RK.UNIVERSITY

DETAILED TEACHING SCHEME

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

PROGRAM: B. TECH – ELECTRICAL ENGINEERING
SEMESTER – I (Batch – 2022-26)

TEACHING SCHEME

Course Code	Course Name	Teaching Hours			SSH	Credits	Max. Marks of TSEE	CIE	PSEE	Remarks if any
		Lecture	Tutorial	Practical						
APS101	Calculus	4	0	0	2.5	4	100	Y	N	-
APS121	Applied Science	3	0	2	1	4	100	Y	Y	-
APS143	Environmental Sciences*	2	0	0	2	3	50	Y	N	-
CV114	Fundamentals of Civil Engineering	3	0	2	2	4	100	Y	Y	-
ESLB2A	English As a Second Language - Intermediate Level-I	3	0	0	2	3	100	Y	N	-
ME123	Fundamentals of Mechanical Engineering	3	0	2	2	4	100	Y	Y	-
WP101	Workshop Practice-I	0	0	4	2	2	00	Y	Y	
ME127	Software Lab-I	0	0	2	3	1	00	Y	Y	
Total		**18**	**0**	**10**	**12.5**	**25**				-

Total Teaching Hours -28

1. CIE – Continuous internal evaluation (TCIE &/OR PCIE)
2. SSH - Self-study hours
3. PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..
4. (@) Audit Course / Non-Gradial Course
5. TSEE – Theory Semester End Examinations
6. Y – Yes, **I** N- No

*Students are required to undergo 15 hrs. training / field visit / workshop in relevant field during semester

Signature of HOD

Signature of Director

DETAILED TEACHING SCHEME

RK.UNIVERSITY

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

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

TEACHING SCHEME

Course Code	Course Name	Teaching Hours			SSH	Credits	Max. Marks of TSEE	CIE	PSEE	Remarks if any
		Lecture	Tutorial	Practical						
APS201	Vector Calculus and Linear Algebra	4	0	0	3	4	100	Y	N	-
CE209	Computer Programming	3	0	0	1	3	100	Y	Y	-
ESLB2B	English As a Second Language - Intermediate Level-II	3	0	0	2	3	100	Y	N	-
ME124	Engineering Drawing	3	0	4	3	5	100	Y	Y	-
WP201	Workshop Practice-II	0	0	2	2	1	00	Y	Y	-
EL105	Fundamentals of Electrical Engineering	2	0	2	2	3	100	Y	Y	-
EL324	Electronic Devices and Circuits	3	0	2	2	4	100	Y	Y	Revised
Total		**18**	**0**	**10**	**15**	**23**				

Total Teaching Hours -28

1. CIE – Continuous internal evaluation (TCIE &/OR PCIE)
2. SSH - Self-study hours
3. PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc...
4. (@) Audit Course / Non-Gradial Course
5. TSEE – Theory Semester End Examinations
6. Y – Yes   I   N- No

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DETAILED TEACHING SCHEME

RK.UNIVERSITY

SCHOOL OF ENGINEERING
ACADEMIC YEAR – 2022-23

PROGRAM: B. TECH – ELECTRICAL ENGINEERING
SEMESTER – III (Batch – 2021-25)

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

TEACHING SCHEME

| Course Code | Course Name | Teaching Hours | | | SSH | Credits | Max. Marks of TSEE | CIE | PSEE | Remarks if any |
		Lecture	Tutorial	Practical						
APS301	Differential Equations	4	0	0	2	4	100	Y	N	-
EC211	Digital Circuit Design	3	0	2	3	4	100	Y	Y	-
EL316	Network Analysis and Synthesis	3	0	2	2	4	100	Y	Y	-
EL317	Energy Sources	3	0	0	2	3	100	Y	N	-
EL318	DC Machines and Transformers	3	0	2	2	4	100	Y	Y	-
EL323	Power System-I	3	4	0	3	5	100	Y	N	-
	Total	**19**	**4**	**6**	**14**	**24**				-
	Total Teaching Hours -29									-

1. CIE – Continuous internal evaluation (TCIE &/OR PCIE)
2. SSH - Self-study hours
3. PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc...
4. (@) Audit Course / Non-Gradial Course
5. TSEE – Theory Semester End Examinations
6. Y – Yes   I   N- No

