STUDY AND EVALUATION SCHEME FOR ALL ENGINEERING AND TECHNOLOGY BRANCHES (Listed in Annexure -1)

SECOND SEMESTER:

Sr. No.	SUBJECTS	CATEGORY OF COURSE	STUDY SCHEME Periods/Week			Credits	MARKS IN EVALUATION SCHEME								Total Marks of Internal & External
							INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
			L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
2.1	Mathematics-II	Basic Science	3	1	-	4	40	-	**40**	60	3	-	-	**60**	100
2.2	Applied Physics-II	Basic Science	3	-	2	4	40	60	**100**	60	3	40	3	**100**	200
2.3	Introduction To IT and AI **OR** Applied Chemistry	Engineering Science / Basic Science	2 / 3	- / -	4 / 2	4	40	60	**100**	60	3	40	3	**100**	200
2.4	Fundamentals of Electrical & Electronics Engineering **OR** Communication Skills in English	Engineering Science / Humanities & Social Science	3	-	2	4	40	60	**100**	60	3	40	3	**100**	200
2.5	Engineering Mechanics	Engineering Science	2	1	2	4	40	60	**100**	60	3	40	3	**100**	200
2.6	Engineering Workshop Practice **OR** Engineering Graphics	Engineering Science / Engineering Science			4	2	- / -	60 / 40	**60** / **40**	- / 60	- / 3	40 / -	3 / -	**40** / **60**	100
2.7	(Q) Environmental Sciences	Audit	3	-	-	-	-	-	**-**	60*	3	-	-	**60***	-
# Student Centered Activities (SCA)			-	**-**	4	-	-	50	**50**	-	-	-	-	**-**	50
Total						**22**									**1050**

Note :-The Institutional authority may select alternative subjects, as indicated at Sr. No. 2.3, 2.4 and 2.6 based on the need of the respective branches offered at their institute.

The alternative subjects once selected in first semester will not be selected in second semester.

Students centered activities will comprise of co-curricular activities like extension lecture, games, hobby, clubs, e.g., photography etc., seminars, declamation contents, education field visit, library, NCC,NSS, Cultural Activities and foreign language practices, self-study etc. The Lecture allotted to SCA can also be utilized for the course completion of other subjects.

(Q) It is compulsory to appear and to pass the examination, but marks will not be included for percentage and division of obtained marks.

1-Each Period will be 60 minutes duration.

2-Each Session will be 16 weeks.

3- Effective teaching will be at least 14 weeks.

4- **Industrial Training (Summer Internship–I):** A 4-week internship will be organized after the II Semester Examination. Evaluation will be in the III Semester.

CORRECTED AND APPROVED BY BOARD OF TECHNICAL EDUCATION U.P. LUCKNOW IN C.D.C MEETING HELD ON 16.07.2026

STUDY AND EVALUATION SCHEME FOR CHEMICAL ENGINEERING (PETRO CHEMICAL)
FOURTH SEMESTER

SR. NO.	SUBJECTS	COURSE TYPE AND CATEGORY	STUDY SCHEME PERIODS/WEEK			CREDITS	MARKS IN EVALUATION SCHEME								TOTAL MARKS OF INTERNAL & EXTERNAL
							INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
			L	T	P		TH	PR	TOT	TH	HRS	PR	HRS	TOT	
4.1	Process Heat Transfer	Program Core (Theory)	2	-	-	2+0=2	40	-	40	60	3	-	-	60	100
4.2	Process Heat Transfer (Lab)	Program Core (Practical)	-	-	4	0+2=2	-	60	60	-	-	40	3	40	100
4.3	Chemical Reaction Engineering	Program Core (Practicum)	2	-	4	2+2=4	40	-	40	60	3	-	-	60	100
4.4	Natural and Bio Gas Engineering	Program Core (Theory)	3	-	-	3+0=3	40	-	40	60	3	-	-	60	100
4.5	Mass Transfer Operations-I	Program Core (Practicum)	2	-	2	2+1=3	40	-	40	60	3	-	-	60	100
4.6	Program Elective -1	Program Core (Theory)	2	-	-	2+0=2	40	-	40	60	3	-	-	60	100
4.7	Program Elective-2	Program Core (Theory)	2	-	-	2+0=2	40	-	40	60	3	-	-	60	100
4.8	(Q) Open Elective-1	Open Elective	2	-	-	2	50*	-	-	-	-	-	-	-	-
	Advance Skill Certification	Certification Course	-	-	-		-	-	-	-	-	-	-	-	-
4.9	(Q) Essence Of Indian Knowledge And Tradition	Audit Course	2	-	-	-	50	-	-	-	-	-	-	-	-
# STUDENT CENTERED ACTIVITIES			-	-	9	-	-	50	50	-	-	-	-	-	50
TOTAL			**17**	**-**	**19**	**20**	**240**	**110**	**350**	**360**			**-**	**400**	**750**

