# DETAILED TEACHING SCHEME

**RK.UNIVERSITY**

SCHOOL OF ENGINEERING
ACADEMIC YEAR - 2022-23
DEFINITION OF CREDIT: **1. Lecture (L):** 1 hour/week/semester, **2. Practical (P):**2 hour/week/semester **3. Tutorial(T):** 2hour/week/semester

PROGRAM: B. TECH - INFORMATION TECHNOLOGY
SEMESTER - I (Batch - 2022-26)

## TEACHING SCHEME

| Course Code | Course Name | Teaching Hours | | | SSH | Credits | Max. Marks of TSEE | CIE | PSEE | Remarks if any |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Theory | Tutorial | Practical | | | | | | |
| APS101 | Calculus | 4 | 0 | 0 | 2.5 | 4 | 100 | Y | N | |
| ESLB2A | English as a Second Language – Intermediate Level 1 | 3 | 0 | 0 | 2 | 3 | 100 | Y | N | |
| CE108 | Logic Building Techniques and Practices | 3 | 2 | 0 | 1 | 4 | 100 | Y | N | |
| EL105 | Fundamentals of Electrical Engineering | 3 | 0 | 2 | 2 | 4 | 100 | Y | Y | |
| APS121 | Applied Science | 3 | 0 | 2 | 2 | 4 | 100 | Y | Y | |
| CE110 | Learning essentials with computer | 0 | 0 | 2 | 1 | 1 | - | N | Y | |
| CE109 | Web Designing - I | 0 | 0 | 2 | 3 | 1 | - | N | Y | |
| EL109 | Electrical Workshop | 0 | 0 | 2 | 1 | 1 | - | N | Y | |
| MEN101 | Mentoring | 0 | 0 | 1 | 0 | 0 | - | N | N | |
| | TOTAL | 16 | 2 | 11 | 14.5 | 22 | | | | |
| | | Total Teaching Hours 29 | | | | | | | | |

HOD          Directo

# RK.UNIVERSITY

# DETAILED TEACHING SCHEME

SCHOOL OF ENGINEERING
ACADEMIC YEAR - 2022-23
DEFINITION OF CREDIT: **1. Lecture (L): 1 hour/week/semester, 2. Practical (P):2 hour/week/semester 3. Tutorial(T): 2 hour/week/semester**

PROGRAM: B. TECH - INFORMATION TECHNOLOGY
SEMESTER - II (Batch - 2022-26)

## TEACHING SCHEME

| Course Code | Course Name | Teaching Hours | | | SSH | Credits | Max. Marks of TSEE | CIE | PSEE | Remarks if any |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Theory | Tutorial | Practical | | | | | | |
| APS201 | Vector Calculus and Linear Algebra | 4 | 0 | 0 | 3 | 4 | 100 | Y | N | |
| ESLB2B | English as a Second Language – Intermediate Level 2 | 3 | 0 | 0 | 2 | 3 | 100 | Y | N | |
| APS143 | Environmental Science | 2 | 0 | 0 | 3 | 3 | 50 | Y | N | |
| EC308 | Basic Electronics | 3 | 0 | 2 | 1 | 4 | 100 | Y | Y | |
| CE205 | Fundamentals of Computer Programming | 3 | 0 | 4 | 1 | 5 | 100 | Y | Y | |
| CE206 | Design Thinking | 0 | 0 | 2 | 2 | 1 | - | N | Y | |
| CE207 | Web Designing - II | 0 | 0 | 2 | 1 | 1 | - | N | Y | |
| CE208 | Database Management System | 2 | 0 | 2 | 2 | 3 | 50 | Y | Y | |
| MEN201 | Mentoring | 0 | 0 | 1 | 0 | 0 | - | N | N | |
| | TOTAL | 17 | 0 | 13 | 15 | 24 | | | | |
| | | Total Teaching Hours 30 | | | | | | | | |

HOD          Directo

# DETAILED TEACHING SCHEME

**RK.UNIVERSITY**

SCHOOL OF ENGINEERING
ACADEMIC YEAR - 2022-23
DEFINITION OF CREDIT: **1. Lecture (L): 1** hour/week/semester, **2. Practical (P):2** hour/week/semester **3. Tutorial(T):** 2 hour/week/semester

PROGRAM: B. TECH - INFORMATION TECHNOLOGY
SEMESTER - III (Batch - 2021-25)

## TEACHING SCHEME

| Course Code | Course Name | Teaching Hours | | | SSH | Credits | Max. Marks of TSEE | CIE | PSEE | Remarks if any |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Theory | Tutorial | Practical | | | | | | |
| CE325 | Python Programming I | 2 | 0 | 4 | 3 | 4 | 50 | Y | Y | |
| CE317 | Data Structures | 3 | 0 | 4 | 3 | 5 | 100 | Y | Y | |
| EC211 | Digital Circuit Design | 3 | 0 | 2 | 2 | 4 | 100 | Y | Y | |
| CE519 | Database Management System | 3 | 0 | 2 | 3 | 4 | 100 | Y | Y | |
| APS301 | Differential Equations | 4 | 0 | 0 | 2 | 4 | 100 | Y | N | |
| CE419 | Computer Organization and Architecture | 3 | 0 | 0 | 2 | 3 | 100 | Y | N | |
| | **TOTAL** | **18** | **0** | **12** | **15** | **24** | | | | |
| | | Total Teaching Hours 30 | | | | | | | | |

N- No          CIE – Continuous internal evaluation

Y – Yes         PSEE - Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..

