentation	**10**
	TOTAL	**50Marks**

D. Process toassessindividual andteamperformance(5) **InstituteMarks4**

IndividualperformanceisassessedbyProjectguidebased on viva-voce/explanationandpresentation.Rubricsisusedtoevaluate the individualperformanceinprojectwork.

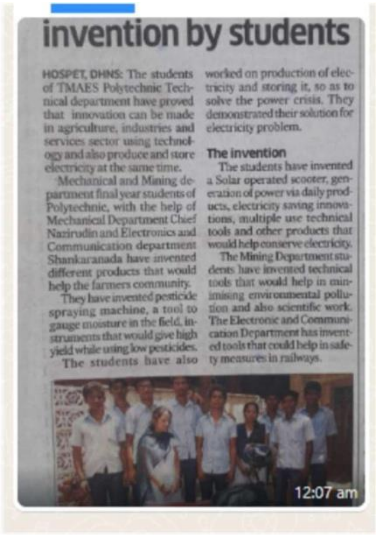
Batchperformanceisjudgedby arrangingDepartmentalprojectcompetitions&exhibitions.

E. Qualityofdeliverable,workingprototypes(12) **InstituteMarks5**

Thequalityofprojects are evaluatedby theconcernedprojectguides&HOD.IAmarksareawardedtoindividualstudentsbasedontheirperformance.

1. Quality of deliverablesareanalyzedbasedontheperformance indicatorsin theschemeof evaluationwhichaccessthelevel ofinnovation,productdevelopment,researchorientation,presentation,socialrelevance,problem-solvingapproach,etc.
2. Studentsareencouragedtoprepareworkingprototypesofallprojectsifnotdemomodelsareprepared.

E.Paperspublished/Awards/Recognitionreceived byprojectsatState/Nationallevel(5) **InstituteMarks4**



2.2.5 IndustryInteractionand IndustryInternship/Training(30) **InstituteMarks27**

A.IndustrysupportedLabs (2) **InstituteMarks2**

Studentsaresentto Govt ToolRoomTrainingCentre, Mariyammanahallifortraining onlatestmachines.Studentsare senttoDistrictIndustriesCentre forEDPprogramseveryyear.

B. DeliveryofappropriateCourseworkbyIndustryexperts(5) **InstituteMarks5**

2023-2024				
Sl. No.	Date	Topic	GuestDetails	No. ofstudents
1	27/1/24	Careerop portunities	ShriShivaprasad.G.KSof tAcademy,Hosapete	55
2		Industrialsafety	ShriVijaya Kumar,Engineer,JSWstee lsLtd,Toranagallu	52
2022-2023				
1	20/2/23	Careerop portunities	ShriShivaprasad.G.KSof tAcademy,Hosapete	65
2	12/11/23	Industrialsafety	ShriVijaya Kumar,Engineer,JSWstee lsLtd,Toranagallu	65
2021-2022				
1	18/1/22	Careerop portunities	ShriShivaprasad.G.KSof tAcademy,Hosapete	48
2	31/1/22	Industrialsafety	ShriVijaya Kumar,Engineer,JSWstee lsLtd,Toranagallu	52

C. IndustrialVisits/toursfor students (3) InstituteMarks3

Sl No	Name oftheindustry	Date	No of studentsattended
1	VV TechnologiesLtd,Tumakuru	3/9/21 to12/9/21	56
2	Sainath Industry (Fettling Unit)Hosapete	29.12.21	59
3	GTTC	22.12.22	59
4	GTTC		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D. Industrialtraining /internship (5) **InstituteMarks 4**

ThestudentsofPolytechnicProgramswillhaveanopportunitytobepartofoneofthemostchallengingeducationalexperiencesintheyear-3,Thestudentswillbe trainedinthespecializationpathwaysoftheirinterestthroughbootcampmodeinfifthsemester,followedby 16-weekinternship or a projectworkinsixthsemester.

Aninternshipisa professionallearningexperiencewhichoffersmeaningful,practicalworkrelevanttoastudent'sfieldofstudyorcareerinterest.Itgivesthestudentsanopportunityforexploringthevariouscareerchoicesandacquirevariedskills.Italsooffersanopportunitytobringouttheinnovative,creativeideasandenergyintotheworkplace.Thiseffectivelyaimsatdevelopingtalentandpotentiallybuildsapipelineforfuture Jobprospectsthatmaybereadyforchallengingrolesinfuture.Internshiphasbecomeverycrucialforstudentstogainon-fieldexperiencewhichactsasanadvantageforthestudentswhodonothavecorporateexperience.

Internshipsallowstudentstoexaminenewsituations,worktechniques,problem-solvingtactics,interpersonalskills,understandingoftimelinesandtargetswhichwouldotherwisenotbepossibleunlesstheywereonboard.Companieswhichplantoofferjobplacementstostudentsalsopreferhiringtheinternsforashortperiodasatrialwhereintheyhaveanopportunitytoassesstheirabilityandselectthembasedontheirobservationsoveraconsiderableamountoftime.Thisalternativegivestherecruiterabetterunderstandingofthecandidate'sworthincomparisontotheassessmentmadeincoupleofinterviewsessions.Evenfortheinternsitisawin-winsituationastheygetanopportunitytolearnthecorporateworkcultureinadvanceandlaterdemonstratetheirskillsattheirworkplace

Outcomes

AftercompletingInternship,Internswillbeableto,

- Applythetheoreticalknowledgeandskillduringperformanceofthetasksassignedininternship
- Demonstrates ofskills suchastimemanagement,positiveattitudeandcommunication skills duringperformanceofthetasksassignedininternship
- Documentthe UsecaseontheassignedTask

E.Posttraining /internshipAssessment(10) **InstituteMarks8**

TheFormativeAssessment-(ContinuousInternalEvaluation-CIE)TheFormativeAssessmentisconductedfor240marksthroughoutthecourseinthreedevelopmentalphasesasCIE-I,CIEIIandCIE-III.StudentsshallcompleteCIE-IbeforetakingCIE-IIandcompleteCIE-IIbeforetakingCIE-III,otherwisewillnotbeeligible totake SemesterEndExamination.

Continuous InternalEvaluation- CIE-Iconductedat the end of 4th week		
SlNo	**Assessmentparameter**	**Marks**
1	Submita reportto thetrainingsupervisorand copy tothecohortowner focusing on: • Overviewofthe organization • Visionandmission oftheorganization • Organization structure • RolesandResponsibilitiesof personnelin the organization • Productsandmarketperformance	50
2	Givea presentation on theabove	30
	Total	**80**

Note:CIE-1shall be assessed by the Cohort owner for 80 marksusingappropriateRubrics

Continuous InternalEvaluation-CIE-IIconducted at the endof8th week		
SlNo	**Assessment of On Job Training(OJT)-1+usecase1**	**Marks**
1	Selectanyonejobroleofhis/herinterestinanorganizationorroleassignedbythetrainingsupervisorfornextFourweeksandsubmitareporttothetrainingsupervisorandcopytocohortownerfocusing on: 1. Intern's abilityto applytheskill andtechnicalknowledge onOJT-1 2. Intern'sperformanceonassignedtasksandproject 3. Extent ofIntern'sabilitytoaddvaluetotheorganizationthroughinternship	50
2	Document a Use case ona task wherehe is working asintern	30
	Total	**80**

Note:1.CIE-IIshallbeassessedbytheIndustrialTrainingSupervisorusingcompanies'assessmentTools/Rubrics
2. CohortownershallassisttheIndustrialTrainingSupervisorduringassessmentofCIE-II

Continuous InternalEvaluation-CIE-IIIconductedat theendof12th week		
SlNo	**Assessment of On Job Training(OJT)-2+usecase2**	**Marks**
1	Selectanotherjobroleofhis/herinterestinanorganizationorroleassignedbythetrainingsupervisorfornext Fourweeksandsubmitareporttothetrainingsupervisorandcopytocohortownerfocusing on: 1. Intern'sabilitytoapplytheskillandtechnicalknowledgeonOJT-2 2. Intern'sperformanceonassignedtasksandproject 3. Extent ofIntern'sabilitytoaddvaluetotheorganizationthroughinternship	50
2	Documenting of another Use case on atask where he isworkingasintern	30
	Total	**80**

Note:

1. CIE-IIIshall be assessedby theIndustrialTrainingSupervisorusingcompanies'assessmentTools/Rubrics
2. Cohort ownershallassisttheIndustrialTrainingSupervisorduringassessment of CIE-III

TheSummativeassessment-Semester EndExamination(SEE)

During thesemesterendexamination,studentsshalldemonstratetheoutcomes oftheirInternshiptothePanelof Examinerscomprises of aCohortownerandanexternalSubjectexpert Theevaluationcriteriaareasfollows

SlNo	SEEEvaluationCriteria	Marks
1	**Presentation shallinclude**: 1. Overviewof the organization,vision,mission,structure,rolesandresponsibilitiesofpersonnel's,products, marketPerformanceetc - (20marks) 2. Theroleperformedintheorganization duringOJT-IandIntern'sabilitytoapplytheskillandtechnicalknowledge–(20marks) 3. Usecase-1-(20marks) 4. Theroleperformedintheorganization duringOJT-IIandIntern'sabilitytoapplytheskill andtechnicalknowledge–(20marks) 5. Usecase-2-(20marks)	100

2	EvaluationofcomprehensiveInternshipReportwithspecialfocusonorganizationprofile,OJT-1,OJT-2,Usecase-1,Usecase-2andcontribution Madetotheorganization	60
	Total	**160**

Note: Cohort ownerandExternalsubjectexpertshallassesstheinternseparatelyusinganappropriaterubricsandaveragemarkstobetabulated

F. ContributiontoCommunityrelatedProjects/activities(5) **InstituteMarks5**

Thestudentsare encouragedtomakeprojects on agriculture,andallothercommunityrelatedissues

Sl No.	NameoftheProject	NatureofProject	Relevance toPOs&PSOs
1	HYBRIDVERTICALWINDTURBINE WITHSOLARSYSTEM	FABRICATION	PO1,PO6,PSO2
2	PEDALOPERATEDHACKSAWWITHELECTRICITYGENERATION	FABRICATION	PO1,PO6,PSO2
3	MINIWINDMILLPOWER GENERATIONSYSTEM	FABRICATION	PO1,PO6,PSO2
4	SOLAROPERATEDLIGHT&FAN	FABRICATION	PO1,PO6,PSO2

2.2.6 InformationAccessFacilitiesand StudentCentricLearningInitiatives(15) **InstituteMarks12**

A. AvailabilityofFacilities&EffectiveUtilization:Specifythefacilities,materialsandscopeforself-learning,Webinars,NPTELPodcast,MOOCsetc(10) **InstituteMarks8**

- Onesmartclassroomwith LCDprojectorisprovidedfor effective teachinglearning.

- Librarywithsufficientvolumesof booksareavailableforstudents&staff.
- Areferencesectionisalsoprovidedfor thestudents.
- NPTELvideosareshowntostudentsinthesmartclassroom.
- Adepartmentlibraryisalsoprovidedfor givingadditionalbooksforstudents.
- TheInstitutionhasaccesstomany e-journals
- AnISTEstudentchapter isalsostartedinthecollege.

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

- Amentoringsystemisfollowedinthedepartmenttomonitortheprogressofstudents.
- Theattendancereports&CIEreportsaredisplayed onthenoticeboardandare alsosenttoparents.
- Thestudentsaregivenactivitieson newtopicsfromdifferentunitsofeach course.

2.2.7 NewInitiatives for embeddingProfessionalSkills(15) **InstituteMarks13**

A. EmployabilityskillenhancementInitiativesand effective implementation (8) **InstituteMarks7**

Entreprenuershipdevelopmentprogramsareconductedby DistrictIndustriesCentreeveryyear.The detailsareasfollows

Sl No.	Date	ResourcePerson&Designation	No. ofstudentsattended
1	20.02.2023	Somashekar JointDirector,DIC	59
2	22.07.2022	Somashekar, JointDirector,DIC,Ballari	46
3	16.09.2021	Somashekar, JointDirector,DIC,Ballari	52
4	06.11.2020	Somashekar, JointDirector,DIC,Ballari	48

A. PersonalitydevelopmentrelatedInitiatives &effectiveimplementation(7) **InstituteMarks6**

Sl No.	Date	Topic	Resource person &designatio	No. of studentsatten
1	18.07.22	HumanValues	T.Naziruddeen,HOD	62
2	29.6.22	Careeroppurtunities	G.K.Shivaprasad,Manager	62
3	15.6.22	InterviewTechniques	T.Naziruddeen,HOD	65
4	13.2.21	CareerPlanning	D.Umesh,Trainer	60

2.2.8 Co.-curricular&ExtraCurricularActivities(10) **InstituteMarks9**

- Blooddonationcampsareorganized by NSSunit oftheinstitution.
- Plantingtreesprogramsareconductedeveryyearon WorldEnvironmentday.
- Yogatrainingprogramsareconductedeveryyear.

