(Established as University of Technology in the State of Maharashtra)

(UnderMaharashtraActNo.XXIX of2014)

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PROPOSED COURSE STRUCTURE FOR UNDERGRADUATE DEGREE PROGRAMME B.TECH.IN

Food Technology

With effect from AY 2021-22

	Basic Science Course(BS	SC)	Hu	manities and Social Science Inclu Management Courses (HSSMC)	ıding	Engineering Science Course(ESC)				
BTB S101	Engineering Mathematics –I	(3-1-0)4	BTHM 104	Communication Skills	(2-0-0)2	BTES103	Engineering Graphics	(2-0-0)2		
BTB S102	Engineering Physics	(3-1-0)4	BTHM 109L	Communication Skills Lab (0-0-2)1 B'		BTES105	Energy and Environment Engineering	(2-0-0)2		
BTB S107 L	Engineering Physics Lab	(0-0-2)1	BTHM 703	Food Plant Organization Management and Marketing	(3-0-0)3	BTES106	Basic Civil & Mechanical Engineering	(2-0-0) Audit		
BTB S201	Engineering Mathematics–II	(3-1-0)4	BTHM 707	Essence of Indian Traditional Knowledge Foreign Language Studies Indian Constitution	Audit	BTES108 L	Engineering Graphics Lab	(0-0-4)2		
BTB S202	Engineering Chemistry	(3-1-0)4		Professional Core Course(PCC)		BTES203	Engineering Mechanics	(2-1-0)3		
BTB S207 L	Engineering Chemistry Lab	(0-0-2)1	BTFT C301	Principles of Food Science and Engineering	(3-1-0)4	BTES204	Computer Programming	(3-0-0)3		
BTB S303	Engineering Mathematics-III	(3-1-0)4	BTFT C302	Food Microbiology	(3-1-0)4	BTES205	Basic Electrical and Electronics Engineering	(2-0- 0)Audit		
BTFT BS 305	Food Biochemistry and Nutrition	(3-0-0)3	BTFT C 307L	Food Microbiology & Food Biochemistry and Nutrition Lab 02	(0-0-6)3	BTES206 L	Workshop Practice	(0-0-4)2		
Pro	fessional Elective Course	e(PEC)	BTFT C401	Food Additives & Preservation Techniques	(3-1-0)4	BTES208 L	Engineering Mechanics Lab	(0-0-2)1		
BTFT 4032		(3-0-0)3	BTFT C402	Processing Technology of Flesh Food	(3-1-0)4	BTFTES 304	Fluid Mechanics	(3-0-0)3		

BTFTPE 403B	Fumigation & Pest Control	(3-0-0)3	BTFT C404	Unit Operation and Formulation of food Products	(3-1-4)3	BTFTES 306L	Fluid Mechanics Lab-1	(0-0-2)1
BTFTPE 403C	Waste Management In Food Processing	(3-0-0)3	BTFT C501	Processing Technology Of Cereals & Legumes	(3-1-0)4	BTFES4 05	Heat & Mass Transfer	(3-0-0)3
BTFTPE 403D	Industrial Electronics Devices & Instrument	(3-0-0)3	BTFT C502	Processing Technology of Dairy Products	(3-1-0)4	BTFTES 406L	LabIII-HMT & UOFP	(0-0-6)3
BTFTPE50 4A	Food Extrusion Technology	(3-0-0)3	BTFT C503	Processing Technology of Fruits and Vegetables	(3-1-0)4		Open Elective Course	
BTFTPE50 4B	Plant Maintenance, Safety & Hygiene	(3-0-0)3	BTFT C506L	Lab-IV- Processing Technology Of Cereals, Dairy Products & FVT	(0-0-6)2	BTFTOE 505A	Food Refrigeration and Cold Chain	(3-0-0)3
BTFTPE50 4C	Spices & Flavor Technology	(3-0-0)3	BTFT C601	Processing Technology of Bakery & Confectionary Products	(3-1-0)4	BTFTOE 505B	Industrial Electronics Automation	(3-0-0)3
BTFTPE50 4D	New Product Development	(3-0-0)3	BTFT C602	Technology Of Fermented Food Products	(3-1-0)4	BTFTOE 505C	Environmental Studies	(3-0-0)3
BTFTPE60 4A	Fortified Food Products	(3-0-0)3	BTFT C603	Food Analysis	(3-1-0)4	BTFTOE 505D	ICT Application in Food Industries	(3-0-0)3
BTFTPE60 4B	Emerging Non- Thermal Method Of Food Preservation	(3-0-0)3	BTFT C606L	Lab –V-Food Analysis, Bakery& Fermented Products	(0-0-6)3	BTFTOE 605A	Biomedical Instrumentation	(3-0-0)3
BTFTPE60 4C	Beverage Technology	(3-0-0)3	BTFT C701	Food Quality, Safety Standards and Certification	(3-0-0)3	BTFTOE 605B	Renewable Energy Resources	(3-0-0)3