SSH - Self-study hours

HOD          Director

# DETAILED TEACHING SCHEME

**RK.UNIVERSITY**

SCHOOL OF ENGINEERING
ACADEMIC YEAR - 2022-23

PROGRAM: B. TECH - INFORMATION TECHNOLOGY
SEMESTER - IV (Batch - 2021-25)

DEFINITION OF CREDIT: **1. Lecture (L):** 1 hour/week/semester, **2. Practical (P):** 2 hour/week/semester **3. Tutorial(T):** 2 hour/week/semester

## TEACHING SCHEME

| Course Code | Course Name | Teaching Hours | | | SSH | Credits | Max. Marks of TSEE | CIE | PSEE | Remarks if any |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Theory | Tutorial | Practical | | | | | | |
| CE424 | Object Oriented Programming with JAVA | 0 | 0 | 4 | 3 | 2 | - | Y | Y | |
| CE418 | Operating System | 3 | 0 | 2 | 3 | 4 | 100 | Y | Y | |
| CE425 | Python Programming II | 0 | 0 | 4 | 1 | 2 | - | Y | Y | |
| IT404 | Digital Communication and Networking | 2 | 0 | 2 | 2 | 3 | 50 | Y | Y | |
| APS402 | Discrete Mathematics, Probability and Numerical Methods | 4 | 0 | 0 | 4 | 4 | 100 | Y | N | |
| CE426 | Web Programming | 3 | 0 | 4 | 4 | 5 | 100 | Y | Y | Title Changed |
| NEN001 | Orientation Program in Entrepreneurship | 2 | 0 | 0 | 1 | 2 | 50 | Y | N | |
| | TOTAL | 14 | 0 | 16 | 20 | 22 | | | | |
| | Total Teaching Hours 30 | | | | | | | | | |

N- No    CIE - Continuous internal evaluation

Y - Yes    PSEE - Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..

HOD        Director

# RK.UNIVERSITY

# DETAILED TEACHING SCHEME

SCHOOL OF ENGINEERING
ACADEMIC YEAR - 2022-23

PROGRAM: B. TECH – INFORMATION TECHNOLOGY
SEMESTER – V (Batch – 2020-24)

DEFINITION OF CREDIT: **1. Lecture (L):** 1 hour/week/semester, **2. Practical (P):** 2 hour/week/semester **3. Tutorial(T):** 2 hour/week/semester

## TEACHING SCHEME

| Course Code | Course Name | Teaching Hours | | | SSH | Credits | Max. Marks of TSEE | CIE | PSEE | Remarks if any |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Theory | Tutorial | Practical | | | | | | |
| CE517 | Software Engineering | 3 | 0 | 2 | 3 | 4 | 100 | Y | Y | |
| IT506 | Computer Networks | 2 | 0 | 4 | 3 | 4 | 50 | Y | Y | |
| CE525 | Enterprise Computing Through .NET Framework | 3 | 0 | 2 | 4 | 4 | 100 | Y | Y | |
| CE526 | Mobile Application Development | 2 | 0 | 4 | 3 | 4 | 50 | Y | Y | |
| IT505 | Business Intelligence | 3 | 0 | 2 | 3 | 4 | 100 | Y | Y | |
| | University Elective - III | 3 | 0 | 0 | 3 | 3 | - | Y | N | |
| PC501 | Rural Internship | - | - | - | 1 | 3 | - | Y | Y | |
| | **TOTAL** | **16** | **0** | **14** | **20** | **26** | | | | |
| | | Total Teaching Hours 30 | | | | | | | | |

N- No  CIE – Continuous internal evaluation

Y – Yes  PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..