CRITERIA - 3

COURSE OUTCOMES ANDPROGRAM OUTCOMES

3 COURSEOUTCOMESANDPROGRAMOUTCOMES(100) **TotalMarks 87**

Definetheprogramspecificoutcomes

PSO1	Thestudentswill beabletoapplynecessaryconceptsincoreareasofmechanicalengineering.
PSO2	Thestudentswill beabletodevelop&optimizesolutionsincomputeraideddrawing&manufacturingplatforms
PSO3	Thestudentswillgainteam spiritfor workingina varietyofmanufacturingindustries,Automobile &powersectorsaswellaspursuinghigherstudiesforcontributiontoresear

3.1 Establishthe correlationbetweenthecoursesandthe POsand PSOs(20) **InstituteMarks19**

3.1.1 CourseOutcomes(SARshouldinclude courseoutcomesofonecoursefromeachsemesterofstudy,however,shouldbepreparedforallcourses)(5)

InstituteMarks5 Note: Number of OutcomesforaCourseisexpectedtobe3to 5.

Course Name: MaterialforEngineering C:102 CourseYear : 2020-21

CourseName	Statements
C102.1	Abletounderstand thevariouspropertiesof materialsu inengineering
C102.2	AbletoSelectrelevantferrousmaterials andcastiron,non-ferrousmetalsandadvancedmaterialsforEngineeringapplications
C102.3	AdoptInternationalpractice ofmaterialdesignationandcodingsystem
C102.4	Abletofindrelevantheattreatmentprocess foralteringthepropertiesof metals

C102.5	AbletoSuggestrelevantSurface treatmentprocessforprotectingthe surfaceofmaterials

Course Name: ProjectManagementSkills C107 CourseYear: 2020-21

Course Name	Statements
C107.1	Applytheconceptsof ProjectManagementtorealprojectswhichareexpressedinthe
C107.2	EstimateProjectresourcesneeded– Time,MaterialandEffort,and Planforexecution
C107.3	Understand,analyse andassessthe risksinvolvedina projectandplan formanagingthem
C107.4	Use ProjectManagementSoftwareandprocessestotrackandcontrolProjects
C107.5	Conductinspection of Projects andauditprogressandbills
C107.6	UnderstandtheDigitalTechnologytrendsinProject managementandconceptslikeSmartcities

CourseName: MechanicsofMaterials C: 201 CourseYear : 2021-22

Course Name	Statements
C201.1	AnalyseSimpleStressesandStrains on givenStructural memberthatissubjectedtoTensile,CompressiveandShearloads by
C201.2	DrawShearforceDiagram(SFD)and Bending momentDiagram(BMD)andAlso,AnalyseBendingStressesina Beamusing Finiteelementmethods(FEM)software
C201.3	Demonstratetheapplication of finiteelementformulationstosolveboth OnedimensionalandTwodimensionalProblems.

C201.4	Demonstratetheapplication of FEMsoftwareforValidation ofboth OnedimensionalandTwo dimensionalProblems

Course Name: OperationManagement C:205 CourseYear : 2021-22

CourseName	Statements
C205.1	Prepare aproductioncapacityutilizationplanbased ondemandforecast andavailable productioncapacityfor agivenproduct.
C205.2	Prepare amasterproduction planbased ona productioncapacityutilizationplanand amaterialmanagementplanfor a
C205.3	Prepare aprocessplanusingtime study,motionstudyand other appropriatemethodstoensureprocessefficiency.
C205.4	Prepare aqualityassuranceplan basedon a givenqualitymodelwhichissuitable for

CourseName: AdvancedManufacturingTechnologies. C:3 01 CourseYear : 2022-23

CourseName	Statements
C301.1	Selectsuitable Non-ConventionalMachiningprocesswithProcessparameterandmachineth e componentas per thegivendrawing.
C301.2	Prepareagiven component by using3DPrintingmanufacturingprocess.
C301.3	Checkthecomponents forFunctionalityandconformancetodefinedstandardsusingMeasuringi
C301.4	IntegrateAutomation and IIOTinAdvancedManufacturing

CourseName: Internship/Project C:302 CourseYear: 2022-23

CourseName	Statements
C302.1	Applythetheoreticalknowledge&skillduringperformance ofthetasksassignedininternship.
C302.2	Demonstratesoftskillssuchas time management,positiveattitude&communicationskillsduringperformanceoftheta
C302.3	Documentthe use caseontheassignedtask.

3.1.2 CO-POmatricesofcoursesselectedin3.1.1(Sixmatricestobementioned;onepersemesterfrom1stto6thsemester)(5)

InstituteMarks5

Coursename: Materials of Engineering C102

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C102.1	3			3			
C102.2	3			3			
C102.3	3			3			
C102.4	3			3			
C102.5	3			3			
Average	**3**			**3**			

Coursename: ProjectManagementSkillsC106

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C106.1	3	3			2		3
C106.2	3	3	2				3
C106.3	3	3	2				3
C106.4	3			1		1	3
C106.5	3	3			2		3
C106.6	3				2		3
Average	**3**	**3**	**2**	**1**	**2**	**1**	**3**

Coursename: MechanicsOf MachinesC201

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C201.1	3						
C201.2		3					
C201.3	3	3		3			
C201.4	3	3		3			3
Average	**3**	**3**		**3**			**3**

Coursename: OperationManagementC205

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

Coursename: AdvancedManufacturingTechnologiesC301

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
301.1	3	3		3	3		3
301.2	3	3		3	3		3
301.3	3	3		3	3		3
301.4	3	3		3	3		3
Average	3	3		3	3		3

Coursename: Internship/ ProjectC302

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
302.1	3	3	3	3	3	3	3
302.2	3	3	3	3	3	3	3
302.3	3	3	3	3	3	3	3
Average	**3**	**3**	**3**	**3**	**3**	**3**	**3**

1. **Coursename: MaterialsforEngineering C102**

Course	PSO1	PSO2	PSO3
102.1	3		
102.2	3		
102.3	3		
102.4	3		
102.5	3		
Average	**3**		

1. **Coursename: ProjectManagementSkillsC106**

Course	PSO1	PSO2	PSO3
106.1			3
106.2			3
106.3			3
106.4			3
106.5			3
106.5			3
Average			**3**

1. **Coursename: MechanicsofMaterials C201**

Course	PSO1	PSO2	PSO3
C201.1	3		
C201.2	3		
C201.3	3		
C201.4	3		
Average	**3**		

Coursename: OperationManagementC205

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

Coursename: AdvanceManufacturingTechnologyC301

Course	PO1	PO2	PO3
C301.1	3		3
C301.2	3		3
C301.3	3		3
C301.4	3		3
Average	**3**		**3**

Coursename: Internship/ ProjectC302

Course	PO1	PO2	PO3
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-POmatrix of allcoursesINCLUDINGfirstyear courses(10)

InstituteMarks10

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C101	3	-	3	-	-	-	3
C102	3	-	-	3	-	-	-
C103	3	3	-	-	-	-	3
C104	3	-	-	3	-	-	-
C105	3	-	-	-	3	-	3
C106	3	3	2	1	2	1	3
C107	3	3	3	-	3	-	3
C108	3	-	-	3	-	-	-
C109	3	-	-	3	-	-	3
C110	3	-	-	3	-	-	-
C201	3	3	-	3	-	-	3
C202	3	3	-	3	1	-	2
C203	3	-	-	3	-	-	3
C204	3	1	-	3	-	-	2
C205	3	2	-	1	1	-	3
C206	3	1	-	3	-	-	3
C207	1	-	3	3	-	-	2
C208	3	3	-	-	-	-	2
C209	-	-	-	-	-	3	3
C301	3	3	3	3	-	-	3
C302	3	3	3	3	3	3	3

1. **-BProgram levelCourse-PSOmatrixofallcoursesINCLUDING firstyear courses**

Course	PSO1	PSO2	PSO3
C101	-	-	-
C102	3	-	-
C103	-	-	-
C104	3	3	-
C105	-	-	-
C106	-	-	-
C107	-	-	-
C108	-	-	-
C109	-	-	-
C110	-	-	-
C201	3	-	-
C202	3	-	-
C203	3	-	-
C204	3	-	-
C205	3	-	-
C206	3	-	-
C207	3	-	-
C208	3	-	
C209	-	-	-
C301	3	-	3
C302	3	-	3

3.2 Attainment ofCourse Outcomes(40) **InstituteMarks34**

3.2.1 Describetheassessmentprocessesusedto gatherthedataupon whichtheevaluation ofCourseOutcomeisbased(10)
InstituteMarks9

1. DirectAssessmentTools
InternalAssessment(CIE)

A. Activity/assignment/Miniproject
B. Gradedexercises
C. Laboratoryrecords
D. Reports(InternshipTraining/Project)
E. SEE

A.INTERNALASSESSMENTOBJECTIVE:

To assesstheCOlevelofattainment.
Toevaluatestudentsabilityinunderstanding thecourse.Toanalyzeteachingmethodologyandtoimprovefurther.

METHODOLOGY:

- Fortheorycourses,theCIEmarksis50&forpracticalcoursesthe CIEmarksis60..
- Fortheorycourses,fiveCIE(writtentests)areconducted&oneactivityissubmittedbyeachstudentinasemesterasscheduledinthecalendarofevents.Forpracticalcourses,threeCIE(writtentests)&twoCIE(Skilltests)isconducted&one activityissubmittedby eachstudent.
- FortheorycoursestheaverageofthreeCIE(writtentests)&averageofremainingtwo(writtentests)&activityareconsidered&forpracticalcourses,theaverageofthreeCIE(writtentest)&averageoftwoCIE(Skilltest)&activityisconsideredfor calculatingCIE marks.
- TheCIEtesttimetableisdisplayedonthenoticeboard.
- Questionpapersincludeallthe detailslike generalinstructions,duration, maximummarks, CO mapping,cognitive levels.

- IAbookletsareevaluatedbythe respectivefacultiesasper thescheme ofvaluationandmodelanswerspreparedearlier.
- Valuated IABookletsaregivenback tostudentstoaccesstheirquality of answers.
- MarksscoredforeveryCOarerecordedintheanswer bookletaftereveryvaluationand sameisenteredinthe CIEreport.
- All IAbookletsaresubjectedtoinspection by DTEofficials.
- TheentireInternalAssessmentprocessiscarriedoutincomparisonwithexaminationsquestionpaperpattern.

COURSEASSESSMENTSANDEVALUATIONCHART(THEORYCOURSES)

Sl.No	Assessment	Type	Timefra meinse mester	Duration	Max marks	Conversion
1.	CIEAssessment 1	Written test-1	- Attheendof	80 minutes	30	Averageofthr eewrittentest s-1,2,3for30
2	CIEAssessment 2	Written test-2	- Attheendof	80 minutes	30	
3	CIEAssessment 3	Written test-3	- Attheendo	80 minutes	30	
4	CIEAssessment 4	MCQ/Quiz	- Attheendof	60 minutes	20	Averageoft hreeAssess ment4,5,6F or20
5	CIEAssessment 5	Openbooktest	- Attheendof	60 minutes	20	
6	CIEAssessment 6	Studentactivity&pre sentation	- Attheendo	60 minutes	20	
	Total ContinuousInternalEvaluation(CIE)Assessment					**50**
	SemesterEndExamination(SEE)Assessment(WrittenTest-Pen-paperMode),conductionfor100marksand convertedfor50			3Hours	100	**50**
				TotalMarks		**100**

COURSEASSESSMENTSANDEVALUATIONCHART(PRACTICALCOURSES)

Sl. No	Assessment	Test Week	Duration Inminutes	Max marks	Conversion
1.	CIE-1WrittenTest	5	80	30	Average ofthreetests 30
2.	CIE-2WrittenTest	9	80	30	
3	CIE-3WrittenTest	13	80	30	
4.	CIE-4Skill Test-Practice	6	180	100	Average oftwoskilltestreduce dto20
5	CIE-5Skill Test-Practice	12	180	100	
6	CIE-6Portfoliocontinuousevaluation ofTutorialsessionsthroughRubrics	1-13		10	10
TotalCIEMarks					60
SemesterEndExamination(Practice)			180	100	40
TotalMarks					**100**

B. ACTIVITY/ASSIGNMENT/MINIPROJECTOBJECTIVES:

1. Itiscompulsorytopreparelogbookofexercises.Itisalsorequiredtogeteachexerciserecordedinlogbook,checkedandd ulydatedsignedbytheteacher
2. Student activities are compulsory and are also required to be performed and noted in logbook.
3. Activityreportincludestermwork,objectstakenforidentificationforlaboratorywork,studentactivity;partsexperi mented as student activity and logbook along with student activities(forpracticalcourses)
4. Activityreportis compulsoryparttobesubmittedatthetimeofpracticalendsemesterexamination.
5. Activityreportmustnotincludeanyphotocopy/printedmanual/pages,lithos,etc.Itmustbehandwritten/handdrawn bystudentonly.

