AY: 2022-23 ODD



SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Sira Road, Tumkur - 572 106, Karnataka, India.

Phone: 0816 - 2212629 | Principal: 0816 - 2212627, 9686114899 | Telefax: 0816 - 2212628

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(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

DEPARTMENT OF ISE

SUBJECT

ANALOG AND DIGITAL **ELECTRONICS**

SUBJECT CODE

21CS33

ESTD:2002

COURSE OUTCOME

- CO 1. Explain the use of photo electronics devices, 555 timer IC, Regulator ICs and uA741
- CO 2. Make use of simplifying techniques in the design of combinational circuits.
- CO 3. Illustrate combinational and sequential digital circuits
- CO 4. Demonstrate the use of flipflops and apply for registers
- CO 5. Design and test counters, Analog-to-Digital and Digital-to-Analog conversion techniques.
- PSO1: To Create, select, and apply appropriate techniques, resources, modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- PSO2: To manage complex IT projects with consideration of the human, financial, ethical and environmental factors and an understanding of risk management processes, and operational and policy implications.
- PSO3: Acquaint module knowledge on emerging trends of the modern era in computer science and engineering.

PROGRAM OUTCOMES

- PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- PO2 Problem analysis: Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
- PO4Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.
- PO5 Modern tool usage:Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling to complex engineering activities.
- PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
- PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need forsustainable development.
- PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.
- PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve

contemporary issues and acquire lifelong learning.

| COLLEGE | | SHR | IDEVI | INSTI | TUTE | OF E | NGIN | EERIN | G & T | ECHNO | DLOGY | 7 |
|-----------|-------|------|--------------|--------|------|------|-------|-------------|--------|--------|-------|------|
| FACULTY | NAM | IE | Dr.CH. | ARAN | KV | | | Mary In the | | | | |
| BRAN | СН | | | ISE | | A | CAD | EMIC Y | EAR | | 2022 | -23 |
| COURSE | B. | E | SEM | (ESTE) | R | Ш | 1 | SECTIO | N | | В | |
| SUBJECT | | | ALOG ELEC | | | AL | | SUBJE | CT CC | ODE | 21C | S33 |
| CO & PO M | APPIN | NG : | 4 2 2 | | | | .02-1 | Ma. 10.210 | 144619 | | | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
| CO1 | 3 | 2 | 3 | 1 | 3 | | | 2 | 1 | 1 | - 1 | 2 |
| CO2 | 3 | 3 | 3 | 1 | 1 | | | 2 | 1 | 1 | 1 | 2 |
| CO3 | 3 | 2 | 2 | 1 | 1 | | | 2 | 1 | 1 | 1 | 2 |
| CO4 | 3 | 3 | 3 | 1 | 1 | | | 2 | 1 | 1 | 1 | 2 |
| CO5 | 3 | 2 | 2 | 1 | 1 | | | 2 | 1 | 1 | 1 | 2 |
| AVERAGE | 3 | 2.4 | 2.6 | 1 | 1.4 | | | 2 | 1 | 1 | 1 | 2 |
| | | | | | | OVE | RAL | L MAPI | PING | OF SUE | JECT | 1.45 |

CO AND PO ATTAINMENT

| CUAN | D PO A | LIAINN | IENI | alana. | | | | 11 | | | | | |
|-----------|--------|--------|-------|--------|--------|--------|-----|-----|--------|--------|--------|--------|--------|
| 建筑 | CO% | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
| CO1 | 0.28 | 0.8565 | 0.571 | 0.857 | 0.2855 | 0.8565 | | | 0.571 | 0.2855 | 0.2855 | 0.2855 | 0.571 |
| CO2 | 0.24 | 0.7251 | 0.725 | 0.725 | 0.2417 | 0.2417 | | 10 | 0.4834 | 0.2417 | 0.2417 | 0.2417 | 0.4834 |
| CO3 | 0.28 | 0.8697 | 0.58 | 0.58 | 0.2899 | 0.2899 | | | 0.5798 | 0.2899 | 0.2899 | 0.2899 | 0.5798 |
| CO4 | 0.28 | 0.8697 | 0.58 | 0.58 | 0.2899 | 0.2899 | | | 0.5798 | 0.2899 | 0.2899 | 0.2899 | 0.5798 |
| CO5 | 0.25 | 0.7782 | 0.519 | 0.259 | 0.2594 | 0.2594 | | | 0.2594 | 0.2594 | 0.2594 | 0.2594 | 0.5188 |
| AVERAGE | 0.266 | 0.817 | 0.545 | 0.558 | 0.27 | 0.557 | | | 0.41 | 0.272 | 0.272 | 0.272 | 0.54 |
| | | | | | | | | F | INAL A | TTAIN | MENT I | LEVEL | 1.55 |

| cademic year | 2022-23 | | SEM | (CSE / ISE) | Total | strength | 40 | | 21CS33 | | | | 1 | nalog | and Digi | tal Elec | tronics | | | | | | | | | | | | | |
|--------------|---------|----------|-------|----------------|--------|----------|------|----------|--------|-----|------|------|--------|-------|----------|----------|---------|--------|-------|----------|---------|--------------|----------|----------|------------|------|------------|---------|---------------|---------|
| | IA | TEST 1(3 | 0M) | IA | TEST 2 | (30M) | L | TEST 3(3 | 0M) | ASS | IGNE | MENT | QUIZ(2 | 0 M) | | SE | E MARI | KS(50) | | | % (| of individua | al CO | Joseph G | 1 V 20 V 1 | Tota | I CO's Att | ainment | TO A STATE OF | SEE Tot |
| USN | CO1 | CO2 | TOTAL | CO3 | CO4 | TOTAL | CO4 | CO5 | TOTAL | CO1 | CO2 | CO3 | CO4 | CO5 | CO1=12 | CO2 | CO3 | CO4 | CO5 | CO1=44 | CO2=29 | CO3=29 | CO4=29 | CO5=29 | CO1 | CO2 | CO3 | CO4 | CO5 | 50N |
| SV21IS001 | 14 | 14 | 28 | 14.5 | 14.5 | 29 | 13.5 | 13.5 | 27 | 2 | 2 | 2 | 2 | 2 | 8 | 8 | 8 | 8 | 10 | 86.36364 | 84.4828 | 84.48276 | 81.03448 | 87.93103 | 38 | 24.5 | 24.5 | 23.5 | 25.5 | 40 |
| SV21IS002 | 14 | 14 | 28 | 15 | 15 | 30 | 15 | 15 | 30 | 2 | 2 | 2 | 2 | 2 | 6.2 | 6.2 | 6.2 | 6.2 | 7.75 | 82.27273 | 80 | 80 | 80 | 85.34483 | 36.2 | 23.2 | 23.2 | 23.2 | 24.75 | 31 |
| SV21IS003 | 14 | 14 | 28 | 13.5 | 13.5 | 27 | 10 | 10 | 20 | 2 | 2 | 2 | 2 | 2 | 7.4 | 7.4 | 7.4 | 7.4 | 9.25 | 85 | 78.9655 | 78.96552 | | 73.27586 | 37.4 | 22.9 | 22.9 | 19.4 | 21.25 | 37 |
| SV21IS004 | 14 | 14 | 28 | 14.5 | 14.5 | 29 | 11 | 11 | 22 | 2 | 2 | 2 | 2 | 2 | 5.2 | 5.2 | 5.2 | 5.2 | 6.5 | 80 | 74.8276 | 74.82759 | | 67.24138 | 35.2 | 21.7 | 21.7 | 18.2 | 19.5 | 26 |
| SV21IS005 | 14.5 | 14.5 | 29 | 14.5 | 14.5 | 29 | 14 | 14 | 28 | 2 | 2 | 2 | 2 | 2 | 8.2 | 8.2 | 8.2 | 8.2 | 10.25 | 89.09091 | 85.1724 | 85.17241 | 83.44828 | 90.51724 | 39.2 | 24.7 | 24.7 | 24.2 | 26.25 | 41 |
| SV21IS006 | 14 | 14 | 28 | 15 | 15 | 30 | 12 | 12 | 24 | 2 | 2 | 2 | 2 | 2 | 10 | 10 | 10 | 10 | 12.5 | 90.90909 | 93.1034 | 93.10345 | 82.75862 | 91.37931 | 40 | 27 | 27 | 24 | 26.5 | 50 |
| SV21IS007 | 14 | 14 | 28 | 15 | 15 | 30 | 14.5 | 14.5 | 29 | 2 | 2 | 2 | 2 | 2 | 7.8 | 7.8 | 7.8 | 7.8 | 9.75 | 85.90909 | 85.5172 | 85.51724 | 83.7931 | 90.51724 | 37.8 | 24.8 | 24.8 | 24.3 | 26.25 | 39 |
| SV21IS008 | 14.5 | 14.5 | 29 | 14.5 | 14.5 | 29 | 10 | 10 | 20 | 2 | 2 | 2 | 2 | 2 | 7.8 | 7.8 | 7.8 | 7.8 | 9.75 | 88.18182 | 83.7931 | 83.7931 | 68.27586 | 75 | 38.8 | 24.3 | 24.3 | 19.8 | 21.75 | 39 |
| SV21IS009 | 15 | 15 | 30 | 15 | 15 | 30 | 13 | 13 | 26 | 2 | 2 | 2 | 2 | 2 | 6.4 | 6.4 | 6.4 | 6.4 | 8 | 87.27273 | 80.6897 | 80.68966 | 73.7931 | 79.31034 | 38.4 | 23.4 | 23.4 | 21.4 | 23 | 32 |
| SV21IS010 | 14.5 | 14.5 | 29 | 15 | 15 | 30 | 14.5 | 14.5 | 29 | 2 | 2 | 2 | 2 | 2 | 8.4 | 8.4 | 8.4 | 8.4 | 10.5 | 89.54545 | 87.5862 | 87.58621 | 85.86207 | 93.10345 | 39.4 | 25.4 | 25.4 | 24.9 | 27 | 42 |
| SV21IS011 | 15 | 15 | 30 | 15 | 15 | 30 | 11.5 | 11.5 | 23 | 2 | 2 | 2 | 2 | 2 | 7 | 7 | 7 | 7 | 8.75 | 88.63636 | 82.7586 | 82.75862 | 70.68966 | 76.72414 | 39 | 24 | 24 | 20.5 | 22.25 | 35 |
| SV21IS012 | 15 | 15 | 30 | 15 | 15 | 30 | 14 | 14 | 28 | 2 | 2 | 2 | 2 | 2 | 10 | 10 | 10 | 10 | 12.5 | 95.45455 | 93.1034 | 93.10345 | 89.65517 | 98.27586 | 42 | 27 | 27 | 26 | 28.5 | 50 |
| SV21IS013 | 14 | 14 | 28 | 15 | 15 | 30 | 13.5 | 13.5 | 27 | 2 | 2 | 2 | 2 | 2 | 10 | 10 | 10 | 10 | 12.5 | 90.90909 | 93.1034 | 93.10345 | 87.93103 | 96.55172 | 40 | 27 | 27 | 25.5 | 28 | 50 |
| SV21IS014 | 12 | 12 | 24 | 10 | 10 | 20 | 10.5 | 10.5 | 21 | 2 | 2 | 2 | 2 | 2 | 8 | 8 | 8 | 8 | 10 | 77.27273 | 68.9655 | 68.96552 | 70.68966 | 77.58621 | 34 | 20 | 20 | 20.5 | 22.5 | 40 |
| SV21IS015 | 14 | 14 | 28 | 14.5 | 14.5 | 29 | 13.5 | 13.5 | 27 | 2 | 2 | 2 | 2 | 2 | 9 | 9 | 9 | 9 | 11.25 | 88.63636 | 87.931 | 87.93103 | 84.48276 | 92.24138 | 39 | 25.5 | 25.5 | 24.5 | 26.75 | 45 |
| SV21IS016 | 12 | 12 | 24 | 15 | 15 | 30 | 10 | 10 | 20 | 2 | 2 | 2 | 2 | 2 | 7.6 | 7.6 | 7.6 | 7.6 | 9.5 | 76.36364 | 84.8276 | 84.82759 | 67.58621 | 74.13793 | 33.6 | 24.6 | 24.6 | 19.6 | 21.5 | 38 |
| SV21IS017 | 14.5 | 14.5 | 29 | 15 | 15 | 30 | 10 | 10 | 20 | 2 | 2 | 2 | 2 | 2 | 8.8 | 8.8 | 8.8 | 8.8 | 11 | 90.45455 | 88.9655 | 88.96552 | 71.72414 | 79.31034 | 39.8 | 25.8 | 25.8 | 20.8 | 23 | 44 |
| SV21IS018 | 14.5 | 14.5 | 29 | 13.5 | 13.5 | 27 | 15 | 15 | 30 | 2 | 2 | 2 | 2 | 2 | 10 | 10 | 10 | 10 | 12.5 | 93.18182 | 87.931 | 87.93103 | 93.10345 | 101.7241 | 41 | 25.5 | 25.5 | 27 | 29.5 | 50 |
| SV21IS019 | 14.5 | 14.5 | 29 | 15 | 15 | 30 | 13.5 | 13.5 | 27 | 2 | 2 | 2 | 2 | 2 | 8.4 | 8.4 | 8.4 | 8.4 | 10.5 | 89.54545 | 87.5862 | 87.58621 | 82.41379 | 89.65517 | 39.4 | 25.4 | 25.4 | 23.9 | 26 | 42 |
| SV21IS021 | 14.5 | 14.5 | 29 | 15 | 15 | 30 | 14 | 14 | 28 | 2 | 2 | 2 | 2 . | 2 | 5.4 | 5.4 | 5.4 | 5.4 | 6.75 | 82.72727 | 77.2414 | 77.24138 | 73.7931 | 78.44828 | 36.4 | 22.4 | 22.4 | 21.4 | 22.75 | 27 |
| SV21IS022 | 14 | 14 | 28 | 13 | 13 | 26 | 15 | 15 | 30 | 2 | 2 | 2 | 2 | 2 | 7.4 | 7.4 | 7.4 | 7.4 | 9.25 | 85 | 77.2414 | 77.24138 | 84.13793 | 90.51724 | 37.4 | 22.4 | 22.4 | 24.4 | 26.25 | 37 |
| SV21IS023 | 15 | 15 | 30 | 15 | 15 | 30 | 15 | 15 | . 30 | 2 | 2 | 2 | 2 | 2 | 10 | 10 | 10 | 10 | 12.5 | 95.45455 | 93.1034 | 93.10345 | 93.10345 | 101.7241 | 42 | 27 | 27 | 27 | 29.5 | 50 |
| SV21IS024 | 10.5 | 10.5 | 21 | 13.5 | 13.5 | 27 | 11.5 | 11.5 | 23 | 2 | 2 | 2 | 2 | 2 | 5.2 | 5.2 | 5.2 | 5.2 | 6.5 | 64.09091 | 71.3793 | 71.37931 | 64.48276 | 68.96552 | 28.2 | 20.7 | 20.7 | 18.7 | 20 | 26 |
| SV21IS025 | 15 | 15 | 30 | 14.5 | 14.5 | 29 | 13.5 | 13.5 | 27 | 2 | 2 | 2 | 2 | 2 | 8.2 | 8.2 | 8.2 | 8.2 | 10.25 | 91.36364 | 85.1724 | 85.17241 | 81.72414 | 88.7931 | 40.2 | 24.7 | 24.7 | 23.7 | 25.75 | 41 |
| SV21IS026 | 10 | 10 | 20 | 13 | 13 | 26 | 12 | 12 | 24 | 2 | 2 | 2 | 2 | 2 | 10 | 10 | 10 | 10 | 12.5 | 72.72727 | 86.2069 | 86.2069 | 82.75862 | 91.37931 | 32 | 25 | 25 | 24 | 26.5 | 50 |
| SV21IS027 | 14.5 | 14.5 | 29 | 15 | 15 | 30 | 13.5 | 13.5 | 27 | 2 | 2 | 2 | 2 | 2 | 7.8 | 7.8 | 7.8 | 7.8 | 9.75 | 88.18182 | 85.5172 | 85.51724 | 80.34483 | 87.06897 | 38.8 | 24.8 | 24.8 | 23.3 | 25.25 | 39 |
| SV21IS028 | 15 | 15 | . 30 | 15 | 15 | 30 | 15 | 15 | 30 | 2 | 2 | 2 | 2 | 2 | 7.8 | 7.8 | 7.8 | 7.8 | 9.75 | 90.45455 | 85.5172 | 85.51724 | 85.51724 | 92.24138 | 39.8 | 24.8 | 24.8 | 24.8 | 26.75 | 39 |
| SV21IS029 | 14 | 14 | 28 | 15 | 15 | 30 | 15 | 15 | 30 | 2 | 2 | 2 | 2 | 2 | 6.4 | 6.4 | 6.4 | 6.4 | 8 | 82.72727 | 80.6897 | 80.68966 | 80.68966 | 86.2069 | 36.4 | 23.4 | 23.4 | 23.4 | 25 | 32 |
| SV21IS030 | 14.5 | 14.5 | 29 | 15 | 15 | 30 | 15 | 15 | 30 | 2 | 2 | 2 | 2 | 2 | 8.4 | 8.4 | 8.4 | 8.4 | 10.5 | 89.54545 | 87.5862 | 87.58621 | 87.58621 | 94.82759 | 39.4 | 25.4 | 25.4 | 25.4 | 27.5 | 42 |
| SV21IS031 | 13 | 13 | 26 | 13.5 | 13.5 | 27 | 15 | 15 | 30 | 2 | 2 | 2 | 2 | 2 | 7 | 7 | 7 | 7 | 8.75 | 79.54545 | 77.5862 | 77.58621 | 82.75862 | 88.7931 | 35 | 22.5 | 22.5 | 24 | 25.75 | 35 |
| SV21IS032 | 15 | 15 | 30 | 15 | 15 | 30 | 15 | 15 | 30 | 2 | 2 | 2 | 2 | 2 | 10 | 10 | 10 | 10 | 12.5 | 95.45455 | 93.1034 | 93.10345 | 93.10345 | 101.7241 | 42 | 27 | 27 | 27 | 29.5 | 50 |
| SV21IS033 | 14 | 14 | 28 | 15 | 15 | 30 | 14.5 | 14.5 | 29 | 2 | 2 | 2 | 2 | 2 | 10 | 10 | 10 | 10 | 12.5 | 90.90909 | 93.1034 | 93.10345 | 91.37931 | 100 | 40 | 27 | 27 | 26.5 | 29 | 50 |
| SV21IS034 | 15 | 15 | 30 | 10 | 10 | 20 | 10 | 10 | 20 | 2 | 2 | 2 | 2 | 2 | 8 | 8 | 8 | 8 | 10 | 90.90909 | 68.9655 | 68.96552 | 68.96552 | 75.86207 | 40 | 20 | 20 | 20 | 22 | 40 |
| SV21IS035 | 14 | 14 | 28 | 13 | 13 | 26 | 13.5 | 13.5 | 27 | 2 | 2 | 2 | 2 | 2 | 9 | 9 | 9 | 9 | 11.25 | 88.63636 | 82.7586 | 82.75862 | 84.48276 | 92.24138 | 39 | 24 | 24 | 24.5 | 26.75 | 45 |
| SV21IS036 | 14 | 14 | 28 | 14.5 | 14.5 | 29 | 13.5 | 13.5 | 27 | 2 | 2 | 2 | 2 | 2 | 7.6 | 7.6 | 7.6 | 7.6 | 9.5 | 85.45455 | 83.1034 | 83.10345 | 79.65517 | 86.2069 | 37.6 | 24.1 | 24.1 | 23.1 | 25 | 38 |
| SV21IS037 | 14.5 | 14.5 | 29 | 10 | 10 | 20 | 14 | 14 | 28 | 2 | 2 | 2 | 2 | 2 | 5.2 | 5.2 | 5.2 | 5.2 | 6.5 | 82.27273 | 59.3103 | 59.31034 | 73.10345 | 77.58621 | 36.2 | 17.2 | 17.2 | 21.2 | 22.5 | 26 |
| SV22IS400 | 14 | 14 | 28 | 15 | 15 | 30 | 14.5 | 14.5 | 29 | 2 | 2 | 2 | 2 | 2 | 8.2 | 8.2 | 8.2 | 8.2 | 10.25 | 86.81818 | 86.8966 | 86.89655 | 85.17241 | 92.24138 | 38.2 | 25.2 | 25.2 | 24.7 | 26.75 | 41 |
| SV22IS401 | 14 | 14 | 28 | 15 | 15 | 30 | 13.5 | 13.5 | 27 | 2 | 2 | 2 | 2 | 2 | 10 | 10 | 10 | 10 | 12.5 | 90.90909 | 93.1034 | 93.10345 | 87.93103 | 96.55172 | 40 | 27 | 27 | 25.5 | 28 | 50 |
| SV22IS402 | 14.5 | 14.5 | 29 | 14.5 | 14.5 | 29 | 14 | 14 | 28 | 2 | 2 | 2 | 2 | 2 | 7.8 | 7.8 | 7.8 | 7.8 | 9.75 | 88.18182 | 83.7931 | 83.7931 | 82.06897 | 88.7931 | 38.8 | 24.3 | 24.3 | 23.8 | 25.75 | 39 |
| ISV22IS403 | 14.5 | 14.5 | 29 | 15 | 15 | 30 | 15 | 15 | 30 | 2 | 2 | 2 | 2 | 2 | 7.8 | 7.8 | 7.8 | 7.8 | 9.75 | 88.18182 | 85.5172 | 85.51724 | 85.51724 | 92.24138 | 38.8 | 24.8 | 24.8 | 24.8 | 26.75 | 39 |

| | PO1 | PO2 | PO3 | PO4 | PO5 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | |
|-----------|-------|------|------|-------|-------|-------|------|-------|-------|-------|-------|---------|
| CO1 | 2.59 | 2.59 | 0.86 | 1.72 | 1.72 | 0.86 | 0.86 | 0.86 | 1.72 | 0.86 | 0.86 | |
| CO2 | 1.65 | 2.48 | 0.82 | 1.65 | 1.65 | 0.82 | 0.82 | 0.82 | 1.65 | 0.82 | 0.82 | |
| CO3 | 2.2 | 0.82 | 1.65 | 1.65 | 1.65 | 0.82 | 0.82 | 0.82 | 1.65 | 1.65 | 2.48 | |
| CO4 | 2.45 | 1.63 | 1.65 | 1.63 | 1.63 | 0.81 | 2.48 | 0.81 | 1.63 | 1.65 | 0.82 | |
| CO5 | 2.48 | 1.63 | 2.48 | 1.63 | 1.63 | 0.81 | 0.82 | 0.81 | 1.63 | 0.81 | 1.63 | |
| 3/4/10/04 | 2.535 | 2.11 | 1.67 | 1.675 | 1.675 | 0.835 | 0.84 | 0.835 | 1.675 | 0.835 | 1.245 | 1.44818 |

HOD Information Science and Engineering SIE AKURU-572106

PRINCIPAL SIET. TUMKUR.

Sri Shridevi Charitable Trust (R.)

NSTITUTE OF ENGINEERING AND TEC

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Email: info@shridevlengineering.org, principal@shridevlengineering.org | Website: www.shridevlengineering.org

(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

Department of Information Science and Engineering

2022-2023

COURSE OUTCOMES

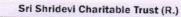
Subject: COMPUTER ORGANIZATION AND ARCHITECTURE

Subject Code: 21CS34

- CO1. Explain the organization and architecture of computer systems with machine instructions and programs.
- CO2. Analyze the input/output devices communicating with computer system
- CO3. Demonstrate the functions of different types of memory devices
- CO4. Apply different data types on simple arithmetic and logical unit
- CO5. Analyze the functions of basic processing unit, parallel processing and pipelining

PROGRAM OUTCOMES

- PO1. Engineering knowledge: An ability to apply knowledge of mathematics (including probability, Statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- PO2. Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems Reaching substantiated conclusions using first principles of mathematics, natural sciences, and Engineering sciences.
- PO3. Design / development of solutions: An ability to design solution for engineering problems and design System components or process to meet desired specifications and needs.
- PO4. Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, Design synthesis of the information to solve complex engineering problems and provide valid Conclusions.
- PO5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern Engineering and IT tools, including prediction and modelling to complex engineering activities.
- PO6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, Health, safety, legal, and cultural issues.
- PO7. Environment and sustainability: Understand the impact of the professional engineering solutions in Societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable Development.
- PO8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of The engineering practice.
- PO.9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse Teams, and in multidisciplinary settings.
- PO10. Communication: Communicate effectively on complex engineering activities with the engineering Community and with the society.
- PO11. Project management and finance: An ability to use the modern engineering tools, techniques, skills And management principles to do work as a member and leader in a team, to manage projects in Multidisciplinary environments.
- PO12. Life-long learning: recognition of the need for, and an ability to engage in, to resolve Contemporary issues and acquire lifelong learning.



