

Following are the Practicum Topics allotted to the I Semester Students of 1IT2 section
Section: 1IT2

S. No	Roll Number of the Student	Practicum Topic Allotted	Practicum under the Course	Course Faculty
1	B24IT065	Taylor's series expansion in simple pendulum	DCODE	Dr. V. Anand
2	B24IT066	Fitting a straight line of best fit for the data: The weights of a calf taken at weekly intervals.	DCODE	Dr. V. Anand
3	B24IT067	Fitting a Second-degree polynomial curve for the data: The weights of a calf taken at weekly intervals.	DCODE	Dr. V. Anand
4	B24IT068	Logistic growth model with application to understand the species growth.	DCODE	Dr. V. Anand
5	B24IT069	Application of Fibonacci sequence: Occurrence of spirals in nature.	DCODE	Dr. V. Anand
6	B24IT070	Geometric series application to a bouncing ball problem.	DCODE	Dr. V. Anand
7	B24IT071	Natural law of growth model with application to real world problem: Study the population growth	DCODE	Dr. V. Anand
8	B24IT072	Formation of simultaneous differential equations for a given data.	DCODE	Dr. V. Anand
9	B24IT073	Numerical Approximation of Solutions: Modified Euler's method	DCODE	Dr. V. Anand
10	B24IT074	Application of Linear differential equation: A mixing problem in chemical industry	DCODE	Dr. V. Anand
11	B24IT075	Interpretation for statistical data through Rolle's theorem	DCODE	Dr. V. Anand
12	B24IT076	LCR Circuit: Application to Differential Equations.	DCODE	Dr. V. Anand
13	B24IT077	Rank Correlation Coefficient: Estimating the correlation between two groups.	DCODE	Dr. V. Anand
14	B24IT078	Analysis of pH Levels in Common Household Solutions and Their Practical Applications	EC	Dr. V. Sunil Kumar
15	B24IT079	Investigating the Corrosion Rate of iron metals in Different Environments	EC	Dr. V. Sunil Kumar
16	B24IT080	Analyzing of Portable Turbidity Meters: Dissection and Operational Analysis of Market	EC	Dr. V. Sunil Kumar
17	B24IT081	Exploring Glucometer Technology: A Study of Its	EC	Dr. V. Sunil Kumar

		Mechanisms and Performance		
18	B24IT082	Investigating the RO Water Purification System in Use at Our College: Principles and Operational Insights	EC	Dr. V. Sunil Kumar
19	B24IT083	Exploring the Functionality of Pulse Oximeters for Design and Manufacturing	EC	Dr. V. Sunil Kumar
20	B24IT084	Analyzing Acid Mixture Concentrations by Potentiometric Techniques and Their Practical Uses	EC	Dr. V. Sunil Kumar
21	B24IT085	Analyzing Water Quality Parameters in Groundwater and Drinking Water Based on WHO Guidelines	EC	Dr. V. Sunil Kumar
22	B24IT086	Examining Dye Detection Through Colorimetric Analysis and their applications	EC	Dr. V. Sunil Kumar
23	B24IT087	Analyzing Acid Mixture Concentrations by Conductometric Techniques and Their Practical Uses	EC	Dr. V. Sunil Kumar
24	B24IT088	Synthesis of metal nanoparticles (Ag/Au/Pd) and its applications in various	EC	Dr. V. Sunil Kumar
25	B24IT089	Investigating the Properties of biodegradable Plastics and their applications	EC	Dr. V. Sunil Kumar
26	B24IT090	Analysis and Testing of Micronutrients Present in Soil and their applications	EC	Dr. V. Sunil Kumar
27	B24IT091	4-bit Binary Adder-Subtractor	DLD	Dr. B. Kiran Kumar
28	B24IT092	4-bit Binary Carry Look-Ahead Adder	DLD	Dr. B. Kiran Kumar
29	B24IT093	7-Segment Display Decoder	DLD	Dr. B. Kiran Kumar
30	B24IT094	4:1 Multiplexer implementation using Boolean function	DLD	Dr. B. Kiran Kumar
31	B24IT095	Traffic Light Controller using Counters and Flip-Flops	DLD	Dr. B. Kiran Kumar
32	B24IT096	8-bit Gray Code to Binary Code Converter using Flip-Flops	DLD	Dr. B. Kiran Kumar
33	B24IT097	4-bit Binary Multiplier using Adders and Shift Registers	DLD	Dr. B. Kiran Kumar
34	B24IT098	8-bit ALU (Arithmetic Logic Unit) with Addition, Subtraction, AND, OR	DLD	Dr. B. Kiran Kumar
35	B24IT099	SR Flip-Flop implementation	DLD	Dr. B. Kiran Kumar
36	B24IT100	4-bit Synchronous Binary Counter	DLD	Dr. B. Kiran Kumar