METHODOLOGY

i. Activitiesaregiventostudents.
ii. Theactivityquestionsareframedandgiventostudentsaftercompletion of1 or 2CO's.
iii. Answersaretobewrittenon A4 sheetandfiledforeachcourse.
iv. Evaluationiscarriedoutbythe respectivefacultiesasper Rubrics.
v. Themarksarerecordedfor furtheranalysis.

C. GRADEDEXERCISESOBJECTIVES:

i. Toassessthe attainmentlevelofCO's.
ii. ToassessthepracticalskillsthestudenthasacquiredinLaboratory.METH

ODOLOGY:

Studentsareallowedforconductiononlyafterwritingproperprocedure,sequenceofoperations,selectionoftools,rawmaterial,formulaeetc inabooklet.
Aftercompletionofexperiment/job/modeltheperformanceofthestudentisassessedbasedonthequality ofjob,accuracy,finish,endresultetc asper schemeofvaluation.
TheMarksareawardedbased on theperformanceand same
isinformedtothestudents.Themarksobtained byindividualstudents arerecorded forfurther
analysis.
AllbookletsaresubjectedtoIAverification byDTEofficials.

D.LABORATORYRECORDSOBJECTIVES:

ToassesstheattainmentlevelofCO's.CONTEN

T:

i. Recordscontaincertificate.
ii. ManualscontainDepartmentvision,missionstatement,DepartmentPEOs,POs&PSOs.
iii. ManualscontainSafetyprecautionspertainingtothatlaboratory/workshop(DOs&DONTs).
iv. ManualscontainCOs ofthatcourse.

METHODOLOGY:

i. Studentsare askedtowrite theaim,apparatusused,procedure,calculationsetcsystematicallyinrecords
ii. Recordsareevaluated by thefacultyineverylabsessionexperimentwise.
iii. Averagemarksof allgradedexercisewillbeconsidered for awardingfinalrecordmarks
iv. Marksobtainedbyindividualstudents arecompiledforfutureanalysis.
v. Samplelab/workshoprecordsarepreservedinthedepartmentasproofatthetimeof IAverificati on by DTEofficials tocheck thequalityandfairnessofassessment.

E. **Reports(Projectwork/InternshipTraining)**P

ROJECTWORK(for2015curriculum)Objectives

Toprovideopportunityforthestudentstoimplementtheirskillsacquiredinthepreviousemesterstopracticalproblems/problemsfaced byindustry/development ofnewfacilities
Makethestudentscomeupwithinnovative/ newideasin hisareaof interest.
Identify,analyzeanddevelopopportunities as wellastosolvebroadlydefinedmechanicalEngineeringproblems
Enhancestudents'appreciationofthevaluesofsocialresponsibility,legalandethicalprinciples,throughtheanalysisanddiscussionofrelevanta rticles andrealtimeprojects.

Process

i. Projectworkisinitiatedwhenthestudentsare inbeginningof5thsemester.
ii. Studentsare divided intobatchesandprojectco-ordinatorandprogramco-ordinatorallottheprojectguidetoeachbatch.
iii. Studentshaveoptiontochoosetheareasinwhichtheyareinterestedtocarryouttheprojectsasperguidelinesgivenbytheprojectguide.
iv. Theprojecttopicsareselected bythestudentsfromtheareasgivenbytheboard.
v. Projectguidefinalizesthe topic andstudentsareaskedtosubmit a synopsisofselectedtopic.
vi. Projectworkbeginsafter the synopsisisapprovedby theprojectprogramcoordinator.
vii. Projectworkiscarriedoutintwophasesi.e.phase-Iandphase-II.
viii. Phase-Iiscarriedoutin5thsemester.
ix. Phase-IIiscarriedout in6thsemester.

x. Studentshavetosubmitthe synopsisof theprojecttotheallottedprojectprogramcoordinatorinthe 5th semester.
xi. Theprojectguidewillsuggesttowardsthe improvementofthesynopsisifneeded.
xii. Studentsincorporatethe suggestionsgiven by theprojectguideandstarttheirproject workat 6th semester.
xiii. Projectguidemonitorsandreviewsprogressoftheprojectonceamonthandensuresthatthestudentsaccomplishtheirtasks by giving timelysuggestions&guidance.
xiv. TheProjectguidewillgive suggestionstostudentswhichtheyneedtoincorporate beforethe submissionof finalreport.

INTERNSHIP TRAINING

Objectives

Internshiptrainingmeansacourseoftraininginanyindustryorestablishmentundergonebythestudentoffinalyeardiplomain Mechanicalengineeringinpursuanceofmemorandumofunderstandingbetweenindustryanddepartmentoftheconcernedinstituteordepartmentcanmakenecessaryarrangementsinthelocalvicinityindustriestoexposetheirstudentsforindustrylearningenvironment.

Theperiodofinternshiptrainingwillbetheperiodofonesemestertermforthesubject.Thestudentaresenttotheindustryforsixteenweeksasper the curriculum.

Process

Permissionfromindustry.

TheGuideallottedbythedepartment headhave libertytoselectnearbyorganization/industryoflocalvicinitywithpriorapproval of principalofthe institute.Structuredtrainingtobearrangedbyguideandreportofthesameshallbesubmittedby the individualstudent,tofulfilltheirterm work.

Priorinformationtostudentsandinstructionaboutthearrangements,safetyprecautions,useofprotectivegadgetsandgeneraldisciplinetobefollowedinsideshopfloor,awarenessaboutrestrictedandprohibitedareasandanyotherinstructionsrelatedtothatindustry.

Monitoring

Thedepartment,Headwillmakethebatchesingroupofstudents,Thefacultywillmadeinchargeofsupervisingandmonitoringtheactivityofthegroup

- Thefacultyand Industrysupervisorwillworkout a suitablearrangementtoreviewtheprogress ofthe workfromtimetotime.thedepartmentHeadshouldmonitor theprogressofin-planttraininginassociationwithindustryauthority. Everystudentundergoingin-planttraininginthe respectivebranchofEngineeringinanyEstablishmentshall be treatedas atrainee. Theprovision of anylawwithrespecttolabourwill not applytosuch atrainee

Submission

TheInternshiptrainingreportmustbesubmittedinTwoCopies(onefordepartmentand2ndforlibrary)dulysignedbytheHOD.Studentsshouldalsosubmitthesoftcopy on CD inpdf formatinthelibrary.

F. **EndExaminations:**

Objectives

To assessthe levelofattainment ofCO'S, POs&PSOs.
Tointrospectaboutteachingandlearningprocessfollowedforfurther improvement.Toanalyzetheoverallperformanceof theprogram.

Methodology

Collectionofendexamresultcoursewise.Result analysisismadeafterexamination.
Coursewiseattainmentistabulatedtocalculatesemesterwise &programlevelattainmentofPOs&PSOs.

3.2.2 Record theattainmentof Course Outcomeof allcourseswithrespecttoset attainment levels(30)

InstituteMarks25

CourseOutcomes ofallCoursesBATCH2020-2023

Sl No.	SEM	Course	Course No	CO1	CO2	CO3	CO4	CO5	CO6	
1	1	Engg.Maths	C101	51.4	75.37	75.14	79.7	79.7		
2		MFE	C102	51.4	75.37	75.14	79.7	79.7		
3		C SKILLS	C103	93.04	95.81	95.4	95.4			
4		CAED	C104	96.8	96.43	92.34	90.75			
5	2	PMS	C105	51.4	75.37	75.14	79.7	79.7	79.7	
6		SALAB	C106	93.04	95.81	95.4	95.4			
7		FEEE	C107	93.04	95.81	95.4	95.4	95.4		
8		ITSKILLS	C108	96.8	96.43	92.34	90.75	90.75		
9		MWP-1	C109	96.8	96.43	92.34	90.75			
10	3	MOM	C201	80.91	77.41	92.53	90.1			
11		MTT	C202	86.12	69.4	88.31	86.08			
12		MT	C203	89.22	80.72	85.46	83.16			
13		FPE	C204	86.12	69.4	88.31	86.08			
14	4	OM	C205	93.2	87.66	94.02	71.56			
15		CNCP&M	C206	88.04	65.04	94.24	96.44			
16		PDD	C207	54.32	86.87	73.15	77.87			
17		EIA	C208	97.71	87.53	99.22	87.87			
18	5	AMT	C301	98.32	90.6	100	88.89			

19	6	INTERNSHIP /PROJECT	C302	98.32	90.6	100				

3.3 Attainment ofProgramOutcomeandProgramSpecific Outcomes(40) **InstituteMarks34**

3.3.1 DescribeassessmenttoolsandprocessesusedforassessingtheattainmentofeachPOsandPSOsasmentionedinAnnexure1(10) InstituteMarks9

1. **DirectAssessmentTools**
   1. InternalAssessment
   2. Activity/assignment/Miniproject
   3. Gradedexercise
   4. Laboratoryrecords
   5. Reports(In-plantTraining/Project/ProfessionalPractice)
   6. EndExamination

2. **IndirectAssessmentTools**
   1. Alumnisurvey.
   2. Employersurvey

1.DirectAssessmentToolsA.InternalAssessment	TheoutcomesofCosfromthesedirectmeasuring Toolsare distributedtoPOsand PSOsinproportionto ThemappedvaluestocomputePOsandPSOsAttainmentlevel.
B.Activity/assignment/Mini project	
C.Gradedexercises	
D.Laboratoryrecords	
E.Reports(in-plantTraining /Project/ ProfessionalPractice)	
F.EndExamination	

2.

IndirectAssessmentTools1

.Alumnisurvey2.Employers

urvey

1.AlumniSurvey

- Toassessthe attainmentlevelofPOs&PSOsoftheprogram.Methodology:
- Afeedbackform withset ofquestionsinco-relationwithPOsand PSOs areprepared.
- Feedbackformhas agrading system(normally1-5).
- Students/Alumnifilltheform aspergradingsystem.
- Gradinginfeedback formisrecordedforfurtheranalysis
- Average ofthesegradesarecalculatedand takenasbasis for evaluationofattainmentofPOs.
- Sinceitisanindirectmethod ofassessment10% of averageisconsideredinattainment ofPOs and

PSOs.2.**Employer Survey**

- Toassessthe attainmentlevelofPOs&PSOsoftheprogram.Methodology:
- Afeedbackform withset ofquestionsinco-relationwithPOsand PSOs areprepared.
- Feedbackformhas agrading system(normally1-5).
- Employersfill the form as pergradingsystem.
- Gradinginfeedbackformisrecordedfor furtheranalysis
- Average ofthesegradesarecalculatedand takenasbasis for evaluationofattainmentofPOs.
- Sinceitisanindirectmethod ofassessment10% of averageisconsideredinattainment ofPOs and PSOs.

3.3.2 Provideresultsofevaluationofeach PO& PSO(30)

InstituteMarks25P

OAttainment

Sl No.	SEM	Course	Course No	PO1		PO2		PO3		PO4		PO5		PO6		PO7	
				Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved
1	1	Engg. Maths	C101	3	2.32	3	2.32	3	2.32	3	2.32					1	0.77
2		MFE	C102	3	2.32	3	2.32	3	2.32	3	2.32					1	0.77
3		CSKILLS	C103											3	2.84	3	2.87
4		CAED	C104	3	2.82					3	2.82						
5	2	PMS	C105	3	2.32	3	2.32	2	1.42	1	0.8	2	1.6	1	0.65	3	2.42
6		SALAB	C106	3	2.82	3	2.82			3	2.82	3	2.82			3	2.82
7		FEEE	C107	3	2.82					3	2.82						
8		ITSKILLS	C108	3	2.82					3	2.82					3	2.82
9		MWP-1	C109	3	2.82					3	2.82						
10	3	MOM	C201	3	2.64	3	2.6			3	2.74					3	2.7
11		MTT	C202	3	2.82	3	2.82			3	2.82	1	0.74			2	1.82
12		MP	C203	3	2.54					3	2.55					3	2.53
13		FPE	C204	3	2.62	1	0.89			3	2.6					3	2.62
14	4	OM	C205	3	2.85	2	1.91			1	0.98	1	0.98			3	2.9
15		CNCP&M	C206	3	2.72	1	0.84			3	2.79					3	2.86
16		PDD	C207	1	0.81			3	2.52	3	2.52					2	1.65
17		EIA	C208	3	2.92	3	2.92									2	1.94
18	5	AMT	C301	3	2.97	3	2.98			3	2.92	3	2.92			2	1.99
19	6	INTERNSHIP/PROJECT	C302	3	2.97	3	2.97	3	2.97	3	2.97	3	2.97	3	2.97	3	2.97

Course.	PO1	PO2	PO3	PO4	PO5	PO6	PO7
	2.61	2.37	2.32	2.53	2.005	2.15	2.33

POAttainmentLevel

Course.	PO1	PO2	PO3	PO4	PO5	PO6	PO7
DirectAttainment	2.61	2.37	2.32	2.53	2.005	2.15	2.33
InDirectAttainment	2.59	2.774	2.73	2.36	1.761	2.08	2.435
POAttainment	2.6	2.57	2.53	2.355	1.883	2.115	2.383