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DETAILED TEACHING SCHEME

RK.UNIVERSITY

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

PROGRAM: B. TECH – ELECTRICAL ENGINEERING
SEMESTER – IV (Batch – 2021-25)

TEACHING SCHEME

Course Code	Course Name	Teaching Hours			SSH	Credits	Max. Marks of TSEE	CIE	PSEE	Remarks if any
		Lecture	Tutorial	Practical						
APS411	Complex Variables and Numerical Methods	4	0	0	2	4	100	Y	N	-
EL416	Rotating AC Machines	4	0	2	2	5	100	Y	Y	-
EL418	Power System-II	3	2	0	2	4	100	Y	N	-
EL421	Engineering Electromagnetics	2	0	0	2	2	100	Y	N	Revised
EL427	Electrical Measurements and Instrumentation	3	0	2	2	4	100	Y	Y	-
EL511	Analog Electronics	3	0	2	2	4	100	Y	Y	-
NEN001	Orientation Program in Entrepreneurship	2	0	0	1	2	100	Y	N	-
	Total	**21**	**2**	**6**	**13**	**25**	**50**			

Total Teaching Hours- 29

1. CIE – Continuous internal evaluation (TCIE &/OR PCIE)
2. SSH - Self-study hours
3. PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..
4. (@) Audit Course / Non-Gradial Course
5. TSEE – Theory Semester End Examinations
6. Y – Yes   I   N- No

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DETAILED TEACHING SCHEME

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

PROGRAM: B. TECH – ELECTRICAL ENGINEERING
SEMESTER – V (Batch – 2020-24)

TEACHING SCHEME

Course Code	Course Name	Teaching Hours			SSH	Credits	Max. Marks of TSEE	CIE	PSEE	Remarks if any
		Theory	Tutorial	Practical						
EL513	Power System Operation and Control	3	2	2	3	5	100	Y	Y	-
EL516	Electrical Power Utilization and Traction	3	0	0	1	3	100	Y	N	-
EL519	Power Electronics-I	3	0	2	2	4	100	Y	Y	-
EL520	Control Systems	3	2	2	3	5	100	Y	Y	Revised
EL608	Green Energy Generation and Control	3	0	2	2	4	100	Y	Y	-
PC501	Rural Internship*	0	0	0	0	3	-	Y	Y	-
XXXX	University Elective-III	3	0	0	3/2	3	100	Y	N	-
	Total	**18**	**4**	**8**	**14/13**	**27**				-
		Total Teaching Hours- 30								

1. CIE – Continuous internal evaluation (TCIE &/OR PCIE)
2. SSH - Self-study hours
3. PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..
4. (@) Audit Course / Non-Gradial Course
5. TSEE – Theory Semester End Examinations
6. Y – Yes,   I   N- No
* Students are required to undergo 15 hrs. training / field visit / workshop in relevant field during semester

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DETAILED TEACHING SCHEME

RK.UNIVERSITY

SCHOOL OF ENGINEERING
ACADEMIC YEAR – 2022-23

PROGRAM: B. TECH – ELECTRICAL ENGINEERING
SEMESTER – VI (Batch -2020-24)

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

TEACHING SCHEME

Course Code	Course Name	Teaching Hours			SSH	Credits	Max. Marks of TSEE	CIE	PSEE	Remarks if any
		Theory	Tutorial	Practical						
EL517	Microprocessor and Microcontroller	3	0	2	2	4	100	Y	Y	-
EL613	High Voltage Engineering	3	0	2	2	4	100	Y	Y	-
EL614	Switchgear and Protection of Power System	4	0	2	2	5	100	Y	Y	-
EL616	Power Electronics-II	3	0	2	1.5	4	100	Y	Y	-
EL915	Power System Design and Practices	3	0	0	2	3	100	Y	N	-
ELXXX	Department Elective-I	3	0	0	3/2	3	100	Y	N	-
XXXXX	University Elective-IV	3	0	0	3/2	3	100	Y	N	-
	TOTAL	**22**	**0**	**8**	**15.5/13.5**	**26**				
				Total Teaching Hours-30						