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Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

ESTD: 2002

| COL | LEGE | | | SHF | RIDEVI | INST | ITUTE | OF E | NGIN | EERIN | G & TI | ECHNO | LOGY | | |
|---------|------|------|------|--------|--------|------|--------|------|---------------------------------------|--------|--------|-------|----------|------|------|
| FACU | JLTY | NAMI | E Mr | . СНЕТ | HAN I | MS | | | | 7 1200 | | | | | |
| В | RANG | CH | ISE | | | | ACA | DEM | IC YE. | AR | | | 2022-20 | 023 | |
| COU | RSE | B.E | S | SEMES | TER | I | п | | SECTI | ON | 5 | | В | | |
| SUBJ | ECT | CON | | ER OR | | | N AND |) | SUBJE | ст со | DE | | 21C | S34 | |
| | | | | | | CC |) & PC | MAP | PING | | | | | | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
| CO1 | 3 | 2 | 1 | | - | 1 | 2 | | - | 4.8 | • | 1 | 3 | 2 | 2 |
| CO2 | 3 | 3 | 1 | | - | - | | • | - | - | - | 1 | 3 | 2 | 2 |
| CO3 | 3 | 2 | 2 | - | - | 1 | - | | 1 | | Y- | 1 | 3 | 2 | 3 |
| CO4 | 3 | 3 | 2 | - | - | - | - | - | · · · · · · · · · · · · · · · · · · · | | - | 1 | 3 | 2 | 3 |
| CO5 | 3 | 2 | 1 | - | - H | | - | - | | - | | 1. | 3 | 2 | 3 |
| AV G | 3 | 2.5 | 1.4 | - | - | 0.4 | - | | - | - | - | 1.0 | 3.0 | 2.0 | 2.6 |
| | | | | | | OVE | RALL | MAPF | ING C | F SUB | JEČT | 1.98 | W. STALL | | |

CO AND PO ATTAINMENT

| | ANDI | UAI | I AIIV. | MICINI | | | | | 90% | | | | | | | |
|------|------|------|---------|--------|--------------------|-----|------|-------|------|------|--------|------|------|------------------|------------------|--------------|
| | CO% | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO ₁ | PSO ₂ | PSO 3 |
| CO1 | 54 | 1.62 | 1.08 | 0.54 | | | 0.54 | | | | | | 0.54 | 1.62 | 1.08 | 1.08 |
| CO2 | 56.5 | 1.69 | 1.69 | 0.56 | | | | | | | | | 0.56 | 1.69 | 1.13 | 1.13 |
| CO3 | 56.9 | 1.70 | 1.13 | 1.13 | | | 0.56 | | | | | | 0.56 | 1.70 | 1.13 | 1.70 |
| CO4 | 59.1 | 1.77 | 1.77 | 1.18 | | | | | | | | ,, | 0.59 | 1.77 | 1.18 | 1.77 |
| CO5 | 59 | 1.77 | 1.18 | 0.59 | | | | | | | | | 0.59 | 1.77 | 1.18 | 1.77 |
| AVEI | RAGE | 1.71 | 1.37 | 0.8 | | | 0.55 | | TIC. | | | | 0.56 | 1.71 | 1.14 | 1.49 |
| | | | | | 集工表 企业主 合作基本 | | FL | NAL A | ATTA | INMI | ENT LI | EVËT | 1.16 | | | |

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

| | SUB: (| Computer Organization | - | Sem:I | | 'A' S | | Γ2 | _ | 2-23 | 100 | ICNM | EV ENT 10 + | | - 20 | | 10 | VTEDA | AT | Ži Subunitari | | FA | | NAME | : Cheth | an M S | |
|-----------------------|--|--------------------------|----|-------|----|------------|--|------|------------|------------|------------------|--|--|------|-------------------|-------------------|---|--|----------------------------------|-------------------|------------------|--|---|---------------|--|---------------|-----|
| Roll | TION | | 1 | 1033 | 4 | T1 | | T | | | | | | | | ann | | XTERN | BEAUTIFICES | | | | | inal | | | TOT |
| No. | USN | Name | T1 | T2 | Т3 | CO1- 20 | CO2- 10 | CO3- | CO4- 10 | CO5- 10 | CO1- | CO2- | CO3- | CO4- | CO5- | SEE (50) | CO1- 10 | CO2- 10 | CO3- | CO4- 10 | CO5- | CO1- | CO2- 26 | CO3- | CO4- 26 | CO5- 26 | AV |
| 1 | 1SV21IS001 | ABDUL HADY | 8 | 7 | 16 | 8 | 4 | 3 | 8 | 8 | 6 | 6 | 6 | 6 | 6 | 18 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 17.6 | 13.6 | 12.6 | 17.6 | 17.6 | 15 |
| 2 | 1SV21IS002 | АВНІЛТН В N | 4 | 6 | 5 | 4 | 3 | 3 | 2 | 3 | 6 | 6 | 6 | 6 | 6 | 25 | 5 | 5 | 5 | 5 | 5 | 15 | 14 | 14 | 13 | 14 | 1 |
| 3 | 1SV21IS003 | ABHISHEK BASAVARAJ ARALI | 14 | 10 | 9 | 14 | 5 | 5 | 5 | 4 | 6 | 6 | 6 | 6 | 6 | 34 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 26.8 | 17.8 | 17.8 | 17.8 | 16.8 | 19 |
| 4 | 1SV21IS004 | DAKSHITH S | 11 | 9 | 12 | 11 | 5 | 4 | 6 | 6 | 6 | . 6 | 6 | 6 | 6 | 20 | 4 | 4 | 4 | 4 | 4 | 21 | 15 | 14 | 16 | 16 | 16 |
| 5 | 1SV21IS005 | DANESHWARI SOMANAGOWDA | 4 | 4 | 6 | 4 | 2 | 2 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 24 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 14.8 | 12.8 | 12.8 | 13.8 | 13.8 | 1. |
| 6 | 1SV21IS006 | DEEKSHA K | 10 | 12 | 9 | 10 | 6 | 6 | 5 | 4 | 6 | 6 | 6 | 6 | 6 | 34 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 22.8 | 18.8 | 18.8 | 17.8 | 16.8 | |
| 7 | 1SV21IS007 | DEEPIKA B M | 8 | 9 | 8 | 8 | 5 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 23 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 18.6 | 15.6 | 14.6 | 14.6 | 14.6 | 1 |
| 8 | 1SV21IS008 | DHISHANTH G PATEL | 13 | 4 | 10 | 13 | 2 | 2 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 26 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 24.2 | 13.2 | 13.2 | 16.2 | 16.2 | 1 |
| 9 | 1SV21IS009 | GAGANA S | 9 | 8 | 13 | 9 | 4 | 4 | 6 | 7 | 6 | 6 | 6 | . 6 | 6 | 38 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 22.6 | 17.6 | 17.6 | 19.6 | 20.6 | 1 |
| 10 | 1SV21IS010 | H M PRAJWAL KUMAR | 10 | 2 | 7 | 10 | 0 | 2 | 4 | 3 | 6 | 6 | 6 | 6 | 6 | 26 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 21.2 | 11.2 | 13.2 | 15.2 | 14.2 | |
| 11 | 1SV21IS011 | HARSHITHA P | 7 | 3 | 9 | 7 | 0 | 3 | 5 | 4 | 6 | 6 | 6 | 6 | 6 | 32 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 19.4 | 12.4 | 15.4 | 17.4 | 16.4 | 1 |
| 12 | 1SV21IS012 | HIMAVANTH K | 5 | 4 | 4 | 5 | 2 | 2 | 2 | 2 | 6 | 6 | 6 | 6 | 6 | 28 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 16.6 | 13.6 | 13.6 | 13.6 | 13.6 | 1 |
| 13 | 1SV21IS013 | KANTHARAJU V T | 4 | 0 | 4 | 4 | 0 | 0 | 2 | 2 | 6 | 6 | 6 | 6 | 6 | 26 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 15.2 | 11.2 | 11.2 | 13.2 | 13.2 | 1 |
| 14 | 1SV21IS014 | KEERTHANA K S | 14 | 16 | 4 | 14 | 8 | 8 | 2 | 2 | 6 | 6 | 6 | 6 | 6 | 35 | 7 | 7 | 7 | 7 | 7 | 27 | 21 | 21 | 15 | 15 | 1 |
| 15 | 1SV21IS015 | KRISHNAMURTHY P G | 11 | 17 | 17 | 11 | 7 | 10 | 10 | 7 | 6 | 6 | 6 | 6 | 6 | 45 | 9 | 9 | 9 | 9 | 9 | 26 | 22 | 25 | 25 | 22 | |
| 16 | 1SV21IS016 | MANOJ R | 6 | 4 | 11 | 6 | 2 | 2 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 18 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 15.6 | 11.6 | 11.6 | 14.6 | 15.6 | 1 |
| 17 | 1SV21IS017 | MANOJ T | 12 | 5 | 7 | 12 | 3 | 2 | 4 | 3 | 6 | 6 | 6 | 6 | 6 | 31 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 24.2 | 15.2 | 14.2 | 16.2 | 15.2 | |
| 18 | 1SV21IS018 | MANOJA S S | 7 | 0 | 4 | 7 | 0 | 0 | 2 | 2 | 6 | 6 | 6 | 6 | 6 | 15 | 3 | 3 | 3 | 3 | 3 | 16 | 9 | 9 | 11 | 11 | 1 |
| 19 | 1SV21IS019 | MARUTHI G N | 0 | 3 | 5 | 0 | 0 | 3 | 0 | 5 | 6 | 6 | 6 | 6 | 6 | 18 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 9.6 | 9.6 | 12.6 | 9.6 | 14.6 | 1 |
| 20 | 1SV21IS021 | NAVYA SHREE K S | 17 | 16 | 16 | 17 | 8 | 8 | 8 | 8 | 6 | 6 | 6 | 6 | 6 | 37 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 30.4 | 21.4 | 21.4 | 21.4 | 21.4 | 2 |
| 21 | 1SV21IS022 | NINGAIAH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 6 | 6 | 6 | 3 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 1 |
| 22 | 1SV21IS023 | NIRNAY K | 3 | 0 | 2 | 3 | 0 | 0 | 0 | 2 | 6 | 6 | 6 | 6 | 6 | 12 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 11.4 | 8.4 | 8.4 | 8.4 | 10.4 | 9 |
| 23 | 1SV21IS024 | PALLAVI D | 8 | 16 | 13 | 8 | 8 | 8 | 7. | 6 | 6 | 6 | 6 | 6 | 6 | 34 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 20.8 | 20.8 | 20.8 | 19.8 | 18.8 | 2 |
| 24 | 1SV21IS025 | RAHUL V | 14 | 12 | 6. | 14 | 6 | 6 | 3 - | 3 | 6 | 6 | 6 | 6 | .6 | 23 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 24.6 | 16.6 | 16.6 | 13.6 | 13.6 | |
| 25 | 1SV21IS026 | RAKSHITHA L | 12 | 16 | 9 | 12 | 8 | 8 | 5 | 4 | 6 | 6 | 6 | 6 | 6 | 38 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 25.6 | 21.6 | 21.6 | 18.6 | 17.6 | |
| 26 | 1SV21IS027 | RANGANATHA G N | 5 | 5 | 4 | 5 | 3 | 2 | 2 | 2 | 6 | 6 | 6 | 6 | 6 | 19 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 14.8 | 12.8 | 11.8 | 11.8 | 11.8 | 1 |
| 27 | 1SV21IS028 | SHREEVATHSA M B | 2 | 4 | 9 | 2 | 2 | 2 | 5 | 4 | 6 | 6 | 6 | 6 | 6 | 36 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 15.2 | 15.2 | 15.2 | 18.2 | 17.2 | 1 |
| 28 | 1SV21IS029 | SOUNDARYA R | 10 | 8 | 11 | 10 | 4 | 4 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 27 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 21.4 | 15.4 | 15.4 | 17.4 | 16.4 | 1 |
| 29 | 1SV21:IS030 | SYED SUHAIL AHAMED | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 6 | 6 | 6 | 6 | 6 | 21 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 18.2 | 10.2 | 10.2 | 10.2 | 10.2 | 1 |
| 30 | 1SV21IS031 | THARUN M S | 3 | 0 | 8 | 3 | 0 | 0 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 25 | 5 | 5 | 5 | 5 | 5 | 14 | 11 | 11 | 15 | 15 | 1 |
| 31 | 1SV21IS032 | THEJASWINI M | 11 | 14 | 13 | 11 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 34 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 23.8 | 19.8 | 19.8 | 18.8 | 19.8 | 2 |
| 32 | 1SV21IS033 | VARSHA K V | 5 | 2 | 4 | 5 | 2 | 0 | 2 | 2 | 6 | 6 | 6 | 6 | 6 | 10 | 2 | 2 | 2 | 2 | 2 | 13 | 10 | 8 | 10 | 10 | 1 |
| 33 | 1SV21IS034 | VARSHINIMEGHA | 7 | 8 | 8 | 7 | 4 | - 4 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 13 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 15.6 | 12.6 | 12.6 | 12.6 | 12.6 | 1 |
| 34 | 1SV21IS035 | VINUTHA H N | 8 | 7 | 11 | 8 | 3 | 4 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 30 | 6 | 6 | 6 | 6 | 6 | 20 | 15 | 16 | 18 | 17 | 1 |
| 35 | 1SV21IS036 | VISHNU R | 9 | 9 | 14 | 9 | 5 | 4 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 31 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 21.2 | 17.2 | 16.2 | 19.2 | 19.2 | 1 |
| 36 | Of a court community of the con- | YASHAS D R | | | | 11 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 33 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 23.6 | 19.6 | 19.6 | 18.6 | 18.6 | |
| | 1SV22IS400 | CHETHAN V | _ | | | 10 | 0 | 2 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 26 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 21.2 | 11.2 | 13.2 | 15.2 | 15.2 | 1 |
| | 1SV22IS401 | HONNESH KUMAR | | | | 8 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 22 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 18.4 | 16.4 | 16.4 | | 16.4 | 1 |
| THE RESERVE | | NAVEEN D R | | | | 11 | 5 | 4 | 8 | 8 | 6 | 6 | 6 | 6 | 6 | 23 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 21.6 | 15.6 | 14.6 | | 18.6 | - |
| | | SWETHA N | | | | 13 | 5 | 5 | 0 | 0 | 6 | 6 | 6 | 6 | 6 | 18 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 22.6 | 14.6 | 14.6 | STATE OF THE PARTY | P9.6 | 1 |
| CHARLEST THE STATE OF | Annual Control of the | | | | | | The second secon | | | | TEACON PROPERTY. | Committee of the Commit | THE RESERVE OF THE PARTY OF THE | | CHEST WITH COLUMN | CONTRACTOR STATES | Maria Carlo | A CONTRACTOR OF THE PARTY OF TH | COLUMN TO A STREET OF THE STREET | CHARLES TO SELECT | IN COLUMN TWO IS | CONTRACTOR STATE OF THE PARTY O | Marie Company of the | ATTACA CANADA | time attendance | 115.33 | |

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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

COURSE OUTCOME

CO1: Define management, organization, entrepreneur, planning, staffing, ERP and outline their importance in entrepreneurship

CO2: Utilize the resources available effectively through ERP

CO3: Make use of IPRs and institutional support in entrepreneurship

PROGRAM OUTCOMES

- PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

- PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.
- PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.
- P06 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
- P07 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10** Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- **PO11** Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.
- PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

| - | | | | | | | | OF ENG | | and a | rech | HOLO | JI | | |
|---------|-------|-------|----------|-------------------|-----|---------|-------|--------------|------|-------|------|------|-------|------|------|
| FACULT | Y NAM | 1E | Mr SU | JTHAN | N R | | | | | | | | | | |
| BRA | NCH | | ISE | | | A | CAD | EMIC Y | YEAR | 10 | | 20: | 22-23 | | |
| COURSE | B. | E | SEM | ESTE | R | v | | SECTIO | ON | | | | | | |
| SUBJECT | Mana | ageme | nt and I | Entrep idustry | | ship fo | or IT | SUBJE | CT C | ODE | | 18 | CS51 | | |
| | | | | | | CO & | PO N | APPIN | G | | | | | 93. | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | 7 PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO: |
| CO1 | | 2 | | | | | | | 2 | | 1 | | | | |
| CO2 | 3 | | | | | | | | 2 | 2 | 2 | 5 | | | |
| CO3 | | | | | | | | 3 | | 2 | 3 | 2 | | | 3 |
| AVERAGE | 3 | 2 | | | | | | 3 | 2 | 2 | 2 | 2 | | | 3 |

| | CO% | PO1 | PO2 | PO3 | PO4 | PO5 | P06 | PO7 | P08 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO ₂ | PSO |
|---------|---------|---------|------|-----|-----|-----|-----|-------|------|------|-------|------|------|------|------------------|------|
| C01 | 60.96 | | 1.22 | | | | | | | 1.22 | | 0.61 | | | | |
| C02 | 67.92 | 2.04 | | | | | | | | 1.36 | 1.36 | 1.36 | | | | |
| C03 | 68.80 | | | | | | | | 2.06 | | 1.38 | 2.06 | 1.38 | | | 2.06 |
| AVERAGE | 65.89 | 2.04 | 1.22 | | | | | | 2.06 | 1.29 | 1.37 | 1.34 | 1.38 | | | 2.06 |
| | aV a AV | ne ny z | | | | | | TINAI | ATT | AINM | ENT L | EVEL | 1.60 | | | |



| | Academic ye | | | | CM V | Tota | al strer | igth: | 13 | Su | bject : N | 1&E (| TS) | 1 | 180 | CS51 | | 1 | | 7 |
|---------|--|---|----------|-----|--------|-----------------|----------|-------|-------|------|-----------|-------|-----|---------|-----|-----------------------------|---------|------------------|---------|-------------------|
| ROLL NO | TICNI | TE | ST 1(30) | TES | T 2(30 | TES | T 3(30 | SNEM | ENT / | QUIZ | | | | tal Cos | | | % 01 | I f individua | 100 | SEE To |
| ROLL NO | | \$ 100 PM 1/1/2 3 Ent (P. O. P. 4 L. 6) | TOTAL | | TOTAL | CO ₃ | ГОТАІ | CO1 | CO2 | CO3 | CO1=20 | CO2 | | CO1=53 | | | | CO2 | | |
| 1 | 1SV20IS001 | 20 | 20 | 13 | 13 | 20 | 20 | 3 | 3 | 4 | 11 | 11 | 11 | 34 | 27 | 35 | | | CO3 | 60M |
| 2 | 1SV20IS002 | 17 | 17 | 26 | 26 | 21 | 21 | 3 | 3 | 4 | 8 | 8 | 7 | | | | | | | |
| 3 | 1SV20IS003 | 26 | 26 | 29 | 29 | 23 | 23 | 3 | 3 | | | | | 28 | 37 | | | 69.8113 | | |
| 4 | 1SV20IS004 | 24 | 24 | 29 | 29 | | | | | 4 | 15 | 15 | 14 | 44 | 47 | 41 | 83.0189 | 88.6792 | 75.9259 | 44 |
| 5 | 1SV20IS005 | 0 | | 1 | 29 | 28 | 28 | 3 | 3 | 4 | 16 | 16 | 15 | 43 | 48 | 47 | 81.1321 | 90.566 | 87.037 | 47 |
| | | | 0 | 1 | 1 | 27 | 27 | 3 | 3 | 4 | 12 | 12 | 11 | 15 | 16 | 42 | 28.3019 | | | A TOTAL PROPERTY. |
| 6 | 1SV20IS006 | 26 | 26 | 24 | 24 | 27 | 27 | 3 | 3 | 4 | 14 | 14 | 15 | 43 | 41 | Constitution and the second | | | | |
| 7 | 1SV20IS008 | 25 | 25 | 25 | 25 | 22 | 22 | 3 | 3 | 4 | 12 | 12 | 12 | 40 | 40 | | | 77.3585 | | |
| 8 | 1SV20IS009 | 7 | 7 | 7 | 7 | 14 | 14 | 3 | 3 | 4 | 13 | 13 | | | | | | 75.4717 | | |
| 9 | 1SV20IS010 | 26 | 26 | 29 | 29 | 29 | 29 | 3 | 3 | | | | 13 | 23 | 23 | | | 43.3962 | | |
| 10 | 1SV20IS011 | 20 | 20 | 29 | 29 | | | | | 4 | 15 | 15 | 15 | 44 | 47 | 48 | 83.0189 | 88.6792 | 88.8889 | 45 |
| 11 | 1SV20IS011 | | | | | 18 | 18 | 3 | 3 | 4 | 10 | 10 | 10 | 33 | 42 | | | 79.2453 | | 30 |
| | The second secon | 17 | 17 | 24 | 24 | 20 | 20 | 3 | 3 | 4 | 10 | 10 | 10 | 30 | 37 | | 56.6038 | | 62.963 | |
| 12 | 1SV20IS013 | 16 | 16 | 23 | 23 | 14 | 14 | 3 | 3 | 4 | 14 | 14 | 14 | 33 | 40 | | | | | 30 |
| 13 | 1SV20IS014 | 0 | 0 | 13 | 13 | 14 | 14 | 3 | 3 | 4 | 7 | 7 | 7 | 10 | | | | - | 59.2593 | 42 |
| | | | | | | | | | | | , | - | | 10 | 23 | | | 43.3962 | | 21 |
| | | | | | | | | | | | | | | | | | 60.9579 | 67.9245 | 68.8034 | 36 |

SUTHAN. A

HOD Dept. of ISE SIET, Tumkur-06

PRINCIPAL SIET. TUMKUR.



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF INFORMATIONSCIENCE AND ENGINEERING

| SUBJECT | DBMS | SUBJECT CODE | 18CS53 | |
|---------|------|--------------|--------|--|
|---------|------|--------------|--------|--|

COURSE OUTCOME

CO1. Identify, analyse and define database objects, enforce integrity constraints on a database using RDBMS.

CO2. Use Structured Query Language (SQL) for database manipulation.

CO3. Design and build simple database systems

CO4. Develop application to interact with databases.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage:Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

P07 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need forsustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

| COLLEGE | | | SH | IRII | DEVI 1 | INSTI | TUTE | OF EN | GINEE | RING & | E TECH | NOLO | GY | | |
|-----------------|---------|---------|-------|-------------|---------|---------|-----------------|-------|-----------|--------|--------|--------|---------|-------|-------|
| FACULTY NAME | Pro | f.Shrut | hi S | | | | | | | | | | | | |
| BRANCH | | ISE | | | ACA | DEM | IIC YE | AR | | | | 2022- | 23 | | |
| COURSE | B.E | | SEMES | STE | R | | V TH | | SECT | ION | | | | | |
| SUBJECT | , | DB | ms. | T | | s | UBJEC | T COD | E | 7 | | 18CS5 | 33 | | |
| CO & PO MA | APPIN | \G | | | | | | | | | | | | | |
| | PO 1 | PO 2 | PO3 | P O 4 | PO 5 | PO 6 | PO7 | PO8 | PO9 | PO1 0 | PO1 1 | PO1 2 | PSO 1 | PSO 2 | PSO 3 |
| CO1 | 2 | 2 | 2 | - Sell | 2 | | | | | | | 2 | 1 | 1 | 1 |
| C02 | 2 | 3 | 3 | - | 2 | - | 1 | | | - | | 2 | 1 | | 1 |
| C03 | 3 | 3 | 3 | • | 3 | | | | 4 | | | 2 | | 2 | 1 |
| C04 | 3 | 3 | 3 | - | 3 | | | _ | - AND 200 | | | 2 | 1 | | 2 |
| AVG | 2.5 | 2.75 | 2.75 | | 2.5 | - | - T | | | | 7 | 2 | 1 | 1 | 1.25 |
| | | | | | | | 1.36 | | | OVER | RALL M | IAPPIN | G OF SU | ВЈЕСТ | 1.31 |

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| | CO% | P01 | P02 | PO3 | P O | P05 | P O | P | P O | P O | 2.00 | P | P012 | PSO1 | PSO2 | PSO3 |
|-------------|-------|------|------|------|--------|------|--------|---|--------|--------|------|-----|-------|---------|--------|--------|
| CO1 | 57.75 | 1.15 | 1.15 | 1.15 | - | 1.15 | - | 7 | 8 | 9 | 10 | -11 | 1.15 | 0.5775 | 0.5775 | 0.5775 |
| CO2 | 65.05 | 1.30 | 1.95 | 1.95 | | 1.30 | | | | - | • | - | 1.30 | 0.65 | | 0.65 |
| C03 | 68.19 | 2.04 | 2.04 | 2.04 | | 2.04 | | | | | | | 1.36 | | 1.36 | 0.6689 |
| CO4 | 60.20 | 1.80 | 1.80 | 1.80 | | 1.80 | | | | | | | 1.20 | 0.60 | | 1.20 |
| AVER AGE | 48.29 | 1.57 | 1.73 | 0.73 | | 1.57 | | | | • | - | - | 1.25 | 0.60 | 0.96 | 0.77 |
| | | | | | | | | | | | F | INA | L ATT | AINMENT | LEVEL | 1.14 |

| SEM: C: Cal | A TES | T 1(30M | TES | Γ 2(30N | IA T | EST 3 | (30M) | ASS | IGNEM | IENT (1 | 0 M) | S | EE MA | RKS(60 |) | To | otal Cos Al | TAINME | NT | | % of indi | vidual CO | | SEE Tot |
|-------------|--------|-------------------|-----|---------|------|-------|-----------|-----------|-------|--------------|--------|--------|-------|--------|------|--------|-------------|--------|------------------|----------|-----------|-----------|----------|-----------|
| USN | | | | | | CO4 | TOTAL | CO1=3 | CO2=2 | CO3=3 | CO4=2 | CO1=12 | CO2 | CO3 | CO4 | CO1=45 | CO2=44 | CO3=30 | CO4=29 | CO1 | CO2 | CO3 | CO4 | |
| 1SV20IS001 | 21 | 21 | 14 | 14 | 9 | 11 | 20 | 3 | 2 | 3 | 2 | 3 . | 3 | 3 | 3 | 27 | 19 | 15 | 16 | 60 | 43.18182 | 50 | 55.17241 | 12 |
| 1SV20IS002 | 13 | 13 | 25 | 25 | 14 | 0 | 14 | 3 | 2 | 3 | 2 | 9 | 9 | 9 | 9 | 25 | 36 | 26 | 11 | 55.55556 | 81.81818 | 86.66667 | 37.93103 | 36 |
| 1SV20IS003 | 19 | 19 | 26 | 26 | 9 | 10 | 19 | 3 | 2 | 3 | 2 | 7.25 | 7.25 | 7.25 | 7.25 | 29.25 | 35.25 | 19.25 | 19.25 | 65 | 80.11364 | 64.16667 | 66.37931 | 29 |
| 1SV20IS004 | 29 | 29 | 25 | 25 | 12 | 15 | 27 | 3 | 2 | 3 | 2 | 8.5 | 8.5 | 8.5 | 8.5 | 40.5 | 35.5 | 23.5 | 25.5 | 90 | 80.68182 | 78.33333 | 87.93103 | 34 |
| 1SV20IS005 | 1 | 1 | 18 | 18 | 9 | 4 | 13 | 3 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 4 | 20 | 12 | 6 | 8.888889 | 45.45455 | 40 | 20.68966 | (|
| 1SV20IS006 | 7 | 7 | 25 | 25 | 11 | 15 | 26 | 3 | 2 | 3 | 2 | 7.5 | 7.5 | 7.5 | 7.5 | 17.5 | 34.5 | 21.5 | 24.5 | 38.88889 | 78.40909 | 71.66667 | 84.48276 | 30 |
| 1SV20IS008 | 21 | 21 | 0 | 0 | 14 | 15 | 29 | 3 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 24 | 2 | 17 | 17 | 53.33333 | 4.545455 | 56.66667 | 58.62069 | (|
| 1SV20IS009 | 3 | 3 | 23 | 23 | 12 | 11 | 23 | 3 | 3 | 3 | 2 | 0.25 | 0.25 | 0.25 | 0.25 | 6.25 | 26.25 | 15.25 | 13.25 | 13.88889 | 59.65909 | 50.83333 | 45.68966 | 1 |
| 1SV20IS010 | 25 | 25 | 26 | 26 | 14 | 12 | 26 | 3 | 2 | 3 | 2 | 8.5 | 8.5 | 8.5 | 8.5 | 36.5 | 36.5 | 25.5 | 22.5 | 81.11111 | 82.95455 | 85 | 77.58621 | 34 |
| 1SV20IS011 | 24 | 24 | 25 | 25 | 14 | 13 | 27 | 3 | 2 | 3 | 2 | 5.75 | 5.75 | 5.75 | 5.75 | 32.75 | 32.75 | 22.75 | 20.75 | 72.77778 | 74.43182 | 75.83333 | 71.55172 | 23 |
| 1SV20IS012 | 7 | 7 | 14 | 14 | 10 | 8 | 18 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 13 | 19 | 16 | 13 | 28.88889 | 43.18182 | 53.33333 | 44.82759 | 12 |
| 1SV20IS013 | 14 | 14 | 25 | 25 | 8 | 5 | 13 | 3 | 2 | 3 | 2 | 2.75 | 2.75 | 2.75 | 2.75 | 19.75 | 29.75 | 13.75 | 9.75 | 43.88889 | 67.61364 | 45.83333 | 33.62069 | 13 |
| 1SV20IS014 | 0 | 0 | 14 | 14 | 14 | 8 | 22 | 3 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 4 | . 17 | 18 | 11 | 8.888889 | 38.63636 | 60 | 37.93103 | |
| | | 100 No. 150 | | 167, 30 | | 100 | | | | | | | | | | | | | | 621.1111 | 780.6818 | 818.3333 | 722.4138 | |
| | | | | | | 100 | | | | | | | | | | | | | | 12 | 12 | 12 | 12 | Barrier V |
| | 100000 | o (Artilla Villa) | | 011103 | | | 2.0000.35 | San Siles | | Part of Alex | 100000 | 1000 | | | | | | | port of the same | 51.75926 | 65.05682 | 68.19444 | 60.20115 | |

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PRINCIPAL SIET. TUMKUR.



