

Section: 1 CSD2

S.No	Roll number of the student	Practicum topic allotted	Practicum under the course	Course faculty
1	B24DS065	Enhancing Energy Consumption Efficiency in Smart Grids Through Time Series Analysis and Predictive Coding	DCODE	Dr.B.Yakaiah
2	B24DS066	Enhancing Signal Processing Algorithms with Roll's Theorem for Identifying Key Points in Continuous Signals	DCODE	Dr.B.Yakaiah
3	B24DS067	Optimizing Energy Consumption in Smart Grids Using Lagrange's Methods and Real-Time Data	DCODE	Dr.B.Yakaiah
4	B24DS068	Analysis of an electrical circuits using Cauchy's mean value theorem	DCODE	Dr.B.Yakaiah
5	B24DS069	Optimizing Production Costs in Manufacturing Using Maxima and Minima Analysis of Cost Functions	DCODE	Dr.B.Yakaiah
6	B24DS070	Enhancing Financial Portfolio Optimization with Partial Differentiation and Risk Assessment Models	DCODE	Dr.B.Yakaiah
7	B24DS071	Improving Autonomous Vehicle Navigation Systems Using Jacobian Matrices for Real-Time Motion Control	DCODE	Dr.B.Yakaiah
8	B24DS072	Enhancing Product Design with Maxima and Minima Analysis in Two Variables for Performance and Durability	DCODE	Dr.B.Yakaiah
9	B24DS073	Designing Efficient Climate Control Systems with Newton's Law of Cooling for Smart Buildings	DCODE	Dr.B.Yakaiah
10	B24DS074	Application of Linear differential equations- Electrical Circuits: -LCR Circuit	DCODE	Dr.B.Yakaiah
11	B24DS075	Optimizing Financial Investment Strategies with First-Order ODEs for Asset Growth Modeling	DCODE	Dr.B.Yakaiah
12	B24DS076	Enhanced Image Processing Techniques Using Maclaurin's Series for Approximate Filters and Transformations	DCODE	Dr.B.Yakaiah
13	B24DS077	Geometric series with application to real world problems	DCODE	Dr.B.Yakaiah
14	B24DS078	Investigating the Effectiveness of Conductometric Titration in Determining the Concentration of Strong Acids and Bases.	EC	Dr.H.Ramesh Babu
15	B24DS079	Conductometric Titration of Weak Acids and Bases: A Study of Equivalence Point Detection and Accuracy	EC	Dr.H.Ramesh Babu
16	B24DS080	Comparative Analysis of Conductometric and Potentiometric Titration Methods for Determining the Concentration of	EC	Dr.H.Ramesh Babu

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		Electrolytes		
17	B24DS081	Redox Titration of Ferrous Ions using Permanganate: A Practicum Study	EC	Dr.H.Ramesh Babu
18	B24DS082	Comparative Analysis of Hardness of Ground water before and after Demineralization by Reverse Osmosis	EC	Dr.H.Ramesh Babu
19	B24DS083	Comparative Analysis of Hardness in Water Samples from Local Lakes	EC	Dr.H.Ramesh Babu
20	B24DS084	Quantitative Analysis of Ferrous Ions using Permanganometry: A Laboratory Investigation	EC	Dr.H.Ramesh Babu
21	B24DS085	Comparative Analysis of Alkalinity in Water Samples from Different Sources: A Study of Municipal and Lake Water	EC	Dr.H.Ramesh Babu
22	B24DS086	Verification of Freundlich Adsorption Isotherm for Acetic Acid on Charcoal Surfaces	EC	Dr.H.Ramesh Babu
23	B24DS087	Determination alkalinity of ground water before and after demineralization by reverse osmosis	EC	Dr.H.Ramesh Babu
24	B24DS088	Comparative Study of Acetic Acid Adsorption on Charcoal Surfaces: Verification of Freundlich Adsorption Isotherm"	EC	Dr.H.Ramesh Babu
25	B24DS089	Adsorption Isotherm for Acetic Acid on Charcoal Surfaces, Verification of Freundlich Adsorption Isotherm	EC	Dr.H.Ramesh Babu
26	B24DS090	Comparative Analysis of Hardness in Water Samples from Local Lakes	EC	Dr.H.Ramesh Babu
27	B24DS091	Design 4-bit Binary Adder-Subtractor	STLD	V.ShobhanReddy
28	B24DS092	Design 4-bit Carry Look-Ahead Adder	STLD	V.ShobhanReddy
29	B24DS093	Design N-Bit Parallel Adder	STLD	V.ShobhanReddy
30	B24DS094	Design and implement 7-Segment Display Decoder (BCD to 7 Segment)	STLD	V.ShobhanReddy
31	B24DS095	Design and implement Priority Encoder (8-to-3)	STLD	V.ShobhanReddy
32	B24DS096	Design and implement 4:1 Multiplexer Implementation of Boolean Function	STLD	V.ShobhanReddy
33	B24DS097	Design and implement Full Adder using Multiplexer	STLD	V.ShobhanReddy
34	B24DS098	Design and implement 4-bit Synchronous Binary Counter	STLD	V.ShobhanReddy
35	B24DS099	Design and implement 4-bit Asynchronous Binary Counter	STLD	V.ShobhanReddy
36	B24DS100	Design and implement Johnson Counter	STLD	V.ShobhanReddy
37	B24DS101	Design and implement SR Flip-Flop	STLD	V.ShobhanReddy
38	B24DS102	Design and implement Ring counter	STLD	V.ShobhanReddy
39	B24DS103	Design and implement JK Flip-Flop	STLD	V.ShobhanReddy

