RK UNIVERSITY

DETAILED TEACHING SCHEME

SCHOOL OF ENGINEERING
ACADEMIC YEAR - 2022-23
PROGRAM: B. TECH - COMPUTER ENGINEERING
SEMESTER - I (Batch - 2022-26)
DEFINITION OF CREDIT: **1. Lecture (L):** 1 hour/week/semester, **2. Practical (P):**2 hour/week/semester **3. Tutorial(T):** 2hour/week/semester

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
PROGRAM: B. TECH - COMPUTER ENGINEERING
SEMESTER - II (Batch - 2022-26)
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						
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								

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4	**String, List Tuple and Dictionary** Introduction to String, List, Tuple and Dictionary, working with in-built Methods of String and List, Tuple and Dictionary Manipulation using in-built Methods	05
	Total	14
	SECTION-II	
5	**Classes and Objects** Creating Classes and Objects, Instance Variables, Access Specifiers, Importance of self, __init()__Method, Instance Method, Class Method, Static Method, Inheritance, Polymorphism	05
6	**Python Functions, Modules and Packages** Organizing Python Codes Using Functions and Modules, Importing Modules, Introduction to Packages, Lambda Function in Python	04
7	**Exceptional Handling** Exception, Types of Errors, Handling an Exception, try, except, else, finally clause, Argument of an Exception, Raising an Exception	03
8	**File Handling** Files, Types of Files in Python, Read and Write Functions, Working with Text Files, Manipulating File Pointer Using Seek and Tell and Various File Operations	02
	Total	14

RK UNIVERSITY

DETAILED TEACHING SCHEME

SCHOOL OF ENGINEERING
ACADEMIC YEAR - 2022-23
PROGRAM: B. TECH - COMPUTER ENGINEERING
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**	**18**	**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..

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RK UNIVERSITY

DETAILED TEACHING SCHEME

SCHOOL OF ENGINEERING
ACADEMIC YEAR - 2022-23
PROGRAM: B. TECH - COMPUTER ENGINEERING
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	
EC509	Microprocessor & Microcontroller	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
Y - Yes

CIE - Continuous internal evaluation
PSEE - Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..
SSH - Self-study hours

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DETAILED TEACHING SCHEME

SCHOOL OF ENGINEERING
ACADEMIC YEAR - 2022-23
PROGRAM: B. TECH - COMPUTER ENGINEERING
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	
CE621	Theory of Computation	3	2	0	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**	**18**	**23**				
		Total Teaching Hours 30								

N- No
Y - Yes

CIE - Continuous internal evaluation
PSEE - Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..
SSH - Self-study hours

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DETAILED TEACHING SCHEME

SCHOOL OF ENGINEERING
ACADEMIC YEAR - 2022-23
PROGRAM: B. TECH - COMPUTER ENGINEERING
SEMESTER - VII (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						
CE705	Compiler Design	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
Y - Yes

CIE - Continuous internal evaluation
PSEE - Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..
SSH - Self-study hours

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DETAILED TEACHING SCHEME

SCHOOL OF ENGINEERING
ACADEMIC YEAR - 2022-23
PROGRAM: B. TECH – COMPUTER ENGINEERING
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	PSE E	Remarks if any
		Theory	Tutorial	Practical						
CEIP1	Industrial Project	-	-	-	10	25	100	Y	Y	
	TOTAL	-	-	-	**10**	**25**				
		Total Teaching Hours								

N- No
Y – Yes

CIE – Continuous internal evaluation
PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..
SSH - Self-study hours

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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.