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

| SUBJECT | APPLICATION DEVELOPMENT USING | SUBJECT CODE | 18CS55 |
|---------|-------------------------------|--------------|--------|
| SCHOLCI | PYTHON | SCECECT CODE | 100000 |

COURSE OUTCOME

- CO1. Demonstrate proficiency in handling of loops and creation of functions.
- CO2. Identify the methods to create and manipulate lists, tuples and dictionaries.
- **CO3.** Discover the commonly used operations involving regular expressions and file system.
- CO4. Interpret the concepts of Object-Oriented Programming as used in Python
- CO5. Determine the need for scraping websites and working with CSV, JSON and other file formats.

PROGRAM OUTCOMES

- **PO1** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO3** Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
- **PO4** Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.
- **PO5** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.
- **PO6** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
- **PO7** Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10** Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- **PO11** Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.
- **PO12** Life-long learning: recognition of the need for, and an ability to engage in, to resolve Contemporary issues and acquire lifelong learning.

| FACUL NAMI | | M | r. REN | NUKA | RAD | НҮА | P.C | 272 | | | | | | | |
|---------------|---------|------|--------|------|------|------|-------|-------|--------------|--------|------------|------|--------|------|------|
| BRANC | CH | | IS | SE | | AC | CADE | MIC Y | YEAF | | | 2 | 022-23 | | |
| COURSE | B.1 | E | SEME | STE | 2 | 11/1 | | * | | | V | | | | |
| SUBJECT | AP | | TION | | | PME | TI | | BJEC' ODE | Г | | 1 | 8CS55 | | |
| CO & PO M | IAPP | PING | 110 | | | | | | | sand A | | | | | |
| | PO 1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
| CO1 | 3 | 2 - | 2 | 2 | 1 | | 1 | | 1 | | | 2 | 3 | 1 | |
| CO2 | 3 | 2 | 2 | 3 | 1 | 2 | | 2 | | 2 | 1 | 2 | 1 | | 2 |
| CO3 | 3 | 2 | 2 | 2 | | 1 | | 3 | 2 | . 1 | | 2 | 3 | 1 | 1 |
| CO4 | 3 | 2 | 1 | 2 | 1 | 1 | 3 | | | 2 | | 1 | 2 | | 2 |
| CO5 | 3 | 2 | 3 | 3 | 2 | | 1 | | 1 | 2 | 3 | | 1 | | 3 |
| AVERAG | E | 2 | 2 | 2.4 | 1.25 | 1.33 | 1.33 | 2.5 | 1.33 | 1.75 | 2 | 1.75 | 2 | 1 | 2 |
| | | | 111 | | ov | ERAI | LL MA | APPIN | NG O | F SUB. | ЕСТ | | 1. | 90 | |

CO AND PO ATTAINMENT

| | CO % | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
|------|---------|------|------|------|------|------|------|-------|------|------|-------|----------|------|------|------|------|
| CO1 | 35.97 | 1.07 | 0.71 | 0.71 | 0.71 | 0.35 | | 0.35 | | 0.35 | | The same | 0.71 | 1.07 | 0.35 | |
| CO2 | 54.55 | 1.63 | 1.09 | 1.09 | 1.63 | 0.54 | 1.09 | | 1.09 | | 1.09 | 0.54 | 1.09 | 0.54 | | 1.09 |
| CO3 | 56.39 | 1.69 | 1.12 | 1.12 | 1.12 | | 0.56 | | 1.69 | 1.12 | 0.56 | | 1.12 | 1.69 | 0.56 | 1.12 |
| CO4 | 55.47 | 1.66 | 1.10 | 0.55 | 1.10 | 0.55 | 0.55 | 1.66 | et e | | 1.10 | | 1.10 | 1.10 | | 0.55 |
| CO5 | 65.58 | 1.96 | 1.31 | 1.96 | 1.96 | 1.31 | | 0.65 | | 0.65 | 1.31 | 1.96 | | 0.65 | | 1.96 |
| AVEI | RAGE | 1.60 | 1.06 | 1.06 | 1.28 | 0.66 | 0.71 | 0.71 | 1.29 | 0.71 | 0.93 | 1.06 | 0.93 | 0.93 | 0.53 | 1.06 |
| | | | | | 1 | | FI | NAL A | ATTA | INME | NT LI | EVEL | | 0.89 | | |

SUBJECT BIG DATA ANALYTICS STAFF RENUKARADHYA P C 18CS72

| | | | IA TE | ST 1 | | IA TES | ST II | | IA TES | T III | | | | SEE | | | | | Final | | | A | SSIG | NME | NT 10 | /5 |
|-------------|------------|----------------------|------------|-------|------------|--------|-------|------------|------------|-------|-----|------------|------|------|------|------|------------|------------|------------|------------|---------|--------|-----------|-----------|-----------|-----|
| Roll No. | USN | Name | CO1 =40 | Total | CO2= 20 | CO3= | Total | CO4= 20 | CO5= 20 | Total | SEE | CO1- 12 | CO2= | CO3= | CO4= | CO5= | CO1- 54 | CO2- 34 | CO3- 34 | CO4- 34 | CO5= 34 | CO1 =2 | CO2 =2 | CO3 =2 | CO4 =2 | CO5 |
| 1 | 1SV20IS001 | BHAVANA S | 36 | 36 | 18 | 18 | 36 | 17 | 17 | 18 | 46 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 | 30.6 | 30.6 | 30.6 | 30.6 | 29.6 | 2 | 2 | 2 | 2 | 2 |
| 2 | 1SV20IS002 | DARSHAN NAYAK B M | 32 | 32 | 18 | 18 | 36 | 19 | 19 | 38 | 52 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 28.77 | 24.77 | 28.77 | 28.77 | 29.77 | 2 | 2 | 2 | 2 | 2 |
| 3 | 1SV20IS003 | DEEPA R ARADHYA MATA | 0 | 0 | | | 0 | 100 | | 0 | 69 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 2 | 2 | 2 | 2 | 2 |
| 4 | 1SV20IS004 | DHAVALASHREE B JAIN | 40 | 40 | 20 | 14 | 34 | 10 | 18 | 28 | 76 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 31.93 | | 31.93 | | 21.93 | 2 | 2 | 2 | 2 | 2 |
| 5 | 1SV20IS005 | HEMANTH SANGAM M | 36 | 36 | 16 | 16 | 32 | 19 | 19 | 38 | 23 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 35.6 | 31.6 | 31.6 | 31.6 | 34.6 | 2 | 2 | 2 | 2 | 2 |
| 6 | 1SV20IS006 | KEERTHANA N | -31 | 31 | 20 | 20 | 40 | 20 | 20 | 40 | 42 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 29.6 | 26.6 | 32.6 | 32.6 | 32.6 | 2 | 2 | 2 | 2 | 2 |
| 7 | 1SV20IS008 | NETHRAVATHI K E | 25 | 25 | 18 | 20 | 38 | 20 | 20 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 26.27 | 23.27 | 30.27 | 32.27 | 32.27 | 2 | 2 | 2 | 2 | 2 |
| 8 | 1SV20IS009 | NITHIN D G | 0 | 0 | 5 | 5 | 10 | 16 | 16 | 32 | 33 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 11.6 | 11.6 | 22.6 | 2 | 2 | 2 | 2 | 2 |
| 9 | 1SV20IS010 | REKHA | 15 | 15 | 0 | 0 | 0 | 16 | 16 | 32 | 61 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | | 20.93 | | | 28.93 | 2 | 2 | 2 | 2 | 2 |
| 10 | 1SV20IS011 | REVATHI P O | 27 | 27 | 12 | 12 | 24 | 17 | 17 | 34 | 65 | 13 | 13 | 13 | 13 | 13 | 25.1 | 22.1 | 22.1 | 22.1 | 27.1 | 2 | 2 | 2 | 2 | 2 |
| 11 | 1SV20IS012 | SHESHADRI T | 4 | 4 | 0 | 0 | 0 | 20 | 20 | 40 | 66 | 13.2 | 13.2 | 13.2 | 13.2 | 13.2 | | | | | 25.93 | 2 | 2 | 2 | 2 | 2 |
| 12 | 1SV20IS013 | SUDEEP R V S | 32 | 32 | 16 | 15 | 31 | 18 | 18 | 36 | 40 | 8 | 8 | 8 | 8 | 8 | 30.27 | 32.27 | | | 33.27 | 2 | 2 | 2 | 2 | 2 |
| 13 | 1SV20IS014 | THOUHID J K | 40 | 40 | 19 | 19 | 38 | 20 | 20 | 40 | 23 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 36.6 | 36.6 | | 35.6 | 36.6 | 2 | 2 | 2 | 2 | 2 |
| | 1 | | | | | | | | | | | | | | DED | AVG | | 18.55 | | 18.86 | 22.3 | | | | | |
| | | | | | | | | | | | | | | | PER | CENT | 35.97 | 54.56 | 56.40 | 55.48 | 65.59 | | | | | |

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Information Science
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SIET, TUMAKURU-572106

PRINCIPAL SIET. TUMKUR.

| FACULTY N | | \neg | | | OF EN | | | | ECII | TOLO | | | | | |
|----------------|-------------|---------|---------|-------|----------|---------|-----|-------|---------|----------|----------|--------|----------|-------|------|
| BRANC | | | IS | | | | | IC YE | CAR | | 2022- | 23 | | | |
| PROGRAM | B.1 | E S | EMES | TER | V | 7 | | TIO | | | | A [ISI | E] | | |
| COURSE NAME | | UN | NIX P | ROGR | RAMM | ING | | C | CODI | | | • | 18CS5 | 6 | |
| CO & PO MA | PPIN | NG | | | | | | | | | | | | | |
| | P O 1 | PO2 | PO 3 | PO4 | PO5 | PO 6 | PO7 | PO8 | PO 9 | PO1 0 | PO1 1 | PO1 2 | PSO 1 | PSO 2 | PSO3 |
| CO1 | 3 | 3 | 2 | 2 | 2 | | | | | | 3 | 1 | | | |
| CO2 | 3 | 3 | 2 | 2 | 1 | 2 | | | | | 2 | 1 | 2 | 1 | |
| CO3 | 3 | 3 | 3 | 2 | 2 | | | | | | | 1 | 1 | | |
| CO4 | 3 | 3 | 3 | 3 | 2 | | | 1 | 3 | | 3 | 3 | 3 | 2 | |
| AVERAGE | 3 . 0 | 3. 0 | 2. 5 | 2.2 5 | 1.7 5 | 2. 0 | | 1.0 | 3. 0 | | 2.6 | 1.5 | 2.0 | 1.5 | |
| | | | | | | | | | OV | ERAL | L MAP | PING | OF CO | URSE | 2.1 |

CO AND PO ATTAINMENT

| | CO% | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
|---------|------|-----|-----|------|-----|------|-----|----------|-----|-----|------|------|------|--------|------|------|
| CO1 | 49.7 | 1.5 | 1.5 | 1.0 | 1.0 | 1.0 | | | | | | 1.5 | 1.0 | | | |
| CO2 | 53.7 | 1.6 | 1.6 | 1.1 | 1.1 | 0.5 | 1.1 | | | | | 1.1 | 0.5 | 1.1 | 0.5 | |
| CO3 | 56.3 | 1.7 | 1.7 | 1.7 | 1.1 | 1.1 | | | | | | | 0.6 | 0.6 | | |
| CO4 | 52.1 | 1.6 | 1.6 | 1.6 | 1.6 | 1.0 | | | 0.5 | 1.6 | | 1.6 | 1.6 | 1.6 | 1.0 | |
| AVERAGE | | 1.6 | 1.6 | 1.35 | 1.2 | 1.13 | | | 0.5 | 1.6 | | 1.4 | 0.93 | 1.1 | 0.75 | |
| | | | | | | | | 1 | | F | INAL | ATTA | INME | ENT LI | EVEL | 1.19 |

On Thursday Every CV ERRE 8615E

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COSPOS ATTAINMENT

ACADEMIC YEAR -2022-23[ODD SEM]

CLASS:5TH SEM CSE Course Name: Unix Programming [18CS56]

| | | P CONTRACTOR OF THE PROPERTY O | IA TE | ST 1 | IA TI | EST II | IA TE | ST III | Δ. | ssignm | ent[1 | 0/41 | | | SEE | [60] | | | Final | CO.s | |
|-------------|------------|--|-------|------|-------|--------|-------|--------|----|--------|-------|------|-------------|-----|-----|------|-----------|--------|--------|------|-----|
| Roll No. | USN | Name | | | 100 | CO3 | | | | - | - | - | SEE[60] | CO1 | CO2 | CO3 | CO4 15 | CO1 32 | CO2 47 | CO3 | CO4 |
| 1 | 1SV20IS001 | BHAVANA S | 10 | 10 | 4 | 4 | 9 | 9 | 2 | 2 | 3 | 3 | 25 | 6 | 6 | 6 | 7 | 18 | 22 | 13 | 28 |
| 2 | 1SV20IS002 | DARSHAN NAYAK B M | 10 | 7 | 8 | 8 | 12 | 12 | 2 | 2 | 3 | 3 | 37 | 10 | 9 | 9 | 9 | 22 | 26 | 20 | 36 |
| 3 | 1SV20IS003 | DEEPA R ARADHYA | 11 | 11 | 12 | 12 | 10 | 9 | 2 | 2 | 3 | 3 | 43 | 10 | 11 | 11 | 11 | 23 | 36 | 26 | 33 |
| 4 | 1SV20IS004 | DHAVALASHREE B JAIN | 15 | 14 | 12 | 12 | 10 | 10 | 2 | 2 | 3 | 3 | 26 | 6 | 6 | 7 | 7 | 23 | 34 | 22 | 30 |
| 5 | 1SV20IS005 | HEMANTH SANGAM M | 0 | 0 | 12 | 11 | 4 | 4 | 2 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 14 | 14 | 11 |
| 6 | 1SV20IS006 | KEERTHANA N | 12 | 11 | 9 | 9 | 5 | 4 | 2 | 2 | 3 | 3 | 26 | 7 | 7 | 6 | 6 | 21 | 29 | 18 | 18 |
| 7 | 1SV20IS008 | NETHRAVATHI K E | 0 | 0 | 9 | 8 | 14 | 13 | 2 | 2 | 3 | 3 | AB | AB | AB | AB | AB | 0 | 0 | 0 | 0 |
| 8 | 1SV20IS009 | NITHIN D G | 4 | 4 | 13 | 13 | 6 | 5 | 2 | 2 | 3 | 3 | 17 | 4 | 4 | 4 | 5 | 10 | 23 | 20 | 19 |
| 9 | 1SV20IS010 | REKHA | 10 | .11 | 10 | 9 | 10 | 10 | 2 | 2 | 3 | 3 | 31 | 8 | 8 | 8 | 7 | 20 | 31 | 20 | 30 |
| 10 | 1SV20IS011 | REVATHI P O | 13 | 13 | 12 | 13 | 8 | 7 | 2 | 2 | 3 | 3 | 24 | 6 | 6 | 6 | 6 | 21 | 33 | 22 | 24 |
| 11 | 1SV20IS012 | SHESHADRI T | 5 | 5 | 7 | 7 | 6 | 6 | 2 | 2 | 3 | 3 | 12 | 3 | 3 | 3 | 3 | 10 | 17 | 13 | 18 |
| 12 | 1SV20IS013 | SUDEEP R V S | 7 | 7 | 4 | 5 | 10 | 10 | 2 | 2 | 3 | 3 | 33 | 8 | 8 | 8 | 9 | 17 | 21 | 16 | 32 |
| 13 | 1SV20IS014 | THOUHID J K | 0 | 0 | 13 | 14 | 8 | 8 | 2 | 2 | 3 | 3 | 8 | 2 | 2 | 2 | 2 | 4 | 17 | 19 | 21 |
| | | | | | | | | | | | | | | | | | | 15.9 | 25.3 | 18.6 | 25 |
| | | | | | | | | | | | | | | | | | | 12 | 12 | 12 | 12 |

| Individ |
|---------|
| Individ |
| ual |
| student |
| 48 |
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Dept of ISE SIET, Tumkur-06.

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49.7 53.7 56.3 52.1

| COLLEGE | | SHI | RIDEV | INSTITU | TE | OF ENGINEER | RING | & TECHNO | DLOGY |
|---------|------------|------------------|--------|------------|----|-------------|------|----------|---------|
| FACULTY | NAME | Mrs KOTRA | MMA | MATHAD | A | | | | |
| | BR | ANCH | ISE | | | ACADI | EMIC | YEAR | 2022-23 |
| COURSE | B.E | SEMEST | ER | VII | | SECTION | | | В |
| SUBJECT | Artificial | Intelligence and | d Mach | ine Learni | ng | SUBJECT CO | DDE | - | 18CS71 |

| CO No. | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO1 0 | PO1 | PO12 | PSO1 | PSO 2 | PSO 3 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-----|------|------|----------|----------|
| CO1 | 2 | 1 | 1 | - | 1 | - | - | - | - | - | - | 1 | 2 | - | - |
| CO2 | 2 | 2 | 1 | - | 1 | - | - | - | - | • | - | 1 | 2 | • | - |
| CO3 | 2 | 2 | 1 | - | 1 | - | - | - | - | - | - | 1 | 2 | | - |
| Avg | 2 | 1.8 | 1 | - | 1 | - | - | - | - | - | - | 1 | 2 | - | - |

| CO No. | AVG | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO |
|-----------|-------|------|------|------|-----|------|-----|-----|-----|-----|------|------|------|------|------|-----|
| CO1 | 50.43 | 1 | 0.5 | 0.5 | | 0.5 | • | • | ŀ | | - | - | 0.5 | 1 | - | • |
| CO2 | 69.47 | 1.38 | 1.38 | 0.69 | - | 0.69 | - | - | - | - | - | - | 0.69 | 1.38 | - | - |
| CO3 | 73.74 | 1.47 | 1.47 | 0.73 | - | 0.73 | - | - | - | - | - | - | 0.73 | 1.47 | - | - |
| Avg | | 1.28 | 1.11 | 0.64 | - | 0.64 | | | - | | | - | 0.64 | 1.11 | - | |

STAFF INCHARGE

COMPUTER SCIENCE & ENGG., SIET, TUMAKURU-66.

PRINCIPAL SIET., TUMAKURU

| | | | 18CS71 | | 2022-2 | 23 ODD | VII SE | M B SECTIO | N ISE | | | PROF. KO | TRAMMA N | ATHADA | | | | | |
|------|------------------|-------------------------|--------|----|--|--------|--------|--|-------|---------|-----|----------|----------|--------|------|----------|----------|----------|----------|
| Roll | USN | Name | | | The second secon | T1 | T2 | T3 | | IGNMENT | | 60 MARKS | | SEE | | | Final | | |
| No. | | | T1 | T2 | Т3 | CO1-30 | CO2-30 | CO3-30 | CO1 | CO2 | CO3 | SIE | CO1 | CO2 | CO3 | CO1=53 | CO2 | CO3 | |
| - 1 | | YASHASWINI K N | 26 | 25 | 27 | | | 27 | 3 | 3 | 4 | 48 | 16 | 16 | 16 | 45 | 44 | 47 | 45.33333 |
| 2 | | ABHISHEK V | 22 | 19 | 30 | 22 | 19 | 30 | 3 | 3 | 4 | 4 33 | 11 | 11 | 11 | 25 | 33 | 45 | 34.33333 |
| 3 | 1SV19IS002 | BSCHAITHRA | 25 | 24 | 29 | 25 | 24 | 29 | 3 | 3 | 4 | 4 35 | 11.7 | 11.7 | 11.7 | 28 | 38.7 | 44.7 | 37.13333 |
| 4 | 1SV19IS003 | BINDUSHREE T N | 26 | 27 | 28 | | | Annual Control of the | 3 | 3 | 4 | 44 | 14.7 | 14.7 | 14.7 | 29 | 44.7 | 46.7 | 40.13333 |
| 5 | 1SV19IS005 | H RANJITHA | 24 | 26 | 26 | | | 26 | 3 | 3 | 4 | 1 15 | 5 | 5 | 5 | 27 | 34 | 35 | 32 |
| 6 | 1SV19IS006 | HAMEEDA BANU | 25 | 22 | 26 | 25 | 22 | 26 | 3 | 3 | 4 | 4 35 | 11.7 | 11.7 | 11.7 | 28 | 36.7 | 41.7 | 35.46667 |
| 7 | 1SV19IS007 | JOSHNI P S | 26 | 23 | 25 | 26 | 23 | 25 | 3 | 3 | 4 | 4 30 | 10 | 10 | 10 | 29 | 36 | 39 | 34.66667 |
| 8 | 1SV19IS008 | MAMATHASHREE H | 29 | 15 | 15 | 29 | 15 | 15 | 3 | 3 | 4 | 4 27 | 9 | 9 | 9 | 32 | 27 | 28 | 29 |
| 9 | 1SV19IS009 | MD ASIF HUSSAIN | 21 | 24 | 30 | 21 | 24 | 30 | 3 | 3 | | 4 33 | 11 | 11 | 11 | 24 | 38 | 45 | 35.66667 |
| 10 | 1SV19IS010 | MUSKAN W | 25 | 29 | 29 | 25 | 29 | 29 | 3 | 3 | 4 | 4 35 | 11.7 | 11.7 | 11.7 | 28 | 43.7 | 44.7 | 38.8 |
| 11 | 1SV19IS011 | NISHMA M N | 26 | 24 | 21 | 26 | 24 | 21 | 3 | 3 | - 4 | 1 34 | 11.3 | 11.3 | 11.3 | 29 | 38.3 | 36.3 | 34.53333 |
| 12 | 1SV19IS012 | PRIYA AGADI | 29 | 29 | 30 | 29 | 29 | 30 | 3 | 3 | 4 | 4 43 | 14.3 | 14.3 | 14.3 | 32 | 46.3 | 48.3 | 42.2 |
| 13 | 1SV19IS013 | RAVITEJA S | 30 | 29 | 30 | 30 | 29 | 30 | 3 | 3 | 4 | 4 36 | 12 | 12 | 12 | 33 | 44 | 46 | 41 |
| 14 | 1SV19IS014 | SAHANA Y GOWDA | 16 | 24 | 15 | 16 | 24 | 15 | 3 | 3 | | 1 15 | 5 | 5 | 5 | 19 | 32 | 24 | 25 |
| 15 | 1SV19IS015 | SAI PAVAN | 21 | 15 | 15 | 21 | 15 | 15 | 3 | 3 | 4 | 4 30 | 10 | 10 | 10 | 24 | 28 | 29 | 27 |
| 16 | 1SV19IS016 | SHIVAKUMAR B C | 17 | 23 | 29 | 17 | 23 | 29 | 3 | 3 | | 4 0 | 0 | 0 | 0 | 20 | 26 | 33 | 26.33333 |
| 17 | 1SV19IS017 | SHREEDHARA GANACHARI | 18 | 24 | 30 | | | 30 | 3 | 3 | | 4 38 | 12.7 | 12.7 | 12.7 | 21 | 39.7 | 46.7 | 35.8 |
| 18 | 1SV19IS018 | SINCHANA K M | 17 | 25 | 21 | 17 | 25 | 21 | 3 | 3 | 4 | 4 22 | 7.3 | 7.3 | 7.3 | 20 | 35.3 | 32.3 | 29.2 |
| 19 | 1SV19IS019 | SINDHUSHREE K O | 26 | 26 | 30 | 26 | 26 | 30 | 3 | 3 | | 4 42 | 14 | 14 | 14 | 29 | 43 | 48 | 40 |
| 20 | 1SV19IS020 | SNEHA H T | 13 | 21 | 26 | 13 | 21 | 26 | 3 | 3 | - 4 | 1 29 | 9.7 | 9.7 | 9.7 | 16 | 33.7 | 39.7 | 29.8 |
| 21 | 1SV19IS022 | THANMAYI P | 25 | 26 | 30 | 25 | 26 | 30 | 3 | 3 | 4 | 1 35 | 11.7 | 11.7 | 11.7 | 28 | 40.7 | 45.7 | 38.13333 |
| 22 | 1SV19IS023 | THANUJA M | 25 | 26 | 30 | 25 | 26 | 30 | 3 | 3 | 4 | 1 39 | 13 | 13 | 13 | 28 | 42 | 47 | 39 |
| 23 | 1SV19IS024 | VAISHNAVICS | 23 | 24 | 24 | 23 | 24 | 24 | 3 | 3 | - 4 | 1 21 | 7 | 7 | 7 | 26 | 34 | 35 | 31.66667 |
| 24 | 1SV19IS025 | VARSHITHA R | 21 | 23 | 17 | 21 | 23 | 17 | 3 | 3 | - | 1 28 | 9.3 | 9.3 | 9.3 | 24 | 35.3 | 30.3 | 29.86667 |
| 25 | 1SV19IS026 | VENKATESH M KAMBLE | 23 | 21 | 30 | 23 | 21 | 30 | 3 | 3 | 4 | 1 9 | 3 | 3 | 3 | 26 | 27 | 37 | 30 |
| 26 | 1SV19IS027 | VINAY KUMAR K S | 22 | 23 | 26 | 22 | 23 | 26 | 3 | 3 | | 31 | 10.3 | 10.3 | 10.3 | 25 | 36.3 | 40.3 | 33.86667 |
| | Total students=2 | 26 | | | | | | | | | | | | | | 26.73077 | 36.82308 | 39.82308 | |

(Kotoramma Mathada)

HOD Dept. of ISE SIET, Tumkur-06.

PRINCIPAL SIET. TUMKUR.



