



ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B. Tech. Scheme of Examination & Syllabus 2025-26

COMPUTER SCIENCE AND ENGINEERING

Annexure – I CREDIT FRAMEWORK STRUCTURE

Semester		I	II	III	IV	V	VI	VII	VIII	Total Credits
Basic Science Course	BSC/ESC	7	7	-	-	-	-	-	-	14
Engineering Science Course		6	6	-	-	-	-	-	-	12
Program Core Course (PCC)	Program Courses	2	2	13	10	7	4	6		44
Program Elective Course (PEC)		-	-	-	-	4	6	6	4	20
Multidisciplinary Minor (MDM)	Multidisciplinary Courses	-	-	2	3	3	3	3	-	14
Open Elective (OE) Other than a particular program		-	-	-	-	2	3	3	-	08
Vocational and Skill Enhancement Course (VSEC)	Skill Courses	-	2	1	1	2	2	-	-	08
Ability Enhancement Course (AEC -01, AEC-02)	Humanities Social Science and Management (HSSM)	1	1	-	-	2	-	-	-	04
Entrepreneurship/Economics/Management Courses		-	-	2	2	-	-	-	-	04
Indian Knowledge System (IKS)		2	-	-	-	-	-	-	-	02
Value Education Course (VEC)		-	-	2	2	-	-	-	-	04
Research Methodology		-	-	-	-	-	-	-	4	04
Comm. Engg. Project (CEP)/ Field Project (FP)	Experiential Learning Courses	-	-	-	2	-	-	-	-	02
Project		-	-	-	-	-	2	2	-	04
Internship/OJT		-	-	-	-	-	-	-	12	12
Co-curricular Courses (CC)	Liberal Learning Courses	2	2	-	-	-	-	-	-	04
Total Credits (Major)		20	160							

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GROUP 1: SEMESTER I

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	BSC	25CE101T	Engineering Chemistry	2	-	-	2	10	10	30	50	23	1.5
2	BSC	25CE101P	Engineering Chemistry Lab	-	-	2	1	-	25	25	50	25	-
3	BSC	25CE102T	Linear Algebra and Calculus	3	-	-	3	20	20	60	100	45	3
4	BSC	25CE102P	Linear Algebra and Calculus Lab	-	-	2	1	-	25	25	50	25	-
5	ESC	25CE103T	Logic building with C	3	-	-	3	20	20	60	100	45	3
6	ESC	25CE103P	Logic building with C Lab	-	-	2	1	-	25	25	50	25	-
7	ESC	25CE104T	Competitive Programming - I	2	-	-	2	10	10	30	50	23	1.5
8	PCC	25CE105T	Concept in Computer Engineering-I	2	-	-	2	10	10	30	50	23	1.5
9	AEC	25CE106P	Business Communication Skills I Lab	-	-	2	1	-	25	25	50	25	-
10	IKS	25CE107T	Indian Knowledge Systems #	2	-	-	2	10	10	30	50	23	1.5
11	CC	25CE108T	Co-curricular Courses - I	2	-	-	2	-	50	-	50	25	-
Total				16	00	08	20	80	230	340	650		

To be conducted online through NPTEL

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COMPUTER SCIENCE AND ENGINEERING

GROUP 1: SEMESTER II

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration of ESE (hrs.)
				L	T	P		Mid-Sem Examination	Continual Assessment	End Semester Examination	Total		
1	BSC	25CE201T	Engineering Physics and Materials Science	2	-	-	2	10	10	30	50	23	1.5
2	BSC	25CE201P	Engineering Physics and Materials Science Lab	-	-	2	1	-	25	25	50	25	-
3	BSC	25CE202T	Statistics and Probability	3	-	-	3	20	20	60	100	45	3
4	BSC	25CE202P	Statistics and Probability Lab	-	-	2	1	-	25	25	50	25	-
5	ESC	25CE203T	Problem Solving with Python	3	-	-	3	20	20	60	100	45	3
6	ESC	25CE203P	Problem Solving with Python Lab	-	-	2	1	-	25	25	50	25	-
7	ESC	25CE204T	Competitive Programming – II	2	-	-	2	10	10	30	50	23	1.5
8	PCC	25CE205T	Modern Web Technologies	2	-	-	2	10	10	30	50	23	1.5
9	AEC	25CE206P	Business Communication Skills – II Lab	-	-	2	1	-	25	25	50	25	-
10	SEC	25CE207T	Design Thinking #	2	-	-	2	10	10	30	50	23	1.5
11	CC	25CE208T	Co-curricular Courses – II	2	-	-	2	-	50	-	50	25	-
Total				16	00	08	20	80	230	340	650		