BTFTPE60 4D	Food Plant Layout and Design.	(3-0-0)3	BTFT C702	Food Packaging Technology	(3-1-0)4	BTFTOE 605C	Marketing Research	(3-0-0)3
BTFTPE70 4A	Biostatistics and Research Methodology	(3-0-0)3		Seminar/Mini Project/Internship	p	BTFTOE 605D	Computer Aided Design and Manufacturing	(3-0-0)3
BTFTPE70 4B	Food Product Rheology and Texture	(3-0-0)3	BTES2 09S	Seminar-1	(0-0-2)1	BTMIOE 705A	Recent Trends In Food Packaging	(3-0-0)3
BTFTPE70 4C	Cane Sugar Technology	(3-0-0)3	BTES2 10P	Internship–1Evaluation	(0-0-0)1	BTMIOE 705B	Food Biotechnology and Bioinformatics	(3-0-0)3
BTFTPE70 4D	Processing of Oils & Fats	(3-0-0)3	BTFT4 07S	SeminarII	(0-0-2)1	BTMIOE 705C	Information & Cyber Security	(3-0-0)3
			BTFT4 08P	Field Training /Internship/IndustrialTraining(m inimum of 4 weeks)		BTMIOE 705D	Entrepreneurship Development	(3-0-0)3
			BTFT M507	Mini Project–I	(0-0-2)1	BTMIOE70 5L	Open Elective III(A-D)Lab- VI	(0-0-6)3
			BTFT4 08	Internship— 2 Evaluation	(0-0-0)1		Project(MP)	
			BTFT6 07M	Mini Project–II	(0-0-2)1	BTFTP8 01/	Project work/	(0-0-24) 12
			BTFT6 08P	Field Training /Internship/Industrial Training(minimum of 4 weeks)		BTFTP8 01	Internship	
			BTFT M708	Mini Project – III	(0-0-2)2			
			BTFT6 08	Internship–3 Evaluation	(0-0-0)1			

Numb er of Cours					Semester			
es	I	II	III	IV	v	VI	VII	VIII
1	BTBS101 Engineering Mathematics- I	BTBS201 Engineering Mathematics- II	BTFTC301 Principles of Food Science and Engineering	BTFTC401 Food Additives & Preservation Techniques	BTFTC501 Processing Technology Of Cereals & Legumes	BTFTC601 Processing Technology of Bakery & Confectionary Products	BTFTC701 Food Quality, Safety Standards and Certification	BTFTP801 /BTFTP801 ProjectWork/ Internship
2	BTBS102 Engineerin gPhysics	BTBS202 Engineering Chemistry	BTFTC302 Food Microbiology	BTFTC402 Processing Technology of Flesh Food	BTFTC502 Processing Technology of Dairy Products	BTFTC602 Technology Of Fermented Food Products	BTFTC702 Food Packaging Technology	_
3	BTES103 Engineering Graphics	BTES203 Engineering Mechanics	BTBS303 Engineering Mathematics-III	BTFTPE 403 Elective –I	BTFTC503 Processing Technology of Fruits and Vegetables	BTFTC603 Food Analysis	BTHM703 Food Plant Organization Management and Marketing	_
4	BTHM104 Communicatio nSkills	BTES204 ComputerPro gramming	BTFTES 304 Fluid Mechanics	BTFTC404 Unit Operation and Formulation of food Products	BTFTPE504(A- D) Elective–II	BTFTPE604 (A-D) Elective–III	BTFTPE704 (A-D) Elective–IV	
5	BTES105 Energy andEnviron mentEngin eering	BTES205 BasicElectric aland Electronics Engineering	BTFTBS 305 Food Biochemistry and Nutrition	BTFES405 Heat & Mass Transfer	BTFTOE505 (A-D) OpenElective –I	BTFTOE605 (A-D) OpenElective –II	BTFTOE705(A- D) OpenElective– III	_
6	BTES106 Basic Civil andMechanica lEngineering	BTES206L Workshop Practice	BTFTES 306L Fluid Mechanics Lab-1	BTFTES406L LabIII-HMT & UOFP	BTFTC506L Lab-IV- Processing Technology Of Cereals, Dairy Products & FVT	BTFTC606L Lab –V-Food Analysis, Bakery& Fermented Products	BTFTOE706L (A-D) OpenElective– III Lab–VI	_
	BTBS107L Engineerin	BTBS207L EngineeringCh	BTFTC 307L Food	BTFT407S SeminarII	BTFTM507 Mini Project–I	BTFT607M MiniProject–	BTHM 707 D. Essence	_