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY SIRA ROAD, TUMKUR- 572 106

CourseOutcomes&CO-PO-PSOMappingandJustification

| Subject | BigDataandAnalytics | 18CS72 |
|-------------|--|--------------------|
| COURSEOUTCO | MES: | |
| CONo. | Oncompletionofthiscourse, students will be able to: | Cognitive Level |
| 18CS72.1 | UnderstandfundamentalsofBigDataanalytics. | L2 |
| 18CS72.2 | UnderstandHadoopframeworkandHadoopDistributedFilesystem. | L2 |
| 18CS72.3 | IllustratetheconceptsofNoSQLusingMongoDBandCassandraforBig Data. | L2 |
| 18CS72.4 | DemonstratetheMapReduceprogrammingmodeltoprocessthebigdataalong with Hadooptools. | L2 |
| 18CS72.5 | ApplymachineLearningalgorithmsforrealworldbigdata.,webcontents. andSocialNetworkstoprovideanalyticswithrelevantvisualizationtools. | L3 |

| | Dept of ISE, SIET - Program Specific Outcome PSO |
|------|---|
| PSO1 | |
| PSO2 | To manage complex IT projects with consideration of the human, financial, ethical and environmental factors and an understanding of risk management processes, and operational and policy implications. |
| PSO3 | Acquaint module knowledge on emerging trends of the modern era in Computer Science and Engineering |

CO-PO-PSOMAPPING

| CONo. | PO1 | PO2 | РО3 | P04 | P05 | P06 | P07 | P08 | P09 | PO10 | P011 | P012 | PSO1 | PSO2 | PSO3 |
|-----------------|-----|-----|------|-------|------------|-----|-----|-----|-----|------|------|------|------|------|------|
| 18CS72.1 | 2 | - | - | 1 | - | - | • | - | - | - | - | 1 | 1 | 1 | 1 |
| 18CS72.2 | 2 | - | 1 | 1 | u - | - | - | • | - | - | - | 1 | 1 | - | - |
| 18CS72.3 | 2 | • | 2 | 1 | - | - | - | - | | - | - | 1 | . 1 | | - |
| 18CS72.4 | 2 | 1 | 2 | 1 | | • | • | • | • | - | - | 1 | 1 | - | 1 |
| 18CS72.5 | 2 | 2 | 2 | 1 | - | • | | - | • | - | | 1 | 1 | - | 1 |
| Avg. Mapping | 2.0 | 1.5 | 1.75 | . 1.0 | - | - | - | - | - | - | • | 1.0 | 1.0 | 0.2 | 0.6 |

Course Coordinator Dr Dinesha H A

| SEM: VII,SEC:B | | IA T | EST 1 | | L | A TES | T 2 | L | A TES | ST 3 | | assig | nme | nt=10 | /5 | | | | | | CIT | D DD | | | | | |
|----------------|-----|--------|-------|-----|-----|-------|-----|-----|-------|----------|-----|-------|-----|-------|----|-----|-----|------|-----|-----|-------|-------------|-----|--------------|-------|------|------|
| USN | C01 | CO2 | CO3 | TOT | CO2 | CO3 | TOT | C04 | COS | тот | COI | | 1 | | | SEE | COL | 1000 | T | | E Way | B:BD CO1 | | - co | 2 100 | 1 00 | |
| 1SV18IS001 | 15 | 10 | 10 | 35 | 20 | 11 | 29 | 20 | 15 | 27 | | | | | - | | C01 | CO2 | CO3 | CO4 | CO5 | 34 | 44 | 49 | | 13.0 | 1 4 |
| 1SV19IS001 | 15 | 5 | 4 | 24 | 20 | 15 | 25 | 15 | 13 | 25 | 2 | 2 | 2 | | 2 | 31 | 7 | 6 | 6 | 6 | 6 | 24 | 38 | 29 | 28 | 23 | 78 |
| 1SV19IS002 | 15 | 10 | 14 | 39 | 15 | 12 | 27 | 16 | 15 | 36 | 2 | 2 | 2 | | 2 | 37 | 8 | 8 | 8 | 7 | 6 | 25 | 35 | 29 | 24 | 21 | |
| 1SV19IS003 | 10 | 5 | 4 | 19 | 10 | 6 | 23 | 14 | 14 | 36 | 2 | 2 | 2 | - | 2 | 33 | 7 | 7 | 7 | 6 | 6 | 24 | 34 | 35 | 24 | 23 | 77. |
| 1SV19IS005 | 10 | 5 | 4 | 19 | 16 | 10 | 28 | 20 | 14 | 32 | 2 | 2 | 2 | 2 | 2 | 8 | 2 | 2 | 1 | 1 | 1 | 14 | 19 | 13 | 17 | 17 | 44. |
| 1SV19IS006 | 16 | 10 | 10 | 36 | 4 | 4 | 36 | 15 | 8 | 37 | 2 | 2 | 2 | 2 | 2 | 50 | 7 | 7 | 6 | 6 | 6 | 19 | 30 | 22 | 28 | 22 | 67. |
| 1SV19IS007 | 10 | 10 | 8 | 27 | 30 | 10 | 33 | 20 | 14 | 23 | 2 | 2 | 2 | 2 | 2 | 46 | 10 | 9 | 9 | 9 | 9 | 28 | 25 | 25 | 26 | 19 | 68. |
| 1SV19IS008 | 20 | 10 | 7 | 21 | 20 | 16 | 17 | 18 | 18 | 24 | 2 | 2 | 2 | 2 | 2 | 34 | 7 | 7 | 7 | 7 | 6 | 19 | 49 | 27 | 29 | 22 | 81. |
| 1SV19IS009 | 10 | 5 | 6 | 21 | 10 | 10 | 29 | 20 | 15 | 35 | | 2 | 2 | 2 | 2 | 29 | 7 | 6 | 6 | 5 | 5 | 29 | 38 | 31 | 25 | 25 | 82.: |
| 1SV19IS010 | 10 | 10 | 8 | 28 | 10 | 6 | 36 | 18 | 14 | 36 | 2 | 2 | 2 | 2 | 2 | 33 | 7 | 7 | 7 | 6 | 6 | 19 | 24 | 25 | 28 | 23 | 66. |
| 1SV19IS011 | 10 | 5 | 5 | 20 | 18 | 15 | 20 | 15 | 15 | 19 | 2 | 2 | 2 | 2 | 2 | 41 | 9 | 8 | 8 | 8 | 8 | 21 | 30 | 24 | 28 | 24 | 70.0 |
| 1SV19IS012 | 20 | 10 | 9 | 39 | 10 | 6 | 30 | 10 | 6 | _ | 2 | 2 | 2 | 2 | 2 | 26 | 6 | 5 | 5 | 5 | 5 | 18 | 30 | 27 | 22 | 22 | 66. |
| 1SV19IS013 | 16 | 10 | 10 | 36 | 10 | 4 | 36 | 10 | 2 | 40 | 2 | 2 | 2 | 2 | 2 | 44 | 9 | 9 | 9 | 9 | 8 | 31 | 31 | 26 | 21 | 16 | 69.4 |
| 1SV19IS014 | 12 | 14 | 2 | 16 | 6 | 6 | 18 | 20 | 15 | 40 | 2 | 2 | 2 | 2 | 2 | 40 | 8 | 8 | 8 | 8 | 8 | 26 | 30 | 24 | 20 | 12 | 62.2 |
| 1SV19IS015 | 15 | 10 | 10 | 20 | 20 | 19 | 12 | 20 | 18 | 27 | 2 | 2 | 2 | 2 | 2 | 26 | 6 | 5 | 5 | 5 | 5 | 20 | 27 | 15 | 27 | 22 | 61.7 |
| 1SV19IS016 | 20 | 10 | 10 | 27 | 19 | 19 | 29 | 20 | 20 | 9 | 2 | 2 | 2 | 2 | 2 | 45 | 9 | 9 | 9 | 9 | 9 | 26 | 41 | 40 | 31 | 29 | 92.8 |
| 1SV19IS017 | 11 | 10 | 10 | 24 | 20 | 15 | 31 | 20 | 15 | 36 | 2 | 2 | 2 | 2 | 2 | | 9 | 9 | 9 | 9 | 8 | 31 | 40 | 40 | 31 | 30 | 95.6 |
| 1SV19IS018 | 10 | 5 | 5 | 24 | 18 | 18 | 36 | 14 | 10 | 28 39 | 2 | 2 | 2 | 2 | 2 | 31 | 7 | 6 | 6 | 6 | 6 | 20 | 38 | 33 | 28 | 23 | 78.9 |
| 1SV19IS019 | 15 | 5 | 6 | 32 | 12 | 12 | 31 | 20 | 14 | 40 | 2 | 2 | 2 | 2 | 2 | 36 | 8 | 8 | 8 | 6 | 6 | 20 | 33 | 33 | 22 | 18 | 70.0 |
| 1SV19IS020 | 10 | 5 | 5 | 19 | 15 | 15 | 31 | 20 | 14 | 31 | 2 | 2 | 2 | 2 | _ | 37 | 8 | 8 | 7 | 7 | 7 | 25 | 27 | 27 | 29 | 23 | 72.8 |
| 1SV19IS022 | 20 | 10 | 8 | 40 | 16 | 15 | 32 | 20 | 20 | 37 | 2 | 2 | 2 | 2 | _ | 39 | 8 | 8 | 8 | 8 | 7 | 20 | 30 | 30 | 30 | 23 | 73.9 |
| 1SV19IS023 | 10 | 5 | 5 | 40 | 10 | 2 | 31 | 20 | 14 | 36 | 2 | 2 | 2 | 2 | | 39 | 8 | 8 | 8 | 8 | 7 | 30 | 36 | 33 | 30 | 29 | 87.8 |
| 1SV19IS024 | 15 | 10 | 3 | 32 | 15 | 16 | 27 | 20 | 15 | 28 | 2 | 2 | 2 | 2 | _ | 45 | 9 | 9 | 9 | 9 | 9 | 21 | 26 | 18 | 31 | 25 | 67.2 |
| 1SV19IS025 | 10 | 4 | 2 | 20 | 18 | | | 20 | 12 | | 2 | 2 | 2 | 2 | | 24 | 5 | 5 | 5 | 5 | 4 | 22 | 32 | 26 | 27 | 21 | 71.1 |
| 1SV19IS026 | 0 | 0 | 0 | 24 | 14 | | 21 | 15 | 14 | 35 | 2 | 2 | 2 | 2 | _ | 27 | 6 | 6 | 6 | 5 | 4 | 18 | 30 | 16 | 27 | 18 | 60.6 |
| 1SV19IS027 | 10 | 5 | 5 | 28 | 18 | | 37 | 14 | 14 | 32 | 2 | 2 | 2 | 2 | | 30 | 6 | 6 | 6 | 6 | 6 | 8 | 22 | 26 | 23 | 22 | 56.1 |
| OTAL | 335 | 198 | 170 | 710 | 394 | 296 | 725 | 454 | 358 | 809 | 2 | 2 | 2 | 2 | 2 | 38 | 7 | 7 | 6 | 6 | 6 | 19 | 32 | 23 | 22 | 22 | 65.6 |
| Total students | 28 | In the | | 28 | 28 | 28 | | | 28 | 28 | | | | | | | | | | | | 577 | 827 | 697 | 678 | 574 | 1863 |
| Average | | | | | | | | | | | | | | | | | | | | | | 28 | 28 | 28 | 28 | 28 | |
| | | | | | | | | | | | | | | | | 010 | | | | - | | 5.3 | | 26.8 54.7 | 26.1 | 22.1 | |

Dimber

HOD
Dept. of ISE
SIET, Tumkur-09.

Market Junkur.



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY SIRA ROAD, TUMKUR- 572 106.

Department of Information Science and Engineering

COURSE OUTCOME

CO1. Define cryptography and its principles

CO2. Explain Cryptography algorithms

CO3. Illustrate Public and Private Key cryptography

CO4. Explain Key management, distribution and certification

CO5. Explain authentication protocols

PROGRAM OUTCOMES

- **PO1** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- **PO2** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
- PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.
- PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.
- **PO6** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, légal, and cultural issues.
- PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10** Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- **PO11** Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.
- **PO12** Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

| COLLEGE | | SHR | IDEVI | INSTI | TUTE | OF E | NGIN | EERIN | G & T | ECHNO | DLOGY | |
|-----------|-------|-----|-------|-------|------|------|------|--------|-------|---------|-------|------|
| FACULTY | NAM | E | Mr SU | ГНАМ | R | | | | | | | |
| BRAN | СН | | CSE | | | A | CADI | EMIC Y | EAR | | 2022 | -23 |
| COURSE | B.I | E | SEM | ESTE | R | VII | S | SECTIO | N | | В | |
| SUBJECT | | | CRYP | ГOGRA | PHY | | | SUBJE | CT C | ODE | 18CS | 744 |
| CO & PO M | APPIN | 1G | | | | | | | | LALE TO | | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
| CO1 | 2 | | | | | | | 2 | | | 2 | |
| CO2 | | 3 | | | | | | | | | | |
| CO3 | | | | | 2 | | | | | | | |
| CO4 | | 2 | | | | | | | | | | |
| CO5 | | | | | | | | | | | | |
| AVERAGE | 2 | 2.5 | | | 2 | | | 2 | | | 2 | |
| | | | | | | OVI | ERAL | L MAP | PING | OF SUI | BJECT | 2.1 |

CO AND PO ATTAINMENT

| COANI | CO% | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---------|-------|------|------|-----|-----|------|-----|-----|--------|------|--------|-------|------|
| CO1 | 63.62 | 1.27 | | | | | | | 1.27 | | | 1.27 | |
| CO2 | 72.11 | | 2.16 | | | | | * | | | | | |
| CO3 | 71.29 | | | | | 1.43 | | | | | | | |
| CO4 | 77.90 | | 1.56 | | | | | | | | | | |
| CO5 | 77.35 | | | | | | | | | | | | |
| AVERAGE | 72.45 | 1.27 | 1.86 | | | 1.43 | | | 1.27 | | | 1.27 | |
| | 3 | | | | | | | FIN | NAL AT | TAIN | MENT I | LEVEL | 1.42 |

| Academic y | | | SEM | | | | otal str | | 26 | | Sub | ject | E | ngg. Cry | ptograp | ohy | | Subj | ect Code | 18C | S744 | | | 1 | 1 | | | | 1 |
|--------------------------|-----|---------|-----|------|------|---------|----------|-------|-----|-------|-------|--------|------|------------|---------------|------------|------------|-------------|--------------|--------------|----------------|----------------------|----------------------|--|--|--|----------------------|--|----------|
| ROLL NO | | T 1(30N | | | | | | | | IGNEM | IENT/ | QUIZ(1 | 0 M) | | SEE | MARKS | 5(60) | | | Total Co | os ATTAI | NMENT | 100000 | | % (| of individua | 100 | | SEE Tot |
| USN | CO1 | TOTAL | CO2 | CO3 | TOTA | CO4 | COS | TOTAL | CO1 | CO2 | CO3 | CO4 | CO5 | CO1=12 | CO2 | CO3 | CO4 | CO5 | CO1=44 | CO2=29 | CO3=29 | | CO5=29 | CO1 | CO2 | CO3 | CO4 | CO5 | 60M |
| 1SV18IS001 | 25 | 25 | 14 | 14 | 28 | 13 | 14 | 27 | 2 | 2 | 2 | 2 | 2 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 32.4 | 21.4 | 21.4 | 20.4 | 21.4 | 73.63636 | 73.7931 | 73.7931 | 70.34483 | 73.7931 | 27 |
| 1SV19IS001 | 19 | 19 | 15 | 14 | 29 | 13 | 13 | 26 | 2 | 2 | 2 | 2 | 2 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 27.4 | 23.4 | 22.4 | 21.4 | 21.4 | THE RESERVE THE PERSON NAMED IN | 80.68966 | | | 73.7931 | 32 |
| 1SV19IS002 | 19 | 19 | 12 | 12 | 24 | 15 | 14 | 29 | 2 | 2 | 2 | 2 | 2 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 28.8 | 21.8 | 21.8 | 24.8 | 23.8 | V3.115.110.720.477.000 | 75.17241 | | 85.51724 | The state of the s | 39 |
| 1SV19IS003 | 24 | 24 | 10 | 11 | 11 | 12 | 12 | 24 | 2 | 2 | 2 | 2 | 2 | 6 | 6 | 6 | 6 | 6 | 32 | 18 | 19 | 20 | 20 | CONTRACTOR OF THE PARTY OF THE | 4007 | 65.51724 | | 68.96552 | 30 |
| 1SV19IS005 | 21 | 21 | 14 | 13 | 27 | 13 | 14 | 27 | 2 | 2 | 2 | 2 | 2 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 31.8 | 24.8 | 23.8 | 23.8 | 24.8 | CONTRACTOR SERVING | 5 Prosposit Att time | 82.06897 | | 85.51724 | 44 |
| 1SV19IS006 | 23 | 23 | 12 | 11 | 13 | 15 | 14 | 29 | 2 | 2 | 2 | 2 | 2 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 33.8 | 22.8 | 21.8 | 25.8 | 24.8 | TO A CONTRACTOR DESCRIPTION | THE PARTY NAMED IN | 75.17241 | | 85.51724 | 44 |
| 1SV19IS007 | 21 | 21 | 15 | 14 | 29 | 15 | 14 | 29 | 2 | 2 | 2 | 2 | 2 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 27.8 | 21.8 | 20.8 | 21.8 | 20.8 | | 75.17241 | C1000000000000000000000000000000000000 | MANAGEMENT OF STREET | 71.72414 | 24 |
| 1SV19IS008 | 10 | 10 | 15 | 14 | 29 | 12 | 12 | 24 | 2 | 2 | 2 | 2 | 2 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 12.4 | 17.4 | 16.4 | 14.4 | 14.4 | 28.18182 | 60 | | 49.65517 | | 2 |
| 1SV19IS009 | 16 | 16 | 12 | 12 | 14 | 13 | 14 | 27 | 2 | 2 | 2 | 2 | 2 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 23.4 | 19.4 | 19.4 | 20.4 | 21.4 | 53.18182 | . 15.150-17.00-19. | STATE OF THE STATE OF | | 49.65517 | |
| 1SV19IS010 | 22 | 22 | 14 | 13 | 17 | 15 | 14 | 29 | 2 | 2 | 2 | 2 | 2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 30.2 | 22.2 | 21.2 | 23.2 | 22.2 | 68.63636 | | Company of the same | THE REAL PROPERTY. | 73.7931 | 27 |
| 1SV19IS011 | 5 | 5 | 9 | 10 | 19 | 13 | 14 | 27 | 2 | 2 | 2 | 2 | 2 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 15.4 | 19.4 | 20.4 | 23.4 | | A STATE OF THE STA | 76.55172 | 73.10345 | | 76.55172 | 31 |
| 1SV19IS012 | 26 | 26 | 15 | 15 | 30 | 15 | 15 | 30 | 2 | _ | 2 | 2 | 2 | 9 | 9 | 9 | 9 | 9 | 37 | 26 | 26 | T AUDIONICIAL CALLES | 24.4 | 35 | 66.89655 | | 80.68966 | 84.13793 | 42 |
| 1SV19IS013 | 29 | | | 1000 | 30 | 15 | 15 | 30 | 2 | 2 | 2 | 2 | 2 | 9 | 9 | 9 | 9 | 9 | 40 | | Marine Service | 26 | 26 | A CONTRACTOR NOTION | College Co. 7 From Co. 19 From Sept. | Control of the Contro | 89.65517 | | 45 |
| 1SV19IS014 | 24 | | 9 | 10 | 19 | 10 | 10 | 20 | 2 | 2 | 2 | 2 | 2 | 10 | 10 | - | | RV WITH THE | HITCHING CO. | 26 | 26 | 26 | 26 | CONTRACTOR STATE OF THE STATE OF | CHRONOLOGICAL TO A STOCK OF A STOCK OF | | 89.65517 | 89.65517 | 45 |
| 1SV19IS015 | 9 | 2 | 0 | 0 | 0 | 9 | 10 | 19 | 2 | 2 | 2 | 2 | 2 | | CONTRACTOR OF | 10 | 10 | 10 | 36 | 21 | 22 | 22 | Proceedings and com- | THE RESIDENCE OF THE PARTY OF T | | 75.86207 | | 75.86207 | 50 |
| 1SV19IS016 | 15 | 15 | 7 | 6 | 13 | 14 | 13 | 27 | 2 | 2 | 2 | 2 | 2 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 16.6 | 8.6 | 8.6 | 17.6 | 18.6 | White will be a supplemental and the supplemental a | SHEET WILLIAM TO THE PARTY OF T | STATE BUSINESS OF STREET | 60.68966 | 64.13793 | 33 |
| 1SV19IS017 | 13 | | , | 9 | 18 | 0 | 8 | 16 | 2 | 2 | 2 | 2 | | <u> </u> | 0 | 0 | 0 | 0 | 17 | 9 | 8 | 16 | 15 | 38.63636 | THE RESIDENCE OF THE PARTY OF T | THE PARTY OF THE PARTY OF THE | 55.17241 | 51.72414 | |
| 1SV19IS018 | 10 | | _ | | 26 | 13 | 13 | 26 | 2 | 2 | 2 | 2 | 2 | 5.4 6.6 | 5.4 6.6 | 5.4 6.6 | 5.4 6.6 | 5.4 | 20.4 | 16.4 | 16.4 | 15.4 | 15.4 | | | | 53.10345 | 53.10345 | 27 |
| 1SV19IS019 | 24 | | | | 21 | 14 | 13 | 27 | 2 | 2 | 2 | 2 | 2 | 5.8 | 5.8 | 5.8 | 5.8 | 6.6 5.8 | 18.6 31.8 | 21.6 18.8 | 21.6 17.8 | 21.6 21.8 | 21.6 | 42.27273 | 74.48276 | 74.48276 | | 74.48276 | 33 |
| 1SV19IS020 | 11 | . 11 | 8 | 9 | 17 | 12 | 11 | 23 | 2 | 2 | 2 | 2 | 2 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 19.6 | 16.6 | 17.6 | 20.6 | 20.8 19.6 | | | 61.37931 60.68966 | | 71.72414 | 29 |
| 1SV19IS022 | 27 | 27 | 15 | 15 | 30 | 15 | 14 | 29 | 2 | 2 | 2 | 2 | 2 | 9 | 9 | 9 | 9 | 9 | 38 | 26 | 26 | 26 | 25 | | | 89.65517 | | 67.58621 86.2069 | 33 45 |
| 1SV19IS023 | 25 | _ | | - | 30 | 15 | 15 | 30 | 2 | 2 | 2 | 2 | 2 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 35.6 | 25.6 | 25.6 | 25.6 | | | | 88.27586 | | 88.27586 | 43 |
| 1SV19IS024 | 23 | | | 6 | 12 | 13 | 13 | 26 | 2 | 2 | 2 | 2 | 2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 31.2 | 14.2 | 14.2 | 21.2 | 21.2 | | | | 73.10345 | | 31 |
| 1SV19IS025 | 10 | - | | | 23 | 12 | 12 | 24 | 2 | 2 | 2 | 2 | 2 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 16.8 | 18.8 | 17.8 | 18.8 | 18.8 | 38.18182 | | | 64.82759 | | 24 |
| 1SV19IS026 1SV19IS027 | 19 | | 10 | 10 | 20 | 13 | 13 | 26 | 2 | 2 | 2 | 2 | 2 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 17.8 | 20.8 | 20.8 | 23.8 | | | | 71.72414 | | 82.06897 | 44 |
| 13 V 1913027 | 19 | 19 | 12 | 11 | 23 | 14 | 13 | 27 | 2 | - 2 | 2 | 2 | 2 | 7 | 7 | 7 | 7 | 7 | 28 | 21 | 20 | 23 | 22 | 63.63636 | 72.41379 | 68.96552 | 79.31034 | 75.86207 | 35 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | | | | | Me Anna | | | | | | | | | | | | | | | | | | 63.61818 | 72 11024 | 71 20276 | 77.002.5 | 77 05455 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 03.01018 | 72.11034 | /1.282/6 | 77.90345 | 77.35172 | 34.36 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 57.26667 |
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| | | | | | | | | | | | | | | | | | | | | | | | | | and the same | | | | |

Joseph J.

HOD HOD Information Science Engineering SIET, TUMAKURU-572106.

PRINCIPAL SIET. TUMKUR.



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY SIRA ROAD, TUMKUR- 572 106.

DEPARTMENT OF COMPUTER SCIENCE

| SUBJECT | USER INTERFACE DESIGN | SUBJECT CODE | 18CS734 |
|---------|-----------------------|--------------|---------|
| SUBJECT | USER INTERFACE DESIGN | SOBJECT CODE | 1005754 |

COURSE OUTCOME

CO 1. Design the User Interface, design, menu creation, windows creation and connection between menus and windows.

PSO1: To Create, select, and apply appropriate techniques, resources, modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PSO2: To manage complex IT projects with consideration of the human, financial, ethical and environmental factors and an understanding of risk management processes, and operational and policy implications.

