

Study & Evaluation Scheme

of

Diploma in Engineering
(COMPUTER SCIENCE AND ENGINEERING)
[Applicable w.e.f. Academic Session 2024-25]
Approved by Academic Council



FUTURE UNIVERSITY

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FUTURE UNIVERSITY

(Established under Govt. of U. P. Act No. 12, 2024)

Study & Evaluation Scheme of Diploma in Engineering (COMPUTER SCIENCE AND ENGINEERING) SUMMARY

Programme : Diploma in Engineering (COMPUTER SCIENCE AND ENGINEERING)

Duration : Three years full time (Six Semesters)

Medium : English/ Hindi

Minimum Required Attendance : 75 percent

Credit

Maximum Credit : 132

Minimum credit required for the degree : 120

Assessment (Theory)			
	Internal	External	Total
	30%	70%	100%

Assessment (Practical)			
	Internal	External	Total
	30%	70%	100%

Internal Evaluation (Theory Papers)	Class Test I	Class Test II	Assignment(s)	Other Activity (including attendance)	Total
	10 Marks	10 Marks	5 Marks	5 Marks	30 Marks

Internal Evaluation (Practical Papers)	Experiment File Viva	Mid Semest er Exam	Attendance	Total
	10 Marks	10 Marks	10 Marks	30 Marks

Duration of Examination (Theory)		
	External	Internal
	3 hrs.	1 ½ hrs

Duration of Examination (Practical) : As per the requirement of the practical paper.

To qualify the course a student is required to secure a minimum of 40% marks in aggregate including the semester end examination and teachers' continuous evaluation. (i.e. both internal and external).

A candidate who secures less than of 40% of marks in a course shall be deemed to have failed in that course. The student should have at least 50% marks in aggregate to clear the semester. In case a student has more than 40% in each course, but less than 50% overall in a semester, he/she shall re-appear in courses where the marks are less than 50% to achieve the required aggregate percentage of 50% in the semester.

Question Paper Structure

- 1. The question paper shall consist of six questions. Out of which first question shall be of short answer type (not exceeding 50 words) and will be compulsory. Question No. 1 shall contain 8 parts representing all units of the syllabus and students shall have to answer any five (weight age 4 marks each).***
- 2. Out of the rest five questions, students shall be required to attempt all five questions, but there will be an internal choice of A or B. Each question will be from one unit of the syllabus. The weight age of Question No. 2 to 6 shall be 10 marks each.***

Faculty of Engineering & Technology

Department of Diploma in Engineering

Computer Science and Engineering

Evaluation Scheme

Credit Framework for Diploma in Engineering - NEP-2020									
Sem.	Major (Core)	Minor Stream	Multidisciplinary	Ability Enhancement course	Skill Enhancement Course	Value added Courses Common for All Diploma	Summer Internship	Research Project/Dissertation	Total Credit
1.	14	5			3	2			24
2.	17	4	2			1			24
3.	12	4			5	1			22
4.	16			3		3			22
5.	17					1	2		20
6.	13		4			1		2	20

Total Credit- 132

Polytechnic (Diploma in Engineering), Semester I

							Evaluation Scheme					
SN	Subject Name	Type	Category	Period			Sessional Component		Sessional (SW) (TS/PS)	End Semester Examination (ESE)	Total	Credit
				L	T	P	CT	TA	CT+TA	TE/PE	SW+ESE	Cr
1.	Mathematics-I	T	Major (Core)	3	1	-	20	10	30	70	100	4
2.	Applied Physics-I	T	Major (Core)	3	1	-	20	10	30	70	100	4
3.	Applied Chemistry	T	Major (Core)	3	1	-	20	10	30	70	100	4
4.	Communication Skills in English	T	Skill Enhancement	3	-	-	20	10	30	70	100	3
5.	Applied Physics Lab	P	Minor Stream	-	-	4	-	20	20	30	50	2
6.	Applied Chemistry Lab	P	Minor Stream	-	-	2	-	20	20	30	50	1
7.	Communication Skills Lab	P	Minor Stream	-	-	2	-	20	20	30	50	1
8.	Engineering Graphics	P	Major (Core)	-	-	4	-	20	20	30	50	2
9.	Engineering Workshop Practice Lab	P	Minor Stream	-	-	2	-	20	20	30	50	1
10.	General Proficiency	-	Value Added	-	-	2	-	50	50	-	50	1
11.	Sports & Yoga	-	Value Added	-	-	2	-	20	20	30	50	1
	Total			12	3	18	80	210	290	460	750	24

Polytechnic (Diploma in Engineering), Semester II

							Evaluation Scheme					
SN	Subject Name	Type	Category	Period			Sessional Component		Sessional (SW) (TS/PS)	End Semester Examination (ESE)	Total	Credit
				L	T	P	CT	TA	CT+TA	TE/PE	SW+ESE	Cr
1.	Mathematics-II	T	Major (Core)	3	1	-	20	10	30	70	100	4
2.	Applied Physics-II	T	Major (Core)	3	1	-	20	10	30	70	100	4
3.	Introduction to IT System	T	Major (Core)	2	-	-	20	10	30	70	100	2
4.	Fundamentals of Electrical & Electronic Engineering	T	Major (Core)	2	1	-	20	10	30	70	100	3
5.	Engineering Mechanics	T	Major (Core)	3	1	-	20	10	30	70	100	4
6.	Environmental Sciences	T	Multidisciplinary	2	-	-	20	10	30	70	100	2
7.	Applied Physics-II Lab	P	Minor Stream	-	-	2	-	20	20	30	50	1
8.	Introduction to IT System Lab	P	Minor Stream	-	-	2	-	20	20	30	50	1
9.	Fundamentals of Electrical Electronic Engineering Lab	P	Minor Stream	-	-	2	-	20	20	30	50	1
10.	Engineering Mechanics Lab	P	Minor Stream	-	-	2	-	20	20	30	50	1
11.	General Proficiency	-	Value Added	-	-	2	-	50	50	-	50	1
	Total			15	4	10	120	190	310	540	850	24