7	gPhysicsL ab	emistryLab	Microbiology & Food Biochemistry and Nutrition Lab 02			П	of IndianTraditiona IKnowledge E.Foreign LanguageStudie s F. IndianCo nstitution	
8	BTES108L Engineerin gGraphicsL ab	BTES208L Engineering MechanicsLa b	BTFT 210P Intership-1 Evaluation	BTFT408P Field Training /Internship/Indu strialTraining(m inimum of 4 weeks)	BTFT408 Internship— 2 Evaluation	BTFT608P Field Training /Internship/In dustrial Training(mini mum of 4 weeks)	BTFTM708 Mini Project – III	_
9	BTHM109L Communicatio nSkillsLab	BTES209S SeminarI	_	_	_	_	BTFT608 Internship–3 Evaluation	_
10		BTES210P (Internship -	_	_	_	_	_	_

B. Tech in Food Technology Program Educational Objectives and Outcomes

A. Program Educational Objectives(PEOs)

Graduates willableto-

- 1. Graduates should excel in engineering positions in industry and other organizations that emphasized esignand implementation of engineering systems and devices.
- 2. Graduates should excel in best post-graduate engineering institutes, reaching advanced degreesinengineeringandrelated discipline.
- 3. Within several years from graduation, alumni should have established a successful career in an engineering-related multidisciplinary field, leading or participating effectively ininterdisciplinary engineering projects, as well as continuously adapting to changing technologies.
- 4. Graduates are expected to continue personal development through professional study and self-learning.
- 5. Graduates are expected to be good citizens and cultured human beings, with full appreciation of the importance of professional, ethical and societal responsibilities.

B. Program Outcomes

EngineeringGraduate will beable to-

- 1. **Engineeringknowledge:** Applytheknowledgeofmathematics, science, engineering fundamentals, and an engineering specialization to the solution of complexe ngineering problems.
- 2. **Problemanalysis:**Identify,formulate,reviewresearchliterature,andanalyzecomplexengineering problems reaching substantiated conclusions using first principles of mathematics,naturalsciences, andengineeringsciences.
- 3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, so cietal, and environmental considerations.
- 4. **Conduct investigations of complex problems:** Use research-based knowledge and researchmethodsincludingdesignofexperiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modernengineering and IT tools including prediction and modeling to complex engineering activities withan understanding of the limitations.
- 6. The engineer and society: Apply reasoning informed by the contextual knowledge to assesssocietal, health, safety, legal and cultural issues and the

consequent responsibilities relevant totheprofessional engineering practice.

- 7. **Environmentandsustainability:**Understandtheimpactoftheprofessionalengineeringsolutionsinsocietalandenvironmentalcontexts,anddemonstratethekn owledgeof,andneedforsustainabledevelopment.
- 8. Ethics: Apply ethicalprinciples and committoprofessional ethics and responsibilities and norms of the engineering practice.
- 9. **Individual and team work:** Function effectively as an individual, and as a member or leader indiverseteams, and in multidisciplinary settings.
- 10. **Communication:**Communicateeffectivelyoncomplexengineeringactivities with the engineering community and with society at large, such as, being able to comprehend and writeeffective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11. **Projectmanagementandfinance:** Demonstrateknowledgeandunderstandingoftheengineering and management principles and apply these to one"s own work, as a member andleaderin ateam, tomanageprojects and inmultidisciplinaryenvironments.
- 12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage inindependent and life-longlearning in the broadest context of technological change.