PSO3: Acquaint module knowledge on emerging trends of the modern era in computer science and engineering.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage:Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need forsustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

| COLLEGE | | SHRI | (DEVI | INSTIT | TUTE | OF EN | GIN | EERING | G & TI | ECHNO | LOGY | |
|-----------|-------|------|--------|--------|-------|------------|------|--------|--------|-------|-------|------|
| FACULTY | NAM | E I | Dr.CHA | RAN | ΚV | | | | | | | |
| BRAN | СН | | CSE | Z/ISE | | A | CADI | EMIC Y | EAR | | 2022- | -23 |
| COURSE | B.F | | SEM | ESTE | 2 | VII (B) | 5 | SECTIO | N | | A & B | |
| SUBJECT | | USEF | RINTE | RFAC] | E DES | SIGN | | SUBJE | CT CC | DDE | 18CS | 734 |
| CO & PO M | APPIN | IG | | | | 00) d | | | | | | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
| CO1 | 3 | 3 | 3 | 1 | 3 | | | . 2 | 1 | 1 | 1 | 2 |
| AVERAGE | 3 | 3 | 3 | 1 | 3 | | | 2 | 1 | 1 | 1 | 2 |
| | 1 | ll. | | | | OVI | ERAI | LL MAP | PING | OF SU | BJECT | 1.66 |

CO AND PO ATTAINMENT

| CO AN | D PO A | | | | | 20.5 | DO(| DO7 | PO8 | PO9 | PO10 | PO11 | PO1 |
|--------|--------|------|------|------|------|------|-----|-----|-------|-------|-------|-------|------|
| | CO% | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | ruo. | 107 | 1010 | 1011 | |
| CO1 | 30.09 | 0.90 | 0.90 | 0.90 | 0.30 | 0.90 | | | 0.60 | 0.30 | 0.30 | 0.30 | 0.60 |
| VERAGE | 30.09 | 0.90 | 0.90 | 0.90 | 0.30 | 0.90 | | | 0.60 | 0.30 | 0.30 | 0.30 | 0.60 |
| | | | | | | | | | FINAL | ATTAI | NMENT | LEVEL | 0.60 |

| | PSO1 | PSO2 | PSO3 |
|---------|------|------|------|
| CO1 | 2 | 2 | 2 |
| AVERAGE | 2 | 2 | 2 |

| Academic year SEM:7th ,SEC:B | 2022-23 | | SEM | | | l strength | 57 ASSIGNEMENT / QUIZ(10 M) | SEE MARKS(60) | % of individual | Total CO's Attainment |
|------------------------------|---------|----------|-----|-----------|-----------|-------------|-----------------------------|---------------|-----------------|--------------------------|
| (CSE/ ISE) | | T 1(30M) | | ST 2(30M) | | ST 3(30M) | CO1 | CO1=60 | CO1=160 | CO1 |
| USN | C01 | TOTAL | C01 | TOTAL | CO1 29 | TOTAL 29 | 10 | 40 | 85 | 136 |
| SV19CS064 | 30 | 30 | 27 | 27 | 30 | 30 | 10 | 31 | 72.5 | 116 |
| SV19CS065 | 24 | 24 | 21 | 21 | 23 | 23 | 10 | 37 | 71.25 | 114 |
| SV19CS066 | 17 | 17 | 27 | 27 | 23 | 23 | 10 | 26 | 70 | 112 |
| SV19CS067 | 26 | 26 | 27 | 27 | 21 | 21 | 10 | 41 | 77.5 | 124 |
| SV19CS068 | 29 | 29 | 23 | 23 | 30 | 30 | 10 | 36 | 78.75 | 126 |
| SV19CS069 | 24 | 24 | 26 | 26 | 30 | 30 | 10 | 39 | 85 | 136 |
| ISV19CS070 | 30 | 30 | 27 | 27 | 29 | 29 | 10 | 39 | 81.875 | 131 |
| SV19CS071 | 26 | 26 | 27 | 27 | 24 | 24 | 10 | 32 | 75.625 | 121 |
| SV19CS072 | 26 | 26 | 29 | 27 | 26 | 26 | 10 | , 42 | 80 | 128 |
| SV19CS074 | 23 | 23 | 27 | | 26 | 26 | 10 | 35 | 77.5 | 124 |
| SV19CS076 | 26 | 26 | 27 | 27 | | | 10 | 23 | 59.375 | 95 |
| SV19CS077 | 15 | 15 | 23 | 23 | 24 | 24 | 10 | 35 | 50.625 | 81 |
| SV19CS079 | 10 | 10 | 0 | 0 | 26 | 26 | 10 | 40 | 83.75 | 134 |
| SV19CS081 | 27 | 27 | 30 | 30 | 27 | 27 | | 45 | | 141 |
| SV19CS082 | 30 | 30 | 27 | 27 | 29 | 29 | 10 | 38 | 88.125 | 138 |
| SV19CS083 | 30 | 30 | 30 | 30 | 30 | 30 | 10 | 38 | 86.25 82.5 | 132 |
| SV19CS084 | 21 | 21 | 27 | 27 | 30 | 30 | 10 | 24 | | 106 |
| SV19CS085 | 24 | 24 | 24 | * 24 | 24 | 24 | 10 | | 66.25 | |
| SV19CS086 | 30 | 30 | 29 | 29 | 30 | 30 | 10 | 42 | 88.125 | 141 |
| SV18CS002 | 0 | 0 | 18 | 18 | 23 | 23 | 10 | 27 | 48.75 | 78 |
| SV18CS006 | 30 | 30 | 25 | 25 | 27 | 27 | 10 | 37 | 80.625 | 129 |
| SV18CS009 | 24 | 24 | 21 | 21 | 27 | 27 | 10 | 15 | 60.625 | 97 |
| SV18CS012 | 30 | 30 | 29 | 29 | 29 | 29 | 10 | 33 | 81.875 | 131 |
| ISV18CS018 | 27 | 27 | 24 | 24 | 21 | 21 | 10 | 47 | 80.625 | 129 |
| ISV18CS034 | 25 | 25 | 27 | 27 | 24 | 24 | 10 | 42 | 80 | 128 |
| ISV18CS047 | 27 | 27 | 27 | 27 | 21 | 21 | 10 | 32 | 73.125 | 117 |
| ISV20CS400 | 27 | 27 | 15 | 15 | 27 | 27 | 10 | 40 | 74.375 | 119 |
| ISV20CS401 | 21 | 21 | 24 | 24 | 23 | 23 | 10 | 28 | 66.25 | 106 |
| ISV19IS001 | 0 | 0 | 30 | 30 | 29 | 29 | 10 | 35 | 65 | 104 |
| ISV19IS002 | 24 | 24 | 24 | 24 | 30 | 30 | 10 | 21 | 68.125 | 109 |
| ISV19IS003 | 27 | 27 | 27 | 27 | 30 | 30 | 10 | 32 | 78.75 | 126 |
| ISV19IS005 | 23 | 23 | 12 | 12 | 26 | 26 | 10 | 24 | 59.375 | 95 |
| ISV19IS006 | 29 | 29 | 26 | 26 | 26 | 26 | 10 | 35 | 78.75 | 126 |
| ISV19IS007 | 24 | 24 | 29 | 29 | 29 | 29 | 10 | 39 | 81.875 | 131 |
| ISV19IS008 | 26 | 26 | 29 | 29 | 24 | 24 | 10 | , 24 | 70.625 | 113 |
| ISV19IS009 | 23 | 23 | 20 | 20 | 27 | 27 | 10 | 23 | 64.375 | 103 |
| ISV19IS010 | 24 | 24 | 20 | 20 | 29 | 29 | 10 | 21 | 65 | 104 |
| ISV19IS011 | 27 | 27 | 27 | 27 | 29 | 29 | 10 | 51 | 90 | 144 |
| ISV19IS012 | 24 | 24 | 26 | 26 | 24 | 24 | 10 | 37 | 75.625 | 121 |
| ISV19IS013 | 30 | 30 | 30 | 30 | 30 | 30 | 10 | 44 | 90 | 144 |
| SV19IS014 | 30 | 30 | 30 | 30 | 30 | 30 | 10 | 47 | 91.875 | 147 |
| ISV19IS015 | 15 | 15 | 23 | 23 | 23 | 23 | 10 | 21 | 57.5 | 92 |
| ISV19IS016 | 23 | 23 | 23 | .23 | 14 | 14 | 10 | 30 | 62.5 | 100 |
| ISV19IS017 | 26 | 26 | 27 | 27 | 29 | 29 | 10 | 30 | 76.25 | 122 |
| SV19IS018 | 21 | 21 | 20 | 20 | 23 | 23 | 10 | 41 | 71.875 | 115 |
| SV19IS019 | 24 | 24 | 29 | 29 | 27 | 27 | 10 | 45 | 84.375 | 135 |
| SV19IS020 | 26 | 26 | 21 | 21 | 27 | 27 | 10 | 35 | 74.375 | 119 |
| SV19IS022 | 23 | 23 | 29 | 29 | 29 | 29 | 10 | 34 | 78.125 | 125 |
| SV19IS023 | 30 | 30 | 27 | 27 | 30 | 30 | 10 | 29 | 78.75 | 126 |
| SV19IS024 | 30 | 30 | 27 | 27 | 30 | 30 | 10 | 33 | 81.25 | 130 |
| SV19IS025 | 30 | 30 | 29 | 29 | 28 | 28 | 10 | 39 | 85 | 136 |
| SV19IS026 | 27 | 27 | 20 | 20 | 26 | 26 | 10 | 44 | 79.375 | 127 |
| ISV19IS027 | 30 | 30 | 24 | 24 | 24 | 24 | 10 | 38 | 78.75 | 126 |
| 1SV18IS001 | 30 | 30 | 20 | 20 | 30 | 30 | 10 | 41 | 81.875 | 131 |

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Information Science
and St. Engineering
SIET, TUMAKURU-572106.

PRINCIPAL SIET. TUMKUR.

AY: 2022-23 EVEN TE OF ENGINEERING AND TECHNOLOGY

Sira Road, Tumkur - 572 106, Karnataka, India.

SHRIDEVI Phone: 0816 - 2212529 | Principal: 0616 - 2212521, 35652176 | Section 1 | Phone: 0816 - 2212529 | Principal: 0616 - 2212521, 35652176 | Section 1 | Phone: 0816 - 2212529 | Principal: 0616 - 2212521, 35652176 | Section 1 | Phone: 0816 - 2212529 | Principal: 0616 - 2212521, 35652176 | Section 1 | Phone: 0816 - 2212529 | Principal: 0616 - 2212521, 35652176 | Section 1 | Phone: 0816 - 2212529 | Principal: 0616 - 2212521, 35652176 | Section 1 | Principal: 0616 - 2212529 | Principal: 0616 - 2212521, 35652176 | Section 1 | Principal: 0616 - 2212529 | Principal: 0616 - 2212529 | Principal: 0616 - 2212529 | Principal: 0616 - 2212521 | Section 1 | Principal: 0616 - 2212521 | Sec

(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

Department of Information Science and Engineering

2022-2023

COURSE OUTCOMES

COURSE: DESIGN AND ANALYSIS OF ALGORITHMS (21CS42)

- CO1. Analyze the performance of the algorithms, state the efficiency using asymptotic notations and analyze mathematically the complexity of the algorithm.
- CO2. Apply divide and conquer approaches and decrease and conquer approaches in solving the problems analyze the same
- CO3. Apply the appropriate algorithmic design technique like greedy method, transform and conquer approaches and compare the efficiency of algorithms to solve the given problem.
- CO4. Apply and analyze dynamic programming approaches to solve some problems. And improve an algorithm time efficiency by sacrificing space.
- CO5. Apply and analyze backtracking, branch and bound methods and to describe P, NP and NP-Complete problems.

PROGRAM OUTCOMES

- PO1. Engineering knowledge: An ability to apply knowledge of mathematics (including probability, Statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- PO2. Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems Reaching substantiated conclusions using first principles of mathematics, natural sciences, and Engineering sciences.
- PO3. Design / development of solutions: An ability to design solution for engineering problems and design System components or process to meet desired specifications and needs.
- PO4. Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, Design synthesis of the information to solve complex engineering problems and provide valid Conclusions.
- PO5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern Engineering and IT tools, including prediction and modelling to complex engineering activities.
- PO6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, Health, safety, legal, and cultural issues.
- PO7. Environment and sustainability: Understand the impact of the professional engineering solutions in Societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable Development.
- PO8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of The engineering practice.
- PO.9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse Teams, and in multidisciplinary settings.
- PO10. Communication: Communicate effectively on complex engineering activities with the engineering Community and with the society.
- PO11. Project management and finance: An ability to use the modern engineering tools, techniques, skills And management principles to do work as a member and leader in a team, to manage projects in Multidisciplinary environments.
- PO12. Life-long learning: recognition of the need for, and an ability to engage in, to resolve Contemporary issues and acquire lifelong learning.



Sri Shridevi Charitable Trust (R.)

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Sira Road, Tumkur - 572 106, Karnataka, India.

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ESTD: 2002

SHRIDEVI Phone: 0816 - 2212629 | Principal: 0816 - 2212627, 9686114899 | Telefax: 0816 - 2212628

Email: info@shridevlengineering.org, principal@shridevlengineering.org | Website: www.shridevlengineering.org |

(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

COLLEGE SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY **FACULTY NAME** Mr. CHETHAN M S 2022-2023 **BRANCH** ISE **ACADEMIC YEAR** COURSE B.E IV **SEMESTER SECTION** B **DESIGN AND ANALYSIS OF SUBJECT** SUBJECT CODE 21CS42 **ALGORITHMS** CO & PO MAPPING PO1 PO₂ PO₃ PO₄ PO5 **PO6** PO7 PO8 PO9 PO10 PO11 PO12 PSO1 PSO₂ PSO₃ 2 1 CO₁ 3 2 3 2 3 3 2 3 CO₂ 2 2 2 3 2 3 2 3 **CO3** 2 2 3 3 2 3 2 3 CO₄ 2 2 3 3 2 2 3 **CO5** 3 2 3 2 3 AVG 3.0 2.0 2.6 1.8 2.0 3.0 2.4 2.4

CO AND PO ATTAINMENT

| | AND PO | JAII | AIIII | | | Territoria de la compansión de la compan | Decrease seems of | | | | | I management of the same of th | Income become company | Free Contract of Landson | | lesson and the same |
|------|--------|------|-------|------|------|--|-------------------|-------|------|------|--------|--|-----------------------|--------------------------|------------------|---------------------|
| | CO% | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO ₁ | PSO ₂ | PSO ₃ |
| CO1 | 57.8 | 1.73 | 1.15 | 0.57 | 0.57 | | | | | | | | 1.15 | 1.73 | 1.15 | 1.73 |
| CO2 | 73.3 | 2.19 | 1.46 | 2.19 | 1.46 | | | | | | | | 1.46 | 2.19 | 1.46 | 1.46 |
| CO3 | 72.2 | 2.16 | 1.44 | 2.16 | 1.44 | | | | | | | | 1.44 | 2.16 | 2.16 | 1.44 |
| CO4 | 67.3 | 2.01 | 1.34 | 2.01 | 1.34 | | | | | | | 77 | 1.34 | 2.01 | 2.01 | 1.34 |
| CO5 | 66.4 | 1.99 | 1.32 | 1.99 | 1.32 | | | | • | | | | 1.32 | 1.99 | 1.32 | 1.99 |
| AVER | RAGE | 2.01 | 1.34 | 1.78 | 1.22 | | | | | | | | 1.34 | 2.01 | 1.62 | 1.59 |
| | | | | | | | FII | NAL A | ATTA | INMI | ENT LI | EVEL | 1.61 | | | |

OVERALL MAPPING OF SUBJECT

| Roll | KICNI | | | 21CS4 | 2 | T1 | 1 | 72 | 1 | Г3 | ASSI | GNME | NT 10 | + Practi | ical 20 | | | EXTE | RNAL | | | | | Final | | | TOTAL |
|------|------------|--------------------|----|-------|----|------------|------------|------------|------------|------------|-----------|------|-------|----------|---------|-------------|------------|------------|------------|------------|------------|--------|--------|--------|--------|--------|-------|
| No. | USN | Name | T1 | Т2 | Т3 | CO1- 20 | CO2- 10 | CO3- 10 | CO4- 10 | CO5- 10 | CO1- 6 | CO2- | CO3- | CO4- | CO5- | SEE (50) | CO1- 10 | CO2- 10 | CO3- 10 | CO4- 10 | CO5- 10 | CO1-36 | CO2-26 | CO3-26 | CO4-26 | CO5-26 | AVG |
| 29 | 1SV21IS030 | SYED SUHAIL AHAMED | 9 | 12 | 6 | 9 | 6 | 6 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 21 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 19.2 | 16.2 | 16.2 | 13.2 | 13.2 | 15.6 |
| 30 | 1SV21IS031 | THARUN M S | 11 | 15 | 4 | 11 | 7 | 8 | 2 | 2 | 6 | 6 | 6 | 6 | 6 | 24 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 21.8 | 17.8 | 18.8 | 12.8 | 12.8 | 16.8 |
| 31 | 1SV21IS032 | THEJASWINI M | 9 | 17 | 17 | 9 | 8 | 9 | 10 | 7 | 6 | 6 | 6 | 6 | 6 | 37 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 22.4 | 21.4 | 22.4 | 23.4 | 20.4 | 22 |
| 32 | 1SV21IS033 | VARSHA K V | 5 | 19 | 13 | 5 | 10 | 9 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 27 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 16.4 | 21.4 | 20.4 | 17.4 | 18.4 | 18.8 |
| 33 | 1SV21IS034 | VARSHINIMEGHA | 11 | 20 | 13 | 11 | 10 | 10 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 26 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 22.2 | 21.2 | 21.2 | 17.2 | 18.2 | 20 |
| 34 | 1SV21IS035 | VINUTHA H N | 14 | 19 | 20 | 14 | 10 | 9 | 10 | 10 | 6 | 6 | 6 | 6 | 6 | 31 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 26.2 | 22.2 | 21.2 | 22.2 | 22.2 | 22.8 |
| 35 | 1SV21IS036 | VISHNU R | 15 | 19 | 19 | 15 | 10 | 9 | 9 | 10 | 6 | 6 | 6 | 6 | 6 | 21 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 25.2 | 20.2 | 19.2 | 19.2 | 20.2 | 20.8 |
| 36 | 1SV21IS037 | YASHAS D R | 14 | 19 | 17 | 14 | 10 | 9 | 8 | 9 | 6 | 6 | 6 | 6 | 6 | 38 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 27.6 | 23.6 | 22.6 | 21.6 | 22.6 | 23.6 |
| 37 | 1SV22IS400 | CHETHAN V | 6 | 9 | 19 | 6 | 5 | 4 | 10 | 9 | 6 | 6 | 6 | 6 | 6 | 14 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 14.8 | 13.8 | 12.8 | 18.8 | 17.8 | 15.6 |
| 38 | 1SV22IS401 | HONNESH KUMAR | 14 | 13 | 11 | 14 | 6 | 7 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 23 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 24.6 | 16.6 | 17.6 | 16.6 | 15.6 | 18.2 |
| 39 | 1SV22IS402 | NAVEEN D R | 10 | 9 | 17 | 10 | 4 | 5 | 10 | 7 | 6 | 6 | 6 | 6 | 6 | 25 | 5 | 5 | 5 | 5 | 5 | 21 | 15 | 16 | 21 | 18 | 18.2 |
| 40 | 1SV22IS403 | SWETHA N | 5 | 18 | 16 | 5 | 10 | 8 | 10 | 6 | - 6 | 6 | 6 | 6 | 6 | 12 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 13.4 | 18.4 | 16.4 | 18.4 | 14.4 | 16.2 |
| | | | | | | | | | | | | | | | | | | | | | | 20.82 | 19.07 | 18.77 | 17.495 | 17.27 | |

The Staff SIGNATURE

HOD, ISE

HOD Information Science

PRINCIPAL SIET, TUMKUR.

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

| SUB: | Design & An | alysis of Algorithm | | | Sem: | IV | | KINE | 2022-23 | | | | | | VEN | | | | | F | ACUL | TY:Mr. | Chethan | M S | 4 | | |
|-------------|-------------|---------------------|----|-------|------|------------|------------|------|------------|------------|------|-------|---------|----------|---------|-------------|------------|------------|------------|------------|------------|--------|---------|--------|--------|--------|-------|
| Dall | 1743 | | | 21CS4 | 2 | T1 | 7 | Γ2 | 1 | r 3 | ASS | IGNME | NT 10 - | + Practi | ical 20 | | | EXTE | RNAL | | | | | Final | | | TOTAL |
| Roll No. | USN | Name | TI | Т2 | Т3 | CO1- 20 | CO2- 10 | CO3- | CO4- 10 | CO5- 10 | CO1- | CO2- | CO3- | CO4- | CO5- | SEE (50) | CO1- 10 | CO2- 10 | CO3- 10 | CO4- 10 | CO5- 10 | CO1-36 | CO2-26 | CO3-26 | CO4-26 | CO5-26 | AVG |
| 1 | 1SV21IS001 | ABDUL HADY | 16 | 20 | 18 | 16 | 10 | 10 | 10 | 8 | 6 | 6 | 6 | 6 | 6 | 18 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 25.6 | 19.6 | 19.6 | 19.6 | 17.6 | 20.4 |
| 2 | 1SV21IS002 | АВНІЛТН В N | 6 | 17 | 7 | 6 | 10 | 7 | 4 | 3 | 6 | 6 | 6 | 6 | 6 | 33 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 18.6 | 22.6 | 19.6 | 16.6 | 15.6 | 18.6 |
| 3 | 1SV21IS003 | ABHISHEK BASAVARAJ | 7 | 15 | 12 | 7 | 7 | 7. | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 23 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 17.6 | 17.6 | 17.6 | 16.6 | 16.6 | 17.2 |
| 4 | 1SV21IS004 | DAKSHITH S | 13 | 16 | 19 | 13 | 8 | 8 | 10 | 9 | 6 | 6 | 6 | 6 | 6 | 26 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 24.2 | 19.2 | 19.2 | 21.2 | 20.2 | 20.8 |
| 5 | 1SV21IS005 | DANESHWARI | 4 | 10 | 13 | 4 | 5 | 5 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 32 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 16.4 | 17.4 | 17.4 | 18.4 | 19.4 | 17.8 |
| 6 | 1SV21IS006 | DEEKSHA K | 18 | 20 | 19 | 18 | 10 | 10 | 10 | . 9 | 6 | 6 | 6 | 6 | 6 | 29 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 29.8 | 21.8 | 21.8 | 21.8 | 20.8 | 23.2 |
| 7 | 1SV21IS007 | DEEPIKA B M | 12 | 20 | 20 | 12 | 10 | 10 | 10 | 10 | 6 | 6 | 6 | 6 | 6 | 37 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 25.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.8 |
| 8 | 1SV21IS008 | DHISHANTH G PATEL | 8 | 19 | 10 | 8 | 10 | 9 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 26 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 19.2 | 21.2 | 20.2 | 16.2 | 16.2 | 18.6 |
| 9 | 1SV21IS009 | GAGANA S | 8 | 19 | 10 | 8 | 10 | 9 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 30 | 6 | 6 | 6 | 6 | 6 | 20 | 22 | 21 | 17 | 17 | 19.4 |
| 10 | 1SV21IS010 | H M PRAJWAL KUMAR | 8 | 17 | 15 | 8 | 8 | 9 | 7 | 8 | 6 | 6 | 6 | 6 | 6 | 31 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 20.2 | 20.2 | 21.2 | 19.2 | 20.2 | 20.2 |
| 11 | 1SV21IS011 | HARSHITHA P | 16 | 15 | 12 | 16 | 8 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 28 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 27.6 | 19.6 | 18.6 | 17.6 | 17.6 | 20.2 |
| 12 | 1SV21IS012 | HIMAVANTH K | 12 | 8 | 3 | 12 | 4 | 4 | 0 | 3 | 6 | 6 | 6 | 6 | 6 | 19 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 21.8 | 13.8 | 13.8 | 9.8 | 12.8 | 14.4 |
| 13 | 1SV21IS013 | KANTHARAJU V T | 7 | 8 | 5 | 7 | 4 | 4 | 2 | 3 | 6 | 6 | 6 | 6 | 6 | 21 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 17.2 | 14.2 | 14.2 | 12.2 | 13.2 | 14.2 |
| 14 | 1SV21IS014 | KEERTHANA K S | 20 | 20 | 18 | 20 | 10 | 10 | 10 | 8 | 6 | 6 | 6 | 6 | 6 | 42 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 34.4 | 24.4 | 24.4 | 24.4 | 22.4 | 26 |
| 15 | 1SV21IS015 | KRISHNAMURTHY P G | 14 | 13 | 12 | 14 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 37 | 7.4 | 7.4 | 7.4 | 7.4 | 7.4 | 27.4 | 19.4 | 20.4 | 19.4 | 19.4 | 21.2 |
| 16 | 1SV21IS016 | MANOJ R | 2 | 0 | 6 | 2 | 0 | 0 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 24 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 12.8 | 10.8 | 10.8 | 13.8 | 13.8 | 12.4 |
| 17 | 1SV21IS017 | MANOJ T | 10 | 18 | 7 | 10 | 10 | 8 | 4 | 3 | 6 | 6 | 6 | 6 | 6 | 25 | 5 | 5 | 5 | 5 | 5 | 21 | 21 | 19 | 15 | 14 | 18 |
| 18 | 1SV21IS018 | MANOJA S S | 1 | 13 | 9 | 1 | 6 | 7 | 5 | 4 | 6 | 6 | 6 | 6 | 6 | 14 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 9.8 | 14.8 | 15.8 | 13.8 | 12.8 | 13.4 |
| 19 | 1SV21IS019 | MARUTHI G N | 7 | 20 | 8 | 7 | 10 | 10 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 24 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 17.8 | 20.8 | 20.8 | 14.8 | 14.8 | 17.8 |
| 20 | 1SV21IS021 | NAVYA SHREE K S | 14 | 19 | 18 | 14 | 10 | 9 | 10 | 8 | 6 | 6 | 6 | 6 | 6 | 24 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 24.8 | 20.8 | 19.8 | 20.8 | 18.8 | 21 |
| 21 | 1SV21IS022 | NINGAIAH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 4 | 4 | 6 | 0 | 0 | 0 | 0 | 0 | - 0 | 4 | 4 | 4 | 4 | 6 | 4.4 |
| 22 | 1SV21IS023 | NIRNAY K | 1 | 3 | 3 | 1 | 3 | 0 | 0 | 3 | 6 | 6 | 6 | 6 | 6 | 25 | 5 | 5 | 5 | 5 | 5 | 12 | 14 | 11 | 11 | 14 | 12.4 |
| 23 | 1SV21IS024 | PALLAVI D | 13 | 20 | 19 | 13 | 10 | 10 | 10 | 9 | 6 | 6 | 6 | 6 | 6 | 34 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 25.8 | 22.8 | 22.8 | 22.8 | 21.8 | 23.2 |
| 24 | 1SV21IS025 | RAHUL V | 7 | 19 | 8 | 7 | 10 | 9 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 27 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 18.4 | 21.4 | 20.4 | 15.4 | 15.4 | 18.2 |
| 25 | 1SV21IS026 | RAKSHITHA L | 15 | 20 | 13 | 15 | 10 | 10 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 28 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 26.6 | 21.6 | 21.6 | 17.6 | 18.6 | 21.2 |
| 26 | 1SV21IS027 | RANGANATHA G N | 4 | 20 | 9 | 4 | 10 | 10 | 5 | 4 | 6 | 6 | 6 | 6 | 6 | 35 | 7 | 7 | 7 | 7 | 7 | 17 | 23 | 23 | 18 | 17 | 19.6 |
| 27 | 1SV21IS028 | SHREEVATHSA M B | 6 | 20 | 12 | 6 | 10 | 10 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 25 | 5 | 5 | 5 | 5 | 5 | 17 | 21 | 21 | 17 | 17 | 18.6 |
| 28 | 1SV21IS029 | SOUNDARYA R | 12 | 19 | 14 | 12 | 9 | 10 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 38 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 25.6 | 22.6 | 23.6 | 20.6 | 20.6 | 22.6 |

ESTD : 2002

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Phone: 0816 - 2212629 | Principal: 0816 - 2212627, 9686114899 | Telefax: 0816 - 2212628

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(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

Department of Information Science and Engineering

COURSE OUTCOME

CO1. Explain C-Compilers and optimization

CO2. Describe the ARM microcontroller's architectural features and program module.

CO3. Apply the knowledge gained from programming on ARM to different applications.

CO4. Program the basic hardware components and their application selection method.