*Students will submit the certificate.
(Q) This Course is Qualifying only, Exam marks will not be added in obtained marks.
Advance Skill Development:
To fulfill the requirements for Advanced Skill Development, a minimum of 20 hours of skill certification is necessary. This certification must be obtained from a recognized national or international agency or institute. The assessment and certification process will be conducted by the respective agency or institute. Students must present their certificate to earn 02 credits for this subject.
Student Centered Activities will comprise of co-curricular activities like extension lectures, games, hobby clubs e.g. Photography etc., Seminars, Declamation Contests, voluntary contribution in physical activities, Educational Field Visits, NCC, NSS, Cultural Activities and Self-Study etc.
-Industrial Training (Summer Internship-II) of 4-6 Weeks after 4th Semester, Evaluation will be in 5th Semester.

UPDATED AND APPROVED BY BOARD OF TECHNICAL EDUCATION U.P. LUCKNOW IN C.D.C MEETING HELD ON 16.07.2026

STUDY AND EVALUATION SCHEME FOR CHEMICAL ENGINEERING (PETRO-CHEMICAL)

SIXTH SEMESTER

NORMAL PATHWAY

Sr. No.	SUBJECTS	COURSE TYPE & CATEGORY	STUDY SCHEME PERIODS/WEEK			CREDITS	MARKS IN EVALUATION SCHEME								TOTAL MARKS OF INTERNAL & EXTERNAL
							INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
			L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
6.1	PROCESS CONTROL AND INSTRUMENTATION	PROGRAM CORE (PRACTICUM)	2	-	4	4	40	-	40	60	3	-	-	60	100
6.2	Entrepreneurship And Start-Up	Humanities & Social Science	02	-	-	2	40	-	**40**	60	3	-	-	**60**	**100**
6.3	In House Project	Project	04	-	16	12	-	240	**240**	-	-	160	-	**160**	**400**
6.4	Open Elective -3	Open Elective	02	-	-	2	-	-	**50***	-	-	-	-	**-**	**-**
	Advance Skill Development	Certification Course	-	-	-		-	-	**-**	-	-	-	-	**-**	**-**
#STUDENT CENTERED ACTIVITIES			-	-	06		-	50	**50**	-	-	-	-	**-**	**50**
TOTAL			**10**		**26**	**20**	**80**	**290**	**370**	**120**		**160**		**280**	**650**

NOTE: -

1. (Q) It is compulsory to appear and to pass the examination, but marks will not be included for percentage and division of obtained marks.
2. Advance skill development mention at 6.4 in the table provides the scope of selecting the course as per choice from the elective list provided in the syllabus conducted by various agencies of repute of duration not less than 20 Hrs (Offline/Online).
3. The above scheme can be customized as per the specific requirements of the respective courses.
4. (Q) It is compulsory to appear and to pass the examination, but marks will not be included for percentage and division of obtained marks.
5. # Student Centered Activities will comprise of co-curricular activities like extension lectures, games, hobby clubs e.g. Photography etc., Seminars, Declamation Contests, voluntary contribution in physical activities, Educational Field Visits, NCC, NSS, Cultural Activities and Self-Study. The lecture allotted to SCA can also be utilized for the course completion of other subjects.

