JSS MAHAVIDYAPEETHA
JSS SCIENCE AND TECHNOLOGY UNIVERSITY
SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING, MYSURU

Scheme of Teaching and Examination 2026-27

Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

SEMESTER I

SN	Code	Course Title	Course	Teaching hours per week				Credits	Examination			
				L	T	P	Total Contact Hours		CIE Marks	SEE Marks	Total	Duration in Hours
1	26MTEV110	Water treatment and Distribution Systems	PCC 1	4	-	2	6	5	40	60	100	3
2	26MTEV120	Design of Wastewater treatment systems	PCC 2	4	-	2	6	5	40	60	100	3
3	26MTEV130	Applied Environmental Chemistry and Microbiology	PCC 3	3	2	-	5	4	40	60	100	3
4	26MTEV140	Solid Waste Engineering and Management	PCC 4	3	2	-	5	4	40	60	100	3
5	26MTEV15*	Professional Elective 1	PEC 1	3	2	-	5	4	40	60	100	3
6	26MTEV16*	Professional Elective 2	PEC 2	3	2	-	5	4	40	60	100	3
							TOTAL	26	240	360	600	

L: Lecture/Theory; T: Tutorial; P: Practical/ Practice; PCC: Professional Core Course; PEC: Professional Elective Course; MC: Mandatory Course

Note:
(1) Tutorials reinforce concepts through guided practice, discussions, and problem-solving. Both tutorial and practical components are designed and implemented as skill-oriented learning components.
(2) Mini-Project specified for the second semester may be initiated during the first semester.

*Professional Elective 1	
Course Code	**Course Title**
26MTEV151	Industrial Pollution Control
26MTEV152	Ecology and Environmental Statistics
26MTEV153	Vulnerability Assessment and Disaster Management

*Professional Elective 2	
Course Code	**Course Title**
26MTEV161	Climate Change and Impacts
26MTEV162	Hazardous Waste Management
26MTEV163	Waste to Resources

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SEMESTER II

SN	Code	Course Title	Course	Teaching hours per week				Credits	Examination			
				L	T	P	Total Contact Hours		CIE Marks	SEE Marks	Total	Duration in Hours
1	26MTEV210	Air Pollution and Control Techniques	PCC 5	4	-	2	5	5	40	60	100	3
2	26MTEV220	Environmental Legislation and Impact Assessment	PCC 6	3	2	-	5	4	40	60	100	3
3	26MTEV230	Transport Processes and Modelling	PCC 7	3	2	-	5	4	40	60	100	3
4	26MTEV24*	Professional Elective 3	PEC 3	3	2	-	5	4	40	60	100	3
5	26MTEV25*	Professional Elective 4	PEC 4	3	2	-	5	4	40	60	100	3
6	26MTHU260	Research Methodology and IPR	MC	1	2	-	3	2	20	30	50	2
7	26MTEV27P	Mini Project	MC	-	-	4	4	2	40	-	40	-
8	26MTEV28E	Ability/Skill Enhancement Course	MC	-	-	2	2	1	40	-	40	-
9	26MTHU29A	Human Values and Social Responsibility	NCMC	2	-	-	2	-	40	-	-	PP
							TOTAL	26	340	330	630	

L: Lecture/Theory; T: Tutorial; P: Practical; PCC: Professional Core Course; PEC: Professional Elective Course; MC: Mandatory Course; NCMC Non-Credit Mandatory Course

Note:

(1) Tutorials reinforce concepts through guided practice, discussions, and problem-solving. Both tutorial and practical components are designed and implemented as skill-oriented learning components.

*Professional Elective 3			*Professional Elective 4	
Course Code	**Course Title**		**Course Code**	**Course Title**
26MTEV241	Environment Social Governance		26MTEV251	Environmental Economics and Forensics
26MTEV242	Remote Sensing and GIS		26MTEV252	Environmental Hygiene and Sanitation
26MTEV243	Environment, Health and Safety		26MTEV253	Life Cycle Analysis

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SEMESTER III

SN	Code	Course Title	Course	Teaching hours per week				Credits	Examination			
				L	T	P	Total Contact Hours		CIE Marks	SEE Marks	Total	Duration in Hours
1	26MTEV31I	Internship/ Industrial Training	INT	08 weeks				4	100	-	100	-
2	26MTEV32P	Project Work (Phase-1)	PROJ	-	-	30	-	6	100	-	100	-
							TOTAL	10	200		200	
L: Lecture/ Theory; T: Tutorial; P: Integrated Practical/ Practice; INT: Internship/ Industrial Training; PROJ: Project Work												

SEMESTER IV

SN	Code	Course Title	Course	Teaching hours per week				Credits	Examination			
				L	T	P	Total Contact Hours		CIE Marks	SEE Marks	Total	Duration in Hours
1	26MTEV41M	Open Elective SWAYAM/NPTEL/ MOOCs[#]		12 weeks				3	-	-	100	-
2	26MTEV42P	Project Work (Phase-2)	PROJ	-	-	30	30	15	100	200	300	3
							TOTAL	18	100	200	400	
Note: L: Lecture/ Theory; T: Tutorial; P: Integrated Practical/ Practice; PROJ: Project Work												

[#]SWAYAM/NPTEL/ MOOCs (Online Course) can be taken during 1st, 2nd, or 3rd semesters. To qualify as a 3-credit equivalent, SWAYAM/NPTEL/ MOOCs course must total a minimum of 12 weeks in duration, which may be fulfilled through a single 12-week course or an equivalent combination of courses (e.g., one 8-week course and one 4-week course, three 4-week courses, or any other combination aggregating to at least 12 weeks). In case a student fails to complete SWAYAM/NPTEL/ MOOCs course by the end of 3rd semester, he/she shall choose a course from the pool of open elective courses offered by the University.

Open Elective	
Course Code	**Course Title**
26MTEV411	Disaster Management
26MTEV412	Waste management
26MTEV413	Environmental Impact of Developmental Projects

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Ability Enhancement Course: 30 hours/credit

Ability Enhancement Courses are designed to strengthen students' core competencies in communication, language proficiency, and personality development. These courses aim to build confidence, refine interpersonal skills, and promote professional effectiveness, enabling students to present themselves more effectively in academic, social, and workplace environments.

Skill Enhancement Course (SEC): 30 hours/credit

A Skill Enhancement Course is designed to impart practical, skill-based knowledge through a balanced integration of theory and hands-on components, including laboratory work, training, and fieldwork. The primary objective of these courses is to equip students with industry-relevant, application-oriented skills, thereby enhancing their competence, confidence, and overall employability.

Human Values and Social Responsibility: 30 hours

Activities on the concept of human values encourage students to develop deeper insights into social sciences and ethics, appreciate cultural diversity and human behaviour, and build awareness of human rights and legal frameworks, thereby nurturing responsible, empathetic, and ethically grounded professionals.