1. CIE – Continuous internal evaluation (TCIE &/OR PCIE)
2. SSH - Self-study hours
3. PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..
4. (@) Audit Course / Non-Gradial Course
5. TSEE – Theory Semester End Examinations
6. Y – Yes   ┃   N- No

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DETAILED TEACHING SCHEME

RK.UNIVERSITY

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

PROGRAM: B. TECH – ELECTRICAL ENGINEERING
SEMESTER –VII (Batch – 2019-23)

TEACHING SCHEME

Course Code	Course Name	Teaching Hours			SSH	Credits	Max. Marks of TSEE	CIE	PSEE	Remarks if any
		Lecture	Tutorial	Practical						
EL710	Commissioning and Testing of Electrical Equipment	3	0	2	2	4	100	Y	Y	-
EL711	Project*	0	0	2	5	5*	-	Y	Y	-
EL712	Advances in Power Systems	3	0	2	2	4	100	Y	Y	-
EL713	Electrical Machine Design	3	2	0	3	4	100	Y	N	-
EL724	Electric Drives	3	0	2	2	4	100	Y	Y	-
EL9XX	Department Elective-II	3	0	0	2/2/2	3	100	Y	N	-
EL9XX	Department Elective-III	3	0	2	2/2/2	4	100	Y	Y	-
	Total	**18**	**2**	**10**	**18**	**28**				
	Total Teaching Hours	**30**								

1. CIE – Continuous internal evaluation (TCIE &/OR PCIE)
2. SSH - Self-study hours
3. PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..
4. (@) Audit Course / Non-Gradial Course
5. TSEE – Theory Semester End Examinations
6. Y – Yes | N– No
*Students are expected to work 10 hours/week on project. Two (2) hours shall be allotted in regular teaching for project.

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DETAILED TEACHING SCHEME

RK.UNIVERSITY

SCHOOL OF ENGINEERING
ACADEMIC YEAR – 2022-23

PROGRAM: B. TECH – ELECTRICAL ENGINEERING
SEMESTER – VIII (Batch – 2019-23)

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

TEACHING SCHEME

Course Code	Course Name	Teaching Hours			SSH	Credits	Max. Marks of TSEE	CIE	PSEE	Remarks if any
		Lecture	Tutorial	Practical						
EL805	Industrial Internship*	0	0	0	0	25	-	Y	Y	-
	Total	**0**	**0**	**0**	**-**	**25**				
		Total Teaching Hours- 00								

1. CIE – Continuous internal evaluation (TCIE &/OR PCIE)
2. SSH - Self-study hours
3. PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..
4. (@) Audit Course / Non-Gradial Course
5. TSEE – Theory Semester End Examinations
6. Y – Yes   N- No

* Students are required to undergo 14-16 weeks training / field visit / workshop in relevant field during semester

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Teaching Scheme

Semester-VIII

Course Code	Course Name	Teaching Scheme (Hours)			Credits (C)
		Theory (L)	Tutorial (T)	Practical (P)	
EL805	Industrial Internship	-	-	-	25
	Total	-	-	-	**25**
	Total Hours	**NA**			

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Course Title	INDUSTRIAL INTERNSHIP
Course Code	EL805
Course Credit	25

Course Learning Outcomes:

After successful completion of Industrial Training, learners shall be able to:
- **Integrate** classroom theory with workplace practice.
- **Develop** the technical skills, best practices and knowledge required in workplace.
- **Understand** administrative functions and company culture.
- **Recognize** the role of the professional/specialist/manager/supervisor in the industry.
- **Explore** the opportunities for career.
- **Gain** knowledge through research and development.
- **Make gradual** transition from academia to career.

PEDAGOGY

A student is required to undergo one full Semester of Industrial Internship as partial requirement for the fulfillment award of the degree.

A student's practical experience, under supervision in a well-administered agency, office, industry or organization should be commensurate with his or her level of education and future career goals. While the evaluation of the student's performance is based primarily on academic criteria, the practical experience, prospective career fields, and learning about his or her ability to function in a given occupational environment.

Rules and Regulations

Student should
- Follow the company etiquettes and all company regulations.
- Maintain the regularity at the assigned industry.
- Submit a detailed report at the end of the internship along with the certificate from the industry.
- Appear for end semester viva, scheduled as per the academic calendar in order to assess the learning outcomes.