$C.\ Program Specific Outcomes (PSOs)$

- 1. Apply knowledge of mathematics, science and engineering to analyze, design and evaluatemechanicalcomponents and systems using state-of-the-artIT tools
- 2. Analyzeproblemsofproductionengineeringincludingmanufacturingandindustrial systemstoformulatedesign requirements
- 3. Design, implementand evaluate production systems and processes considering publichealth, safety, cultural, societal and environmental issues
- 4. Design and conduct experiments using domain knowledge and analyze data to arrive at validconclusions.
- 5. Apply current techniques, skills, knowledge and computer based methods and tools to developproduction systems.
- 6. Analyze the local and global impact of modern technologies on individual organizations, societyandculture.
- 7. Applyknowledgeof contemporaryissuesto investigate and solveproblems with a concernforsustainability and eco-friendly environment.
- 8. Exhibitresponsibilityinprofessional,ethical,legal, securityand socialissues.
- 9. Function effectively in teams, in diverse and multidisciplinary areas to accomplish commongoals.
- 10. Communicateeffectivelyindiverse groupsandexhibitleadershipqualities.
- 11. Applymanagement principlesto manageprojects inmultidisciplinaryenvironment.
- 12. Pursuelife-longlearningasa meansto enhanceknowledgeandskills.

Course Structure for Semester III (Staringfrom2021-2022) B.Tech.in Food Technology

		Semester-II	I							
			Tea	aching So	cheme		Evalua	tion Sch	eme	dit
Course Category	Course Code	Course Title	Course Title L		P	CA	MSE	ESE	Total	Credit
PCC1	BTFTC301	Principles of Food Science and Engineering	3	1	-	20	20	60	100	4
PCC2	BTFTC302	Food Microbiology	3	1	-	20	20	60	100	4
BSC7	BTBS303	Engineering Mathematics- III	3	1	-	20	20	60	100	4
ESC10	BTFTES 304	Fluid Mechanics	3	-	_	20	20	60	100	3
BSC8	BTFTBS 305	Food Biochemistry and Nutrition	3	-	-	20	20	60	100	3
ESC11	BTFTES 306L	Fluid Mechanics Lab-1	-	-	2	60	-	40	100	1
PCC3	BTFTC 307L	Food Microbiology & Food Biochemistry and Nutrition Lab 02	-	-	6	60	-	40	100	3
PROJ-1 EV	BTFT 210P	Intership-1 Evaluation			-	-	-	100	100	1
	Total		15	3	8	220	100	480	800	23

Course Structure for Semester IV (Staring from2021-2022) B.Tech.in Food Technology

		Se	mester	-IV						
Course	Course Code	Course Title	Teac	hing Sc	heme	E	valuation	Credit		
Catego ry	Course Code	Course Title	L	T	P	CA	MSE	ESE	Total	Cre
PCC4	BTFTC401	Food Additives & Preservation Techniques	3	1	-	20	20	60	100	4
PCC5	BTFTC402	Processing Technology of Flesh Food	3	1	-	20	20	60	100	4
PEC1	BTFTPE 403	Elective –I	3	-	-	20	20	60	100	3
PCC6	BTFTC404	Unit Operation and Formulation of food Products	3	1	-	20	20	60	100	4
ESC12	BTFES405	Heat & Mass Transfer	3	-	-	20	20	60	100	3
ESC13	BTFTES406L	LabIII-HMT & UOFP	-	-	6	60	-	40	100	3
PROJ-3	BTFT407S	Seminar II	-	-	2	60	-	40	100	1
PROJ-4	BTFT408P	Field Training /Internship/Industrial Training(minimum of 4 weeks)	-	-	-	-	-	-	-	Credits to be evaluated in SemV
		Total	15	3	8	220	100	380	700	22

BSC = Basic Science Course, ESC = Engineering Science Course, PCC = Professional Core Course PEC = Professional Elective Course, OEC = Open Elective Course, LC = Laboratory Course , HSSMC= Humanities and Social Science including Management Courses