UPDATED AND APPROVED BY BOARD OF TECHNICAL EDUCATION U.P. LUCKNOW IN C.D.C MEETING HELD ON 16.07.2026

4th SEMESTER {CIVIL ENGINEERING }

Sr. No.	SUBJECTS	COURSE TYPE & CATEGORY	STUDY SCHEME Periods/Week			Credits	MARKS IN EVALUATION SCHEME								Total Marks of Internal & External
							INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
			L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
4.1	HYDRAULICS	PROGRAM CORE (THEORY)	02	-	-	2+0=2	40	-	40	60	3	-	-	60	100
4.2	HYDRAULICS LAB	PROGRAM CORE (PRACTICAL)	-	-	02	0+1=1	-	60	60	-	-	40	3	40	100
4.3	ADVANCE SURVEYING	PROGRAM CORE (THEORY)	02	-	-	2+0=2	40	-	40	60	3	-	-	60	100
4.4	ADVANCE SURVEYING LAB	PROGRAM CORE (PRACTICAL)	-	-	04	0+2=2	-	60	60	-	-	40	3	40	100
4.5	THEORY OF STRUCTURE	PROGRAM CORE (THEORY)	02	01	-	3+0=3	40	-	40	60	3	-	-	60	100
4.6	DESIGN OF REINFORCED CEMENT CONCRETE STRUCTURES	PROGRAM CORE (THEORY)	02	01	-	3+0=3	40	-	40	60	3			60	100
4.7	REINFORCED CEMENT CONCRETE STRUCTURES DRAWING	PROGRAM CORE (PRACTICUM/PRACTICAL)	01	-	04	1+2=3		60	60	-	-	40	3	40	100
4.8	WATER RESOURCE ENGINEERING	PROGRAM CORE (THEORY)	02		-	2+0=2	40	-	40	60	3			60	100
4.9	PUBLIC HEALTH ENGINEERING	PROGRAM CORE (PRACTICUM/THEORY)	01	-	02	1+1=2		40	40	60	3	-	-	60	100
4.10	(Q) ESSENCE OF INDIAN KNOWLEDGE AND TRADITION	AUDIT COURSE	02	-	-	-	50*	-	50*	-	-	-	-	-	-
#STUDENT CENTERED ACTIVITIES			-	-	08	-	-	50	50	-	-	-	-	-	50
Total			**14**	**02**	**20**	**20**	**200**	**270**	**470**	**360**	**-**	**120**	**-**	**480**	**950**

Note -(Q) - It is compulsory to appear & to pass in examination, But marks will not be included for division and percentage of obtained marks.

Student Centered Activities 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, library, Cultural Activities and self-study etc.

PRACTICUM: It means that the teacher supervise and involves students in practical application of previously studied theory.

UPDATED AND APPROVED BY BOARD OF TECHNICAL EDUCATION U.P. LUCKNOW IN C.D.C MEETING HELD ON 16.07.2026

6- STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN CIVIL ENGINEERING

6th SEMESTER CIVIL ENGINEERING

Sr. No.	SUBJECTS	COURSE TYPE & CATEGORY	STUDY SCHEME Periods/Week			Credits	MARKS IN EVALUATION SCHEME								Total Marks of Internal & External
							INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
			L	T	P		Th	Pr	Tot	Th	Hrs	Pr	Hrs	Tot	
6.1	PROGRAM ELECTIVE-02 a) CONSTRUCTION MANAGEMENT b) ADVANCE CONSTRUCTION TECHNOLGY	PROGRAM CORE (THEORY)	03	01	-	4	40	-	40	60	3	-	-	60	100
6.2	ENTREPRENEURSHIP AND START-UP	PROGRAM CORE (THEORY)	02	-	-	2	40	-	40	60	3	-	-	60	100
6.3	**OPEN ELECTIVE-02** a) RENEWABLE ENERGY TECHNOLOGY b) ENERGY CONSERVATION AND AUDIT	PROGRAM CORE (THEORY)I	02	-	-	2	50	-	50	-	-	-	-	-	NA
	OR ADVANCE SKILL DEVELOPMENT	OPEN ELECTIVE (Certification Course)					-	-	-	-	-	-	-	-	NA
6.4	PROJECT	PROGRAM CORE (PRACTICAL)	04	-	16	12	-	240	240	-	-	160	3	160	400
#STUDENT CENTERED ACTIVITIES			-	-	08	-	-	50	50	-	-	-	-	-	50
Total			**11**	**01**	**24**	**20**	**160**	**150**	**310**	**240**		**150**		**390**	**650**

Student Centered Activities 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, library, Cultural Activities and self-study etc.

