

1.3.2: Average percentage of courses that include experimental learning through project work/ fields work/ internship during last five years.

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1. List of the courses that includes Experimental Learning (EL)

Number of courses that includes experimental learning through project work/ field work/ internship year wise during last five years in each programme is given in Table below.

Class	Semester	Subjects	Course Code	
F.E.	Sem II	Seminar	BTES210S	
	Sem II	Field Training /Internship/Industrial Training	BTES211P	
		Total	2	
S.E.	Sem III	Materials Science and Metallurgy	BTMEC302	
	Sem III	Fluid Mechanics	BTMEC303	
	Sem III	Machine Drawing and CAD	BTMEC304	
	Sem III	Thermodynamics	BTMEC305	
	Sem III	Field Training /Internship/Industrial Training I	BTMEF310	
	Sem IV	Manufacturing Processes - I	BTMEC401	
	Sem IV	Theory of Machines-I	BTMEC402	
	Sem IV	Strength of Materials	BTMEC403	
	Sem IV	Product Design Engineering – I	BTMEC405	
	T.E.	SemV	Heat Transfer	BTMEC501
		SemV	Applied Thermodynamics – I	BTMEC501
SemV		Machine Design – I	BTMEC502	
SemV		Theory of Machines II	BTMEC503	
SemV		Metrology and Quality Control	BTMEC504	
SemV		Product Design Engineering - II	BTID506	
SemV		Automobile Engineering	BTMEC506A	
SemV		Energy Conservation and Management	BTMEC506C	
SemV		Field Training /Internship/Industrial Training II	BTMEF511	
Sem VI		Manufacturing Processes- II	BTMEC601	
Sem VI	Machine Design-II	BTMEC602		



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	Sem VI	Applied Thermodynamics- II	BTMEC603
	Sem VI	IC Engines	B30912949
	Sem VI	Additive Manufacturing	B30912949
	Sem VI	Mechanical Measurements	BTMEC604D
	Sem VI	Solar Energy	BTMEC606B
	Sem VI	Technical Project for Community Services	BTMEM611
B.E.	Sem VII	Mechatronics	BTMEC701
	Sem VII	CAD/CAM	BTMEC702
	Sem VII	Manufacturing Processes - III	BTMEC703
	Sem VII	Fluid Machinery	BTMEC704A
	Sem VII	Industrial Engineering and Management	BTMEC704B
	Sem VII	Finite Element Method	BTMEC704C
	Sem VII	Surface Engineering	BTMEC704D
	Sem VII	Refrigeration and Air Conditioning	BTMEC704E
	Sem VII	Automobile Design (Product Design, PLM, CAE, Catia)	BTAM704C
	Sem VII	Wind Energy	BTMEC705C
	Sem VII	Seminar	BTMES709
	Sem VII	Field Training /Internship/Industrial Training III	BTMEF710
	Sem VII	Project Stage-I**	BTMEP711
	Sem VII	I. C. Engine	MED401
	Sem VII	Automatic Control System	MED402
	Sem VII	Metrology and Quality Control	MED403
	Sem VII	Turbo Machines	MED404
	Sem VII	Seminar	MED425
	Sem III	Project Stage-II or Internship and Project*	BTMEP803
	Sem III	Automobile Engineering	MED451
	Sem III	Project Management and Operation Research	MED452
	Sem III	Refrigeration and Air Conditioning	MED453
	Sem III	Lab-VI Automobile Engineering	MED471
M.Tech	Sem-I	Engineering Thermodynamics	MMECH11
	Sem-I	Machining and Forming Processes	MMECH12
	Sem-I	Mechanical Vibrations	MMECH13
	Sem-I	Advanced Machine Design	MDE14A
	Sem-I	Utilization of Solar Energy	MTE14B
	Sem-I	Advanced I.C. Engines	MTE14C
	Sem-I	Additive Manufacturing	MME14D
	Sem-I	Manufacturing Planning and Control	MMECH15A
	Sem-I	Hydraulic, Pneumatic and Fluidic Control	ME-XX15C
	Sem-I	Wind Energy	MTE15D
	Sem-I	Finite Element Method	MME15E
	Sem-II	Advanced Fluid Mechanics and	MMECH21