PSOAttainment

Sl No.	SEM	Course	Course No	PSO1		PSO2		PSO3	
				Target	Achived	Target	Achived	Target	Achived
1	1	Engg.Maths	C101						
2		MFE	C102	3	2.82				
3		CSKILLS	C103						
4		CAED	C104	3	2.82	3	2.82		
5	2	PMS	C105					3	2.82
6		SALAB	C106						
7		FEEE	C107						
8		ITSKILLS	C108						
9		MWP-1	C109						
10	3	MOM	C201	3	2.56				
11		MTT	C202	3	2.82				
12		MP	C203	3	2.54				
13		FPE	C204	3	2.62				
14	4	OM	C205	3	2.85				
15		CNCP&M	C206	3	2.72				

16		PDD	C207	3	2.50				
17		EIA	C208	3	2.93				
18	5	AMT	C301	3	2.98			3	2.92
19	6	INTERNSHIP/ PROJECT	C302	3	2.94			3	2.94

PSOAttainmentLevel

Course.	PSO1	PSO2	PSO3
DirectAttainment	2.753	2.82	2.893
InDirectAttainment	2.813	1.82	2.517
PSOAttainment	2.783	2.32	2.705

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4 STUDENTS'PERFORMANCE(200) **Institutemarks123.72**

IntakeInformation:

Table 4.1

Item	2023-24(CA	2022-23(CAY	2021-22(CAY	2020-21(CAY	2019-20(CA	2018-19(CAY
Sanctionedintakestrengthoftheprogram(N)	60	60	60	60	60	60
Totalnumber ofstudents,admittedthroughstatelevelcounselling(N1)	58	60	60	60	60	60
Number ofStudents,admittedthroughInstitu	9	3	3	1	1	1
Number ofstudents,admittedthrough	6	6	5	4	7	9
Totalnumber ofstudentsadmittedintheprogram	73	69	68	65	68	70

Table 4.2

Year ofentry	TotalNo of studentsadmittedintheprogram(N1+N2+N3)	Number ofstudents who havesuccessfullypassedwithoutbacklogsinany		
		Iyear	II year	IIIyear
2023-24(CAY)	73	-	-	-
2022-23(CAYm1)	69	11	-	-
2021-22(CAYm2)	68	6	06	-
2020-21(LYG)	65	23	25	24
2019-20(LYGm1)	68	29	23	20
2018-19(LYGm2)	70	20	16	11

Table 4.3

Year ofentry	TotalNoofstudentsadmittedintheprogram(N1+N2+N3)	Numberofstudentswhohavesuccessfullygraduatedinstipulatedperiod ofstudy) [TotalofwithBacklog+withoutBacklog]		
		Iyear	IIyear	IIIyear
2023-24(CAY)	73	-	-	-
2022-23(CAYm1)	69	45	-	-
2021-22(CAYm2)	68	60	59	-
2020-21(LYG)	65	59	59	47
2019-20(LYGm1)	68	57	58	30
2018-19(LYGm2)	70	45	50	29

4.1 EnrolmentRatio(20) **Institute Marks20**

	N(FormTable4.1)	N1+N2(FormTable4.1)	EnrolmentRatio[(N1+N2/N)*100]
2023-24	60	67	100
2022-23	60	63	100
2021-22	60	63	100

Average [(ER1 + ER2 +ER3 / 3] : 63+63+67/3 = 64.33

Assessment:20.00

4.2 SuccessRate inthestipulatedperiodoftheprogram(60) **Institutemarks21.32**

4.2.1 Successratiowithoutbacklogsinanyyear of study(40) **Institutemarks10.8**

Item	LastYearGraduate(2020-21)	LastYearGraduate Minus1Batch (2019-20)	LastYearGraduateMinus2Batch(2018-19)
TotalNumberof students (X)(admittedthroughstateLevelcounselling + admitted Throughinstituteonlevelquota+AdmittedthroughLateralentry)	65	68	70.00
NumberofstudentswhohavegraduatedwithoutbacklogsInthestipulatedperiod(Y)	24	20	11.00
SuccessIndex[Sl =Y/X]	0.369	0.294	0.157

AverageSI[{SI1+SI2+SI3)/ 3]:0.369+0.294+0.157= 0.273

Assessment[40* Average SI[]: 40x0.27= 10.8

4.2.2 Successrateinstipulatedperiod(20) **Institutemarks10.5**

Item	LastYearGraduateLYG(2020-21)	LastYearofGraduateMinus 1, LYGm1(2019-20)	LastYearofGraduateMinus2LYGm2 (2018-19)
TotalNumberofstudents(X)(admittedthroughstateLevelcounselling+admitted Throughinstituteonlevelquota +AdmittedthroughLateralentry)(N1+N2+N3)	65	68	70.00
Number ofstudents who havepassedIn the stipulatedperiod(Y)	47	30	29.00
SuccessIndex[Sl =Y/X]	0.723	0.441	0.414

AverageSI[{SI1+SI2+SI3)/ 3]:0.723+0.441+0.414/ 3 =0.526

Assessment[20 * Average SI[]: 20x0.526= 10.52

4.3 AcademicPerformanceinFirstYear(25) **Institutemarks16.32**

AcademicPerformance	2022-23(CAYm1)	2021-22(CAYm2)	2020-21(LGY)
Meanof CGPA ormeanpercentage ofallsuccessfulstudents(X)	63.28	6.536	7.295
Totalnumber ofsuccessfulstudents(Y)	45	60.00	58.00
Totalnumber ofstudentsappearedintheexamination(Z)	45	62.00	61.00
API[X*(Y/Z)]:	6.529	6.325	6.936

AverageAPI [{AP1+AP2+AP3)/3]: 6.328+6.325+6.936 /3 = 6.529

Assessment[2.5 * Average API[: 2.5 x6.529 =16.322

4.4 AcademicPerformanceinSecondYear(20) **Institutemarks13.24**

AcademicPerformance	2021-22(CAYm2)	2020-21(LYG)	2019-20(LYGm1)
Meanof CGPA ormeanpercentage ofallsuccessfulstudents(X)	6.233	7.323	6.609
Totalnumber ofsuccessfulstudents(Y)	59	60.00	58.00
Totalnumber ofstudentsappearedintheexamination(Z)	62	60.00	58.00
API[X*(Y/Z)]:	5.93	7.323	6.609

AverageAPI[(AP1 + AP2+ AP3)/3]: 5.93+7.323+6.609 /3= 6.620

Assessment[2.0 * AverageAPI]:2x6.620=13.24

4.5 AcademicPerformanceinFinalYear(15) **Institutemarks 7.6**

AcademicPerformance	2020-21(LYG)	2019-20((LYGm1)	2018-19(LYGm2)
Meanof CGPA ormeanpercentage ofallsuccessfulstudents(X)	8.677	7.266	7.157
Totalnumber ofsuccessfulstudents(Y)	47	32.00	30.00
Totalnumber ofstudentsappearedintheexamination(Z)	59	58.00	50.00
API[X*(Y/Z)]:	6.912	4.00	4.294

AverageAPI[(AP1 + AP2+AP3)/3]: 6.912+4.00+4.294+ /3 =5.068

Assessment[1.5 * Average API] : 1.5 x 5.068 =7.603

4.6 Placementand Higher Studies(40) **Institutemarks27.24**

Item	2020-21(LastYearGraduate)	2019-20LastYear Graduateminus1,LYGm1)	2018-19LastYearGraduateMinus
TotalNo ofFinalYearStudents(N)	59.00	58.00	50.00
Noofstudentsplacedin thecompaniesorgovernmentsector(X)	16	26	20.00
Noofstudentsadmittedtohigherstudies(Y)	8	12	15.00
No. ofstudentsturnedentrepreneur intherespectivefield of engineering/technology(Z)	-	0.00	0.00
PlacementIndex[((1.25 * X)+ Y + Z)/N]:	0.475	0.767	0.8

AveragePlacement [(P1 +P2 +P3)/3] : .(0.475+0.767+0.8)/3=0.681

Assessment[40 * Average Placement]:40x 0.681 = 27.24

Providetheplacementdatainthebelowmentionedformatwiththenameoftheprogramandtheassessmentyear(separatelyfor CAYm1,CAYm2andCAYm3):

Program

Name:MechanicalEngg.AssessmentYear:2022

-23(CAYm1)

SL.NO	NameofStudent	Enrollment NO	EmployeeName	Appointmentno
1	ANAMITHA	316ME20003	ULTRATECHGULBARGA	455028
2	ABHISHEKAVK	316ME20006	AUTOLIVINDIAPRIVATEL TD,BANGALORE	10158022
3	ASLAMGANI	316ME20009	JSWSTEELLTDTORANAGALLU	1097176
4	DGANGADHAR	316ME20013	JSWPAINTS	1097157
5	GMANJUNATHA	316ME20016	KFILBEVINAHALLI	KFIL-K/HRM/TOL/2023/2595
6	HMANOJSUBRAMANYAM	316ME20021	JSWSTEELLTDTORANAGALLU	1097068
7	JJRAKESHA	316ME20022	JSWSTEELLTDTORANAGALLU	1097220
8	JNYAMANURASWAMY	316ME20023	JSWSTEELLTDTORANAGALLU	1097221
9	MAHAMMEDTHOUSIFK	316ME20033	BOSCHBANGALORE	1567
10	MELLIKERIMANIKANTA	316ME20034	KFILBEVINAHALLI(DAANAANANDADHARWAD	1306497
11	PSHAHID	316ME20038	TOYOTETSU INDIAAUTOPARTSPVT.LTD	DAT788
12	PVIGNESH	316ME20039	GABRIELINDIALTD,PUNE	90006519
13	RAGHAVENDRAK	316ME20043	KFILBEVINAHALLI(DAANAANANDADHARWAD	1306504
14	SAHANAVENKATESHD	316ME20046	General electricals,PUNE	223124618
15	SANJAYSINDHI	316ME20049	KFILBEVINAHALLI	KFIL-K/HRM/TOL/2023/2593
16	SHEKAR	316ME20052	KFILBEVINAHALLI	KFIL-K/HRM/TOL/2023/2641
17	TASANTHOSHA	316ME20053	KFILBEVINAHALLI	KFIL-K/HRM/TOL/2023/2594
18	UMESH	316ME20057	JSWSTEELLTDTORANAGALLU	1097260
19	VENKATESH	316ME20058	Mukandsumispecial steelltd	O1501
20	KUMBARGERIHUSEN PEERA	316ME20030	TIE INDIA,BANGALORE	42558

AssessmentYear:2021-22(CAYm2)

SL.NO.	NameofStudent	Enrollment NO	EmployeeName	Appointmentno
1	ABDULRASHEED	316ME19002	TVS	2102
2	CVINITH	316ME19013	TIEI	2105
3	DANILKUMARA	316ME19015	TOYOTOINDUSTRIES ENGINEINDIAPVT LTD	41810
4	GANUSHA	316ME19019	TVS	2107
5	GMAHESHA	316ME19021	KFIL	2109
6	GVINAYARAGH AVENDRA	316ME19023	KFIL/TIEI	2110
7	KANILA	316ME19028	TIEI	2111
8	KH CHANDRASHEKARRED	316ME19029	TK	2112
9	KSACHIN	316ME19031	TK	2113
10	KSHESHADRI	316ME19032	JSWLTD	SKAD006220900037
11	KANTIDEVARAJA	316ME19035	TOYOTA	2115
12	LINGAMURTHY B	316ME19038	JSWLTD	SKAD006220600049
13	MAHESHA	316ME19039	KIRLOSKAR FERROUSLTDKPL	SKAD006220600069
14	MANJUNATHA MALLARA	316ME19040	TIEI	2119
15	PCHANDRASHEKAR	316ME19045	TK/TK	2120
16	PMANJUNATHA	316ME19046	JSW LTD	SKAD006220600092
17	PRAVEENAA	316ME19052	TIEI	2123

18	SSATISH	316ME19055	TK/KFIL	2124
19	SACHIN R MYAGOTI	316ME19056	TOYOTOINDUSTRIES ENGINEINDIAPVT LTD	41772
20	SANDEEP	316ME19058	TVS	2126
21	SUGLAPPA R	316ME19059	KFIL	2127
22	THIPPESWAMY A K	316ME19061	TOYOTOINDUSTRIES ENGINEINDIAPVT LTD	41781
23	KAJAYA	316ME19201	TIEI	2129
24	SAGARH M	316ME19203	TVS	244964
25	BPAVAN	316ME20301	TIEI	2132

AssessmentYear:2020-21(LYG)