CO5. Demonstrate the need for a real-time operating system for embedded system application.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage:Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need forsustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

| FACULT | Y NAI | ME | MRS. | | | | y [†] | | | ERING | | | | 1 | 4 |
|---------|---------------------------------------|--------------|--------------|------|------|-------------|----------------|-------|-------|-------|----------|------|--------|------|------|
| BRA | JBJECT MIC | | | ISE | | | ACA | DEMIC | C YE | AR | | | 2022-2 | 22 | |
| COURSE | B. | E. | SEM | ESTI | ER | IV | | | ECTIO | | | | В | 23 | |
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| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
| CO1 | | | | | 1 | | | | | | To plant | 1 | | | 1303 |
| CO2 | | | 2 | | | | | | | | | | | 1 | |
| CO3 | 2 | | | | | | | | | | | | | | |
| CO4 | 2 | | | | | | | | | 1 | | 2 | 1 | 1 | |
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CO - PO ATTAINMENT

| CO% | 100000 | | EDBOOK CONDUCTOR | - | | | | | | | | | | | |
|-----|----------------------|--------------------|--|---|--|---|--|---|---|--|---|---|--|---|---|
| C0% | PO1 | PO2 | PO3 | PO4 | PO5 | P06 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
| 74 | | | | | 0.74 | | | | | | | 0.74 | 0.74 | | |
| 80 | | | 1.6 | | | | | | | | | 0.74 | 0.74 | 0.74 | |
| 77 | 1.54 | | | | | | | | | 0.55 | | | | | |
| 77 | 1.54 | | | | 美数 | | | | | | | 1.54 | 0.77 | 0.77 | |
| 74 | 0.74 | | | | | | | | | 1.54 | | 0.77 | 0.77 | 0.77 | |
| | | | | | | | | | | 0.74 | | 0.74 | | | |
| | 1.27 | | 1.6 | | 0.74 | | | | | 1.02 | | 0.94 | 0.76 | 0.76 | |
| | | | | | | FIN | AL A | TTAL | NME | NT LE | VEL | 1.01 | | | |
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DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

| SUB: | Microcontrol | ler and Embedded System | | | m:IV | 0.00 | | | | | | | | 2022-2 | | | EVE | N | | | FACUI | LTY: Mr | Lavanya | K . | | | |
|------|--|--|----|-------|------|------------|------------|------------|------------|------------|------|------|------|--------|----------|----------|--------|--------|--------|--------|--------|----------|-----------------------|------------------|--------|--------|---------------|
| Roll | USN | Name | | 21CS4 | 13 | T1 | - | Γ2 | | Г3 | | | | | tical 20 | | | EXT | ERNAL | | 55 | | | FINAL | | | |
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| 1 | | ABDUL HADY | 18 | 17 | 16 | 18 | 8 | 9 | 9 | 7 | 6 | 6 | 6 | 6 | 6 | 34 | 7 | 7 | 7 | 7 | 7 | 31 | 21 | 22 | 22 | 20 | 23 |
| 2 | | АВНІЛТН В N | 13 | 19 | 16 | 13 | 10 | 9 | 8 | 8 | 6 | 6 | 6 | 6 | 6 | 36 | 7 | 7 | 7 | 7 | 7 | 26 | 23 | 22 | 21 | 21 | 23 |
| 3 | | ABHISHEK BASAVARAJ ARALI | 17 | 18 | 16 | 17 | 9 | 9 | 8 | 8 | 6 | 6 | 6 | 6 | 6 | 26 | 5 | 5 | 5 | 5 | 5 | 28 | 20 | 20 | 19 | 19 | 21 |
| 4 | | DAKSHITH S | 18 | 19 | 19 | 18 | 10 | 9 | 10 | 9 | 6 | 6 | 6 | 6 | 6 | 28 | 6 | 6 | 6 | 6 | 6 | 30 | 22 | 21 | 22 | 21 | 23 |
| 5 | | DANESHWARI | 12 | 14 | 13 | 12 | 8 | 6 | 7 | 6 | 6. | 6 | 6 | 6 | 6 | 27 | 5 | 5 | 5 | 5 | 5 | 23 | 19 | 17 | 18 | 17 | 19 |
| 6 | | DEEKSHA K | 19 | 19 | 20 | 19 | 10 | 9 | 10 | 10 | 6 | 6 | 6 | 6 | 6 | 28 | 6 | 6 | 6 | 6 | 6 | 31 | 22 | 21 | -22 | 22 | 23 |
| 7 | | DEEPIKA B M | 18 | 19 | 20 | 18 | 10 | 9 | 10 | 10 | 6 | 6 | 6 | 6 | 6 | 35 | 7 | 7 | 7 | 7 | 7 | 31 | 23 | 22 | 23 | 23 | 24 |
| -8 | | DHISHANTH G PATEL | 17 | 20 | 18 | 17 | 10 | 10 | 9 | 9 | 6 | 6 | 6 | 6 | 6 | 32 | 6 | 6 | 6 | 6 | 6 | 29 | 22 | 22 | 21 | 21 | 23 |
| 9 | | GAGANA S | 18 | 19 | 16 | 18 | 10 | 9 | 8 | 8 | 6 | 6 | 6 | 6 | 6 | 36 | 7 | 7 | 7 | 7 | 7 | 31 | 23 | 22 | 21 | 21 | 24 |
| 10 | | H M PRAJWAL KUMAR | 15 | 18 | 17 | 15 | 9 | 9 | 9 | 8 | 6 | 6 | 6 | 6 | 6 | 22 | 4 | 4 | 4 | 4 | 4 | 25 | 19 | 19 | 19 | 18 | 20 |
| 11 | The state of the s | HARSHITHA P | 17 | 18 | 16 | 17 | 9 | 9 | 8 | 8 | 6 | 6 | 6 | 6 | 6 | 32 | 6 | 6 | 6 | 6 | 6 | 29 | 21 | 21 | 20 | 20 | 23 |
| 12 | | HIMAVANTH K | 10 | 17 | 14 | 10 | 8 | 9 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 29 | 6 | 6 | 6 | 6 | 6 | 22 | 20 | 21 | 19 | 19 | 20 |
| 13 | A STATE OF THE PARTY OF THE PAR | KANTHARAJU V T | 16 | 18 | 15 | 16 | 9 | 9 | 9 | 6 | 5 | 5 | 5 | 6 | 6 | 29 | 6 | 6 | 6 | 6 | 6 | 27 | 20 | 20 | 21 | 18 | 21 |
| 14 | | KEERTHANA K S | 19 | 20 | 18 | 19 | 10 | 10 | 8 | 10 | 6 | 6 | 6 | 6 | 6 | 32 | 6 | 6 | 6 | 6 | 6 | 31 | 22 | 22 | 20 | 22 | 24 |
| 15 | 1SV21IS015 | KRISHNAMURTHY P G | 12 | 18 | 18 | 12 | 9 | 9 | 9 | 9 | 6 | 6 | 6 | 6 | 6 | 28 | 6 | 6 | 6 | 6 | 6 | 24 | 21 | 21 | 21 | 21 | |
| 16 | 1SV21IS016 | MANOJ R | 12 | 16 | 17 | 12 | 8 | 8 | 9 | 8 | 5 | 5 | 5 | 6 | 6 | 27 | 5 | 5 | 5 | 5 | 5 | 22 | 18 | 18 | 20 | 19 | 21 |
| 17 | 1SV21IS017 | MANOJ T | 16 | 20 | 15 | 16 | 10 | 10 | 8 | 7 | 5 | 5 | 5 | 6 | 6 | 22 | 4 | 4 | 4 | 4 | 4 | 25 | 19 | 19 | 18 | 17 | 20 |
| 18 | 1SV21IS018 | MANOJA S S | 6 | 16 | 12 | 6 | 9 | 7 | 7 | 5 | 6 | 6 | 6 | 6 | 6 | 15 | 3 | 3 | 3 | 3 | 3 | 15 | 18 | 16 | 16 | | 12017/05/2003 |
| 19 | 1SV21IS019 | MARUTHI G N | 14 | 19 | 14 | 14 | 10 | 9 | 8 | 6 | 5 | 5 | 5 | 6 | 6 | 24 | 5 | 5 | 5 | 5 | 5 | 24 | 20 | 19 | 19 | 14 | 16 |
| 20 | 1SV21IS021 | NAVYA SHREE K S | 19 | 20 | 19 | 19 | 10 | 10 | 10 | 9 | 6 | 6 | 6 | 6 | 6 | 34 | 7 | 7 | 7 | 7 | 7 | 32 | 23 | C/12 C 20 C 10 C | | 17 | 20 |
| 21 | 1SV21IS022 | NINGAIAH | 4 | 3 | 7 | 4 | 3 | 0 | 3 | 4 | 5 | 5 | 5 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 200 STATE 100 STATE | 23 | 23 | 22 | 24 |
| 22 | 1SV21IS023 | NIRNAY K | 6 | 13 | 8 | 6 | 7 | 6 | 4 | 4 | 6 | 5 | 5 | 5 | 6 | 20 | 4 | 4 | 4 | 4 | 4 | | . 8 | 5 | 9 | 10 | 8 |
| 23 | 1SV21IS024 | PALLAVI D | 18 | 19 | 18 | 18 | 9 | 10 | 10 | 8 | 6 | 6 | 6 | 6 | 6 | 37 | 7 | 7 | 7 | 7 | 7 | 16 31 | 16 | 15 | 13 | 14 | 15 |
| 24 | 1SV21IS025 | RAHUL V | 13 | 16 | 15 | 13 | 10 | 6 | 9 | 6 | 6 | 5 | 5 | 5 | 6 | 26 | 5 | 5 | 5 | 5 | 5 | 24 | 22 | 23 | 23 | 21 | 24 |
| 25 | 1SV21IS026 | RAKSHITHA L | 19 | 20 | 17 | 19 | 10 | 10 | 8 | 9 | 6 | 6 | 6 | 6 | 6 | 29 | 6 | 6 | 6 | 6 | 6 | | 20 | 16 | 19 | 17 | 19 |
| 26 | 1SV21IS027 | RANGANATHA G N | 13 | 16 | 15 | 13 | 9 | 7 | 8 | 7 | 6 | 5 | 5 | 5 | 6 | 23 | 5 | 5 | 5 | 5 | 5 | 31 | 22 | 22 | 20 | 21 | 23 |
| 27 | 1SV21IS028 | SHREEVATHSA M B | 19 | 19 | 16 | 19 | 10 | 9 | 9 | 7 | 6 | 6 | 6 | 6 | 6 | 45 | 9 | 9 | 9 | 9 | 9 | 24 | 19 | 17 | 18 | 18 | 19 |
| 28 | 1SV21IS029 | SOUNDARYA R | 17 | 19 | 17 | 17 | 10 | 9 | 9 | 8 | 6 | 6 | 6 | 6 | 6 | 37 | 7 | 7 | 7 | 7 | 7 | 34 | 25 | 24 | 24 | 22 | 26 |
| 29 | 1SV21IS030 | SYED SUHAIL AHAMED | 16 | 19 | 14 | 16 | 10 | 9 | 8 | 6 | 6 | 6 | 6 | 6 | 6 | 28 | 6 | 6 | 6 | 6 | 6 | 30 | 23 | 22 | 22 | 21 | 24 |
| 30 | 1SV21IS031 | THARUN M S | 15 | 18 | 18 | 15 | 10 | 8 | 9 | 9 | 6 | 5 | 5 | 5 | 6 | 20 | 4 | 4 | 4 | 4 | | 28 | 22 | 21 | 20 | 18 | 21 |
| 31 | 1SV21IS032 | THEJASWINI M | 18 | 20 | 19 | 18 | 10 | 10 | 9 | 10 | 6 | 6 | 6 | 6 | 6 | 28 | 6 | 6 | 6 | | 4 | 25 | 19 | 17 | 18 | 19 | 20 |
| 32 | 1SV21IS033 | VARSHA K V | 16 | 20 | 18 | 16 | 10 | 10 | 9 | 9 | 6 | 6 | 6 | 6 | 6 | 37 | 7 | 7 | 7 | 6 | 6 | 30 | 22 | 22 | 21 | 22 | 23 |
| 33 | 1SV21IS034 | VARSHINIMEGHA | 15 | 15 | 15 | 15 | 10 | 5 | 9 | 6 | 6 | 6 | 6 | 6 | 6 | 37 | 7 | 7 | 7 | 7 | 7 | 29 | 23 | 23 | 22 | 22 | 24 |
| 34 | 1SV21IS035 | VINUTHA H N | 18 | 20 | 18 | 18 | 10 | 10 | 10 | 8 | 6 | 6 | 6 | 6 | 6 | 31 | 6 | | | 7 | 7 | 28 | 23 | 18 | 22 | 19 | 22 |
| 35 | 1SV21IS036 | VISHNU R | 19 | 20 | 20 | 19 | 10 | 10 | 10 | 10 | 6 | 6 | 6 | 6 | | 32 | | 6 | 6 | 6 | 6 | 30 | 22 | 22 | 22 | 20 | 23 |
| 36 | 1SV21IS037 | YASHAS D R | 16 | 20 | 17 | 16 | 10 | 10 | 8 | 9 | 6 | 6 | 6 | 6 | 6 | 40 | 6 8 | 6 | 6 | 6 | 6 | 31 | 22 | 22 | 22 | 22 | 24 |
| 37 | | CHETHAN V | 14 | 20 | 17 | 14 | 10 | 10 | 9 | 8 | 6 | 6 | 6 | 6 | | | 7 | 8 | 8 | 8 | 8 | 30 | 24 | 24 | 22 | 23 | 25 |
| 38 | | HONNESH KUMAR | 15 | 16 | 18 | 15 | 9 | 7 | 9 | 9 | 6 | 6 | | | 6 | 36 | | 7 | 7 | 7 | 7 | 27 | 23 | 23 | 22 | 21 | 23 |
| 39 | The Property of the Park of th | NAVEEN D R | 16 | 17 | 19 | 16 | 8 | 9 | 10 | 9 | 6 | | 6 | 6 | 6 | 18 | 4 | 4 | 4 | 4 | 4 | 25 | 19 | 17 | 19 | 19 | 19 |
| 40 | 1SV22IS403 S | The state of the s | 15 | 14 | 7 | 15 | 8 | 6 | 7 | | | 6 | 6 | 6 | 6 | 20 | 4 | 4 | 4 | 4 | 4 | 26 | 18 | 19 | 20 | 19 | 20 |
| | | | 13 | 14 | / | 13 | 0 | 0 | / | - 0 | 6 | 6 | 6 | 6 | 6 | 25 | 5 | 5 | 5 | 5 | 5 | 26 | 19 | 17 | 18 | 11 | 18 |
| | | | | | | | | | | | | | | | | | | | | | | 26.8 | 20.7 | 20.0 | 20.1 | 19.3 | |
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Information Science
and Engineering
SIET, TUMAKURU-572

PRINCIPAL SIET, TUMKUR.

Sri Shridevi Charitable Trust (R.)

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)



Department of Information Science and Engineering

COURSE OUTCOME

- CO1. Holistic vision of life
- CO2. Socially responsible behaviour
- CO3. Environmentally responsible work
- CO4. Ethical human conduct
- CO5. Having Competence and Capabilities for Maintaining Health and Hygiene
- CO6. Appreciation and aspiration for excellence (merit) and gratitude for all

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage:Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need forsustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

| COLLEGE | | | | | | | GINE | ERIN | G & T | TECH | NOLO | GY | | | -17 |
|---------|-----|------|-------|------|------|-------|------|-------|--------------|------|------|------|--------|------|------|
| FACULTY | NAM | Œ | MR. U | JMES | SH B | L | | | | | | | | | |
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| COURSE | B.] | E | SEM | ESTE | ER | IV | S | ECTI | ON | | | I | 3 | | |
| SUBJECT | UN | IVER | SAL 1 | HUM | AN V | ALUE | es | | BJECT ODE | 7 | | 21 | UHV4 | 9 | |
| | | | | | (| 0 & 1 | РО М | APPI | NG | | | | | | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
| CO1 | | 1 | | | | | | Ante | | | | 3 | 1 | 2 | 1 |
| CO2 | | | | | | | 1 | | , | | | | 1 | | |
| CO3 | | | | | | 2 | | | | | 1. | | 2 | 1 | |
| CO4 | | | | | | | | 3 | | | | 1 | 1 | | 2 |
| CO5 - | | -14 | | | | | 2 | | | | | 1 | 1 | | 1 |
| CO6 | 1 | 1 | | 1 | | | | 1 | | | | | 2 | 1 | |
| AVERAGE | 1 | 1 | | 1 | | 2 | 1.5 | 2 | | | | 1.6 | 1.3 | 1.3 | 1.3 |
| | | | | | OV | ERAL | L MA | APPIN | G OF | SUBJ | ЕСТ | 1.4 | | | |

CO - PO ATTAINMENT

| | C0% | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSOI | PSO2 | PSO3 |
|-----|------|------|------|-----|------|-----|------|------|------|------|-------|----------|------|------|------|------|
| CO1 | 73.5 | | 0.73 | | | | | | | | | | 2.20 | 0.73 | 1.47 | 0.73 |
| CO2 | 72.5 | | | | | | | | 0.72 | | | | | 0.72 | | |
| CO3 | 73.7 | | | | | | 1.47 | | | | | | | 1.47 | 0.73 | |
| CO4 | 68.2 | | | | | | | | 2.04 | | | * 1 - 7- | 0.68 | 0.68 | | 1.36 |
| CO5 | 64 | | | | | | | 1.28 | *** | | | | 0.64 | 0.64 | | 0.64 |
| CO6 | 63.3 | 0.63 | 0.63 | | 0.63 | | | | 0.63 | | | | | 1.26 | 0.63 | |
| AVE | RAGE | 0.63 | 0.68 | | 0.63 | | 1.47 | 1.28 | 1.13 | | | | 1.17 | 0.91 | 0.94 | 0.91 |
| | | | | | | | F | NAL. | ATTA | INME | NT LE | VEL | 0.97 | | | |

| JOB: | Universal Hum | an values | | | Sem | :IV | | | NO. | OPT: ISI | E | 18.5 | | 2022-2 | 23 | | EVE | N | 4 | | 1,0 | FA | CULTY | NAME | : Mr Um | sh B L | 3 1 | 7 | | | |
|-------------|-----------------|--------------------------|------|-------|-----|------|------|------|------|----------|---------|------|-------|--------|---------|--------|------|---------------|------|------|-------|------|-------|-----------------------|---------|--------|--------|--------|--------|-------|-----|
| Roll No. | USN | Name | | 21UH4 | 19 | | T1 | | L35 | 1 | r3 | ASS | SIGNM | IENT I | 10 + Qu | ıiz 20 | | | Tea | EXT | ERNAL | | | | | | FI | NAL | | | T |
| 140. | | | T1 | T2 | Т3 | CO1- | CO2- | CO3- | 10 | CO5- | CO6- | CO1- | CO2- | CO3- | CO4- | C05- | CO6- | A PROPERTY OF | CO1- | CO2- | CO3- | C04- | CO5- | CO6- | CO1-27 | CO2-27 | CO3-27 | CO4-27 | CO5-27 | CO6-2 | TO |
| 1 | 1SV21IS001 | ABDUL HADY | 20 | 17 | 15 | 10 | 10 | 8 | 9 | 7 | 8 | 5 | 5 | 5 | 3 | 3 | 3 | (50) | 6.3 | 6.3 | 6.3 | 12 | 12 | 12 | | | | | | | |
| 2 | 1SV21IS002 | ABHIIITH B N | 20 | 17 | 13 | 10 | 10 | 8 | 19 | 6 - | 7 | 4 | 5 | 5 | 5 | 5 | 5 | 32 | 5.3 | 5.3 | 5.3 | 6.3 | 6.3 | 6.3 | 21.3 | 21.3 | 19.3 | 18.3 | 16.3 | 17.3 | |
| 3 | 1SV21IS003 | ABHISHEK BASAVARAJ ARALI | 20 | 17 | 13 | 10 | 10 | 8 | 19 | 7 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 35 | 5.8 | 5.8 | 5.8 | 5.3 | 5.3 | 5.3 | 19.3 | 20.3 | 18.3 | 19.3 | 16.3 | 17.3 | - |
| 4 | 1SV21IS004 | DAKSHITH S | 20 | 19 | 16 | 10 | 10 | 10 | 190 | 8 | 8 | 5 | 5 | 5 | 5 | 5 | 5 | 30 | 5.0 | 5.0 | 5.0 | | 5.8 | 5.8 | 20.8 | 20.8 | 18.8 | 19.8 | 17.8 | 16.8 | |
| 5 | 1SV21IS005 | DANESHWARI | 20 | 17 | 13 | 10 | 10 | 10 | '7 | 6 | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 28 | 4.7 | 4.7 | | 5.0 | 5.0 | 5.0 | 20.0 | 20.0 | 20.0 | 19.0 | 18.0 | 18.0 | |
| 6 | 1SV21IS006 | DEEKSHA K | 20 | 17 | 12 | 10 | 10 | 10 | 7 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 3 | 34 | 5.7 | 5.7 | 5.7 | 4.7 | 4.7 | 4.7 | 19.7 | 19.7 | 19.7 | 16.7 | 15.7 | 16.7 | |
| 7 | 1SV21IS007 | DEEPIKA B.M | 20 | 18 | 13 | 10 | 10 | 10 | 18 | 6 | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 34 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 20.7 | 20.7 | 20.7 | 17.7 | 16.7 | 14.7 | 1 |
| 8 | 1SV211S008 | DHISHANTH G PATEL | 20 | 17 | 10 | 10 | 10 | 10 | 77 | 5 | 5 | 4 | 5 | 5 | 5 | 5 | 5 | 28 | 4.7 | | | 5.7 | 5.7 | 5.7 | 20.7 | 20.7 | 20.7 | 18.7 | 16.7 | 17.7 | . 1 |
| 9 | 1SV21IS009 | GAGANA'S | 19 | 18 | 13 | 10 | 9 | 10 | - 8 | 6 | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 34 | - | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 18.7 | 19.7 | 19.7 | 16.7 | 14.7 | 14.7 | |
| 10 | 1SV21IS010 | H M PRAJWAL KUMAR | 19 | 17 | 12 | 10 | 9 | 10 | 7 | 6 | 6 | 4 | 5 | 5 | 5 | 5 | 5 | 32 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 20.7 | 19.7 | 20.7 | 18.7 | 16.7 | 17.7 | 1 |
| 11 | 1SV21IS011 | HARSHITHAM | 19 | 16 | 13 | 10 | 9 | 8 | 8 | 6 | 7 | 5 | 5 | 5 | 5 | 5 | 4 | | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 19.3 | 19.3 | 20.3 | 17.3 | 16.3 | 16.3 | 1 |
| 12 | 1SV21IS012 | HIMAVANTEEK | 16 | 18 | 13 | 8 | 8 | 10 | 18 | 7 1 | 6 | 5 | 5 | 5 | 5 | 5 | - | 34 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 20.7 | 19.7 | 18.7 | 18.7 | 16.7 | 16.7 | 1 |
| 3 | 1SV21IS013 | KANTHARABUTAT | 16 | 10 | 12 | 8 | 8 | 5 | 5 | 6 | 6 | 4 | 5 | 5 | 5 | 5 | 5 | 3/1 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 18.2 | 18.2 | 20.2 | 18.2 | 17.2 | 16.2 | |
| 4 | 1SV21IS014 | KEERTHANAIK S | 20 | 19 | 14 | 10 | 10 | 10 | 19 | 7 | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 30 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 17.0 | 18.0 | 15.0 | 15.0 | 16.0 | 16.0 | 1 |
| 5 | ISV21IS015 | KRISHNAMEDUREY P.G | 20 | 18 | 13 | 10 | 10 | 10 | *8 | 7 | 6 | 3 | 4 | 5 | 5 | 5 | 5 | 38 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 21.3 | 21.3 | 21.3 | 20.3 | 18.3 | 18.3 | 1 |
| 6 | 1SV21IS016 | MANOJ R | 18 | 17 | 15 | 10 | 8 | 10 | 77 | 7 | 8 | 5 | 5 | 5 | | | 5 | 38 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 19.3 | 20.3 | 21.3 | 19.3 | 18.3 | 17.3 | |
| 7 | 1SV21IS017 | MANOJ T | 20 | 19 | 13 | 10 | 10 | 10 | 9 | 6 | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 377 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 21.2 | 39.2 | 21.2 | 18.2 | 18.2 | 19.2 | |
| 8 | 1SV21IS018 | MANOJA SIS | 18 | 17 | 12 | 10 | 8 | 8 | 19 | 6 | 6 | 3 | 3 | 5 | 5 | 5 | 5 | 25 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 19.2 | 19.2 | 19.2 | 18.2 | 15.2 | 16.2 | 1 |
| 9 | 1SV21IS019 | MARUTHIGN | 20 | 18 | 15 | 10 | 10 | 10 | 8 | 7 | 8 | 3 | 3 | 5 | 5 | | 5 | 38 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 18.0 | 16.0 | 18.0 | 19.0 | 16.0 | 16.0 | 1 |
| 20 | 1SV211S021 | NAVYA SHREEK S | 20 | 18 | 15 | 10 | 10 | 10 | 8 | 8 | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 35 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 18.8 | 18.8 | 20.8 | 18.8 | 17.8 | 18.8 | 1 |
| 1 | 1SV21IS022 | NINGALAH | 17 | 18 | 7 | 10 | 7 | 10 | 88 | 4 | 3 | 3 | | 5 | | 5 | 5 | 2/8 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 19.7 | 19.7 | 19.7 | 17.7 | 17.7 | 16.7 | 1 |
| 22 | 1SV21IS023 | NIRNAY K | 17 | 17 | 10 | 10 | 7 | 10 | 77 | 5 | 5 | 4 | 5 | 5 | 5 | 5 | 5 | 18 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 16.0 | 14.0 | 18.0 | 16.0 | 12.0 | 11.0 | 1 |
| 3 | 1SV21IS024 | PALLAVID | 20 | 18 | 16 | 10 | 10 | 10 | 8 | 8 | 8 | 5 | 5 | 5 | 5 | 5 | 4 | 31 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 19.2 | 17.2 | 20.2 | 17.2 | 13.2 | 14.2 | 1 |
| 4 | 1SV21IS025 | RAHUL V | 20 | 17 | 12 | 10 | 10 | 10 | 77 | 6 | 6 | 5 | 5 | 5 | - | | 5 | 42 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 22.0 | 22.0 | 22.0 | 20.0 | 20.0 | 20.0 | 2 |
| 5 | 1SV21IS026 | RAKSHITHAIL | 20 | 17 | 13 | 10 | 10 | 10 | 77 | 6 | 7 | 5 | 5 | 5 | 5 | 5 | 4 | 29 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 19.8 | 19.8 | 19.8 | 16.8 | 15.8 | 14.8 | 1 |
| 6 | 1SV21IS027 | RANGANATHA G N | 19 | 16 | 17 | 10 | 9 | 8 | - 18 | 8 | 9 | 3 | 4 | 5 | 5 | | 5 | 28 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 19.7 | 19.7 | 19.7 | 16.7 | 15.7 | 16.7 | 18 |
| 7 | ISV21IS028 | SHREEVATUSA M B | 20 | 19 | 17 | 10 | 10 | 10 | 9 | 9 | 8 | 5 | 5 | 5 | | 5 | 5 | 32 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 18.3 | 18.3 | 18.3 | 18.3 | 18.3 | 19.3 | 18 |
| 8 | 1SV21IS029 | SOUNDARWAIR | 19 | 18 | 12 | 10 | 9 | 10 | 18 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 36 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 21.0 | 21.0 | 21.0 | 20.0 | 20.0 | 19.0 | 20 |
| 9 | 1SV21IS030 | SYED SUHAIL ANAMED | 19 | 17 | 14 | 10 | 9 | 10 | 7 | 7 | 7 | 3 | 3 | | 5 | 5 | 5 | 38 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 21.3 | 20.3 | 21.3 | 19.3 | 17.3 | 17.3 | 19 |
| 0 | 1SV21IS031 | THARUN MIS | 19 | 18 | 14 | 10 | 9 | 10 | 18 | 7 | 7 | 3 | 3 | 5 | 5 | 5 | 4 | 37 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 19.2 | 18.2 | 21.2 | 18.2 | 18.2 | 17.2 | 18 |
| 1 | 1SV21IS032 | THEJASWENEM | 20 | 18 | 15 | 10 | 10 | 10 | 8 | 7 | 8 | 5 | 5 | 5 | 5 | 5 | 5 | 36 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 19.0 | 18.0 | 21.0 | 19.0 | 18.0 | 18.0 | 18 |
| 2 | 1SV21IS033 | VARSHA K V | 19 | 16 | 14 | 10 | 9 | 8 | 18 | 7 | 7 | 5 | | 5 | 5 | 5 | 5 | .38 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 21.3 | 21.3 | 21.3 | 19.3 | 18.3 | 19.3 | 20 |
| 3 | 1SV21IS034 | VARSHINIMEGHA | 19 | 15 | 14 | 10 | 9 | 7 | 18 | 7 | 7 | - | 5 | 5 | 5 | 5 | 5 | 31 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 20.2 | 19.2 | 18.2 | 18.2 | 17.2 | 17.2 | 18 |
| 1 | 1SV21IS035 | | 20 | 18 | 18 | 10 | 10 | 10 | 18 | 10 | 8 | 5 | 5 | 5 | 5 | 5 | 4 | 18 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 18.0 | 17.0 | 15.0 | 16.0 | 15.0 | 14.0 | 1: |
| , | 1SV21IS036 | | 20 | 19 | 17 | 10 | 10 | 10 | 9 | 10 | _ | 5 | 5 | 5 | 5 | 5 | 5 | 42 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 22.0 | 22.0 | 22.0 | 20.0 | 22.0 | 20.0 | 2 |
| 1 | | | | 19 | 17 | 10 | 10 | 10 | 9 | | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 42 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 22.0 | 22.0 | 22.0 | 21.0 | 22.0 | 19.0 | 21 |
| - | PASSAGE SERVICE | | 20 1 | 10 | 17 | 10 | 10 | 10 | 20 | 10 | 1 | 4 | 5 | 5 | 5 | 5 | 5 | 44 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 21.3 | 22.3 | 22.3 | 21.3 | 22.3 | 19.3 | 21 |
| | | | | | | | | | | | P. 1014 | | | | | | | | | | | | 12 E | STATE OF THE PARTY OF | 19.9 | 19.6 | 19.9 | 18.4 | 17.3 | 17.1 | |