37	B24IT101	4-bit Asynchronous Binary Counter	DLD	Dr. B. Kiran Kumar
38	B24IT102	Realization of Full Adder using 8:1 Multiplexer	DLD	Dr. B. Kiran Kumar
39	B24IT103	4-bit Comparator using Multiplexer and Logic Gates	DLD	Dr. B. Kiran Kumar
40	B24IT104	Customer loan management system in Bank Details of loan, previous repayment and transactions, accept or reject loan application	PPSC	Dr. P. Kamakshi
41	B24IT105	Food assistance system for senior citizens Maintaining the details of senior citizens , their food details as per the health chart, additional requirement and billing	PPSC	Dr. P. Kamakshi
42	B24IT106	Student academic report system – To store student details, marks, courses, grades, backlogs	PPSC	Dr. P. Kamakshi
43	B24IT107	Hospital Management System Manage patient information, appointments, and medical records	PPSC	Dr. P. Kamakshi
44	B24IT108	Hotel booking software Select hotel, book rooms , cost as per facilities demanded, billing	PPSC	Dr. P. Kamakshi
45	B24IT109	Bike servicing system Managing details of two wheeler problems, owner details, no of vehicles, maintenance charge, price of the product required for repair, and billing	PPSC	Dr. P. Kamakshi
46	B24IT110	Healthcare service provider system Maintain details regular health check-ups, details of customer , health check-up reports, dispatch of reports and notification to customer and billing	PPSC	Dr. P. Kamakshi
47	B24IT111	Housekeeper provider system Maintain details of housekeepers, record of housekeepers, service provided such as cooking, washing, dusting, and dog walking etc., charges for the services and billing	PPSC	Dr. P. Kamakshi
48	B24IT112	Vehicle booking system Maintain the details of vehicle available, customer details and requirement, billing	PPSC	Dr. P. Kamakshi
49	B24IT113	Food Ordering System Implement an ordering system for restaurants, handling orders, menus, and billing	PPSC	Dr. P. Kamakshi
50	B24IT114	Quiz Application Create a simple quiz with multiple-choice questions and score tracking	PPSC	Dr. P. Kamakshi

51	B24IT115	Complete information of textbooks in Library Management System – Track books, authors, and borrower information, including issuing and returning books	PPSC	Dr. P. Kamakshi
52	B24IT116	Bus ticket booking system Select bus, book tickets , cost as per facilities demanded, billing	PPSC	Dr. P. Kamakshi
53	B24IT117	Artificial Intelligence Powered Tools in Academic Writing: To Use or Not to Use	ECRW	Dr. Asmathunisa Begum
54	B24IT118	Role of Language Laboratory in Developing Language Skills (LSRW) of Under Graduate Students	ECRW	Dr. Asmathunisa Begum
55	B24IT119	Women in the Short Story “Bhikharini” (“The Beggar Woman”) of Rabindranath Tagore	ECRW	Dr. Asmathunisa Begum
56	B24IT120	“A Bagful of Words” – Language Activity to Enhance the Spoken and Written Skills of Learners	ECRW	Dr. Asmathunisa Begum
57	B24IT121	Sudha Murty: An Inspiring Journey of Philanthropy and Success	ECRW	Dr. Asmathunisa Begum
58	B24IT122	Unveiling the Power of Cosmetics as Self Esteem Booster among Girls and Boys	ECRW	Dr. Asmathunisa Begum
59	B24IT123	Success Depends on the Choices We Make – Shiv Khera	ECRW	Dr. Asmathunisa Begum
60	B24IT124	Developing Students’ Writing Skills by Using Picture as an Alternative Media	ECRW	Dr. Asmathunisa Begum
61	B24IT125	Vocabulary Building Activity-Words in a Word/ Word Generator	ECRW	Dr. Asmathunisa Begum
62	B24IT126	Wit Humour and Satire in R.K. Narayan’s Short Story “An Astrologer’s Day”	ECRW	Dr. Asmathunisa Begum
63	B24IT127	The Financial Strain on Byjus: Unraveling the EdTech Giant’s Crisis	ECRW	Dr. Asmathunisa Begum
64	B24IT128	The Inspirational Success Story of Amazon’s Founder-Jeff Bezos	ECRW	Dr. Asmathunisa Begum

Signature of the Course Faculty