Sl.No.	StudentName	EnrollmentNo.	EmployeeName	Appointment No.
1	SUHASNAIDU	316ME18056	SLRMETALLIKSLTD,NA RAYANADAVARAKERE	2034
2	NOOR ALI	316ME18039	GMMCO,CHENNAI	7177
3	R.HARSHA	316ME18041	SLRMETALLIKSLTD,NA RAYANADAVARAKERE	2033
4	R.SHAMBABU	316ME18043	MSPL LTD,KOPPALA	10001137
5	TANEEZAHMEDALI	316ME18058	MSPLLTD,KOPPALA	MSPL/HR/OL/149/2021-22
6	JAHANGIRNAGARI	316ME18028	SLRMETALLIKSLTD,NA RAYANADAVARAKERE	HR/L01/HR
7	KOTRESH.B.	316ME18009	SLRMETALLIKSLTD,NA RAYANADAVARAKERE	HR/LO1/HR

8	PANDURANGARAO.R.	316ME18042	KFIL,BEVANAHALLI	7421
9	VARUNNAIDU.S.R	316ME18060	KFIL,BEVANAHALLI	7414
10	BASAVANAGOUDA.K	316ME18011	KFIL,BEVANAHALLI	KFIL/K/HRM/TOL/2022/2110
11	N.DIWAKAR	316ME18038	KFIL,BEVANAHALLI	KFIL/K/HRM/TOL/2022/2104
12	SONNADA RAVI	316ME18956	KFIL,BEVANAHALLI	KFIL/K/HRM/TOL/2022/2108
13	N.KANAKARAYA	316ME18956	KFIL,BEVANAHALLI	KFIL/K/HRM/TOL/2022/2111
14	JEETENDRA.S.	316ME18956	KFIL,BEVANAHALLI	KFIL/K/HRM/TOL/2022/2105
15	SHIVAGANESH.D	316ME18956	CUMMINSBANGALORE	2001
16	KRISHNA	316ME18302	JSWSTEELSLTDTORANAGALLU	1021197

4.7 ProfessionalActivities(20) Institutemarks 18

4.7.1 Professionalsocieties/ studentchaptersandorganizingtechnicalevents(10)

Institutemarks9

AAvailabilityofProfessionalSocieties/ Chapters&Relevantactivities(5) Institutemarks5

Followingstaff members are havingLife Membership ofISTE

Sl.No	NAMEOFTHESTAFF	Designation	Department	MISTENUMBER
1	TNAZIRUDDEEN	SelectionGradeLecturer	MECH	LM132824
2	GUDUDAPPAT	SelectionGradeLecturer	MECH	LM89981
3	PRAKASHCS	SelectionGradeLecturer	MECH	LM89984
4	MALIPATILMAHESHAGOUDA	SelectionGradeLecturer	MECH	LM45579
5	VENKATESHD	SelectionGradeLecturer	MECH	LM89980
6	GAVISIDDAPPA	SelectionGradeLecturer	MECH	LM89982

7	PUNDALEEKMALABASARI	SelectionGradeLecturer	MECH	LM89979
8	MALLIKARJUNAKP	SelectionGradeLecturer	MECH	LM89978
9	YOGANANDATL	Foreman	MECH	LM132822

Indian Society for Technical Education
Shaheed Jeet Singh Marg, Near Katwaria Sarai, New Delhi – 110016

INSTITUTE DETAILS

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Address: **Ballari Road, Hosapete, Vijayanagar Dist.,Karnataka**

Pincode: **583201** Institute Email: **tmaespoly316@gmail.com**

Membership No: **2146**

CONVENER DETAILS

First Name : **Shivaraj** Last Name : **B H**

Membership No: **LM132823** Email: **bhshivaraj67@gmail.com**

Phone No: **8884174354**

Sr no.:	31	Name:	MAHAMAD ZAHEER
Mobile No:	9980890369	Email:	hussainpeerasiddi@gmail.com
Duration:	3 yrs Gender:	M	
Branch:	ME		
Sr no.:	32	Name:	MANJUNATH B M
Mobile No:	8660057770	Email:	mnjunatnabm@gmail.com
Duration:	3 yrs Gender:	M	
Branch:	ME		
Sr no.:	33	Name:	MANJUNATH K
Mobile No:	9480285796	Email:	km6078734@gmail.com
Duration:	3 yrs Gender:	M	
Branch:	ME		
Sr no.:	34	Name:	MOHAMMAD ARIF
Mobile No:	9980718078	Email:	bmohammadarif786@gmail.com
Duration:	3 yrs Gender:	M	
Branch:	ME		
Sr no.:	35	Name:	MOHAMMAD SOHAIL
Mobile No:	9663641573	Email:	mdsohail786@gmail.com
Duration:	3 yrs Gender:	M	
Branch:	ME		
Sr no.:	36	Name:	MOHAMMED SAMI K
Mobile No:	6363087656	Email:	ik8745226@gmail.om
Duration:	3 yrs Gender:	M	
Branch:	ME		

2)MoUwith BestowEdutrexInternational LLP

Indian Society for Technical Education
Shaheed Jeet Singh Marg, Near Katwaria Sarai, New Delhi – 110016

INSTITUTE DETAILS

Name of Institution: TMAES Polytechnic (Govt Aided)

Address: Ballari Road, Hosapete, Vijayanagar Dist.,Karnataka

Pincode: 583201 Institute Email: tmaespoly316@gmail.com

Membership No: 2146

CONVENER DETAILS

First Name : Shivaraj Last Name : B H

Membership No: LM132823 Email: bhshivaraj67@gmail.com

Phone No: 8884174354

Sr no.:	31		Name:		MAHAMAD ZAHEER
Mobile No:	9980890369		Email:		hussainpeerasiddi@gmail.com
Duration:	3 yrs	Gender:		M	
Branch:	ME				
Sr no.:	32		Name:		MANJUNATH B M
Mobile No:	8660057770		Email:		mnjunatnabm@gmail.com
Duration:	3 yrs	Gender:		M	
Branch:	ME				
Sr no.:	33		Name:		MANJUNATH K
Mobile No:	9480285796		Email:		km6078734@gmail.com
Duration:	3 yrs	Gender:		M	
Branch:	ME				
Sr no.:	34		Name:		MOHAMMAD ARIF
Mobile No:	9980718078		Email:		bmohammadarif786@gmail.com
Duration:	3 yrs	Gender:		M	
Branch:	ME				
Sr no.:	35		Name:		MOHAMMAD SOHAIL
Mobile No:	9663641573		Email:		mdsohail786@gmail.com
Duration:	3 yrs	Gender:		M	
Branch:	ME				
Sr no.:	36		Name:		MOHAMMED SAMI K
Mobile No:	6363087656		Email:		ik8745226@gmail.com
Duration:	3 yrs	Gender:		M	
Branch:	ME				

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

Page 2 of 7

AGREED:

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

Name: Authorized Signatory

For Bestow Edutrex International LLP

Dr Kumardatt A Gánjre

T.M.A.E.S POLYTECHNIC	Bestow Edutrex International LLP
Bellary road ,Hospet,Vijaynagar Dist,Karnataka	S 2, 303, Malad W, Mumbai-100 064
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) Institutemarks4

EngineersDaywillbecelebratedonSeptember15thofeveryyearandToppersofpreviousSemesterEndExaminationsfromallthedepartmentswillbelistedandarefelicitatedwithtrophies.Alsodistinctionholdersarefelicitatedwithmedals.

4.7.2 Publicationoftechnicalmagazines,newsletters, etc.(5)

A. Quality&Relevanceofthecontentsand Print Material(3)

Institutemarks3

ListofPublicationofTechnicalMagazine

NEWS LETTER

Year	PublicationName	Editor (s)	FrequencyofPublication
CAYm1 2023-24	MechNews	Mr.Gavisidappa(ChiefEditor)Mr. Pundaleek.M(Editor)	Yearly
CAYm2 2022-23	MechNews	Mr.Gavisidappa(ChiefEditor)Mr. Pundaleek.M(Editor)	Yearly
CAYM3 2021-22	MechNews	Mr.Gavisidappa(ChiefEditor)Mr. Pundaleek.M(Editor)	Yearly

B. Participation of Studentsfromtheprogram(2) **Institutemarks2**

SL.NO.	DATE/MONTH	Activity	NOOFSTUDENT
1	31-05-2022	PARTICIPATIONINCOMMUNITYSERVICES(CYCLERALLY)	30
2	14-03-2022	YOGA	32
3	05-06-2022	ENVIRONMENTALDAY(Plantingtrees)	42

4.7.3 ParticipationinInter-Institute /state/nationalevents by studentsofthe program ofstudy(5)Institutemarks 4

Inter-Departmentalcompetitionsareconductedeveryyearandtrophiesandvariousprizesunderdifferentcategorieswillbedistributedtothewinners.AlsoourfinalyearstudentsattendDOITYOURSELFprojectexhibitionorganizedbyDCTE,Bengaluru.

CRITERIA–5

FACULTYINFORMATIONA NDCONTRIBUTIONS

5.FACULTYINFORMATIONANDCONTRIBUTION

SL.NO.	NAME	University/ Degree	**AreaofSpecialization**	**Contributiontothep rogram(% load)**			**Research PaperPublications**	**FacultyreceivingPh.D/ M.TechduringtheAssessmentyear**	**CurrentDesignation**	**Initial Dateof Joining**	**Association Type**	**Atpresentworkingwiththelnstitution(Yes /No)**	**IncaseofNO,DateofLeaving**	**IS Principal?**
				CAY(2023-24)	CAY (2022-23)	CAYm1 (2021-22)								
1	T Naziruddeen	B.E/B.Tech	Mechanical Engineering	100	100	100			HOD	16/03/1992	Regular	**YES**		**NO**
2	C.S.Prakash	B.E/B.Tech	Mechanical Engineering	100	100	100			SL.Gr Lecturer	01.12.1996	Regular	**YES**		**NO**
3	TGududappa	B.E/B.Tech	Mechanical Engineering	75	75	75			SL.Gr Lecturer	19/03/1992	Regular	**YES**		**NO**
4	MalipatilMaheshagouda	B.E/B.Tech	Mechanical Engineering	100	100	100			SL.Gr Lecturer	2/12/1996	Regular	**YES**		**NO**
5	DVenkatesh	B.E/B.Tech	Mechanical Engineering	100	100	100			SL.Gr Lecturer	16/07/1997	Regular	**YES**		**NO**
6	Gavisiddappa	B.E/B.Tech	Mechanical Engineering	100	100	100			SL.Gr Lecturer	17/07/1997	Regular	**YES**		**NO**
7	Pundaleek Malabasari	M.E/M.Tech	Production Technology	100	100	100			SL.Gr Lecturer	10/12/1998	Regular	**YES**		**NO**
8	KP Mallikarjuna	B.E/B.Tech	Mechanical Engineering	75	75	75			SL.Gr Lecturer	6/12/1999	Regular	**YES**		**NO**
9	MGanesh	M.E/M.Tech	MachineDesign	-	100	100			Lecturer	16/07/2018	Regular	**YES**	Resignedon 22/03/2022	**NO**
10	T SathyanarayanaRao	M.Sc	Mathematics	-	-	25			HOD	19/07/1991	Regular	**YES**	Retiredon31/5/23	**NO**
11	Jotsna	M.Sc	Physics	-	-	25			SL.Gr Lecturer	22/07/1991	Regular	**YES**	Retiredon 30/6/22	**NO**
12	Shivaraj BH	M.Aand Ph.D	English	25	25	25	1	2019	Lecturer	7/12/2011	Regular	**YES**		**NO**
13	BLingappa	B.E/B.Tech	Electrical& Electronics	25	25	25			SL.Gr Lecturer	16/07/1998	Regular	**YES**		**NO**
14	T.Anand	MSc	Mathematics	25	25	-			Lecturer	1/7/2021	Regular	**YES**		**NO**
15	Mahesh Buddha	MSc	ComputerScience	25	25	-			Lecturer	01/3/2023	Regular	**YES**		**NO**
16	RekhaHanchati	B.E	ComputerScience	25	25	25			Lecturer	01/07/2019	Regular	**YES**		**NO**
17	Yamuna Kulkarni	MA	Kannada	25	25	25			Lecturer	18/07/2016	Regular	**YES**		**NO**

5.1 Student–FacultyRatio(|SFR)(25) **InstituteMarks25**

Year	N	F	SFR=N/F
CAY(2023-24)	192	9.00	21.33
CAYm1(2022-23)	192	10.00	19.2
CAYm2(2021-22)	192	10.00	19.2

AverageSFR: 19.91AssessmentSFR:

25

5.1.1. Providethe information about the regularandcontractualfacultyaspertheformatmentioned below:

	Totalnumberofregularfacultyinthedepartment	**Totalnumberofcontractualfacultyinthedepartment**
CAY(2023-24)	**14**	**0**
CAYm1(2022-23)	15	0
CAYm2(2021-22)	15	0