Polytechnic (Diploma in Engineering), Semester III

SN	SubjectName	Type	Category	Period			Sessional Component		Evaluation Scheme			Credit
				L	T	P	CT	TA	Sessional (SW) (TS/PS)	End Semester Examination (ESE)	Total	
1.	Applied Mathematics-III	T	Minor Stream	3	1	-	20	10	30	70	100	4
2.	Communication Skill-II	T	Skill Enhancement	3	-	-	20	10	30	70	100	3
3.	AI For Everyone	T	Skill Enhancement	2	-	-	20	10	30	70	100	2
4.	Internet and Web Technology	T	Major (Core)	2	1	-	20	10	30	70	100	3
5.	Data Structure Using C	T	Major (Core)	3	1	-	20	10	30	70	100	4
6.	Digital Electronics	T	Major (Core)	2	1	-	20	10	30	70	100	3
7.	Internet and Web Technology LAB	P	Major (Core)	-	-	2	-	20	20	30	50	1
8.	Data Structure Using C, LAB	P	Major (Core)	-	-	2	-	20	20	30	50	1
9.	General Proficiency	-	Value Added	-	-	2	-	50	50	-	50	1
	Total			15	4	6	120	150	270	480	750	22

Polytechnic (Diploma in Engineering), Semester IV

							Evaluation Scheme					
SN	SubjectName	Type	Category	Period			Sessional Component		Sessional (SW) (TS/PS)	End Semester Examination (ESE)	Total	Credit
				L	T	P	CT	TA	CT+TA	TE/PE	SW+ESE	Cr
1.	Data Base Management System	T	Major (Core)	2	1	-	20	10	30	70	100	3
2.	Object Orientation Programming Using Java	T	Major (Core)	3	1	-	20	10	30	70	100	4
3.	Operating System	T	Major (Core)	3	1	-	20	10	30	70	100	4
4.	AI For Engineering	T	Major (Core)	3	-	-	20	10	30	70	100	3
5.	Energy Conservation	T	Ability Enhancement	3	-	-	20	10	30	70	100	3
6.	Universal Human Values	T	Value Added	2	-	-	20	10	30	70	100	2
7.	Object Orientation Programming Using Java LAB	P	Major (Core)	-	-	2	-	20	20	30	50	1
8.	Data Base Management System LAB	P	Major (Core)	-	-	2	-	20	20	30	50	1
9.	General Proficiency	-	Value Added	-	-	2	-	50	50	-	50	1
	Total			16	3	6	120	150	270	480	750	22

Polytechnic (Diploma in Engineering), Semester V

							Evaluation Scheme					
SN	SubjectName	Type	Category	Period			Sessional Component		Sessional (SW) (TS/PS)	End Semester Examination (ESE)	Total	Credit
				L	T	P	CT	TA	CT+TA	TE/PE	SW+ESE	Cr
1.	Industrial Training	T	Summer Training	-	-	-	-	50	50	-	50	2
2.	Software Engineering	T	Major (Core)	2	-	-	20	10	30	70	100	2
3.	Web Development Using PHP	T	Major (Core)	2	-	-	20	10	30	70	100	2
4.	Computer Architecture and Hardware Maintenance	T	Major (Core)	2	1	-	20	10	30	70	100	3
5.	Internet of Things	T	Major (Core)	2	-	-	20	10	30	70	100	2
6.	Data Communication and Computer Network	T	Major (Core)	2	-	-	20	10	30	70	100	2
7.	Computer Programming Using Python	T	Major (Core)	2	-	-	20	10	30	70	100	2
8.	Computer Programming Using Python LAB	P	Major (Core)	-	-	2	-	20	20	30	50	1
9.	Web Development Using PHP LAB	P	Major (Core)	-	-	2	-	20	20	30	50	1
10.	Minor Project Work	P	Major (Core)	-	-	4	-	50	50	-	50	2
11.	General Proficiency	-	Value Added	-	-	2	-	50	50	-	50	1
	Total			12	1	10	120	250	370	480	850	20

Polytechnic (Diploma in Engineering), Semester VI

							Evaluation Scheme					
SN	Subject Name	Type	Category	Period			Sessional Component		Sessional (SW) (TS/PS)	End Semester Examination (ESE)	Total	Credit
				L	T	P	CT	TA	CT+TA	TE/PE	SW+ESE	Cr
1.	Development of Android Application	T	Major (Core)	2	1	-	20	10	30	70	100	3
2.	Cloud Computing	T	Major (Core)	2	1	-	20	10	30	70	100	3
3.	Industrial Management and Entrepreneurship Development	T	Major (Core)	3	-	-	20	10	30	70	100	3
4.	Advance Java*	T	Major (Core)	2	1	-	20	10	30	70	100	3
5.	E-Commerce and Digital Marketing	T	Multidisciplinary	2	-	-	20	10	30	70	100	2
6.	Environmental Studies	T	Multidisciplinary	2	-	-	20	10	30	70	100	2
7.	Development of Android Application LAB	P	Major (Core)	-	-	2	-	20	20	30	50	1
8.	Project Work	P	Project	-	-	4	-	50	50	200	250	2
9.	General Proficiency	-	Value Added	-	-	2	-	50	50	-	50	1
	Total			13	3	8	120	180	300	650	950	20

Note: - (*) Elective Subject