STUDY AND EVALUATION SCHEME FOR PAINT TECHNOLOGY

FOURTH SEMESTER

SR. NO.	SUBJECTS	COURSE TYPE AND CATEGORY	STUDY SCHEME PERIODS/WEEK			CREDITS	MARKS IN EVALUATION SCHEME								TOTAL MARKS OF INTERNAL & EXTERNAL
							INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
			L	T	P		TH	PR	TOT	TH	HRS	PR	HRS	TOT	
4.1	Heat & Mass Transfer	Program Core (Practicum)	2	-	2	2+1=3	40	-	40	60	3	-	-	60	100
4.2	Chemical Reaction Engineering & Thermodynamics	Program Core (Practicum)	2	-	2	2+1=3	40	-	40	60	3	-	-	60	100
4.3	Formulation and Manufacturing of Paint	Program Core (Theory	2	-	-	2+0=2	40	-	40	60	3	-	-	60	100
4.4	Formulation and Manufacturing of Paint	Program Core (Practical)	-	-	4	0+2=2	-	60	60	-	-	40	-	40	100
4.5	Surface Preparation and Paint Application	Program Core (Practicum)	2	-	4	2+2=4	40	-	40	60	3	-	-	60	100
4.6	Program Elective - 1	Program Core (Theory)	2	-	-	2+0=2	40	-	40	60	3	-	-	60	100
4.7	Program Elective - 2	Program Core (Theory)	2	-	-	2+0=2	40	-	40	60	3	-	-	60	100
4.8	(Q) Open Elective-1 **OR**	Open Elective	2	-	-	2	50*	-	-	-	-	-	-	-	-
	*Advance Skill Development	Certification Course	-	-	-		-	-	-	-	-	-	-	-	-
4.9	(Q) Essence Of Indian Knowledge and Tradition	Audit Course	2	-	-	-	50*	-	-	-	-	-	-	-	-
# Student Centered Activities			-	-	8	-	-	50	50	-	-	-	-	-	50
TOTAL			**16**	**-**	**20**	**20**	**240**	**110**	**350**	**360**		**40**	**-**	**400**	**750**

*Students will submit the certificate.

(Q) This Course is Qualifying only, Exam marks will not be added in obtained marks.

Advance Skill Development:

To fulfill the requirements for Advanced Skill Development, a minimum of 20 hours of skill certification is necessary. This certification must be obtained from a recognized national or international agency or institute. The assessment and certification process will be conducted by the respective agency or institute. Students must present their certificate to earn 02 credits for this subject.

Student Centered Activities will comprise of co-curricular activities like extension lectures, games, hobby clubs e.g. Photography etc., Seminars, Declamation Contests, voluntary contribution in physical activities, Educational Field Visits, NCC, NSS, Cultural Activities and Self-Study etc.

-Industrial Training (Summer Internship-II) of 4-6 Weeks after 4th Semester, Evaluation will be in 5th Semester.

STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN PAINT TECHNOLOGY

SIXTH SEMESTER

NORMAL PATHWAY

SR. NO.	SUBJECTS	COURSE TYPE & CATEGORY	STUDY SCHEME PERIODS/WEEK			CREDIT	MARKS IN EVALUATION SCHEME								TOTAL MARKS OF INTERNAL & EXTERNAL
							INTERNAL ASSESSMENT			EXTERNAL ASSESSMENT					
			L	T	P		TH	PR	TOT	TH	HRS	PR	HRS	TOT	
6.1	Architecture and Industrial Coating	Program Core (Practicum)	3	-	2	3+1=4	40	-	**40**	60	3	-	-	**60**	**100**
6.2	Entrepreneurship And Start-Up	Program Core (Theory)	2	-	-	2+0=2	40	-	40	60	3	-	-	60	**100**
6.3	In-House Project	Project	4	-	16	12	-	240	240	-	-	160	-	160	**400**
6.4	(Q) Open elective-3 OR	Open elective (Theory)	2	-	-	2	-	-	50*	-	-	-	-	-	**NA**
	*Advance Skill Certification	(Certification course)					-	-	-	-	-	-	-	-	**NA**
#Student Centered Activities			-	-	6	-	-	50	50	-	-	-	-	-	**50**
TOTAL			**11**	**-**	**24**	**20**	**80**	**290**	**370**	**120**	**-**	**160**	**-**	**280**	**650**

(Q) It is compulsory Q appear and to pass the examination but marks will not be included of percentage and division of obtain marks.

*Advance skill development mentioned at 6.4 in the table provides the scope of selecting the course as per choice form the elective list provided in the syllabus conducted by various agencies of repute of duration not less than 20 hrs.

Student Centered Activities will comprise of co-curricular activities like extension lectures, games, hobby clubs e.g. Photography etc., Seminars, Declamation Contests, voluntary contribution in physical activities, Educational Field Visits, NCC, NSS, Cultural Activities and Self-Study. The periods allotted to SCA can also be utilized to complete the syllabus for other subjects.

Above scheme can be customized as per the specific requirements of the respective course

UPDATED AND APPROVED BY BOARD OF TECHNICAL EDUCATION U.P. LUCKNOW IN C.D.C MEETING HELD ON 16.07.2026