Elective-I

BTFTPE 403A	Nutraceuticals and Diet Therapy
BTFTPE 403B	Fumigation & Pest Control
BTFTPE 403C	Waste Management In Food Processing
BTFTPE 403D	Industrial Electronics Devices & Instrument

Course Structure for Semester V (Staring from2021-2022) B.Tech.in Food Technology

		Se	mester	-V						
Course	G G 1	C T'41	Teaching Scheme			E	valuation	dit		
Catego ry	Course Code	Course Title		Т	P	CA	MSE	ESE	Total	Credit
PCC7	BTFTC501	Processing Technology Of Cereals & Legumes	3	1	-	20	20	60	100	4
PCC8	BTFTC502	Processing Technology of Dairy Products	3	1	-	20	20	60	100	4
PCC9	BTFTC503	Processing Technology of Fruits and Vegetables	3	1	-	20	20	60	100	4
PEC2	BTFTPE504 (A-D)	Elective-II	3	-	-	20	20	60	100	3
OEC1	BTFTOE505 (A-D)	Open Elective –I	3	-	-	20	20	60	100	3
PCC10	BTFTC506L	Lab-IV- Processing Technology Of Cereals, Dairy Products & FVT	-	-	6	60	-	40	100	2
PROJ-5	BTFTM507	Mini Project-I	-	-	2	60	-	40	100	1
PROJ-4 EV	BTFT408	Internship— 2 Evaluation	-	-	-	-	-	100	100	1
		Total	15	3	8	220	100	480	800	22

Elective-II

BTFTPE504A	Food Extrusion Technology
BTFTPE504B	Plant Maintenance, Safety & Hygiene
BTFTPE504C	Spices & Flavor Technology
BTFTPE504D	New Product Development

Open Elective-I

BTFTOE505A	Food Refrigeration and Cold Chain
BTFTOE505B	Industrial Electronics Automation
BTFTOE505C	Environmental Studies
BTFTOE505D	ICT Application in Food Industries

Course Structure for Semester VI (Staring from2021-2022) B.Tech.in Food Technology

		Se	mester-	IV						
Course		Course Title		hing Sc	heme	E	valuation	Credit		
Catego ry	Course Code			Т	P	CA	MSE	ESE	Total	Cr
PCC11	BTFTC601	Processing Technology of Bakery & Confectionary Products	3	1	-	20	20	60	100	4
PCC12	BTFTC602	Technology Of Fermented Food Products	3	1	-	20	20	60	100	4
PCC13	BTFTC603	Food Analysis	3	1	-	20	20	60	100	4
PEC3	BTFTPE604 (A-D)	Elective-III	3	-	_	20	20	60	100	3
OEC2	BTFTOE605 (A-D)	Open Elective–II	3	-	-	20	20	60	100	3
PCC14	BTFTC606L	Lab –V-Food Analysis, Bakery& Fermented Products	-	-	6	60	-	40	100	3
PROJ-6	BTFT607M	Mini Project-II	-	-	2	60	-	40	100	1
PROJ-7	BTFT608P	Field Training /Internship/Industrial Training(minimum of 4 weeks)	-	-	-	-	_	-	_	Credits to be evaluated in Sem VI
		Total	15	3	8	220	100	380	700	22

Elective-III

BTFTPE604A	Fortified Food Products
BTFTPE604B	Emerging Non-Thermal Method Of Food Preservation
BTFTPE604C	Beverage Technology
BTFTPE604D	Food Plant Layout and Design.

Open Elective-II

BTFTOE605A	Biomedical Instrumentation
BTFTOE605B	Renewable Energy Resources
BTFTOE605C	Marketing Research
BTFTOE605D	Computer Aided Design and Manufacturing

Course Structure for Semester VII (Staring from2021-2022) B.Tech.in Food Technology

