

**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 classwork 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

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

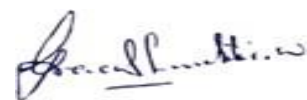
***Section : 1CSD1***

| S. No. | Roll number of the student | Practicum topic allotted                                                              | Practicum under the course | Course faculty |
|--------|----------------------------|---------------------------------------------------------------------------------------|----------------------------|----------------|
| 1.     | B24DS001                   | The Time Complexity of Algorithms Analysed using Sequence and Series.                 | DCODE                      | Dr.D.Rajaiah   |
| 2      | B24DS002                   | Generation of Random Numbers using Sequences and Series to the Field of Cryptography  | DCODE                      | Dr.D.Rajaiah   |
| 3      | B24DS003                   | Application of Differential Equation in Network Traffic Modeling                      | DCODE                      | Dr.D.Rajaiah   |
| 4      | B24DS004                   | Analyzation of Sensitivity Analysis of Output using Jacobian matrix                   | DCODE                      | Dr.D.Rajaiah   |
| 5      | B24DS005                   | Forecasting Financial Analysis using Time-Series                                      | DCODE                      | Dr.D.Rajaiah   |
| 6      | B24DS006                   | Taylor Series for Finding the Optimal Points of a Function- Machine Learning Approach | DCODE                      | Dr.D.Rajaiah   |

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| 7  | B24DS007 | Application of Taylor Series in Deep Learning                                            | DCODE | Dr.D.Rajaiah        |
| 8  | B24DS008 | Human Population Breeding Rate using Fibonacci Sequence                                  | DCODE | Dr.D.Rajaiah        |
| 9  | B24DS009 | Study of Multivariate Calculus for Machine Learning                                      | DCODE | Dr.D.Rajaiah        |
| 10 | B24DS010 | Application of Differentiation in Data Science                                           | DCODE | Dr.D.Rajaiah        |
| 11 | B24DS011 | Machine Learning Approach to Find the Minimal Path of a Network                          | DCODE | Dr.D.Rajaiah        |
| 12 | B24DS012 | Optimization Algorithms using Jacobians                                                  | DCODE | Dr.D.Rajaiah        |
| 13 | B24DS013 | Application of Differential Equation for Finding the Flow of Current in LCR Circuit      | DCODE | Dr.D.Rajaiah        |
| 14 | B24DS014 | Application of Advanced Composite Materials in Engineering                               | EC    | Dr.T.Madhukar Reddy |
| 15 | B24DS015 | Evaluation of Chemical Engineering Techniques for Efficient Renewable Energy Production  | EC    | Dr.T.Madhukar Reddy |
| 16 | B24DS016 | Investigation of Advanced Membrane Technologies for Water Purification                   | EC    | Dr.T.Madhukar Reddy |
| 17 | B24DS017 | Study of Chemical Reaction Engineering for Sustainable Industrial Processes              | EC    | Dr.T.Madhukar Reddy |
| 18 | B24DS018 | Development of High-Performance Polymers for Engineering Applications                    | EC    | Dr.T.Madhukar Reddy |
| 19 | B24DS019 | Exploration of Electrochemical Energy Storage Systems for Engineering Applications       | EC    | Dr.T.Madhukar Reddy |
| 20 | B24DS020 | Application of Nanotechnology in Developing Innovative Coatings for Industrial Materials | EC    | Dr.T.Madhukar Reddy |
| 21 | B24DS021 | Development of Chemical Processes for Waste-to- Energy Conversion                        | EC    | Dr.T.Madhukar Reddy |
| 22 | B24DS022 | Advanced Photovoltaic Materials for Enhanced Solar Energy Conversion                     | EC    | Dr.T.Madhukar Reddy |
| 23 | B24DS023 | Advanced Techniques for the Detection and Analysis of Emerging Contaminants in Water     | EC    | Dr.T.Madhukar Reddy |
| 24 | B24DS024 | Design and Testing of Electrochemical Devices for Clean Energy Applications              | EC    | Dr.T.Madhukar Reddy |
| 25 | B24DS025 | Exploration of Carbon Nanotubes and Graphene in Advanced Engineering Applications        | EC    | Dr.T.Madhukar Reddy |
| 26 | B24DS026 | Development of Corrosion Resistant Coatings for Industrial Applications                  | EC    | Dr.T.Madhukar Reddy |
| 27 | B24DS027 | 4-bit Binary Adder-Subtractor                                                            | STLD  | Ch.Pavan Kumar      |
| 28 | B24DS028 | 4-bit Carry Look-Ahead Adder                                                             | STLD  | Ch.Pavan Kumar      |
| 29 | B24DS029 | N-Bit Parallel Adder                                                                     | STLD  | Ch.Pavan Kumar      |
| 30 | B24DS030 | 7-Segment Display Decoder (BCD to 7 Segment)                                             | STLD  | Ch.Pavan Kumar      |
| 31 | B24DS031 | Priority Encoder (8-to-3)                                                                | STLD  | Ch.Pavan Kumar      |
| 32 | B24DS032 | 4:1 Multiplexer Implementation of Boolean Function                                       | STLD  | Ch.Pavan Kumar      |
| 33 | B24DS033 | Full Adder using Multiplexer                                                             | STLD  | Ch.Pavan Kumar      |