    SSH - Self-study hours

HOD  Director

# RK.UNIVERSITY

# DETAILED TEACHING SCHEME

SCHOOL OF ENGINEERING
ACADEMIC YEAR - 2022-23

PROGRAM: B. TECH - INFORMATION TECHNOLOGY
SEMESTER - VI (Batch - 2020-24)

DEFINITION OF CREDIT: **1. Lecture (L): 1** hour/week/semester, **2. Practical (P):**2 hour/week/semester **3. Tutorial(T): 2** hour/week/semester

## TEACHING SCHEME

| Course Code | Course Name | Teaching Hours | | | SSH | Credits | Max. Marks of TSEE | CIE | PSEE | Remarks if any |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Theory | Tutorial | Practical | | | | | | |
| CE626 | Full Stack Web Development using React | 2 | 0 | 4 | 3 | 4 | 50 | Y | Y | Revised Course |
| CE625 | Design & Analysis of Algorithms | 2 | 0 | 2 | 3 | 3 | 50 | Y | Y | Revised Credit |
| | University Elective - IV | 3 | 0 | 0 | 1 | 3 | - | Y | N | |
| IT607 | Data Analytics with R | 3 | 0 | 2 | 2 | 4 | 100 | Y | N | |
| | Department Elective - I | 3 | 0 | 4 | 4 | 5 | - | Y | Y | |
| IT608 | Cloud Computing Foundation | 2 | 0 | 0 | 1 | 2 | 50 | Y | N | |
| CE623 | Artificial Intelligence | 1 | 0 | 2 | 2 | 2 | 50 | Y | Y | |
| | **TOTAL** | **16** | **2** | **12** | **16** | **23** | | | | |
| | | Total Teaching Hours 30 | | | | | | | | |

N- No    CIE - Continuous internal evaluation

Y - Yes    PSEE - Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..

       SSH - Self-study hours

HOD      Directo

# DETAILED TEACHING SCHEME

**RK.UNIVERSITY**

SCHOOL OF ENGINEERING
ACADEMIC YEAR - 2022-23
DEFINITION OF CREDIT: **1. Lecture (L): 1 hour/week/semester, 2. Practical (P):2 hour/week/semester 3. Tutorial(T): 2 hour/week/semester**

PROGRAM: B. TECH – INFORMATION TECHNOLOGY
SEMESTER – VII (Batch - 2019-23)

## TEACHING SCHEME

| Course Code | Course Name | Teaching Hours | | | SSH | Credits | Max. Marks of TSEE | CIE | PSEE | Remarks if any |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Theory | Tutorial | Practical | | | | | | |
| IT709 | System Programming | 4 | 0 | 2 | 3 | 5 | 100 | Y | Y | |
| | Department Elective – II | 2 | 0 | 4 | 2 | 4 | - | Y | Y | |
| | Department Elective – III | 3 | 0 | 2 | 3 | 4 | - | Y | Y | |
| | Department Elective – IV | 3 | 0 | 2 | 3 | 4 | - | Y | Y | |
| CE714 | Project | - | - | 2 | 3 | 5 | - | Y | Y | |
| CE717 | Machine Learning | 3 | 0 | 2 | 3 | 4 | 100 | Y | Y | |
| | **TOTAL** | **15** | **0** | **14** | **17** | **26** | | | | |
| | | **Total Teaching Hours 29** | | | | | | | | |

N- No          CIE – Continuous internal evaluation

Y - Yes        PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..

SSH - Self-study hours

HOD        Director

# RK.UNIVERSITY

# DETAILED TEACHING SCHEME

SCHOOL OF ENGINEERING
ACADEMIC YEAR - 2022-23

PROGRAM: B. TECH - INFORMATION TECHNOLOGY
SEMESTER - VIII (Batch - 2019-23)

DEFINITION OF CREDIT: **1. Lecture (L): 1** hour/week/semester, **2. Practical (P):**2 hour/week/semester **3. Tutorial(T): 2** hour/week/semester

## TEACHING SCHEME

| Course Code | Course Name | Teaching Hours | | | SSH | Credits | Max. Marks of TSEE | CIE | PSEE | Remarks if any |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Theory | Tutorial | Practical | | | | | | |
| CEIP1 | Industrial Project | - | - | - | 10 | 25 | 100 | Y | Y | |
| | **TOTAL** | - | - | - | 10 | 25 | | | | |
| | Total Teaching Hours | | | | | | | | | |

N- No      CIE – Continuous internal evaluation

Y – Yes     PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..

SSH – Self-study hours

HOD        Director

# SYLLABUS

| Course Title | Industrial Project |
|---|---|
| Course Code | CEIP1 |

| Course Credits | Theory :0 |
|---|---|
| | Practical :0 |
| | Tutorial :0 |
| | Credits :25 |

## Course Learning Outcomes:

On the completion of the course, students will be able to:
- **Explore** depth knowledge of Technologies and Project Development Process
- **Solve** enterprise problem with their knowledge
- **Understand** the importance of project development deadlines and how to meet them
- **Work** in team collaboratively
- **Deploy** application for real use

## Detailed Syllabus

The students will select a project definition. They will work in a group of two or more as per industry policy and project size. The project should involve use of different development tools and technologies. At the end of semester, they will submit documentation of project work.

## Instructional Method and Pedagogy:

- Industrial external guide will help the students in selecting the project definition.
- Continuously monitoring of student's project progress during the semester by external and internal guides.
- Students will present their work in regular time interval during the semester.
- Guides will help the students during project development life cycle of their project.