Semester-VII										
Course			Teaching Scheme				valuation	Credi t		
Course Category	Course Code	Course Title	L	T	P	CA	MSE	ESE	Total	O 4
PCC15	BTFTC701	Food Quality, Safety Standards and Certification	3	-	-	20	20	60	100	3
PCC16	BTFTC702	Food Packaging Technology	3	1	-	20	20	60	100	4
HSSMC 3	BTHM703	Food Plant Organization Management and Marketing	3	-	-	20	20	60	100	3
PEC4	BTFTPE704 (A-D)	Elective-IV	3	-	-	20	20	60	100	3
OEC3	BTFTOE7 05(A- D)	Open Elective–III	3	-	-	20	20	60	100	3
OEC4	BTFTOE706 L (A-D)	Open Elective–III Lab–VI	-	-	6	60	-	40	100	3
HSSMC 4	BTHM 707	D. Essence of Indian Traditional Knowledge E. Foreign Language Studies F. Indian Constitution	2	-	-	-	-	-	-	Audit
PROJ-8	BTFTM708	Mini Project – III	-	-	2	60	-	40	100	2
PROJ-7EV	BTFT608	Internship–3 Evaluation	-	-	-	-	-	100	100	1
	Total					220	100	480	800	22

Elective-IV

BTFTPE704A	Biostatistics and Research Methodology
BTFTPE704B	Food Product Rheology and Texture
BTFTPE704C	Cane Sugar Technology
BTFTPE704D	Processing of Oils & Fats

Open Elective-III

BTMIOE705A	Recent Trends In Food Packaging
BTMIOE705B	Food Biotechnology and Bioinformatics
BTMIOE705C	Information & Cyber Security
BTMIOE705D	Entrepreneurship Development

Course Structure for Semester VIII (Staring from 2021-2022)

B.Tech.in Food Technology

Semester – VIII										
Course Category	Course	Course Title	Teaching Scheme			Evaluation Scheme				Credit
	Code		L	T	P	CA	MSE	ESE	Total	Cr
PROJ-9	BTFTP801 /BTFTP801	Project Work/ Internship	-	-	24	60	-	40	100	12
		Total	-	-	24	60	-	40	100	12

BSC = Basic Science Course, ESC = Engineering Science Course, PCC = Professional Core Course PEC=Professional Elective Course, OEC= Open Elective Course, LC= Laboratory Course, HSSMC=Humanities and Social Science including Management Courses

Total Credits: 160

Course Structure for Semester VIII (Startingfrom2021-2022)

B.Tech.in Food Technology

Course Code Type of Course Title		Course Title	Weekly Teaching Scheme				Evaluation Scheme ^{\$}			
		Course Title	L	Т	P	CA	MSE	ESE	Total	Credits
BTFTSS801A		Presently, no SWAYAM Courses offered for Food Technology. Have to identify from different online platforms.								
BTFTSS801B]							
BTFTSS801C	(Self-Study		03**			20	20	60	100	2
BTFTSS801D	Course)#		03			20	20	60	100	3
BTFTSS801E										
BTFTSS802A		Presently, no SWAYAM Courses offered for Food Technology. Have to identify from different online platforms								
BTFTSS802B]							
BTFTSS802C	(Self-Study		0.2**			20	20	60	100	
BTFTSS802D	Course)#		03**			20	20	60	100	3
BTFTSS802E										
BTFTP803	Project	Project Stage-II or Internship and Project in Industry*			30	60	1	40	100	6
	Total				30	100	40	160	300	12

[#] The subjects are to be studied on self-study mode using SWAYAM/NPTEL/any other online sourceapprovedbytheUniversity.

Student who optfor MajorinMining Engineering are not eligible to take same course fromselfstudy course list mentioned above. He/She has to take any other course from the self study courselistedabove.

**If required Coordinator may be appointed for each Self study course and an administrative load of03 hours per week may be considered for monitoring and assisting the students, and to conductexamination(if required), evaluation and preparationof result.

\$\frac{5}{If} \quad \text{the} \quad \text{examination} \quad \text{schedulefor} \quad \text{the} \quad \text{online} \quad \text{Self} \quad \text{study} \quad \text{coursechosenby} \quad \text{studentdo} \quad \text{not} \quad \text{match} \quad \text{withtheUniversity'sAcademicSchedule,theUniversity/Institutehavetoconductexamforsuchcourses.}

* Six months of Internship and Project in the Industry. For this one Faculty guide from the Instituteand one Mentor from Industry should be identified to monitor the progress of work. During the Project/Internshipperiod of work, are view of workshould be taken twice followed by a final presentation at the end of Project period.