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		Heat Transfer	
	Sem-II	Mechanical Design Analysis	MMECH22
	Sem-II	CAD- CAE	ME-XX23B
	Sem-II	Computational Fluid Dynamics	MTE23B
	Sem-II	Advanced Refrigeration	MTE23C
	Sem-II	Design of Heat Exchangers	MTE23D
	Sem-II	Alternative Fuels for I.C. Engines	MTE23E
	Sem-II	Steam and Gas Turbines	MTE24A
	Sem-II	Surface Engineering	MME24B
	Sem-II	Cryogenic Engineering	MTE24B
	Sem-II	Seminar	MMECH26
	Sem-II	Mini Project	MMECH27
		Total	32
F.E.	Sem-I	Research Methodology	MAN404
	Sem-I	IT for Managers	MANB407
	Sem-I	Yoga	MANB408
	Sem-I	Community Service	MANB451
	Sem-I	Mini Project	MANB452
S.E.	Sem-II	Human Resource Management	MANB410
	Sem-II	Financial Management	MANB411
	Sem-II	Marketing Management	MANB412
	Sem-II	Production and Operation Management	MANB413
	Sem-II	Creativity and Innovation	MANB416
	Sem-III	In plant Training Report	MANB551
	Sem-III	Corporate Taxation	MANB503F
	Sem-III	Financial Services	MANB506F
	Sem-III	Consumer Behaviour	MANB501M
	Sem-III	Advertising Management	MANB502M
	Sem-III	Sales & CRM	MANB505M
	Sem-III	Digital Marketing	MANB506M
	Sem-III	Training and Development	MANB503H
	Sem-III	Performance & Compensation Management	MANB504H
	Sem-III	Purchasing and Materials Management	MANB502P
	Sem-III	Logistics Management	MANB505P
	Sem-III	System Analysis and Design	MANB502I
	Sem-III	Database Management System	MANB503I
	Sem-IV	Entrepreneurship Development	MANB509
	Sem-IV	Major Project	MANB552
		Total	25
S. E.	Sem-III	Field Training / Internship/Industrial Training	BTCOF311



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		Evaluations	
	Sem-IV	Field Training / Internship/Industrial Training (minimum 4 weeks which can be completed partially in first semester and second Semester or in at one time.)	BTCOF411
	Sem-V	Lab 4: Software Development Lab-I (ASP.NET using C#)	CSE326
T.E.	Sem-V	Seminar	BTCOS509
	Sem-V	Internship/Industrial Training	BTCOF411
	Sem-VI	Filed Training/Internship/ industrial Training	BTCOF609
B.E.	Sem-VII	Full Stack Development (LAMP / MEAN)	BTCOL705
	Sem-VII	Project phase - I	BTCOP709
	Sem-VII	Field Training / Internship / Industrial Training	BTCOF609
	Sem-VII	Seminar	CSE428
	Sem-VIII	Project phase - II (In-house) \$ / Internship and project in the Industry	BTCOE803
	Sem-VIII	Project Part-II	CSE478
M.Tech	Sem-I	Software Lab I	MTCE1107
	Sem-II	Software Lab II	MTCE1207
	Sem-II	Seminar I	MT CE1208
	Sem-III	Project- I	MTCE2103
	Sem-IV	Project-II	MTCE2201
		Total	14
T.E.	Sem -V	Mini project	BTETP510
T.E.	Sem -V	Field training/ Internship/Industrial training evaluation	BTEXF412
B.Tech	Sem- VII	Field training/ Internship/Industrial training evaluation	BTETF611
B.Tech	Sem- VIII	Project part – II or Internship	BTMEP803
M.Tech	Sem-I	PG Lab – I	MTETL107
M.Tech	Sem-II	Mini project	MTETP207
M.Tech	Sem-III	Project – I	MTETP302
M.Tech	Sem-IV	Project - II	MTETP401
		Total	12
Class	Semester	Subjects	Course Code
S. E	Sem III	Building Construction	BTCVC305
S. E	Sem III	Engineering Geology	BTCVC306
S. E	Sem III	Seminar on Topic of field visit to foundation work	BTCVS311
S. E	Sem III	Field training/ Internship/Industrial training evaluation	BTCVF312
S. E	Sem – IV	Product design engineering	BTID405
S. E	Sem – IV	Engineering management	BTCVC406