5.2 FacultyQualification(25)

5.2.1FacultyQualificationIndex(20) **InstituteMarks19.81**

	X	Y	F	FQ=2x[(10X+7Y)/F)]
2023-24	**2**	**9**	**8.00**	**20.75**
2022-23	3	9	8.00	23.25
2021-22	3	9	8.00	23.25

AverageAssessment : 22.41

5.22Availabilityof Faculty/Principalofthedisciplinewith PhD.Qualification(5) **InstituteMarks0**

5.3 FacultyRetention(20) **InstituteMarks20**

Description	**2022-23(CAYm1)**	**2023-24(CAY)**
NoofFacultyRetained	15	14
TotalNoofFaculty	15	14
%ofFacultyRetained	100	100

Average:100

AssessmentMarks: 20.00

5.4 FacultyasparticipantsinFacultydevelopment/trainingactivitiesconducted byotherorganizations(30) **InstituteMarks25**

Sl.No.	Nameof thefaculty	CAYm2 (2021-22)	CAYm1 (2022-23)	CAY(2023-24)
1	TNaziruddeen	5	5	5
2	C.S.Prakash	5	5	5
3	TGududappa	5	5	5
4	MalipatilMahe shagouda	5	5	5
5	DVenkatesh	5	5	5
6	Gavisiddappa	5	5	5
7	PundaleekMalabasari	5	5	5
8	KPMallikarjuna	5	5	5
9	MGanesh	-	-	-
10	TSathyanarayanaRao	-	-	-
11	Jotsna	-	-	-
12	ShivarajBH	-	-	-
13	B Lingappa	-	-	-
14	Sowmya	-	-	-
15	T.Anand	-	-	-
16	MaheshBuddha	-	-	-
17	RekhaHanchati	-	-	-
Sum		40	40	40
RF		8	8	8
Assessment		30	30	30

5.4.a.Organized/ConductedFDPsand STTPbythisdepartment at State /NationalLevel(12)

Sl.No.	AcademicYear	TotalnumberofProgramsconducted1
	2023-24	1
2	2022-23	2
3	2021-22	2

Sl.No.	Date	Nameofthe Event	Nameofthe Resource Person
2023-24			
1	21/8/23to25/8/23	FDPon3DPrinter	
	G.K.Shivaprasad,SoftAcademy,Hosapete2022-23		
1	12/8/22to 17/8/22	OnlineFDPonAccreditation processforDiplomaEngineering.	ProfDrS.G.Anuradha, ProfRaghuKumar.K.S,RYMEC,Ballari
2	14/10/22to 18/10/22	OnlineFDPonAutomation Technology	G.K.Shivaprasad,SoftAcademy,Hosapete
2021-22			
1	18/1/22to 22/1/22	OnlineFDPonPreparationofSAR forNBA	DrMdRafiq,UBDTCE,Davangere DrVeergangadharaSwamy,RYMEC,Ballari,G
2	22/11/21to 26/11/21	OnlineFDPonCNCMachines	.K.Shivaprasad,Manager,&Vijayakumar,Engineer,JSWSteelsLtd,Toranagallu

5.5 Productdevelopment,Consultancy,Manufacturingcontracts,testingcontracts(8) **InstituteMarks7**

Asolartreewasdevelopedwhichwill

supplypowertothedepartmentessentialneeds.Rectangular&VNotchtestrigwasfabricatedbystudentsf

orhydraulicslab.

Centrifugal pumptestrigwasfabricatedbystudentsforhydraulicslab.

Mechatronicslabmodelsweredevelopedbystudents.

5.6 FacultyPerformanceAppraisaland Development System(FPADS)(30) **InstituteMarks21**

FacultymembersofHigherEducationalInstitutionstodayhavevarietyoftaskspertainingtodiverseroles.Rolerelatestotheshoulderingof administrativeresponsibilitiesandco-operationwithotherFaculty,HeadsofDepartments,andtheHeadofInstitute.Aneffectiveperformanceappraisalsystemfor Facultyisvitalforoptimizingthecontributionofindividual Facultytoinstitutionalperformance.

FacultyPerformanceAppraisalletteriscollectedfromeachfacultyinwhichtheyneedtoshowtheirrolesandresponsibilitiesinthedepartment.TheformatofFacultyPerformanceAppraisalletterisprovidedbyESTsection.BasedontheremarksbyHODandPrincipal,facultywill begivenappraisal intheformof increment.

Appraisalisalsobased onthecontributionofthefacultyattheDepartment/Institutelevel

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

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

Facultyappraisalform(Incrementform)willbeissuedtoallthefacultymembers.Theformneedstobefilled byconcernedfacultyandtobesubmittedtotheHOD.ItwillbeevaluatedbyHODandforwardedtotheprincipalforfurtherevaluationof thereportandrecommendationandapproval.Ifanyunfavourablefeedbackisobtained,itwillbebroughttothenoticeofthefacultyandinsi stthem toimprovise.ThesimilarprocesswillbeadoptedforappraisalofHODbytheheadoftheinstitution

C.Detailsofqualification up-gradationoffaculty(10) **InstituteMarks5**

Manyofthe facultyinthe departmenthavingbachelordegree

inmechanicalengg.andmanyofthemechanicaldeptfacultieshaveparticipatedintheFDP&differenttypesofworkshopsduringthethree

academicyears(CAY,CAYm1,CAYm2)

CRITERIA – 6

FACILITIESANDTECH NICALSUPPORT

6.1 Availabilityofadequate, wellequippedclassroomsto meetthe curriculumrequirements(10)Institutemarks10

Table 6.1 :ClassRoomDetails

RoomDescription	NumberOfRoom	Usage	Shared/Exclusive	Capacity	RoomsEquippedwith	Adequate
1st year						
LH-03ISEM	01	MECH	Exclusive	75	Greenboard,adequateLighting,podium,fans,Benches	Adequate
LH-032SEM	01	MECH	Exclusive	75	Greenboard,adequateLighting,podium,fans,Benches	Adequate
2nd year						
LH-11IIISEM	01	MECH	Exclusive	75	Greenboard,adequateLighting,podium,fans,Benches	Adequate
LH-11IVSEM	01	MCEH	Exclusive	75	Greenboard,adequateLighting,podium,fans,Benches	Adequate
3rd year						
LH-21VSEM	01	MECH	Exclusive	60	Greenboard,adequateLighting,podium,fans,Benches	Adequate
LH-21VISEM	01	MECH	Exclusive	60	Greenboard,adequateLighting,podium,fans,Benches	Adequate

Table 6.1.2: classRoomandStaffRoomDetails

RoomDescription	NumberOfRoom	Usage	Shared/Exclusive	Capacity	RoomsEquippedwith	Adequate
Drawing Hall	01	AllottedforallStudents whoAre having Engg.Drawing/m/c	Shared	75	Greenboard,adequate Lighting,podium,fans, Benches	Adequate
HODRoom	01	AllottedforHOD	Exclusive	01	Wellfurnishedwith Tablandchair,fanTubeLlight,internetaccesspoint	Adequate
Mechanical FacultyRoom	01	AllottedforFaculty	Exclusive	10	Individualtableandchair, Racks,for staff	Adequate

6.2 Availabilityofadequateandwell-equippedworkshops,LaboratoriesandTechnicalmanpowertomeetthecurriculumrequirements(40) InstituteMarks34

A. **Adequacy(10)** **InstituteMarks8**

Departmenthasadequateworkshops,laboratoriesandwellqualified technicalmanpower.

Allthecomputerlabfacilitieshave1:1studentto PCratio andalsoadequateprinter,projector,UPS.

B. QualityofLabs/workshop(20) InstituteMarks18

- Labsarespaciousfor conductingtheexperimentstimely.
- LaboratoryexperimentalEquipments,Machinesandtestkitsarereliableandaccurate withperiodic maintenance.
- Properlightingandventilationisprovidedineverylab.
- Informative noticeboardcontainingsafetymeasuresandSpecificationcharts oftheequipments of therespective labsaredisplayed.
- LCDProjectors,UPSare providedforComputerLaboratory.
- Eachlabequippedwithfireextinguisherequipments andfirstaidboxes.
- StockVerificationisdonefor everyyeartoconfirmtheavailabilityandworkingcondition of the equipment.

C. TechnicalManpowersupport – EligibleandAdequate(10) InstituteMarks8

- The departmenthaswell qualified,adequate and well experiencedtechnicalmanpowerintherespective fields.
- Thedepartmenthas highlyexperienceddedicated technical manpowerfor eachworkshopandlaboratory.
- Thelist oftechnicalsupportingstaff isasfollows.

Sl.No.	NameoftheStaff	Designation
1	T L Yoganand	Foreman
2	RSuryaprakash	Instructor
3	P Siddakalisab	AsstInstructor
4	P Basavaraj	AsstInstructor
5	S J Muradimath	Mechanic
6	SidappaDesai	Mechanic
7	J S Dollin	Mechanic
8	K Manjunath	Mechanic
9	H Mallikarjuna	Helper
10	BangiBasavaraj	Helper
11	Krishna	Helper

Sl. No.	Nameofthe Laboratory	Number of students persetUp (BatchSize)	Nameofthei mportant Equipment(Coasting morethanRs.30, 000)	Weeklyutilizationstatus(allthecoursesforwhichthetabisutilized)	TechnicalManpowerSupport		
					NameoftheTechnicalStaff	Designation	Qualification
1	BASICW/S Practice-I	20	Benchvice,Drilling machine	6days/week	P. SiddakaliSab	AsstInstructor	ITI
2	ITSkillls	20	PC20 Nos	6days/week	K.P.Mallikarjuna	Sl.Gr.Lect	B.E
3	BEEE	20	CRO	6days/week	VeereshMamani	Instructor	DEE
4	CAEDLab	20	PC20, Solid	6days/week	D.Venkatesh	Sl.Gr.Lect	B.E
5	BasicWorkshop-II	20	Forge,Power hammer	6days/week	B.K.Mohan	Instructor	ITI
6	MOM Lab	20	1)Universaltesting machine	6days/week	M.Mahesh Gouda	Sl.Gr.Lect	B.E
7	FPELab	20	1)Peltonwheel 2) FrancisTurbine 3) Notchapparatus 4) Venturimeter	6days/week	T.Naziruddeem	Sl.Gr.Lect	B.E
8	M/Cshop	20	1)Lathes2)Shapers 3)MillingMachine 4) Slottingmachine 5) Drilling machine 6) Grindingmachine	6days/week	K Shameevulla	Mechkanic	ITI
10	EIALab	20	PLCKits,LCD Projector,	6days/week	Gavisidappa	Sl.Gr.Lect	B.E

11	PDDLab	20	Shared	6days/week	T.Gududappa	Sl.Gr.Lect	BE
12	OMLab	20	Shared	6days/week	Pundaleek.M	Sl.Gr.Lect	ME
13	CNC	20	1. CNCTrainer lathe 2. CNCMill	6days/week	T Naziruddeen	HOD/Sl.Gr.Lect	B.E
14	AMT Lab	20	Projector,PC, 3DPrinter	6days/week	Pundaleek,C .S.Prakash,G avisidappa	Sl.Gr.Lect Sl.Gr.Lect Sl.Gr.Lect	ME B.E BE

6.3 Additionalfacilitiescreatedfor improvingthequalityoflearningexperienceinlaboratories(20) InstituteMarks18

A. **Facilities(10) Institutemarks5**

ThedepartmentofMechanicalEngineeringhaswellequippedwithlatesttoolsthatenablesstudentstoexplorepracticalexperience,so astofulfilltheAcademia -Industrialgap.

1. CNC soft ware

CNCMachinefacilityenablesthestudentstowritethesimpleprogramsincomputertoanalyzetheoperationsvirtuallyandallowstoe xecutetheprograminrealistic waytomanufacture thesimpleproducts.

2. MaterialTesting

Thisfacilityallowsthestudentstotestdifferentmaterialusedinengineeringapplicationstodeterminethemechanicalpropertiestoensuretheq ualityofthe material.

3. Welding

Knowingthedifferentweldingtechniquesandmakeuse ofthosetypesinpracticalwaytothe studentallowsus to setup thisfacility.

4. CutSectionModel

Thecutsectionmodelsaremosteffectivetrainingtoolswhichmakeitveryeasyforthestudentstounderstandtheworkingofapartsofanautomobile.

5. Grinding

Thisfacilityenablesthestudentstoknow abouttheimportanceofsurfacefinishingprocessesatlaboratorylevelandalsoindustrylevel.

6. DrawingModelsandMachineComponents

Inthis areathefreedomisgiventothestudentstoexecutetheir imaginationofengineeringcomponentsintorealisticmannerbyusingappropriatematerialslikecardboard,wood,Thermocoal etc,toensure how theideasorimaginationwillbeconvertedintoreal.

7. Toolsandequipmentchart

Thisfacilityisprovidedforstudentstoknow aboutthevarioustoolsandtheir importance.

B. **EffectiveUtilization(5)** **Institutemarks5**

It isverynecessaryfor the technicalstudentstoexploreadvancedtechnologyratherthanprescribedinformation by creatingstate ofartcentersfor theadvancedlearning.

