

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI.



Scheme of Teaching and Examinations and Syllabus
M.Tech., Production Technology(MPY)
(Effective from the Academic year 2022-23)

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI											
Scheme of Teaching and Examinations – 2022											
M.Tech.PRODUCTION TECHNOLOGY (MPY)											
Choice Based Credit System (CBCS) and Outcome Based Education(OBE)											
II SEMESTER											
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week			Examination				Credits
				Theory	Practical/ Seminar	Tutorial/ Skill Development Activities	Duration in hours	CIE Marks	SEE Marks	Total Marks	
				L	P	T/SDA					
1	PCC	22MPY21	Measurement & Instrumentation Engineering	02	00	02	03	50	50	100	3
2	IPCC	22MPY/MPD /MAU/MPT/	Industrial Design and Ergonomics	03	02	00	03	50	50	100	4
3	PEC	22MPY23x	Professional elective 1	02	00	02	03	50	50	100	3
4	PEC	22MPY24x	Professional elective 2	02	00	02	03	50	50	100	3
5	MPS	22MPY25	Mini Project with Seminar	00	04	02	--	100	--	100	3
6	PCCL	22MPYL26	QT and QC Laboratory	01	02	00	03	50	50	100	02
7	AUD/ AEC	22AUD27	Suggested ONLINE courses	Classes and evaluation procedures are as per the policy of the online course providers.							PP
TOTAL				10	08	08	15	350	250	600	18
Note: PCC: Professional core courses,PEC: Professional Elective Courses, IPCC-Integrated Professional Core Courses. MPS-Mini Project With Seminar; AUD/AEC; Audit Courses / Ability Enhancement Courses (Mandatory), PCCL-Professional Core Course lab, L-Lecture, P-Practical, T/SDA-Tutorial / Skill Development Activities(Hours are for Interaction between faculty and students)											
Professional Elective 1			Professional Elective 2								
Course Code under 22MPT23X	Course title	Course Code under 22MPT24X	Course title								
22MPY231	Operations Research	22MPY/MPT/MTE/MSE/MIA/	Agile Manufacturing								
22MPY/MPT232	Advanced Fluid Power	22MPY242	Robust Design								
22MPY233	Surface Treatment & Finishing	22MPY243	Maintenance Engineering & Management								
22MPY/MPT/MPM 234	Human Resources Management	22MPY244	Simulation Modelling of Manufacturing Science								
22MPY235	Quality & Reliability Engineering	22MPD/MAU/MDE/MEA/M MD/MTP/MPY/MIA/MAR/CA F/MPF/MPM/MCM245	Industry 4.O								
Note:											
1 Mini Project with Seminar: This may be hands-on practice, survey report, data collection and analysis, coding, mobile app development, field visit and report preparation, modelling of system, simulation, analysing and authenticating, case studies, etc. 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. Students can present the seminar based on the completed mini-project. Participation in the seminar by all postgraduate students of the program shall be mandatory. The CIE marks awarded for Mini-Project work and Seminar shall be based on the evaluation of Mini Project work and Report, Presentation skill and performance in Question and Answer session in the ratio 50:25:25. Mini-Project with Seminar shall be considered as a head of passing and shall be considered for vertical progression as well as for the award of degree. Those, who do not take-up/complete the Mini Project and Seminar shall be declared as fail in that course and have to complete the same during the subsequent semester. There is no SEE for this course.											
2. Internship: All the students shall have to undergo a mandatory internship of 06 weeks during the vacation of II and III semesters. A University examination shall be conducted during III semester and the prescribed internship credit shall be counted in the same semester. The internship shall be considered as a head of passing and shall be considered for vertical progression as well as for the award of degree. Those, who do not take-up/complete the internship shall be declared as fail in the internship course and have to complete the same during the subsequent University examination after satisfying the internship requirements.											

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M.Tech., title of the Programme (XXX) (Font 09 Capital, Calibri)
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III SEMESTER											
Sl. No	Course	Course Code	Course Title	Teaching Hours /Week			Examination				Credits
				Theory	Practical/ Mini-Project/ Internship	Tutorial/ Skill Development Activities	Duration in hours	CIE Marks	SEE Marks	Total Marks	
				L	P	SDA					
1	PCC	22MPY31	Tool Design	03	00	02	03	50	50	100	4
2	PEC	22MPY32X	Professional Elective 3	03	00	00	03	50	50	100	3
3	OEC	22MPY33X	Professional Elective 4	03	00	00	03	50	50	100	3
4	PROJ	22MPY34	Project Work phase -1	00	06	00	--	100	--	100	3
5	SP	22MPY35	Societal Project	00	06	00	--	100	--	100	3
6	INT	22MPY136	Internship	(06 weeks Internship Completed during the intervening vacation of II and III semesters.)			03	50	50	100	6
TOTAL				09	12	03	12	400	200	600	22

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Professional elective 3		Professional Elective 4	
Course Code under 22MPY32X	Course title	Course Code under 22MPY33X	Course title
22MPY321	Applied Probability & Statistics	22MPY/MPT/MTE /MST/MSE/MAU/ MPE/MPD/331	Non Destructive Testing
22MPY/MPM/MTE/ MSE/MMD/MEA/M DE/MPE/MAU/MPD 322	Rapid Prototyping	22MPY332	Product Data Management
22MPY/MSE/ME M/MPE/MAU323	Composite Materials	22MPY/MPT333	Project Management
22MPY324	Organizational Behaviour	22MPY334	Industrial Safety Engineering
22MPY325	Industrial Robotics	22MPY335	Advance joining process

Note:

1. Project Work Phase-1:The project work shall be carried out individually. However, in case a disciplinary or interdisciplinary project requires more participants, then a group consisting of not more than three shall be permitted.

Students in consultation with the guide/co-guide (if any) in disciplinary project or guides/co-guides (if any) of all departments in case of multidisciplinary projects, shall pursue a literature survey and complete the preliminary requirements of the selected Project work. Each student shall prepare a relevant introductory project document, and present a seminar.

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

2. Societal Project: Students in consultation with the internal guide as well as with external guide (much preferable) shall involve in applying technology to workout/proposing viable solutions for societal problems.

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, shall be based on the evaluation of Project Report, Project Presentation skill, and performance in the Question and Answer session in the ratio of 50:25:25.

Those, who have not pursued /completed the Societal Project, shall be declared as fail in the course and have to complete the same during subsequent semester/s after satisfying the Societal Project requirements. There is no SEE (University examination) for this

course.

3. Internship: Those, who have not pursued /completed the internship, shall be declared as fail in the internship course and have to complete the same during subsequent University examinations after satisfying the internship requirements. Internship SEE (University examination) shall be as per the University norms.

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 performance in the Question and Answer session in the ratio of 50:25:25.

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IV SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Field work	Duration in hours	CIE Marks	SEE Marks Viva voce	Total Marks	
				L	P					
1	Project	22MPY41	Project work phase -2	--	08	03	100	100	200	18
TOTAL				--	08	03	100	100	200	18

Note:

1. Project Work Phase-2:

Students in consultation with the guide/co-guide (if any) in disciplinary project or guides/co-guides (if any) of all departments in case of multidisciplinary projects, shall continue to work of Project Work phase -1to complete the Project work. Each student / batch of students shall prepare project document, and present a seminar.

CIE marks shall be awarded by a committee comprising of HOD as Chairman, all Guide/s and co-guide/s (if any) and a senior faculty of the concerned departments. The CIE marks awarded for project work phase -2, shall be based on the evaluation of Project Report, Project Presentation skill, and performance in the Question and Answer session in the ratio of 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.

Total Credits 22+18+22+18 =**80**

