

**STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN CIVIL ENGINEERING
FIFTH SEMESTER**

SR. NO.	SUBJECTS	STUDY SCHEME Hrs/Week		Credits	MARKS IN EVALUATION SCHEME								Total Marks of Int. &Ext.
					INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
		L/T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
-	Industrial Training during vacations after 4 th Semester	-	-	2	-	50	50	-	-	50	3	50	100
5.1	Reinforced Concrete Design	3	-	3	50	-	50	50	3	-	-	50	100
5.2	Highway, Railways & Bridge Engineering	3	2	4	20	10	30	50	3	20	3	70	100
5.3	R.C.C. & Steel Structures Drawings	-	6	3	-	50	50	50	3	-	-	50	100
5.4	Steel Structures Design	3	-	3	50	-	50	50	3	-	-	50	100
5.5	Soil and Foundation Engineering	3	4	5	20	10	30	50	3	20	3	70	100
5.6	Programme Elective	3	-	3	50	-	50	50	3	-	-	50	100
5.7	Survey Camp	-	2	1	-	50	50	-	-	50	3	50	100
#Student Centred Activities including Personality Development Awareness Camp		-	6	-	-	-	-	-	-	-	-	-	-
Total		15	20	24	190	170	360	300	-	140	-	440	800

Note: Survey camp will be held either in the beginning of 5th semester or after it for minimum 10 days in a sub mountainous area.

SCA will comprise of co-curricular activities like extension lectures, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities and other activities to promote experiential learning.

Programme Elective (Any one of the following): Repair and Maintenance of Buildings, Basics of Green Buildings, Pre-stressed Concrete, Quantity Surveying & Valuation, Earthquake Resistant Building Construction, Construction Management & Accounts.

**STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN ELECTRICAL ENGINEERING
FIFTH SEMESTER**

SR. NO.	SUBJECTS	STUDY SCHEME Hrs/Week		Credits	MARKS IN EVALUATION SCHEME								Total Marks of Int. &Ext.
					INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
		L/T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
-	Industrial Training during vacations after 4 th Semester	-	-	2	-	50	50	-	-	50	3	50	100
5.1	Utilization of Electrical Energy	3	2	4	20	10	30	50	3	20	3	70	100
5.2	Electrical Power	3	2	4	20	10	30	50	3	20	3	70	100
5.3	Microcontroller and Applications	2	4	4	20	10	30	50	3	20	3	70	100
5.4	Installation and Maintenance of Electrical Equipment	2	4	4	20	10	30	50	3	20	3	70	100
5.5	Program Elective	3	-	3	50	-	50	50	3	-	-	50	100
5.6	Minor Project Work	-	8	4	-	50	50	-	-	50	3	50	100
#Student Centred Activities including Personality Development Camp		-	2	-	-	-	-	-	-	-	-	-	-
Total		13	22	25	130	140	270	250	-	180	-	430	700

SCA will comprise of co-curricular activities like extension lectures, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities and other activities to promote experiential learning.

Programme Elective To choose any one from the following: 5.5.1 Smart Grid 5.5.2 Electric Vehicles 5.5.3 Sensors & IoT 5.5.4 Electrical Estimating and Costing

**STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN COMPUTER SCIENCE & ENGINEERING
FIFTH SEMESTER**

SR. NO.	SUBJECTS	STUDY SCHEME Hrs/Week		Credits	MARKS IN EVALUATION SCHEME								Total Marks of Int. &Ext.
					INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
		L/T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
-	Industrial Training	-	-	2	-	50	50	-	-	50	3	50	100
5.1	**Artificial Intelligence	2	4	4	20	10	30	50	3	20	3	70	100
5.2	**Web Development using PHP	2	2	3	20	10	30	50	3	20	3	70	100
5.3	**Computer Programming Using Python	2	4	4	20	10	30	50	3	20	3	70	100
5.4	Cloud Computing	2	4	4	20	10	30	50	3	20	3	70	100
5.5	**Open-Source Technologies	2	2	3	20	10	30	50	3	20	3	70	100
5.6	Program Elective	2	-	2	50	-	50	50	3	-	-	50	100
	*Basics of Management	2	-	-	-	-	-	-	-	-	-	-	-
#Student Centred Activities		-	3	-	-	-	-	-	-	-	-	-	-
Total		14	19	22	150	100	250	300	-	150	-	450	700

** Common course with diploma in Information Technology

SCA will comprise of co-curricular activities like extension lectures, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities and other activities to promote experiential learning.