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S. E	Sem – IV	Mini project	BTCVM410
S. E	Sem – IV	Seminar on Topic of field visit to works involving superstructure construction	BTCVF411
S. E	Sem – IV	Planning for sustainable development	BTCVE404B
T. E	Sem – V	Design of Steel structures	BTCVC501
T. E	Sem – V	Environmental Engineering	BTCVC504
T. E	Sem -V	Transportation Engineering	BTCVC505
T. E	Sem -V	Seminar on Topic of field visit to works related to Building services	BTCVS511
T. E	Sem -V	Materials, Testing & Evaluation	BTCVE506A
T. E	Sem -V	Computer aided drawing	BTCVE506B
T. E	Sem -V	Development engineering	BTCVE506C
T. E	Sem -V	Business communication & presentation skills	BTCVE506D
T. E	Sem -I	Design of structures - I	CED302
T. E	Sem -I	Building planning & Design	CED303
T. E	Sem -I	Engineering Geology	CED304
T. E	Sem -I	Highway engineering	CED305
T. E	Sem -I	Lab III : Communication skills II	CED331
T. E	Sem -II	Design of structures – II	CED306
T. E	Sem -II	Geotechnical engineering	CED308
T. E	Sem -II	Water resources engineering – I	CED309
T. E	Sem -II	Lab IV : Structural design & drawing	CED332
T. E	Sem -II	Computer Lab -III	CED333
B.Tech	Sem-VII	Design of Concrete Structures - II	BTCVC701
B.Tech	Sem-VII	Limit State Design of Steel Structures	BTCVE705D
B.Tech	Sem-VII	Field Training /Internship/Industrial	BTCVT709
B.Tech	Sem-VII	Seminar	BTCVS710
B.Tech	Sem-VII	Project Stage-I	BTCVP711
B.Tech	Sem-III	Characterization of Construction Materials	BTCVSS801A
B.Tech	Sem- III	Geosynthetics and Reinforced Soil Structures	BTCVSS801B
B.Tech	Sem- III	Higher Surveying	BTCVSS801C
B.Tech	Sem- III	Maintenance and Repair of Concrete Structures	BTCVSS801D
B.Tech	Sem- III	Environmental Remediation of Contaminated Sites	BTCESS802B
B.Tech	Sem- III	In-house Project or Internship and Project in Industry*	BTCEP803
ME	Sem-I	Communication Skills	CVSE104
ME	Sem-I	PG Lab-I	CVSE-L01
ME	Sem-I	Design of Bridges	CVSE-E1-01
ME	Sem-I	Design of Masonry Structures	CVSE-E2-02
ME	Sem-I	Advanced Pre-stressed Concrete	CVSE-E2-01
ME	Sem-II	Seminar-I	CVSE-S01
ME	Sem-II	Design of Cold Formed Steel Structures	CVSE-E3-01
ME	Sem-II	Structural Health Monitoring	CVSE-E3-02
ME	Sem-II	Retrofitting of Structures	CVSE-E3-03

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ME	Sem-II	Design of Tall Buildings	CVSE-E4-01
ME	Sem-II	Earthquake Engineering & Design of Earthquake Resistant Structures	CVSE-E4-02
ME	Sem-II	Structural Audits	CVSE-E4-03
ME	Sem-III	Project Management and Intellectual Property Rights (Self Study)*	CVSE301
ME	Sem-III	Project Stage -I	CVSEPS1
ME	Sem-IV	Project Stage-II	CVSEPS2
		Total	34
SE	Sem-I	Measurement and Instrumentation	BTEEC304
SE	Sem-I	Electrical workshop/ Mini project	BTEEM309
SE	Sem-I	Field Training/ Internship/ Industrial Training Evaluation	BTEEF310
SE	Sem-II	Electrical Machine-I	BTEEC401
SE	Sem-II	Power System-I	BTEEC402
SE	Sem-II	Product Design Engineering	BTID405
SE	Sem-II	Analog and Digital electronics	BTEEE-406B
SE	Sem-II	Industrial safety	BTEEOE407-A
SE	Sem-II	Introduction to Non-Conventional energy sources	BTEEOE407-B
TE	Sem-I	Electrical Machine-II	BTEEC501
TE	Sem-I	Power System-II	BTEEC502
TE	Sem-I	Industrial training	BTEEF510
TE	Sem-I	Testing and Maintenance of Electrical equipmen	BTEEE505
TE	Sem-I	Power Plant Engineering	BTEEOE506
TE	Sem-II	Principles of Electrical Machine Design	BTEEC602
TE	Sem-II	Industrial automation and Contro	BTEEE604
TE	Sem-II	Switch Gear and Protection	BTEEC605
TE	Sem-II	Project Management	BTEEOE606
BE	Sem-VII	Power System Operation & Control	BTEEC701
BE	Sem-VII	High Voltage Engineering	BTEEC702
BE	Sem-VII	Electrical Drives	BTEEC703
BE	Sem-VII	Project Part-I	BTEEP710
BE	Sem-VII	Special Purpose Electrical Machines	BTEEE704
BE	Sem-VII	Electrical Traction and Utilization	BTEEE704
BE	Sem-VII	Energy Audit and Conservation	BTEEE705
BE	Sem-VII	Electrical Power Quality	BTEEE705
BE	Sem-VII	HVDC Transmission and FACTS	BTEEE705
BE	Sem-VIII	Project - II	BTEEP803
		Total	22

Table. Courses that include experimental learning through project work/ fields work/ internship of the year 2020-2021



2. Courses that include experiential learning of the year 2020-2021

Average percentage of courses that include experiential learning through project work/field work/ internship is given in table below.

Details of Subject having Experiential learning (20-21)

Courses that include experimental learning of the year 2020-2021	20-21
First Year Engineering	2
Mechanical Engineering	32
Computer Science & Engineering	14
Electronics and Telecommunication Engineering	12
Civil Engineering	34
Electrical engineering department	22
MBA	25
Total Courses that include EL	141
Total No of courses	223
Average % of courses that includes experimental learning	63.22

Table. Courses that include experimental learning of the year 2020-2021