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40	B24DS104	Retirement planning management system	PPSC	Dr.Kiran Mayee
41	B24DS105	Sentiment-based voting system	PPSC	Dr.Kiran Mayee
42	B24DS106	Moon travel reservation system	PPSC	Dr.Kiran Mayee
43	B24DS107	Biostatistics-based alarm system	PPSC	Dr.Kiran Mayee
44	B24DS108	Vaccine management system	PPSC	Dr.Kiran Mayee
45	B24DS109	Profession-based lifestyle recommender system	PPSC	Dr.Kiran Mayee
46	B24DS110	Cloud service billing system	PPSC	Dr.Kiran Mayee
47	B24DS111	Medication reminder system	PPSC	Dr.Kiran Mayee
48	B24DS112	Sports resource management system	PPSC	Dr.Kiran Mayee
49	B24DS113	Credit score calculator	PPSC	Dr.Kiran Mayee
50	B24DS114	Abstract art generator	PPSC	Dr.Kiran Mayee
51	B24DS115	Shares and trades	PPSC	Dr.Kiran Mayee
52	B24DS116	Movie feedback-based rating calculator	PPSC	Dr.Kiran Mayee
53	B24DS117	The cosmic Dance: A study of Nataraj Sculpture	ECRW	Dr.W.Grace Shanthi
54	B24DS118	The Future of Food: Trends in Contemporary Cuisine	ECRW	Dr.W.Grace Shanthi
55	B24DS119	Feminism for All: A Critical Analysis of Chimamanda Ngozi Adichie's "We Should All Be Feminists"	ECRW	Dr.W.Grace Shanthi
56	B24DS120	Technological Innovations for Women's Safety	ECRW	Dr.W.Grace Shanthi
57	B24DS121	Unveiling Emotions: A study on the Aesthetics of Expression	ECRW	Dr.W.Grace Shanthi
58	B24DS122	Late Sitaram Yechury: A Marxist Journey Through Indian Politics	ECRW	Dr.W.Grace Shanthi
59	B24DS123	Architecture of Faith: Exploring the design and meaning of temples-a special focus on Thousand Pillar Temple	ECRW	Dr.W.Grace Shanthi
60	B24DS124	Warangal Dhurries : A Tapestry of Tradition.	ECRW	Dr.W.Grace Shanthi
61	B24DS125	Architectural Marvels of Warangal Fort: A historical study	ECRW	Dr.W.Grace Shanthi
62	B24DS126	The Role of Technology in Language Acquisition	ECRW	Dr.W.Grace Shanthi
63	B24DS127	Beyond Limitations: The power of sports for people with disabilities	ECRW	Dr.W.Grace Shanthi
64	B24DS128	Character analysis of the movie "mind the Language" - a special focus on the English Language Learning.	ECRW	Dr.W.Grace Shanthi