

**CIRCULAR***Sub: I Semester -Allotment of Practicum topics– Reg.*

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**INSTRUCTIONS****Students:**

1. The students should meet immediately the allotted course faculty for practicum and start working on the practicum with the guidance of course faculty.
2. To complete the Practicum, the student shall work in laboratories under supervision of allotted course faculty, in the allotted hours in the classwork timetable and also outside the class work hours during weekdays.

**Practicum/Course Faculty:**

1. The course faculty are advised to guide the allotted students for practicum during the semester course work.
2. In case of any clash in respect of practicum slot and practicum-faculty classwork, the practicum faculty should allot 4.00 p.m. to 6.00 p.m. slot to their practicum students on any full day. The same shall be informed to the class teacher, for record

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Following are the practicum topics allotted to the I semester students of ME section.

***Section: 1ME***

S. No	Roll Number of the Student	Practicum Topic Allotted	Practicum under the Course	Course Faculty
1	B24ME001	Geometric series with applications to Real world problems	DCODE	DR.K. SHIVA SHANKER
2	B24ME002	Convergence of an Infinite series and its Applications to Mechanical Engineering	DCODE	DR.K. SHIVA SHANKER

3	B24ME003	Rolle's theorem and Application to Stock Market Analysis	DCODE	DR.K. SHIVA SHANKER
4	B24ME004	Lagrange's mean value theorem and Application to Coding Theory	DCODE	DR. K. SHIVA SHANKER
5	B24ME005	Mean value Theorems and Applications to Mechanical Engineering	DCODE	DR. K. SHIVA SHANKER
6	B24ME006	Taylor Series and its Applications to Mechanical Engineering	DCODE	DR. K. SHIVA SHANKER
7	B24ME007	Partial Differentiation and its Applications to Mechanical Engineering	DCODE	DR. K. SHIVA SHANKER
8	B24ME008	Lagrange's method of undetermined multipliers and its Applications to Mechanical Engineering	DCODE	DR.K. SHIVA SHANKER
9	B24ME009	Linear Differential Equations and Applications to Mechanical Engineering	DCODE	DR.K. SHIVA SHANKER
10	B24ME010	Mathematical Modelling with Linear Differential Equations	DCODE	DR. K. SHIVA SHANKER
11	B24ME011	Detection of corrosion in chemical/electrochemical conditions	EC	DR. D. PRAVEENA
12	B24ME012	Exploration Sedimentation process for Wastewater Treatment with Alum	EC	DR. D. PRAVEENA
13	B24ME013	Assessment of Biodegradable Polymers for Sustainable Engineering Solutions	EC	DR. D. PRAVEENA
14	B24ME014	Investigation of Water Quality Parameters – pH, Turbidity & DO	EC	DR.D. PRAVEENA
15	B24ME015	Characterization and Application of Advanced Composite Materials in Engineering	EC	DR.D. PRAVEENA

16	B24ME016	Exploration of Electrochemical Energy Storage Systems [secondary batteries] for Engineering Applications	EC	DR.D. PRAVEENA
17	B24ME017	Examination of Conductance with Dilution/Concentration for different sample solutions	EC	DR.D. PRAVEENA
18	B24ME018	Exploration of Corrosion Prevention and Control in Engineering Materials	EC	DR.D. PRAVEENA
19	B24ME019	Applications of Conductive Polymers in Biomedical Devices	EC	DR.D. PRAVEENA

20	B24ME020	Establishment of an Electrochemical cell with Electrochemical sensors for Redox Reactions	EC	DR.D. PRAVEENA
21	B24ME021	Effect of temperature on expansion and contraction of gasses	TD	Dr. K. SRIDHAR
22	B24ME022	A comparative analysis of electrical and thermal insulators	TD	Dr. K. SRIDHAR
23	B24ME023	Effect of water temperature on its freezing rate	TD	Dr. K. SRIDHAR
24	B24ME024	Effect of different insulation materials on the melting rate of ice	TD	Dr. K. SRIDHAR
25	B24ME025	A study on various geometrical configurations of ice cube on the melting rate	TD	Dr. K. SRIDHAR
26	B24ME026	Effect of temperature on the Boiling time of different liquids	TD	Dr. K. SRIDHAR
27	B24ME027	Effect of colours on absorption of heat	TD	Dr. K. SRIDHAR
28	B24ME028	Methods to cool a soda	TD	Dr. K. SRIDHAR
29	B24ME029	Factors affecting the cooling rate of liquids	TD	Dr. K. SRIDHAR
30	B24ME030	Heat Transfer capability of various materials	TD	Dr. K. SRIDHAR
31	B24ME031	Bank Management System – Manage customer accounts, transactions, and generate reports.	PPSC	SRI S. RAMESH
32	B24ME032	Library Management System –Track books, authors, and borrower information, including issuing and returning books.	PPSC	SRI S. RAMESH
33	B24ME033	Student Record System –Store and manage student details, including marks, courses, and grades.	PPSC	SRI S. RAMESH
34	B24ME034	Hospital Management System –Manage patient information, appointments, and medical records.	PPSC	SRI S. RAMESH
35	B24ME035	ATM Simulation –Simulate ATM transactions like deposits, withdrawals, and balance inquiries.	PPSC	SRI S. RAMESH
36	B24ME036	Food Ordering System –Implement an ordering system for restaurants, handling orders, menus, and billing.	PPSC	SRI S. RAMESH

37	B24ME037	Quiz Application –Create a simple quiz with multiple-choice questions and score tracking.	PPSC	SRI S. RAMESH
38	B24ME038	Payroll System –Calculate employee salaries based on working hours, tax deductions, and bonuses.	PPSC	SRI S. RAMESH
39	B24ME039	Inventory Management System –Handle stock levels, product details, and generate sales reports.	PPSC	SRI S. RAMESH

40	B24ME040	Voting System -Develop a console-based voting application that allows users to cast votes for candidates and generate results.	PPSC	SRI S. RAMESH
41	B24ME041	Narration Technique of Rabindranath Tagore-a special focus on 'Kabuli Wala' and 'The Post Master'	ECRW	SMT.T. VEENA RAJ
42	B24ME042	Exploring the Historical and Cultural Significance of the Thousand Pillar Temple	ECRW	SMT.T. VEENA RAJ
43	B24ME043	Speech Patterns of Charismatic Speakers with a special focus on Martin Luther king and Nelson Mandela	ECRW	SMT.T. VEENA RAJ
44	B24ME044	Professional Challenges and Successes: Insights from Interviews with an/a Engineer / Teacher/ Doctor/Lawyer/collector	ECRW	SMT.T. VEENA RAJ
45	B24ME045	Analysis of the themes, styles and literary devices found in the poetry of William Wordsworth- a special focus on 'Simon Lee' and 'Daffodils'	ECRW	SMT.T. VEENA RAJ
46	B24ME046	Effectiveness of Language Learning Apps	ECRW	SMT.T. VEENA RAJ
47	B24ME047	Prepositions in English Language  [Student is expected to create sentences with different prepositions in various tenses and convert them into questions ('Wh', confirmation questions and common errors in the use of prepositions)]	ECRW	SMT.T. VEENA RAJ
48	B24ME048	Phrasal verb constructions: analysis of verb-particle combinations	ECRW	SMT.T. VEENA RAJ
49	B24ME049	Passion Over Pressure: The Legacy of "Three Idiots movie" in Education	ECRW	SMT.T. VEENA RAJ

Signature of the Course Faculty