Program Elective 1- Any one of the following: 5.6.1 Mobile Technologies

5.6.2 Big Data

5.6.3 Internet of Thing (IoT)

5.6.4 Digital Marketing

5.6.5 Network Security

5.6.6 Mobile Application Development

5.6.7 Data Science

**STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN INFORMATION TECHNOLOGY
FIFTH SEMESTER**

SR. NO.	SUBJECTS	STUDY SCHEME Hrs/Week		Credits	MARKS IN EVALUATION SCHEME								Total Marks of Int. &Ext.
					INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
		L/T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
-	Industrial Training	-	-	2	-	50	50	-	-	50	3	50	100
5.1	**Artificial Intelligence	2	4	4	20	10	30	50	3	20	3	70	100
5.2	**Web Development using PHP	2	2	3	20	10	30	50	3	20	3	70	100
5.3	**Computer Programming Using Python	2	4	4	20	10	30	50	3	20	3	70	100
5.4	Data Science with Python	2	4	4	20	10	30	50	3	20	3	70	100
5.5	**Open-Source Technologies	2	2	3	20	10	30	50	3	20	3	70	100
5.6	Program Elective	2	-	2	50	-	50	50	3	-	-	50	100
	*Basics of Management	2	-	-	-	-	-	-	-	-	-	-	-
#Student Centred Activities		-	3	-	-	-	-	-	-	-	-	-	-
Total		14	19	22	150	100	250	300	-	150	-	450	700

** Common course with diploma in Information Technology

SCA will comprise of co-curricular activities like extension lectures, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities and other activities to promote experiential learning.

Program Elective 1- Any one of the following: 5.6.1 Mobile Technologies 5.6.2 Big Data 5.6.3 Internet of Thing (IoT) 5.6.4 Cloud Computing 5.6.5 3D Animation 5.6.6 Mobile Application Development 5.6.7 Digital Marketing 5.6.8 Network Security

**STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN MECHANICAL ENGINEERING
FIFTH SEMESTER**

SR. NO.	SUBJECTS	STUDY SCHEME Hrs/Week		Credits	MARKS IN EVALUATION SCHEME								Total Marks of Int. &Ext.
					INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
		L/T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
-	Industrial Training during vacations after 4 th Semester	-	-	2	-	50	50	-	-	50	3	50	100
5.1	Refrigeration and Air Conditioning	2	2	3	20	10	30	50	3	20	3	70	100
5.2	CNC Machines & Workshop Technology	3	6	6	20	10	30	50	3	20	3	70	100
5.3	Thermodynamics-II	3	2	4	20	10	30	50	3	20	3	70	100
5.4	Theory of Machines	2	-	2	50	-	50	50	3	-	-	50	100
5.5	Automobile Engineering	3	2	4	20	10	30	50	3	20	3	70	100
5.6	Programme Elective	3	-	3	50	-	50	50	3	-	-	50	100
	Computer Aided Drafting	-	3	-	-	-	-	-	-	-	-	-	-
	*Basics of Management	2	-	-	-	-	-	-	-	-	-	-	-
#Student Centred Activities including Personality Development Camp		-	2	-	-	-	-	-	-	-	-	-	-
Total		18	17	24	180	90	270	300	-	130	-	430	700

** Common course with diploma in Information Technology

SCA will comprise of co-curricular activities like extension lectures, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities and other activities to promote experiential learning.
Programme Elective- Any one of the following: 1. Industrial Automation & Robotics 2. Material Handling Equipment
3. Installation & Maintenance of Equipment 4. Power Plant Engineering 5. Machine Design

**STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN ELECTRONICS & COMMUNICATION ENGINEERING
FIFTH SEMESTER**

SR. NO.	SUBJECTS	STUDY SCHEME Hrs/Week		Credits	MARKS IN EVALUATION SCHEME								Total Marks of Int. &Ext.
		INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT								
		L/T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
-	Industrial Training during vacations after 4 th Semester	-	-	2	-	50	50	-	-	50	3	50	100
5.1	Microware Engineering	3	2	4	20	10	30	50	3	20	3	70	100
5.2	Optical Fiber Communication	3	2	4	20	10	30	50	3	20	3	70	100
5.3	Digital Communication	3	2	4	20	10	30	50	3	20	3	70	100
5.4	VLSI System Design	3	2	4	20	10	30	50	3	20	3	70	100
5.5	Wireless and Mobile Communication	3	2	4	20	10	30	50	3	20	-	70	100
5.6	Program Elective	3	-	3	50	-	50	50	3	-	-	50	100
5.7	*Basics of Management	2	-	-	-	-	-	-	-	-	-	-	-
#Student Centred Activities (SCA) including Personality Development Camp		-	5	-	-	-	-	-	-	-	-	-	-
Total		20	15	25	150	100	250	300	-	150	-	450	700

SCA will comprise of co-curricular activities like extension lectures, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities and other activities to promote experiential learning.

Syllabus of Basics of Management to be reduced to half and it is a non-credit course

Program Elective: Any one of the following: 1) Medical Electronics 2) IC Fabrication 3) PLC & SCADA