



Visvesvaraya Technological University, Belagavi
Tentative Scheme of Teaching and Evaluation
PG Programmes
(w. e. f. Academic year 2018-19)
(Common to Design Engineering/Machine Design/ Engineering
Analysis and Design)

28-07-2018

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination – 2018 - 19
M.Tech (MMD, MDE & MEA)
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)

I SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Field work /Assignment	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18MDE11	Mathematical Methods in Engineering	04	--	03	40	60	100	4
2	PCC	18MDE12	Advanced Theory of Vibrations	04	--	03	40	60	100	4
3	PCC	18MDE13	Continuum Mechanics	04	--	03	40	60	100	4
4	PCC	18MDE14	Dynamics and Mechanism Design	04	--	03	40	60	100	4
5	PEC	18MDE15	Fracture Mechanics	04	--	03	40	60	100	4
6	PCC	18MDEL16	Design Laboratory 1	-	04	03	40	60	100	2
7	PCC	18RMI17	Research Methodology and IPR	02	--	03	40	60	100	2
TOTAL				22	04	21	280	420	700	24

Note: PCC: Professional core, PEC: Professional Elective.

Internship: All the students have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or II and III semesters. A University examination shall be conducted during III semester and the prescribed credit shall be counted for the same semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as failed and have to complete during the subsequent University examination after satisfying the internship requirements.

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II SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/Field work/Assignment	Duration inhours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18MEA21	Finite Element Methods	04	--	03	40	60	100	4
2	PCC	18MDE22	Advanced Machine design	04	--	03	40	60	100	4
3	PCC	18MDE23	Tribology and Bearing Design	04	--	03	40	60	100	4
4	PEC	18XXX24X	Professional elective 1	04	--	03	40	60	100	4
5	PEC	18XXX25X	Professional elective 2	04	--	03	40	60	100	4
6	PCC	18MDEL26	Design Laboratory 2	--	04	03	40	60	100	2
7	PCC	18MDE27	Technical Seminar	--	02	--	100	--	100	2
TOTAL				20	06	18	340	360	700	24

Note: PCC: Professional core, PEC: Professional Elective.

Professional Elective 1		Professional Elective 2	
Course Code under 18XXX24X	Course title	Course Code under 18XXX25X	Course title
18MDE241	Material Handling Equipment Design	18CAE251	Design Optimization
18MEA242	Computer Applications in Design	18MEA252	Automobile System Design
18MDE243	Rotor Dynamics	18MEA253	Computational Fluid Dynamics

Note:

1. Technical Seminar: CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide, if any, and a senior faculty of the department. Participation in the seminar by all postgraduate students of the same and other semesters of the programme shall be mandatory.

The CIE marks awarded for Technical Seminar, shall be based on the evaluation of Seminar Report, Presentation skill and Question and Answer session in the ratio 50:25:25.

2. Internship: All the students shall have to undergo mandatory internship of 6 weeks during the vacation of I and II semesters and /or II and III semesters. A University examination shall be conducted during III semester and the prescribed credit shall be counted in the same semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared as failed and have to complete during the subsequent University examination after satisfying the internship requirements.

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III SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical	SEE	Mid	SEM	Total	
1	PCC	18MDE31	Design for manufacture and assembly	04	--	03	40	60	100	4
2	PEC	18XXX32X	Professional elective 3	04	--	03	40	60	100	4
3	PEC	18XXX33X	Professional elective 4	04	--	03	40	60	100	4
4	Project	18MDE34	Evaluation of Project phase -1	--	02	--	100	--	100	2
5	Intenship	18MDEI35	Internship	(Completed during the intervening vacation of I and II semesters and /or II and III semesters.)		03	40	60	100	6
TOTAL				12	02	12	260	240	500	20

Note: PCC: Professional core, PEC: Professional Elective.

Professional elective 3		Professional elective 4	
Course Code under 18XXX32X	Course title	Course Code under 18XXX32X	Course title
18CAE321	Experimental Mechanics	18CAE331	Smart materials and Structures
18MDE322	Mechatronics System Design	18MDE332	Composite Materials Technology
18MEA323	Robust Design	18MDE333	Acoustics and Noise Control Engineering

Note:

1. Project Phase-1: Students in consultation with the guide/co-guide if any, shall pursue literature survey and complete the preliminary requirements of selected Project work. Each student shall prepare relevant introductory project document, and present a seminar.

CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide if any, and a senior faculty of the department. The CIE marks awarded for project work phase -1, shall be based on the evaluation of Project Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25.

SEE (University examination) shall be as per the University norms.

2. Internship: Those, who have not pursued /completed the internship shall be declared as failed and have to complete during subsequent university examinations after satisfying the internship requirements.

Internship SEE (University examination) shall be as per the university norms.

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IV SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/Review/Assignment	Duration in hours	CIE Marks	SEE Marks/Viva voce	Total Marks	
1	Project	18MDE41	Project work phase -2	--	04	03	40	60	100	20
TOTAL				--	04	03	40	60	100	20

Note:

1. Project Phase-2:

CIE marks shall be awarded by a committee comprising of HoD as Chairman, guide/co-guide, if any, and a senior faculty of the department. The CIE marks awarded for project work phase-2 shall be based on the evaluation of Project Report subjected to plagiarism check, Project Presentation skill and Question and Answer session in the ratio 50:25:25.

SEE shall be at the end of IV semester. Project work evaluation and Viva-Voce examination (SEE), after satisfying the plagiarism check, shall be as per the university norms.