STAFF SIGNATURE

PRINCIPAL SIET. TUMKUR. Information Science

Information Science

Engineering

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SIET, TUMAKURU-572106

| COLLEGE | | | SHR | IDEV | IINS | TITU | ГЕ О | F ENG | INEE | RING | & TE | CHNO | DLOG | Y | |
|---------|-----|-----|-------|-------|-------|--------|------|---------|-------|------|------|---------|--------|------|-------|
| FACULTY | NAM | Œ | Mr. S | UTHA | AN R | i de | | - X | | | | | | | |
| BRANC | СН | | ISE | | | A | CADI | EMIC | YEAR | | 3-4- | 2 | 022-23 | | |
| COURSE | B. | E | SEM | ESTE | ER | VI | 5 | SECTION | ON | | | | | | |
| SUBJECT | | S | OFTW/ | ARE T | ESTIN | NG | | SUBJ | ECT (| CODE | | | 18IS6 | 2 | |
| | | | | | (| CO & 1 | PO M | IAPPII | NG | | | -1 - 19 | | | |
| THE HER | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
| CO1 | 3 | | | | | | | | | | | | | | |
| CO2 | 3 | 2 | | | | | | | | | | | | | |
| CO3 | 3 | 2 | 2 | 2 | NA IA | | | | | | | | 2 | 3 | |
| CO4 | 3 | 2 | 2 | 2 | | | | 18.0 | | | | | 2 | 3 | |
| CO5 | 3 | 2 | 2 | 2 | | | | | | | | | 2 | 3 | |
| CO6 | 3 | 2 | | | | | | | | | | | 2 | 3 | |
| AVERAGE | 3 | 2 | 2 | 2 | | | | | | | | | 2 | 3 | |
| | | | | | ov | ERAL | L M | APPIN | G OF | SUBJ | ЕСТ | 2.33 | | | TATES |

| 4,43 | CO% | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
|-------|-------|------|------|------|------|-----|-----|-------|-----|------|-------|------|------|------|------|--------------|
| CO1 | 76.07 | 2.28 | | | | | | | | | | | | | | |
| CO2 | 65.2 | 1.95 | 1.30 | | | | | | | | | | | | | |
| CO3 | 69.2 | 2.07 | 1.38 | 1.38 | 1.38 | • | | | | | | | *** | 1.38 | 2.07 | |
| CO4 | 61.2 | 1.83 | 1.22 | 1.22 | 1.22 | | | | | 1 | | | | 1.22 | 1.83 | |
| CO5 | 70.7 | 2.12 | 1.41 | 1.41 | 1.41 | | | | | | | | | 1.41 | 2.12 | |
| CO6 | 69.8 | 2.09 | 1.39 | | | | | | | | | | | | 2.09 | |
| AVERA | AGE | 2.05 | 1.34 | 1.33 | 1.33 | | | | | | | | | 1.33 | 2.02 | TANK MANA |
| | | | | | | | FIN | NAL A | TTA | INME | NT LE | VEL | 1.56 | | | |



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY SIRA ROAD, TUMKUR- 572 106.

Department of Information Science and Engineering

COURSE OUTCOME

CO1. Understand the fundamentals of Software Testing, software lifecycle and testing role.

CO2. Understand specialized testing & Understand test design

CO3. Have the ability to Understand test management & Understand test automation & tools

CO4. Understand other skills in testing & getting to the next level in software testing

CO5: Explore the basic test issues while test the applications

CO6: Identify and fix the major bugs & report to the developer.

PROGRAM OUTCOMES

- PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4 Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

| Roll | TION | | CIID. | 18CS62 | 100 Por 100 Po | | | n:VI | 202 | 22-23 | E | VEN | 7 | | | | | | | | | | | | | | | | | | |
|------|------------|----------------------|-------|-----------|--|----|----|------|-----|-------|-------------------|------|------|-------|------|------|------|------|------|------|-------|------|------|------|-----|-------|------|------|------|------------|-------|
| No. | USN | Name | SUB:S | Software' | Testing | | | | Γ2 | | Г3 | | A: | SSIGN | MENT | 10/5 | | 1 | | F | XTERN | TAT | | | 1 | FACUL | _ | | an R | | |
| | | | T1 | T2 | T3 | | | | | CO5- | White the same of | CO1- | CO2- | CO3- | C04- | CO5- | C06- | SEE | CO1- | CO2. | CO3- | CO4- | CO5- | Icor | 001 | Loos | | nal | | | TOTAL |
| | | BHAVANA S | 29 | 28 | 29 | 15 | 15 | 15 | 15 | 13 | 15 | 2 | 2 | 2 | 2 | 1 | 1 | (60) | 10 | 10 | 10 | 10 | 10 | 10 | 27 | CO2- | CO3- | CO4- | CO5- | CO6- 26 | AVG |
| 2 | 1SV20IS002 | DARSHAN NAYAK B M | 18 | 23 | 23 | 13 | 5 | 11 | 12 | 15 | 14 | 2 | 2 | 2 | 2 | 1 | 1 | 44 | 7 | 7 | 7 | 7 | 7 | 7 | 23 | 24 | 23 | 23 | 23 | 22 | 23 |
| 3 | 1SV20IS003 | DEEPA R ARADHYA MATA | 29 | 27 | 29 | 15 | 14 | 14 | 13 | 13 | 10 | 2 | 2 | 2 | 2 | 1 | 1 | 54 | 9 | 9 | 9 | 9 | 9 | 9 | 24 | 16 | 22 | 23 | 23 | 20 | 21 |
| | | DHAVALASHREE B JAIN | 29 | 28 | 29 | 14 | 15 | 14 | 14 | 15 | 15 | 2 | 2 | 2 | 2 | 1 | 1 | 23 | 4 | 4 | 4 | 4 | 4 | 4 | 21 | 20 | 20 | 19 | 19 | 20 | 20 |
| | | HEMANTH SANGAM M | 10 | 12 | 22 | 10 | 0 | 9 | 2 | 10 | 14 | 2 | 2 | 2 | 2 | 1 | 1 | 39 | 7 | 7 | 7 | 7 | 7 | 7 | 23 | 24 | 23 | 23 | 23 | 22 | 23 |
| | | KEERTHANA N | 27 | 24 | 29 | 15 | 12 | 12 | 12 | 14 | 12 | 2 | 2 | 2 | 2 | 1 | 1 | 21 | 4 | 4 | 4 | 4 | 4 | 4 | 16 | 6 | 15 | 9 | 15 | 17 | 13 |
| 7 | ISV20IS008 | NETHRAVATHI K E | 29 | 0 | 24 | 14 | 15 | 0 | 0 | 14 | 15 | 2 | 2 | 2 | 2 | 1 | 1 | 33 | 6 | 6 | 6 | 6 | 6 | 6 | 23 | 20 | 20 | 20 | 21 | 22 | 21 |
| | | NITHIN D G | 18 | 12 | 16 | 13 | 5 | 9 | 3 | 2 | 10 | 2 | 2 | 2 | 2 | 1 | 1 | 39 | 7 | 7 | 7 | 7 | 7 | 7 | 23 | 24 | 9 | 9 | 22 | 18 | 17 |
| | SV20IS010 | | 28 | 29 | 29 | 15 | 13 | 14 | 15 | 15 | 14 | 2 | 2 | 2 | 2 | 1 | 1 | 21 | 4 | 4 | 4 | 4 | 4 | 4 | 19 | 11 | 15 | 9 | 7 | 19 | 13 |
| | | REVATHI P O | 28 | 26 | 29 | 15 | 13 | 14 | 12 | 14 | 14 | 2 | 2 | 2 | 2 | 1 | 1 | 33 | 6 | 6 | 6 | 6 | 6 | 6 | 23 | 21 | 22 | 23 | 22 | 21 | 22 |
| | | SHESHADRI T | 26 | 23 | 22 | 14 | 12 | 11 | 12 | 14 | 15 | 2 | 2 | 2 | 2 | 1 | 1 | 30 | 5 | 5 | 5 | 5 | 5 | 5 | 22 | 20 | 21 | 19 | 20 | 21 | 21 |
| | | SUDEEP R V S | 21 | 15 | 21 | 12 | 9 | 12 | 2 | 8 | 8 | 2 | 2 | 2 | 2 | 1 | 1 | 31 | 5 | 5 | 5 | 5 | 5 | 5 | 21 | 19 | 18 | 19 | 20 | 14 | 19 |
| 13 1 | SV20IS014 | THOUHID J K | 14 | 21 | 9 | 8 | 6 | 14 | 7 | 9 | 13 | 2 | 2 | 2 | 2 | 1 | 1 | 25 | 4 | 4 | 4 | 4 | 4 | 4 | 18 | 15 | 18 | 9 | 13 | 18 | 15 |
| | | | | | | | | | | 9 | 0 | 2 | 2 | 2 | 2 | 1 | 1 | 21 | 4 | 4 | 4 | 4 | 4 | 4 | 14 | 12 | 20 | 13 | 14 | 5 | 13 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 21 | 18 | 19 | 17 | 18 | 18 | 13 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 76% | 65% | | | 71% | | |

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SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR-572 106.

Department of Information Science and Engineering

COURSE OUTCOME

- CO1. Describe the concepts involved in Object-Oriented modelling and their benefits.
- **CO2.** Demonstrate concept of use-case model, sequence model and state chart model for a given problem.
- CO3. Explain the facets of the unified process approach to design and build a Software system.
- CO4. Translate the requirements into implementation for Object Oriented design.
- CO5. Choose an appropriate design pattern to facilitate development procedure.

PROGRAM OUTCOMES

- **PO1** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- **PO2** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO3** Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
- **PO4** Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.
- **PO5** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.
- **P06** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
- **PO7** Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10** Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- **PO11** Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.
- **PO12** Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

| COLLEGE | SHR | IDE' | VI INS | TITU | TE O | F ENC | SINE | ERING | G & T | ECHN | OLO | GY | | | |
|-------------|-----|------|------------------|--------------|------|-------|------|-------|--------------|-----------|------|------|--------|------|------|
| FACULTY | NAM | E | MR. V | ENU | GOPA | AL D | | | TELETE. | | | | | | |
| BRANC | СН | | I | SE | | AC | ADE | MIC Y | YEAR | | | 20 | 022-23 | | |
| COURSE | В. | E | SEM | ESTE | R | VI | SI | ECTIO | ON | | | | | | |
| SUBJECT | ОВ | JEC | T ORIE AND | NTED DESI | | ELIN | G | | BJECT ODE | | 45 | 18 | CS642 | | |
| | | | aria ne a las | | (| O & 1 | PO M | APPI | NG | bering. | | | | | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
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| CO2 | 1 | | 2 | | | | | | | | | 2 | 2 | 1 | 2 |
| CO3 | 1 | | 2 | | | | M. | 花樓 | | | | 2 | 2 | 1 | 2 |
| CO4 | 1 | | 2 | | | | | | | | | 2 | 2 | 1 | 2 |
| CO5 | 1 | | 2 | | | | | | | 112112 | | 2 | 2 | 1 | 2 |
| AVERAGE | 1 | | 2 | | | | | | | | | 2 | 2 | 1 | 2 |
| K (variety) | | | | | OV | ERAI | LLM | APPI | NG OI | SUB | JECT | 1.66 | | | |

| | CO% | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | POS | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
|-----|-------|------|-----|------|-----|----------|-----|-----|------|------|-------|------|------|------|------|------|
| CO1 | 56.4 | 0.56 | | 1.12 | | | | | | | | | 1.12 | 1.12 | 0.56 | 1.12 |
| CO2 | 62.2 | 0.62 | | 1.24 | | | | | | | | | 1.24 | 1.24 | 0.62 | 1.24 |
| CO3 | 62.8. | 0.62 | | 1.25 | | | | | | | | | 1.25 | 1.25 | 0.62 | 1.25 |
| CO4 | 73.4 | 0.73 | | 1.46 | | | | | | | | | 1.46 | 1.46 | 0.73 | 1.46 |
| C05 | 70.2 | 0.70 | | 1.40 | | 1,421,00 | | | | | | | 1.40 | 1.40 | 0.70 | 1.40 |
| AVE | RAGE | 0.64 | | 1.29 | | | | | | | | | 1.29 | 1.29 | 0.64 | 1.29 |
| | 1 | | | | | | FI | NAL | ATTA | INMI | ENT L | EVEL | 1.07 | | | |

| 1 1SV2 | | Name BHAVANA S | T1 | T2 | T3 | T1 | 7 | Γ2 | r | 3 | | CCICI | | | SHIP OF THE PARTY | | CANADA INCOME. | The second second | | | | | | | | _ | - |
|---------|----------|----------------------|----|----|----|-----|------|-------|------------|------------|-----------|-----------|------|-----------|---|-------------|----------------|-------------------|------------|------------|------------|------|------------|------|------|------|-----|
| 1 1SV2 | /20IS001 | | | T2 | Т3 | COL | | 11000 | | | A | 1991G | MEN | T 10/ | 10 | | EXTE | RNA | | | | | Fi | nal | | WE W | тот |
| | | BHAVANA S | | | | 30 | CO2- | CO3- | CO4- 15 | CO5- 15 | CO1- 2 | CO2- 2 | CO3- | CO4- 2 | CO5- | SEE (60) | CO1- 12 | CO2- 12 | CO3- 12 | CO4- 12 | CO5- 12 | CO1- | CO2- 29 | CO3- | CO4- | CO5- | |
| 2 1SV2 | 12010000 | | 26 | 27 | 30 | 26 | 12 | 15 | 15 | 15 | 2 | 2 | 2 | 2 | 2 | 44 | 9 | 9 | 9 | 9 | 9 | 37 | 23 | 26 | 26 | 26 | 27 |
| | /2015002 | DARSHAN NAYAK B M | 17 | 20 | 28 | 17 | 12 | 8 | 14 | 14 | 2 | 2 | 2 | 2 | 2 | 38 | 8 | 8 | 8 | 8 | 8 | 27 | 22 | 18 | 24 | 24 | 23 |
| 3 1SV2 | /20IS003 | DEEPA R ARADHYA MATA | 21 | 30 | 30 | 21 | 15 | 15 | 15 | 15 | 2 | 2 | 2 | 2 | 2 | 31 | 6 | 6 | 6 | 6 | 6 | 29 | 23 | 23 | 23 | 23 | 24 |
| 4 1SV2 | /20IS004 | DHAVALASHREE B JAIN | 23 | 27 | 30 | 23 | 14 | 13 | 15 | 15 | 2 | 2 | 2 | 2 | 2 | 33 | 7 | 7 | 7 | 7 | 7 | 32 | 23 | 22 | 24 | 24 | 25 |
| 5 1SV2 | 720IS005 | HEMANTH SANGAM M | 4 | 5 | 19 | 4 | 1 | 4 | 11 | 8 | 2 | 2 | 2 | 2 | 2 | 9 | 2 | 2 | 2 | 2 | 2 | 8 | 5 | 8 | 15 | 12 | 9 |
| 6 1SV2 | 20IS006 | KEERTHANA N | 16 | 28 | 30 | 16 | 14 | 14 | 15 | 15 | 2 | 2 | 2 | 2 | 2 | 57 | 11 | 11 | 11 | 11 | 11 | 29 | 27 | 27 | 28 | 28 | 28 |
| 7 1SV2 | 20IS008 | NETHRAVATHI K E | 18 | 23 | 27 | 18 | 12 | 11 | 14 | 13 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 14 | 13 | 16 | 15 | 16 |
| 8 1SV2 | 20IS009 | NITHIN D G | 11 | 2 | 24 | 11 | 0 | 2 | 12 | 12 | 2 | 2 | 2 | 2 | 2 | 9 | 2 | 2 . | 2 | 2 | 2 | 15 | 4 | 6 | 16 | 16 | 11 |
| 9 1SV2 | 20IS010 | REKHA | 26 | 28 | 30 | 26 | 14 | 14 | 15 | 15 | 2 | 2 | 2 | 2 | 2 | 46 | 9 | 9 | 9 | 9 | 9 | 37 | 25 | 25 | 26 | 26 | 28 |
| 10 1SV2 | 20IS011 | REVATHI P O | 25 | 30 | 30 | 25 | 15 | 15 | 15 | 15 | 2 | 2 | 2 | 2 | 2 | 32 | 6 | 6 | 6 | 6 | 6 | 33 | 23 | 23 | 23 | 23 | 25 |
| 11 1SV2 | 2018012 | SHESHADRI T | 18 | 26 | 26 | 18 | 13 | 13 | 13 | 13 | 2 | 2 | 2 | 2 | 2 | 27 | 5 | 5 | 5 | 5 | 5 | 25 | 20 | 20 | 20 | 20 | 21 |
| 12 1SV2 | 2018013 | SUDEEP R V S | 9 | 16 | 23 | 9 | 8 | 8 | 12 | 11 | 2 | 2 | 2 | 2 | 2 | 21 | 4 | 4 | 4 | 4 | 4 | 15 | 14 | 14 | 18 | 17 | 16 |
| 13 1SV2 | 20IS014 | тноинід ј к | 10 | 12 | 17 | 10 | 6 | 6 | 12 | 5 | 2 | 2 | 2 | 2 | 2 | 16 | 3 | 3 | 3 | 3 | 3 | 15 | 11 | 11 | 17 | 10 | 13 |
| | | | | | | | | | | | | | | | | | | | | | | 24.8 | 18.0 | 18.2 | 21.3 | 20.4 | |

16/1/234

Curch Curch HOD Science Engineering and SIET, TUMAKURU-572106



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR-572 106.

DEPARTMENT OF INFORMATION SCIENCE AND ENGG

SUBJECT RENEWABLE ENERGY RESOURCES SUBJECT CODE 18EE653

COURSE OUTCOME

CO1: Discuss causes of energy scarcity and its solution, energy resources and availability of renewable energy.

CO2: Outline energy from sun, energy reaching the Earth's surface and solar thermal energy applications.

CO3: Discuss types of solar collectors, their configurations, solar cell system, its characteristics and their applications.

CO4: Explain generation of energy from hydrogen, wind, geothermal system, solid waste and agriculture refuse.

CO5: Discuss production of energy from biomass, biogas.

CO6: Summarize tidal energy resources, sea wave energy and ocean thermal energy.

PSO1: To Create, select, and apply appropriate techniques, resources, modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PSO2: To manage complex IT projects with consideration of the human, financial, ethical and environmental factors and an understanding of risk management processes, and operational and policy implications.

PSO3: Acquaint module knowledge on emerging trends of the modern era in computer science and engineering.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage:Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling to complex engineering activities.

PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need forsustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

| COLLEGE | | SHRII | DEVI I | INSTI | TUTE | OF EN | GINI | EERING | - C II | CIINO | LOGI | |
|------------|-------|-------|--------|-------|---|-------|------|--------------|--------|-------|-------|------|
| FACULTY | NAM | E D | r. CH | ARAN | ΚV | } | | | | | | |
| BRANC | СН | | I | SE | | A | CADE | EMIC Y | EAR | | 2022- | 23 |
| COURSE | B.I | E | SEM | ESTER | 2 | VI | S | ECTIO | N | | | |
| SUBJECT | RE | NEWA | BLE E | NERGY | RESC | URCE | S | SUBJE | CT CC | DE | 18EE | 653 |
| CO & PO M | APPIN | NG | | | 10 34 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | Barris Later | | | | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
| CO1 | 3 | 2 | 3 | 1 | 3 | | | 2 | 1 | 1 | 1 | 2 |
| CO2 | 3 | 3 | 3 | 1 | 1 | | | 2 | 1 | 1 | 1 | 2 |
| CO3 | 3 | 2 | 2 | 1 | 1 | | | 2 | 1 | 1 | 1 | 2 |
| CO4 | 3 | 2 | 2 | 1 | 1 | | | 2 | 1 | 1 | 1 | 2 |
| CO5 | 3 | 2 | 1 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 2 |
| CO6 | 3 | 2 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 2 |
| AVERAGE | 3 | 2.16 | 2 | 1 | 1.33 | | | 1.66 | 1 | 1 | 1 | 2 |
| 国际的 | | | | | | OV | ERAI | LL MAP | PING | OF SU | BJECT | 1.34 |

| CO AN | D PO A | TTAIN | 1ENT | | | | | | | HOL | 2010 | DO11 | PO12 |
|---------|--------|--------|-------|-------|--------------|--------|---------------------------------------|-----|--------|--------|--------|---------|--------|
| | CO% | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PUIZ |
| CO1 | 0.28 | 0.8565 | 0.571 | 0.857 | 0.2855 | 0.8565 | | | 0.571 | 0.2855 | 0.2855 | 0.2855 | 0.571 |
| CO2 | 0.24 | 0.7251 | 0.725 | 0.725 | 0.2417 | 0.2417 | | | 0.4834 | 0.2417 | 0.2417 | 0.2417 | 0.4834 |
| CO3 | 0.28 | 0.8697 | 0.58 | 0.58 | 0.2899 | 0.2899 | | | 0.5798 | 0.2899 | 0.2899 | 0.2899 | 0.5798 |
| | 0.28 | 0.8697 | 0.58 | 0.58 | 0.2899 | 0.2899 | | | 0.5798 | 0.2899 | 0.2899 | 0.2899 | 0.5798 |
| CO4 | 1 600 | 0.7782 | 0.519 | 0.259 | 0.2594 | 0.2594 | | | 0.2594 | 0.2594 | 0.2594 | 0.2594 | 0.5188 |
| C05 | 0.25 | | | | 0.2594 | 0.2594 | | | 0.2594 | 0.2594 | 0.2594 | 0.2594 | 0.5188 |
| CO6 | 0.25 | 0.7782 | 0.519 | 0.259 | MARKET STATE | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 1,4152 | 0.2725 | 1.2725 | 0.27245 | 0.5449 |
| AVERAGE | 0.265 | 0.817 | 1.545 | 0.558 | 0.272 | 0.558 | | | | | | IFVEL | 1.68 |
| | | | | | | | | | FINAL | ATTAI | NMENT | LEVEL | 1.68 |

| | PSO1 | PSO2 | PSO3 |
|---------|------|------|------|
| CO1 | 2 | 2 | 2 |
| CO2 | 2 | 2 | 2 |
| CO3 | 2 | 2 | 2 |
| CO4 | 2 | 1 | 2 |
| CO5 | 2 | 2 | 2 |
| CO6 | 2 | 2 | 2 |
| AVERAGE | 2 | 2 | 2 |