Theentirefacilitiesaremadeavailable tothestudentsinregularacademics,weekly 2to3 Hrs.tomakesure tolearnpracticallysoastoensurefullfledgedexperience.

Thisfacilityhasbeenextendedacademicallyto facilitatethestudentstobuildadvancedlearningcapabilities.

C. **RelevancetoPOs/PSOs(5)** **Institutemarks5**

Thefacilitiesmakesthestudentstogainoutcomesspecific tothedepartmentwhichgivesstudents abetterunderstanding onhowtosolve reallifeproblemsinengineeringapplications.

Sl. No.	Facility Name	Details	Reasonfor CreatingFacility	Utilization	AreainwhichStudentsareExpectedtoHaveenhancedLearning	Relevance ToPOs/PSOs
1	CNC Trainer kit	OneCNCLathe & OneCNCMill	Tounderstand Thedifferent MachiningOperationsusing CNC	2 Hrs/Week	Manufacturing	PO1, PO2, PO4, PO7, PS01&PSO2
2	Materials Testing	RockwellHardnesstestingMachine,UniversalTestingMachine	StudytheMechanicalPropertiesofDifferent Materialswith Additionaltesting Machines	2 Hrs/Week	Qualityand Control	PO1,PO2,PO4,PO7, PS01& PSO2

3	Welding	GasweldingEquipment :MIGWeldingMachine	TolearnvariousFabricationMethods	2 Hrs/Week	Production	PO1,PO4,PO7,PSO1, & PSO2
4	CutSection Model ofMechanicalMachines	4 Strokemulticylinder Engine,2 StrokeEngine cylinderPetrolengine	StudentstoAnalyzedetailsAboutConstruction ofEngine andVarious EngineComponents	2 Hrs/Week	Mechanical Workshops Andgarages	PO1,PO4,PO7,PSO1, & PSO2
5	DrawingModelsandMachineComponents	BasicDrawingShapes,PlaneFigures,quadrantModel	ThestudentsUnderstandDifferentviewsOfmachineComponentsAnditsApplications	3 Hrs/Week	EnhancingCreativityandImagination	PO1,PO4,PO7,PSO1, & PSO2
6	ToolsandEquipmentChart(W/shop)	ToolsandEquipmentdetailsWithspecification	EnhancetheKnowledgeandAwarenessofUsedinEngineering	3 Hrs/Week	Toolroom AndWorkshop	PO1,PO4,PO7,PSO1, & PSO2

6.4 Laboratories:Maintenanceandoverallambiance(10) **InstituteMarks 8**

Maintenance ofLaboratoryEquipments:

- Eachlabisneatlymaintained by regularhousekeeping.
- Regularcheckupofequipmentiscarriedoutat theendof everysemesterandbeforethestart ofeverysemester.
- Calibrationiscarriedout fortheLabequipments.
- Informative noticeboardcontainingsafety,Do's&Don'tsisdisplayedineverylab.
- WellqualifiedTechnicalStaff areavailableformaintenanceof mechanicalequipmentsandsoftware.
- Maintenanceof Printersarebeingdoneas andwhenrequired.
- AllnecessaryPCsystemregularsoftwarelikeMicrosoftoffice,labsoftware;antivirussoftwareetc,is installed andmaintained.
- LCDProjectorsareprovided forComputerLaboratory.
- Eachdepartmentequipped withfire extinguisherequipmentsandfirstaid boxes.
- StockVerificationisdonefor everyyeartoconfirmtheavailabilityandworkingcondition of the equipment.

OverallAmbiance:

1. Departmenthasfullyfurnished&wellequippedlabswithallnecessaryequipmentforallcoursesaspercurriculumrequirements.
2. Conditions of chairs/benchesareingood condition.
3. Allthelabsareconductedandevaluatedeveryweek.
4. Alllaboratorieshavesufficientnaturallight,goodventilationwithtubelightsandfanarrangement.5.Suffici entnumber of windowsisavailableforventilation andnaturallight.
6. Eachdepartmentisequippedwithwhite/blackboard,Computers,Projectors,Printers,Internet,andsuchotheramenities.

Laboratory Description	**Maintenance OfEquipment**	**Quality ofInstruments**	**No. ofStudent/Experimental Setup**	**Carpet Area (insq.m)**	**Completion Of Walls and**	**Ambience**
BASICW/S PRACTICEI	Halfyearly	Excellent	1/setup	83	Yes	Excellent
IT SKILLS LAB	Halfyearly	Excellent	2/setup	60	Yes	Excellent
FEEELAB	Halfyearly	Excellent	1/setup	125.4	Yes	Excellent
CAEDLAB	Halfyearly	Excellent	1/setup	60	Yes	Excellent
BASICW/S PRACTICE II	Halfyearly	Excellent	1/setup	60	Yes	Excellent
MOM LAB	Halfyearly	Excellent	4/setup	68	Yes	Excellent
FPELAB	Halfyearly	Excellent	5/setup	57	Yes	Excellent
M/CSHOP-1	Halfyearly	Excellent	1/setup	83	Yes	Excellent
MP LAB	Halfyearly	Excellent	4/setup	68	Yes	Excellent
OMLAB	Halfyearly	Excellent	4/setup	60	Yes	Excellent
PDDLAB	Halfyearly	Excellent	5/setup	88	Yes	Excellent
EIALAB	Halfyearly	Excellent	2/setup	60	Yes	Excellent
CNC LAB	Halfyearly	Excellent	2/setup	60	Yes	Excellent
AMTLAB	Halfyearly	Excellent	5/setup	60	Yes	Excellent

6.5 Availabilityofcomputingfacilityinthedepartment(10) InstituteMarks5

Sl.No.	NoofComputer terminals	StudentsComputer Ratio	DetailsofLegal Software	Detailsof Networking	DetailsofPrinters, Scannersetc.
1	20	1:1	Windowsopen	-	-

6.6 Language lab(10) **InstituteMarks8**

Afull–fledgedDigitalLanguageLabwith 40studentsconsolesisavailableisavailable for developingcommunicationskillsofourstudents.ThefouressentialskillsofListening,Speaking,Readingandwritingare impartedsystematicallywithactivitiesthatrequiretheiruseandaredesignedtosupportlearnersinprocessofacquiringcommunicationskillssetsquickly.

DetailsofLanguageLab

Description	Noofteacher console	No of studentsconsole	Shared/Exclusive
Intelatomprocessor ViewSonicepu 320 GBhod 2gb ram 15.6'-Monitor	1	20	Shared

FeaturesofDigitalLanguageLabPhonet
icsGeneralEnglish,
ConversationGeneralEnglish,IntelligibleEnglish,Grammar,ProfessionalCommunicationLabCommunicationskills,
Presentationskills,GroupDiscussion,Interviews,Publicspeaking,CV,emailsoftskillsetc.Utilization
ofDigitalLanguageLab
DigitalLanguageLabslotshave beenallottedinthe timetablefor
all1styearstudents.Asyllabushasbeensetas perthelevelsfor each
year&conductedaccordingly.

SystemConfiguration :

Intelatomprocessor	Viewsoniccpu	320GBHDD	2GB RAM	15.6“MONITOR

CRITERIA - 7

CONTINUOUSIMPROVEMENT

7.1 Actionstakenbased on theresultsevaluationof each ofthePOs and PSOs(25) **InstituteMarks23**

POsAttainmentLevelsandActionforImprovementPO

1:BasicandDisciplinespecificknowledge

POs	TargetLevel	AttainmentLevel	Observations
PO 1	2.89	2.61	FundamentalEngineeringknowledgeisnearlyachieved .Difficultyinrecallingknowledge ofmathematics&engineeringfundamentals&applyit toproblemsolvingmethods.

Action1:MoreTutorial / assignments weregiventoimprovethebasicknowledgeAction2 :Seminarswereconducted
Action3 :Practicallyexplainingbasicengineeringmaterialsusedinvariousfields

PO 2 : ProblemAnalysis

POs	TargetLevel	AttainmentLevel	Observations
PO 2	2.58	2.37	Targetmarginallymissed.Difficultyinanalysing problemoperatingcalculatorswasobserved.

Action1:Studentsareencouraged insolvingmoreproblems
Action2 :Studentsweremadetosolvepreviousexaminationquestionpapers.Action3 :Seminarswereconducted

PO 3 :Design / developmentofsolution

POs	TargetLevel	AttainmentLevel	Observations
PO 3	2.8	2.32	Targetmissed. Difficultyinunderstandingdesign solutions,operatingcalculatorswereobserved.

Action1 : Studentsweremadetothoroughlyunderstand thebasic conceptsofdesignAction2:More numberof designproblemswere madetobesolvedby students.
Action3:Seminarswereconducted

PO 4 :EngineeringTools,ExperimentationandTesting

POs	TargetLevel	AttainmentLevel	Observations
PO 4	2.76	2.53	Up-gradations of machinesandequipmentsinthe labtoconductstandardtests&measurement.

Action1 :Videoswereshown on latestmachinesand equipments
Action2: Newmachineswerepurchasedtoupgrade theskillsofthestudent.

PO 5 :Engineeringpracticeforsociety,sustainability and environment

POs	TargetLevel	AttainmentLevel	Observations
PO 5	2.166	2.005	Targetslightlymissed.Studentshadlessawarenessoftechnologiesincontext ofenvironment.

Action1:Studentsweremadetoattendseminarsrelatedtohealth
Action2
:StudentsareencouragedtoparticipateinNSSactivitiesandsocialvisitsAction3:Studentsweereencouragedtotakeup Eco-friendlyprojects

PO 6 :ProjectManagement

POs	TargetLevel	AttainmentLevel	Observations
PO 6	2.333	2.15	Targetslightlymissed.Lack ofknowledgeaboutworkingasa team.

Action1 : Casestudiesworediscussedthroughcourserelatedprojectmanagement/Industrialmanagementduringclasshour
Action2 :Studentsweremadetoformteamsforproject work

PO 7 :Life –longlearning

POs	TargetLevel	AttainmentLevel	Observations
PO 7	2.5	2.33	Targetslightlymissed.Studentswerenot awareaboutlifelonglearning

Action1 : SeminarswereconductedthroughExperts.

PSOsAttainment LevelsandAction forImprovement

PSO1:Thestudentswillbeable to applynecessaryconceptsincoreareasof mechanicalengineering

PSO	TargetLevel	AttainmentLevel	Observations
PSO1	3.00	2.783	Targetslightlymissed.Abilitytoapplyconceptsinmechanicalengineeringisdesirable.

Action1: Thestudentsweretakenfor industrialvisitstosurroundingindustries.

PSO2:Thestudentswillbeable to develop&optimizesolutionsincomputeraideddrawing&manufacturingplatforms

PSO	TargetLevel	AttainmentLevel	Observations
PSO2	3.00	2.32	Targetmissed.TheabilitytodevelopsolutionsinCAD/CAM were not uptothe mark.

Action1 : Studentsweremadeto do activitiesoncomputeraideddrawing&manufacturingof realcomponentsAction2: Seminarswereconducted.

PSO3:TheStudentswillgainteamspiritforworkinginavarietyofmanufacturingindustries,Automobile&powersectorsas wellaspursuinghigherstudiesforContributiontoresearch&development

POs	TargetLevel	AttainmentLevel	Observations
PSO 3	3.00	2.705	Targetslightlymissed.Thecapa Students were less bleofworkinginteams

Action1 : Thestudents weremadetoundergoinplant trainingingroups.Action2:
Thestudents weremadetomakemini projectsas agroup.
Action3: Thestudents weremadetoundergo internshiptraining.

7.2 ImprovementinSuccessindex ofStudentswithoutthebacklog(10) **InstituteMarks8**

Items	LatestPassedoutBatch(2020-21)	LatestPassed outBatchminus1 (2019-20)	LatestPassed outBatchminus2 (2018-19)
SuccessIndex(from4.2.1)	0.369	0.294	0.157

7.3 ImprovementinPlacementandHigherStudies(10) **InstituteMarks8**

Items	LatestPassedoutBatch(2020-21)	LatestPassed outBatchminus1 (2019-20)	LatestPassed outBatchminus2 (2018-19)
PlacementIndex(from 4.6)	0.475	0.767	0.8

7.4 ImprovementinAcademicPerformanceinFinalyear(10) **InstituteMarks8**

Items	LatestPassedoutBatch(2020-21)	LatestPassed outBatchminus1 (2019-20)	LatestPassed outBatchminus2 (2018-19)
AcademicPerformanceIndex(from 4.6)	6.192	4.00	4.294

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

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) **InstituteMarks9**

Items	2022-23(CAYm1)	2021-22(CAYm2)	2020-21(CAYm3)
Newfacilitycreated	1	1	1

Criteria – 8
Student Support System

8.1 STUDENTSUPPORTSYSTEMSMentoring systemto helpat individuallevel(10)

MentoringsystemtohelpatindividuallevelForstudents,amentorissomeonewhoservesasaguidethroughouttheirinstitutionaltraining.Mentorsapplytheirguidance,experienceandexpertiseinpromotingtheirmenteesprofessionallyandpersonally,throughinterpersonalengagement.