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| 34 | B24DS034 | 4-bitSynchronousBinaryCounter                                                                               | STLD | Ch.PavanKumar      |
| 35 | B24DS035 | 4-bitAsynchronousBinaryCounter                                                                              | STLD | Ch.PavanKumar      |
| 36 | B24DS036 | JohnsonCounter                                                                                              | STLD | Ch.PavanKumar      |
| 37 | B24DS037 | SRFlip-FlopImplementation                                                                                   | STLD | Ch.PavanKumar      |
| 38 | B24DS038 | JKFlip-FlopImplementation                                                                                   | STLD | Ch.PavanKumar      |
| 39 | B24DS039 | DFlip-Flop Implementation                                                                                   | STLD | Ch.PavanKumar      |
| 40 | B24DS040 | Library Management System                                                                                   | PPSC | B.Ramji            |
| 41 | B24DS041 | Hotel Management System                                                                                     | PPSC | B.Ramji            |
| 42 | B24DS042 | Movie Ticket Booking System                                                                                 | PPSC | B.Ramji            |
| 43 | B24DS043 | Addition and Subtraction of Two Numbers Present in String <b>Form</b>                                       | PPSC | B.Ramji            |
| 44 | B24DS044 | Quiz Game                                                                                                   | PPSC | B.Ramji            |
| 45 | B24DS045 | Banking System                                                                                              | PPSC | B.Ramji            |
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| 46 | B24DS046 | Implementation of Rock-Paper-Scissors Game                                                                  | PPSC | B.Ramji            |
| 47 | B24DS047 | Inventory Management System                                                                                 | PPSC | B.Ramji            |
| 48 | B24DS048 | Password Generator using first name, last name, date of birth and pin                                       | PPSC | B.Ramji            |
| 49 | B24DS049 | ATM Simulator                                                                                               | PPSC | B.Ramji            |
| 50 | B24DS050 | Hospital Management System                                                                                  | PPSC | B.Ramji            |
| 51 | B24DS051 | Voting System                                                                                               | PPSC | B.Ramji            |
| 52 | B24DS052 | Parking Management System                                                                                   | PPSC | B.Ramji            |
| 53 | B24DS053 | The Impact of Short Stories in English Language Learning Classroom-aspecialfocus on upper primary level.    | ECRW | Dr.W.GRACE SHANTHI |
| 54 | B24DS054 | The role of poems in developing language skills-a special focus on any two poems                            | ECRW | Dr.W.GRACE SHANTHI |
| 55 | B24DS055 | From Isolation to Inclusion: Educating Blind Students                                                       | ECRW | Dr.W.GRACE SHANTHI |
| 56 | B24DS056 | Lake Conservation and Human Impact                                                                          | ECRW | Dr.W.GRACE SHANTHI |
| 57 | B24DS057 | Exploring Linguistic and Cultural Dimensions: A comparative study of Urdu and Telugu.                       | ECRW | Dr.W.GRACE SHANTHI |
| 58 | B24DS058 | Rituals and festivals: Building Telangana's cultural identity                                               | ECRW | Dr.W.GRACE SHANTHI |
| 59 | B24DS059 | Architecture of faith: Exploring the design and meaning of Temples with a specific focus on Ramappa Temple. | ECRW | Dr.W.GRACE SHANTHI |
| 60 | B24DS060 | Women-led Development in India's journey in Amrit Kaal                                                      | ECRW | Dr.W.GRACE SHANTHI |
| 61 | B24DS061 | Language: The Mirror of Culture-aspecial focus on "Banjara Language"                                        | ECRW | Dr.W.GRACE SHANTHI |

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| 62 | B24DS062 | Inclusive Education: Bridging the Gap for Deaf and Dumb Students | ECRW | Dr. W. GRACE SHANTHI |
| 63 | B24DS063 | The Role of Music in Enhancing Learning and Memory               | ECRW | Dr. W. GRACE SHANTHI |
| 64 | B24DS064 | The Journey of Shiva Perini Thandavam.                           | ECRW | Dr. W. GRACE SHANTHI |



Dr. W. GRACE SHANTHI  
(Signature of class teacher)