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| Academic year | 2021 | 1-22 | SEM | 3rd ISE | | otal ength | 12 | | 18EE653 | | | R | enew | able I | Energ | gy Re | sourc | ės | | | | | | | | | | | | |
|------------------|------|-------------|--------|---------|--------|---------------|------|--------|---------|------|------|------|------|--------|-------|-------|-------|-------|------|------|------------|------------|------------|----------------------------|------|-------------|--------|-------|--------------|---------|
| | IAT | FEST | 1(30M) | IA | TEST 2 | (30M) | IA | TEST 3 | (30M) | ASSI | GNEM | ENT/ | QUIZ | (10 M) | | SEE | MAR | KS(60 |) | | % of i | ndivid | ual CO | | T | otal C | O's At | tainm | ent | SEE Tot |
| USN | CO1 | CO4 | TOTAL | CO3 | CO4 | TOTAL | CO4 | CO5 | TOTAL | CO1 | CO2 | CO3 | CO4 | CO5 | CO1 | CO2 | СОЗ | CO4 | CO5 | CO1= | CO2= 29 | CO3= 29 | CO4= 29 | CO5= 29 | | TO THE REAL | СОЗ | | Per de la la | |
| 1SV20IS001 | 14 | 14 | 28 | 14.5 | 14.5 | 29 | 13.5 | 13.5 | 27 | 2 | 2 | 2 | 2 | 2 | 8 | 8 | 8 | 8 | 10 | 86.4 | 84.5 | 84.5 | 81.0 | 87.9 | 38 | 24.5 | 24.5 | 23.5 | 25.5 | 40 |
| 1SV20IS002 | 14 | 14 | 28 | 15 | 15 | 30 | 15 | 15 | 30 | 2 | 2 | 2 | 2 | 2 | 6.2 | 6.2 | 6.2 | 6.2 | 7.75 | 82.3 | 80.0 | 80.0 | 80.0 | 85.3 | 36.2 | | | | 24.8 | |
| 1SV20IS003 | 14 | 14 | 28 | 13.5 | 13.5 | 27 | 10 | 10 | 20 | 2 | 2 | 2 | 2 | 2 | 7.4 | 7.4 | 7.4 | 7.4 | 9.25 | 85.0 | 79.0 | 79.0 | 66.9 | 73.3 | 37.4 | | 22.9 | | 21.3 | |
| 1SV20IS004 | 14 | 14 | 28 | 14.5 | 14.5 | 29 | 11 | 11 | 22 | 2 | 2 | 2 | - 2 | 2 | 5.2 | 5.2 | 5.2 | 5.2 | 6.5 | 80.0 | 74.8 | 74.8 | 62.8 | | | | 21.7 | | 19.5 | |
| 1SV20IS005 | 14.5 | 14.5 | 29 | 14.5 | 14.5 | 29 | 14 | 14 | 28 | 2 | 2 | 2 | 2 | 2 | 8.2 | 8.2 | 8.2 | 8.2 | 10.3 | 89.1 | 85.2 | 85.2 | 83.4 | | | | 24.7 | | | 41 |
| 1SV20IS006 | 14 | 14 | 28 | 15 | 15 | -30 | 12 | 12 | 24 | 2 | 2 | 2 | 2 | 2 | 10 | 10 | 10 | | | 90.9 | 93.1 | 93.1 | 82.8 | 91.4 | 40 | 27 | 27 | 24 | 26.5 | |
| 1SV20IS007 | 14 | 14 | 28 | 15 | 15 | 30 | 14.5 | 14.5 | 29 | 2 | 2 | 2 | 2 | 2 | 7.8 | 7.8 | 7.8 | | 9.75 | | 85.5 | 85.5 | 83.8 | | 7. | | 24.8 | | | |
| 1SV20IS008 | 14.5 | 14.5 | 29 | 14.5 | 14.5 | 29 | 10 | 10 | 20 | 2 | 2 | 2 | 2 | 2 | 7.8 | 7.8 | 7.8 | 7.8 | 9.75 | 88.2 | 83.8 | 83.8 | 68.3 | | | | 24.3 | | | |
| 1SV20IS009 | 15 | 15 | 30 | 15 | 15 | 30 | 13 | 13 | 26 | 2 | 2 | 2 | 2 | 2 | 6.4 | 6.4 | 6.4 | 6.4 | 8 | 87.3 | 80.7 | 80.7 | 73.8 | NV I STATE OF THE STATE OF | | | 23.4 | | 23 | 32 |
| 1SV20IS010 | 14.5 | 14.5 | 29 | 15 | 15 | 30 | 14.5 | 14.5 | 29 | 2 | 2 | 2 | 2 | 2 | 8.4 | 8.4 | 8.4 | 8.4 | 10.5 | 89.5 | 87.6 | 87.6 | 85.9 | | | | 25.4 | | 27 | 42 |
| 1SV20IS011 | 15 | 15 | 30 | 15 | 15 | 30 | 11.5 | 11.5 | 23 | 2 | 2 | 2 | 2 | 2 | 7 | 7 | 7 | 7 | 8.75 | 88.6 | 82.8 | 82.8 | 70.7 | 76.7 | 39 | 24 | 24 | 20.5 | 22.3 | 35 |
| 1SV20IS012 | 15 | 15 | 30 | 15 | 15 | 30 | 14 | 14 | 28 | 2 | 2 | 2. | 2 | 2 | 10 | 10 | 10 | 10 | 12.5 | 95.5 | 93.1 | 93.1 | 89.7 | 98.3 | 42 | 27 | 27 | 26 | 28.5 | 50 |



HOD
Information Science
and Engineering
SIET, TUMAKURU-572106

Sri Shridevi Charitable Trust (R.)

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Sira Road, Tumkur - 572 106, Karnataka, India.

Phone: 0816 - 2212629 | Principal: 0816 - 2212627, 9686114899 | Telefax: 0816 - 2212628

(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affillated to Visvesvaraya Technological University, Belagavi)

g.org YEARS BY STATE EXCELLED

Department of Information Science and Engineering

COURSE OUTCOME

CO1. Interpret the impact and challenges posed by IoT networks leading to new architectural models.

CO2.Compare and contrast the development of smart objects and the technologies to contact them to network.

CO3. Appraise the role of IoT protocols foe efficient network communication.

CO4. Elaborate the need for Data Analytics and Security in IoT.

Co5.Illustrate different sensor technologies for sensing real world entities, and identify the applications of IoT in Industry.

PROGRAM OUTCOMES

PO1 Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.

PO2 Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.

PO4Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.

PO5 Modern tool usage:Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.

P06 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.

PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need forsustainable development.

PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

P09 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.

PO11 Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.

PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

| FACULTY | NAM | E | MRS. | MERI | LIN B | | | 4 | 1 | | | | | | |
|---------|------|------|-------|------|-------|-------|------|------------|-------|--------|------|------|--------|------|---------|
| BRAN | СН | | 1 | SE | | A | CAL | EMIC | YEA | R | | 2 | 022-23 | 3 | |
| COURSE | B.F | E | SEM | ESTE | R | VII | I | SE | CTIO | N | | | В | | 1 2 4 7 |
| SUBJECT | | INT | ERNET | OF T | HINC | GS | | SUBJ | ECT (| CODE | | | 18CS8 | 81 | |
| 470 | | | | | C | 0 & 1 | PO M | IAPPIN | IG | | | | | | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
| CO1 | 3 | | | | | | | 藤 協 | | | | | 1 | | |
| CO2 | 2 | 2 | | | | | | | | | | | 2 | | |
| CO3 | 2 | 2 | | | | | | | | | | | 1 | | |
| CO4 | | 1 | | | | 2 | | | | | | | 1 | | |
| CO5 | 2 | 2 | | | | | | | | | | | 2 | 1 | |
| AVERAGE | 2.25 | 1.75 | 5 | | | 2 | | | | | | | 1.4 | 1 | |
| | | | , | | O | ERA | LLN | IAPPI | NG O | F SUB. | JECT | 1.68 | | | |

CO - PO ATTAINMENT

| | CO% | PO1 | PO2 | PO3 | PO4 | PO5 | P06 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSOI | PSO2 | PSO3 |
|------|------------------------|------|------|-----|-----|-----|------|-----|-----|-----|--|------|------|------|------|------|
| CO1 | 75 | 2.25 | | | | | | | | | To the state of th | | | 0.75 | | |
| CO2 | 73 | 1.46 | 1.46 | | | | | | 4. | | | | | 1.46 | | |
| CO3 | 71 | 1.42 | 1.42 | | | | | | | | | | | 0.71 | | |
| CO4 | 78 | | 0.78 | | | | 1.56 | | | | | | | 0.78 | | |
| CO5 | 70 | 1.4 | 1.4 | | | | | | | | | | | 1.4 | 0.70 | |
| AVEI | RAGE | 1.63 | 1.26 | | | | 1.56 | | | | | | | 1.02 | 0.70 | |
| | FINAL ATTAINMENT LEVEL | | | | | | | | | | | | | | | \ |

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

| | SU | B:Internet of Things | 1 | Sen | n:VIII | 'B'SE | С | | | | 2022-2 | .3 | | | EV | EN | | 500 | | | FACU | JLTY N | AME:M | rs.Merl | in B | | |
|------|------------|----------------------|----|--------|--------|------------|---------------|-----------|------------|------|--------|------|----------|------|------|----------|------------|------|------------|------------|------------|---------------|---------------|---------------|---------------|---------------|-------|
| Roll | | | | 18CS81 | | T1 | Salar Control | [2 | | 73 | | | T 20/5(1 | | | | 2,348 | | ERNAL | | | | | FINAL | | 9 | TOTAL |
| No | USN | NAME | T1 | T2 | Т3 | CO1- 20 | CO2- | CO3- | CO4- 10 | CO5- | CO1- | CO2- | CO3- | CO4- | CO5- | SEE (60) | CO1- 12 | CO2- | CO3- 12 | CO4- 12 | CO5- 12 | CO1-36 | CO2-26 | CO3-26 | CO4-26 | CO5-26 | AVG |
| 1 | 1SV18IS001 | YASHASWINI K N | 18 | 18 | 17 | 18 | 9 | 9 | 10 | 7 | 4 | 4 | 4 | 4 | 4 | 46 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 | 31 | 22 | 22 | 23 | 20 | 24 |
| 2 | 1SV19IS001 | ABHISHEK V | 13 | 14 | 17 | 13 | 7 | 7 | 9 | 8 | 4 | 4 | 4 | 4 | 4 | 43 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 26 | 20 | 20 | 22 | 21 | 21 |
| 3 | 1SV19IS002 | B S CHAITHRA | 15 | 19 | 16 | 15 | 10 | 9 | 9 | 7 | 4 | 4 | 4 | 4 | 4 | 28 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 25 | 20 | 19 | 19 | 17 | 20 |
| 4 | 1SV19IS003 | BINDUSHREE T N | 17 | 13 | 15 | 17 | 7 | 6 | 9 | 6 | 4 | 4 | 4 | 4 | 4 | 33 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 28 | 18 | 17 | 20 | 17 | 20 |
| 5 | 1SV19IS005 | H RANJITHA | 17 | 14 | 18 | 17 | 7 | 7 | 10 | 8 | 4 | 4 | 4 | 4 | 4 | 35 | 7 | 7 | 7 | 7 | 7 | 28 | 18 | 18 | 21 | 19 | 21 |
| 6 | 1SV19IS006 | HAMEEDA BANU | 18 | 15 | 18 | 18 | 8 | 7 | 10 | 8 | 4 | 4 | 4 | 4 | 4 | 42 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 30 | 20 | 19 | 22 | 20 | 23 |
| 7 | 1SV19IS007 | JOSHNI P S | 17 | 11 | 13 | 17 | 6 | 5 | 9 | 4 | 4 | 4 | 4 | 4 | 4 | 28 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 27 | 16 | 15 | 19 | 14 | 18 |
| 8 | 1SV19IS008 | MAMATHASHREE H | 15 | 11 | 14 | 15 | 6 | 5 | 9 | 5 | 4 | 4 | 4 | 4 | 4 | 13 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 22 | 13 | 12 | 16 | 12 | 15 |
| 9 | 1SV19IS009 | MD ASIF HUSSAIN | 12 | 15 | 14 | 12 | 8 | 7 | 8 | 6 | 4 | 4 | 4 | 4 | 4 | 45 | 9 | 9 | 9 | 9 | 9 | 25 | 21 | 20 | 21 | 19 | 21 |
| 10 | 1SV19IS010 | MUSKAN W | 20 | 15 | 17 | 20 | 8 | 7 | 8 | 9 | 4 | 4 | 4 | 4 | 4 | 47 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 33 | 21 | 20 | 21 | 22 | 24 |
| 11 | 1SV19IS011 | NISHMA M N | 10 | 16 | 17 | 10 | 8 | 8 | 8 | 9 | 4 | 4 | 4 | 4 | 4 | 41 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 22 | 20 | 20 | 20 | 21 | 21 |
| 12 | 1SV19IS012 | PRIYA AGADI | 18 | 19 | 17 | 18 | 10 | 9 | 9 | 8 | 4 | 4 | 4 | 4 | 4 | 51 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 32 | 24 | 23 | 23 | 22 | 25 |
| 13 | 1SV19IS013 | RAVITEJA S | 18 | 20 | 20 | 18 | 10 | 10 | 10 | 10 | 4 | 4 | 4 | 4 | 4 | 44 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 31 | 23 | 23 | 23 | 23 | 24 |
| 14 | 1SV19IS014 | SAHANA Y GOWDA | 12 | 12 | 14 | 12 | 6 | 6 | 9 | 5 | 4 | 4 | 4 | 4 | 4 | 27 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 21 | 15 | 15 | 18 | 14 | 17 |
| 15 | 1SV19IS015 | SAI PAVAN | 6 | 0 | 14 | 6 | 0 | 0 | 7 | 7 | 4 | 4 | 4 | 4 | 4 | 34 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 17 | 11 | 11 | 18 | 18 | 15 |
| 16 | 1SV19IS016 | SHIVAKUMAR B C | 11 | 13 | 17 | 11 | 7 | 6 | 10 | 7 | 4 | 4 | 4 | 4 | 4 | 33 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 22 | 18 | 17 | 21 | 18 | 19 |
| 17 | 1SV19IS017 | SHREEDHARA GANACHARI | 12 | 9 | 10 | 12 | 5 | 4 | 6 | 4 | 4 | 4 | 4 | 4 | 4 | 42 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 24 | 17 | 16 | 18 | 16 | 19 |
| 18 | 1SV19IS018 | SINCHANA K M | 16 | 17 | 17 | 16 | 9 | 8 | 10 | 7 | 4 | 4 | 4 | 4 | 4 | 29 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 26 | 19 | 18 | 20 | 17 | 20 |
| 19 | 1SV19IS019 | SINDHUSHREE K O | 18 | 17 | 17 | 18 | 9 | 8 | 10 | 7 | 4 | 4 | 4 | 4 | 4 | 35 | 7 | 7 | 7 | 7 | 7 | 29 | 20 | 19 | 21 | 18 | 21 |
| 20 | 1SV19IS020 | SNEHA H T | 16 | 14 | 16 | 16 | 7 | 7 | 10 | 6 | 4 | 4 | 4 | 4 | 4 | 45 | 9 | 9 | 9 | 9 | 9 | 29 | 20 | 20 | 23 | 19 | 22 |
| 21 | 1SV19IS022 | THANMAYI P | 19 | 18 | 17 | 19 | 9 | 9 | 10 | 7 | 4 | 4 | 4 | 4 | 4 | 44 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 32 | 22 | 22 | 23 | 20 | 24 |
| 22 | 1SV19IS023 | THANUJA M | 19 | 16 | 18 | 19 | 8 | 8 | 10 | 8 | 4 | 4 | 4 | 4 | 4 | 38 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 31 | 20 | 20 | 22 | 20 | 22 |
| 23 | 1SV19IS024 | VAISHNAVI C S | 19 | 16 | 16 | 19 | 8 | 8 | 9 | 7 | 4 | 4 | 4 | 4 | 4 | 44 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 32 | 21 | 21 | 22 | 20 | 23 |
| 24 | 1SV19IS025 | VARSHITHA R | 16 | 13 | 10 | 16 | 7 | 6 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 38 | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 28 | 19 | 18 | 17 | 17 | 19 |
| 25 | 1SV19IS026 | VENKATESH M KAMBLE | 11 | 15 | 10 | 11 | 8 | . 7 | 6 | 4 | 4 | 4 | 4 | 4 | 4 | 40 | 8 | 8 | 8 | 8 | 8 | 23 | 20 | 19 | 18 | 16 | 19 |
| 26 | 1SV19IS027 | VINAY KUMAR K S | 17 | 11 | 15 | 17 | 6 | 5 | 9 | 6 | 4 | 4 | 4 | 4 | 4 | 35 | 7 | 7 | 7 | 7 | 7 | 28 | 17 | 16 | 20 | 17 | 20 |
| | | | | | | | | | | | 5.0 | .IC | | | | | | | | | | 26.9 74.8% | 19.0 72.9% | 18.4 70.7% | 20.3 78.3% | 18.3 70.3% | |

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Information Science and Engineering SIET, TUMAKURU-572 6

| COLLEGE | SHR | IDE' | VI INS | FITU | TE O | FENC | GINE | ERING | G & T | ECHN | OLO | GY | | | |
|---------|-----|------|--------|-------------|------|--------|------|-------|-------------|--------|------|------|--------|------|------|
| FACULTY | NAM | E | Mr. SU | JTHA | NR | | | | | | 4 | | | | |
| BRANC | СН | | I | SE | | AC | CADE | MIC Y | YEAR | | | 20 | 022-23 | | |
| COURSE | B. | E | SEM | ESTE | R | VIII | SI | ECTIO | ON | | | | | | |
| SUBJECT | ST | ORA | AGE AI | REA I | NETV | VORK | S | | JECT ODE | r | | 18 | 3CS822 | | |
| | | | | | (| CO & 1 | РО М | APPI | NG | | | | | | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
| CO1 | 3 | 2 | | | | | | | | | | | 2 | | |
| CO2 | 1 | 2 | 2 | | | | | | | | 100 | 1 | | | |
| CO3 | 2 | | | | | | | | | | | | 2 | | 2 |
| - CO4 | 2 | | 2 | | 1 | 1 | | | | | | | 1 | 1 | 2 |
| AVERAGE | 2 | 2 | 2 | | 1 | 1 | | | | | | 1 | 1.25 | 1 | 2 |
| | | | | | OV | ERAI | LL M | APPI | NG OI | F SUB. | JECT | 1.47 | | | |

| | CO% | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSOI | PSO2 | PSO3 |
|------|------------------------|------|------|------|-----|------|------|-----|-----|-----|------|------|------|------|------|------|
| CO1 | 77.6 | 2.32 | 1.55 | | | | | | | | | | | 1.55 | | |
| CO2 | 76.4 | 0.76 | 1.52 | 1.52 | | | | | | 1.6 | | | 0.76 | | | |
| CO3 | 76.9 | 1.53 | | | | | | | | | | | | 1.53 | | 1.53 |
| CO4 | 59.7 | 1.19 | | 1.19 | | 0.59 | 0.59 | | | | | | | 0.59 | 0.59 | 1.19 |
| AVER | AGE | 1.45 | 1.53 | 1.35 | | 0.59 | 0.59 | | | | | | 0.76 | 1.22 | 0.59 | 1.36 |
| | FINAL ATTAINMENT LEVEL | | | | | | | | | | | | | | | |

- Day



SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SIRA ROAD, TUMKUR-572 106.

Department of Information Science and Engineering

COURSE OUTCOME

- **CO1.** Identify key challenges in managing information and analyze different storage networking technologies and virtualization
- CO2. Explain components and the implementation of NAS
- CO3. Describe CAS architecture and types of archives and forms of virtualization
- CO4. Illustrate the storage infrastructure and management activities

PROGRAM OUTCOMES

- **PO1** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- **PO2** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO3** Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
- **PO4** Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.
- **PO5** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.
- **P06** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
- **PO7** Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **P010** Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- **PO11** Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.
- PO12 Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

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| | Sub: Stor | rage Area Networks | | | CS82 | | | | | | | 022-20 | | | VEN | | | OF T | HE STA | | | r.Suthan | R |
| Roll | | | IA | MAI | RKS | T1 | T2 | r | 3 | AS | SSIGN | MEN | T 10/6 | | | SEE | | | | FIN | NAL | | mom., |
| No. | USN | Name | T1 (30) | T2 (30) | T3 (30) | CO1- 30 | CO2- 30 | CO3- 15 | CO4- 15 | CO1- | CO2- | CO3- | CO4- | SEE (60) | CO1- 15 | CO2- 15 | CO3- 15 | CO4- 15 | CO1-48 | CO2-47 | CO3-33 | CO4-32 | AVG |
| 1 | 1SV18IS001 | YASHASWINI K N | 15 | 20 | 23 | 15 | 20 | 12 | 11 | 3 | 2 | 3 | 2 | 45 | 11 | 11 | 11 | 11 | 29 | 33 | 26 | 24 | 28.3 |
| 2 | 1SV19IS001 | ABHISHEK V | 15 | 20 | 23 | 15 | 20 | 11 | 12 | 3 | 2 | 3 | 2 | 41 | 10 | 10 | 10 | 10 | 28 | 32 | 24 | 24 | 27.3 |
| 3 | 1SV19IS002 | B S CHAITHRA | 29 | 26 | 27 | 29 | 26 | 14 | 13 | 3 | 2 | 3 | 2 | 54 | 14 | 14 | 14 | 14 | 46 | 42 | 31 | 29 | 36.5 |
| 4 | 1SV19IS003 | BINDUSHREE T N | 24 | 20 | 27 | 24 | 20 | 13 | 14 | 3 | 2 | 3 | 2 | 27 | 7 | 7 | 7 | 7 | 34 | 29 | 23 | 23 | 27.0 |
| 5 | 1SV19IS005 | H RANJITHA | 24 | 27 | 28 | 24 | 27 | 12 | 12 | 3 | 2 | 3 | 2 | 46 | 12 | 12 | 12 | 12 | 39 | 41 | 27 | 26 | 32.8 |
| 6 | 1SV19IS006 | HAMEEDA BANU | 29 | 29 | 29 | 29 | 29 | 15 | 14 | 3 | 2 | 3 | 2 | 48 | 12 | 12 | 12 | 12 | 44 | 43 | 30 | 28 | 36.3 |
| 7 | 1SV19IS007 | JOSHNI P S | 23 | 26 | 21 | 23 | 26 | 11 | 10 | 3 | 2 | 3 | 2 | 25 | 6 | 6 | 6 | 6 | 32 | 34 | 20 | 18 | 26.3 |
| 8 | 1SV19IS008 | MAMATHASHREE H | 29 | 19 | 23 | 29 | 19 | 12 | 11 | 3 | 2 | 3 | 2 | 23 | 6 | 6 | 6 | 6 | 38 | 27 | 21 | 19 | 26.0 |
| 9 | 1SV19IS009 | MD ASIF HUSSAIN | 24 | 23 | 21 | 24 | 23 | 11 | 10 | 3 | 2 | 3 | 2 | 32 | 8 | 8 | 8 | - 8 | 35 | 33 | 22 | 20 | 27.5 |
| 10 | 1SV19IS010 | MUSKAN W | 26 | 27 | 27 | 26 | 27 | 14 | 13 | 3 | 2 | 3 | 2 | 57 | 14 | 14 | 14 | 14 | 43 | 43 | 31 | 29 | 36.8 |
| 11 | 1SV19IS011 | NISHMA M N | 29 | 29 | 23 | 29 | 29 | 12 | 11 | 3 | 2 | 3 | 2 | 47 | 12 | 12 | 12 | 12 | 44 | 43 | 27 | 25 | 34.5 |
| 12 | 1SV19IS012 | PRIYA AGADI | 29 | 29 | 29 | 29 | 29 | 15 | 14 | 3 | 2 | 3 | 2 | 55 | 14 | 14 | 14 | 14 | 46 | 45 | 32 | 30 | 38.0 |
| 13 | 1SV19IS013 | RAVITEJA S | 29 | 29 | 29 | 29 | 29 | 15 | 14 | 3 | 2 | 3 | 2 | 36 | 9 | 9 | 9 | 9 | 41 | 40 | 27 | 25 | 33.3 |
| 14 | 1SV19IS014 | SAHANA Y GOWDA | 8 | 21 | 27 | 8 | 21 | 12 | 15 | 3 | 2 | 3 | 2 | 21 | 5 | 5 | 5 | 5 | 16 | 28 | 20 | 22 | 21.8 |
| 15 | 1SV19IS015 | SAI PAVAN | 26 | 20 | 9 | 26 | 20 | 6 | 3 | 3 | 2 | 3 | 2 | 35 | 9 | 9 | 9 | 9 | 38 | 31 | 18 | 14 | 25.0 |
| 16 | 1SV19IS016 | SHIVAKUMAR B C | 17 | 2 | 23 | 17 | 2 | 12 | 11 | 3 | 2 | 3 | 2 | 33 | 8 | 8 | 8 | 8 | 28 | 12 | 23 | 21 | 21.3 |
| 17, | 1SV19IS017 | SHREEDHARA GANACHARI | 17 | 24 | 16 | 17 | 24 | 12 | 12 | 3 | 2 | 3 | 2 | 41 | 10 | 10 | 10 | 10 | 30 | 36 | 25 | 24 | 29.0 |
| 18 | 1SV19IS018 | SINCHANA K M | 29 | 29 | 29 | 29 | 29 | 15 | 14 | 3 | 2 | 3 | 2 | 36 | 9 | 9 | 9 | 9 | 41 | 40 | 27 | 25 | 33.3 |
| 19 | 1SV19IS019 | SINDHUSHREE K O | 29 | 28 | 27 | 29 | 28 | 15 | 12 | 3 | 2 | 3 | 2 | 41 | 10 | 10 | 10 | 10 | 42 | 40 | 28 | 24 | 33.8 |
| 20 | 1SV19IS020 | SNEHA H T | 24 | 24 | 27 | 24 | 24 | 14 | 13 | 3 | 2 | 3 | 2 | 21 | 5 | 5 | 5 | 5 | 32 | 31 | 22 | 20 | 26.5 |
| 21 | 1SV19IS022 | THANMAYI P | 29 | 29 | 29 | 29 | 29 | 14 | 15 | 3 | 2 | 3 | 2 | 28 | 7 | 7 | 7 | 7 | 39 | 38 | 24 | 24 | 31.3 |
| 22 | 1SV19IS023 | THANUJA M | 29 | 30 | 29 | 29 | 30 | 15 | 14 | 3 | 2 | 3 | 2 | 47 | 12 | 12 | 12 | 12 | 44 | 44 | 30 | 28 | 36.3 |
| 23 | 1SV19IS024 | VAISHNAVI C S | 27 | 26 | 21 | 27 | 26 | 11 | 10 | 3 | 2 | 3 | 2 | 39 | 10 | 10 | 10 | 10 | 40 | 38 | 24 | 22 | 30.8 |
| 24 | 1SV19IS025 | VARSHITHA R | 29 | 22 | 23 | 29 | 22 | 13 | 10 | 3 | 2 | 3 | 2 | 45 | 11 | 11 | 11 | 11 | 43 | 35 | 27 | 23 | 32.3 |
| 25 | 1SV19IS026 | VENKATESH M KAMBLE | 26 | 26 | 23 | 26 | 26 | 12 | 11 | 3 | 2 | × 3 | 2 | 33 | 8 | § 8 | 8 | 8 | 37 | 36 | 23 | 21 | 29.5 |
| 26 | 1SV19IS027 | VINAY KUMAR K S | 27 | 29 | 27 | 27 | 29 | 15 | 12 | 3 | 2 | 3 | 2 | 36 | 9 | 9 | 9 | 9 | 39 | 40 | 27 | 23 | 32.3 |
| | | | | | | | | | . 10 | A HIE | | | | 16.441 | 189 | | | | 37.2 | 35.9 | 25.3 | 19.1 | |
| | | | | | | | | 2. | Je. fr | | | | | | | | | | 77.6% | 76.4% | 76.8% | 59.7% | |

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