Inshort,Mentoringaspirestotransformationalpositivechanges.Itenhancesselfconfidence,improvespeerbondingandpreparesmenteesforcareeradvancement.

Eachfacultyisassigned15to20students.Thefacultymonitorstheirprogressandreportstodepartmentin-chargeofcounsellingcell.Thismentoringisforover-alldevelopmentofthestudent.Acounsellingsheetismaintainedbyfaculty,whereattendance,examinationmarksandfamilydetailsarerecorded.Thesameiscontinuedtillthestudentcompleteshis/hergraduation.Theperiodicstatuswillbesubmittedtotheparents/Guardians.

ObjectivesofMentoring

Refiningteacher-studentcommunicationoutsideclassroom

HelpingstudentsunderstandthechallengesandopportunitiespresentintheInstituteanddevelopsmoothtransitiontocampuslife.Maintainingdatabase ofstudentperformance,attendancedetails&drop outs

Ensuringregularityandpunctualityofstudentsthroughcounsellingsessions.

Supportingpersonal&professionalgrowth&monitoringpsychologicalgrowth&progress

ExpectedOutcomes

AhealthyLearningEnvironment

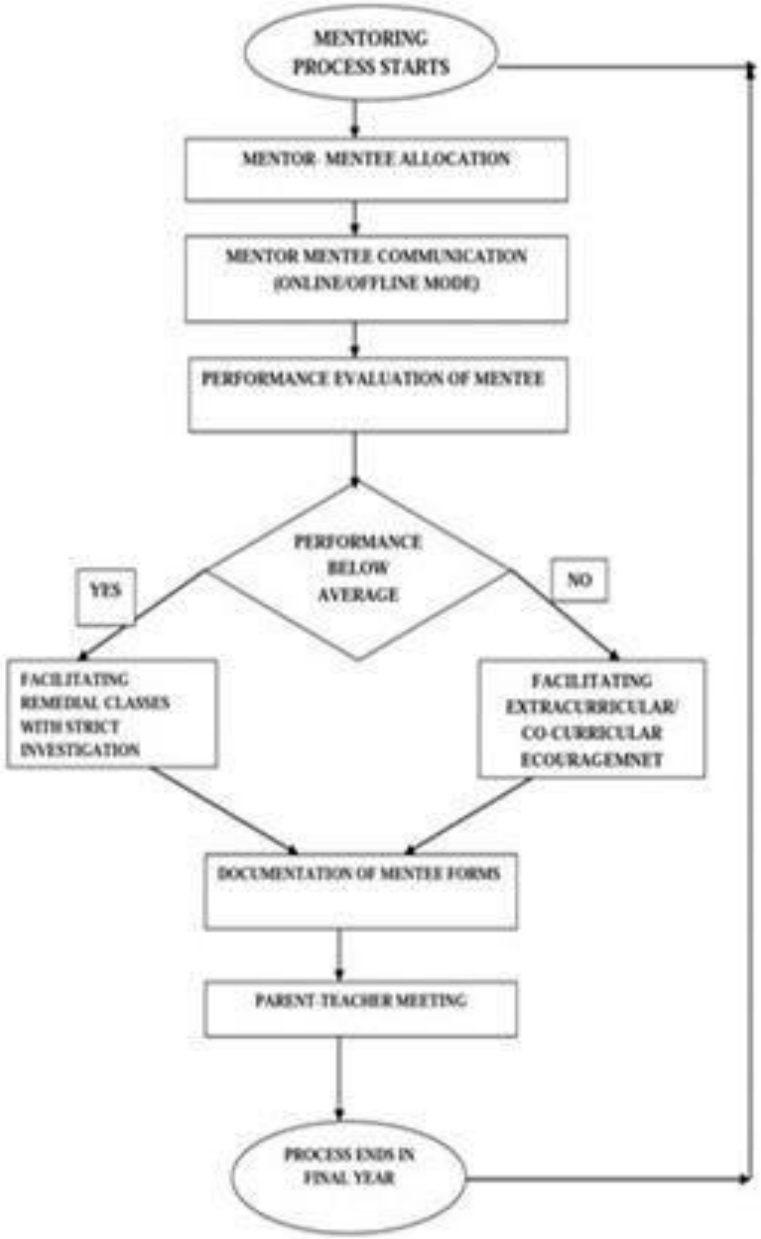
CreationofpositivecommunicationchannelsamongPrincipal,Parents,Staff&StudentsEnhancingafeelingofbelongingamongstudents

Self-confident,bold&anactive,enthusedstudentcommunity

Betterattendance,lesserdropoutsandgoodpsychologicalhealthofstudentsConfidentParentsImprovedPerformance

Note:MentorsDiaryismaintainedfromtheacademicyear2019-20.

Flowchartbelowshowsthe



8.2 Feedbackanalysisandreward/correctivemeasurestaken,if any
Methodologybeingfollowedforfeedbackcollection,analysisanditseffectiveness

Thefeedbackcollectionprocessisveryimportantforqualityimprovementoftheinstitution.Thefacultyfeedbackiscollectedfromthes
tudentseverysemester.Thisprocesscontributestoevaluatethefacultyperformanceforreward/correctivemeasures

Theonlinefeedbackwillbetakenfromthestudentsinregularclasshoursandmonitoredbytheinterdepartmentfaculty

AveragePercentageofStudentswhoparticipates: Studentshavingattendancemorethan75%areparticipated.Thefeedbac

kanalysisprocess:
Theinterdepartmentfacultycollectthefeedbackfromstudentsthroughonlineandconsolidatedreportgeneratedonlineisforwarde
dtothePrincipalsOfficeforfurtherCorrectiveMeasures.Thesamewillbe senttorespective
HOD's.**Table:Feedbackanalysisgrading**

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

Theteachingperformanceindicesareanalysedbythe PrincipalsOfficeandthesameisconveyedtotheconcerned.Recordofcorr

ectivemeasurestaken

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.Performanceratingoffacultythroughstudentfeedbacksystemisoneofthe factorsinevaluatingtheannualperformanceandtoreleasetheannualincrement.

CorrectiveActionstaken:

Thefacultiesperformingbelowaveragearetrainedcontinuouslythrough FacultyDevelopmentProgramtoimprovethequality ofthestaff.

Feedbackonfacilities

Studentfeedbackonfacilities,analysisandcorrectiveactiontaken

Assessmentisbasedonstudentfeedbackcollection,analysisandcorrectiveactiontaken.

Feedbackonfacilities

Astandardprocedureforfeedbackonfacilitiesistakenupinthecollege.Feedbackiscollectedfromthestudentsonfacilitiesavailable inthecollegesuchasWaterfacility,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?
- AreyouawareofNSSActivitiesinourTechnicalBoard?

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.
- ItisresponsibilityofgoverningcouncilтofollowguidelinesasamendedbyTMAESSociety, 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-

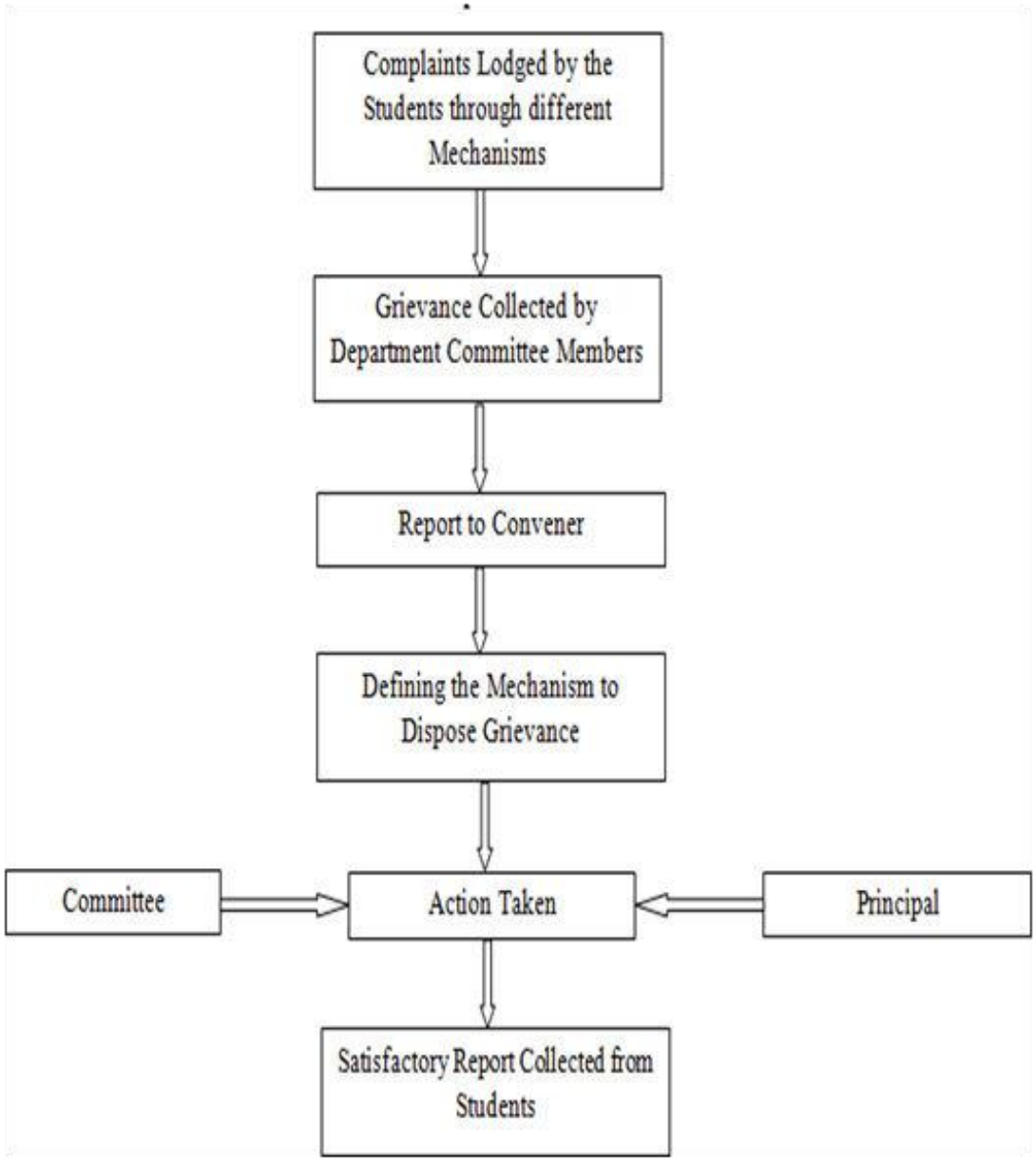
chargestudent'sgrievancecell.Incasepersonisunwillingtoappearinself,grievancemaybedroppedinwritingattheletterbox/sugge stionboxofthegrievancecellatadministrativeblock.

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.TheinstituteandProgramspecificinformationismadeavailable toallaspirantsthroughtheweb-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.Thecollectivebudgetproposalsarescrutinizedbythebudgetcommitteeatthecollegelevelandfurthertakentogoverningcouncilandmanagementcouncilforapprovalandsanction.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

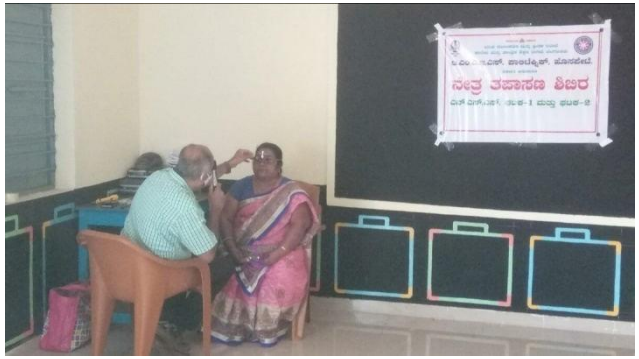
4) CovidVaccinationProgramattheinstitutewiththesupportofLocalHealthDept:

5) CovidTest(RapidTest)ProgramtofollowtheSOPGuidelinesgivenbyHealthDept

6) ParticipationinRoadSafetyweekorganizedby DepartmentofTraffic Police,Hosapete


7) FreeEyeCheckupCamp forthepublic.





8) NationalYouthdaycelebration


INDUCTIONPROGRAMFORFIRSTSEMESTERSTUDENTSOFTHEACADEMICYEAR2023-24

YOGA&MEDITATION

SEMINARONPERSONAL HEALTHCAREFORGIRLS

STUDENTSATTENDINGLECTUREON“SANKALPANA-2047”


SECONDSEMESTERSTUDENTSANDSTAFFATTENDEDTHEPROGRAMONACCOUNTOF161ST BIRTHDAYOFSWAMYVIVEKANANDAOURSTUDENTGOTSECONDPRIZEINSPEECHCOMPETITIONONPERSONALITYDEVELOPMENT


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