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COMPUTER SCIENCE AND ENGINEERING

SEMESTER III

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration of ESE (hrs.)
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	25CE301T	Mathematics for Computer Engineering	3	-	-	3	20	20	60	100	45	3
2	PCC	25CE302T	Data Structure	3	-	-	3	20	20	60	100	45	3
3	PCC	25CE302P	Data Structure Lab	-	-	2	1	-	25	25	50	25	-
4	PCC	25CE303T	Digital Circuits	2	-	-	2	10	10	30	50	23	1.5
5	PCC	25CE303P	Digital Circuits Lab	-	-	2	1	-	25	25	50	25	-
6	PCC	25CE304T	Computer Architecture	2	-	-	2	10	10	30	50	23	1.5
7	PCC	25CE305P	Computer Lab-I	-	-	2	1	-	25	25	50	25	-
8	VEC	25ES301T	Constitution of India	2	-	-	2	10	10	30	50	23	1.5
9	HSSM	25ES302T	Fundamentals of Entrepreneurship	2	-	-	2	10	10	30	50	23	1.5
10	SEC	25CE341P	Career Development - I	-	-	2	1	-	50	-	50	25	-
11	MDM	25CE331M	MDM-I (Refer MDM Basket)	2	-	-	2	10	10	30	50	23	1.5
Total				16	0	08	20	90	215	345	650		

Note: Anyone PCC to be conducted online through NPTEL. The course will be notified one month prior to commencement of semester.

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SEMESTER IV

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration of ESE (hrs.)
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	25CE401T	Data Communication	3	-	-	3	20	20	60	100	45	3
2	PCC	25CE402T	Database Management System	3	-	-	3	20	20	60	100	45	3
3	PCC	25CE402P	Database Management System Lab	-	-	2	1	-	25	25	50	25	-
4	PCC	25CE403T	Object Oriented Programming	3	-	-	3	20	20	60	100	45	3
5	PCC	25CE403P	Object Oriented Programming Lab	-	-	2	1	-	25	25	50	25	-
6	VEC	25ES401T	Environmental Science	2	-	-	2	10	10	30	50	23	1.5
7	HSSM	25ES402T	Fundamentals of Economics and Management	2	-	-	2	10	10	30	50	23	1.5
8	SEC	25CE441P	Career Development - II	-	-	2	1	-	50	-	50	25	-
9	CEP	25CE405P	Mini Project II*	-	-	2	1	-	50	-	50	25	-
10	MDM	25CE431M	MDM-II (Refer MDM Basket)	3	-	-	3	20	20	60	100	45	3
Total				16	0	08	20	100	250	350	700		

* Field Project or Community engagement project in the major discipline

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SEMESTER V

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration of ESE (hrs.)
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1.	PCC	25CE501T	Theory of Computation	3	-	-	3	20	20	60	100	45	3
2.	PCC	25CE502T	Operating System	3	-	-	3	20	20	60	100	45	3
3.	PCC	25CE502P	Operating System Lab	-	-	2	1	-	25	25	50	25	-
4.	PEC	25CE503T	Professional Elective – I (Refer PE basket)	2	-	-	2	10	10	30	50	23	1.5
5.	PEC	25CE504T	Professional Elective – II (Refer PE basket)	2	-	-	2	10	10	30	50	23	1.5
6.	VSC	25CE505P	Technical Skill Development - I	-	-	4	2	-	50	-	50	25	-
7.	AEC	25CE541P	English for Engineers	-	-	4	2	-	50	-	50	25	-
8.	MDM	25CE531M	MDM-III (Refer MDM Basket)	3	-	-	3	20	20	60	100	45	3
9.	OE	25CE561O	Open Elective – I (Refer OE basket)	2	-	-	2	10	10	30	50	23	1.5
Total				15	0	10	20	90	215	295	600	276	-

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SEMESTER VI

Sr.No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration of ESE (hrs.)
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1.	PCC	25CE601T	Design and Analysis of Algorithms	3	-	-	3	20	20	60	100	45	3
2.	PCC	25CE601P	Design and Analysis of Algorithms Lab	-	-	2	1	-	25	25	50	25	-
3.	PEC	25CE602T	Professional Elective –III (Refer PEC basket)	3	-	-	3	20	20	60	100	45	3
4.	PEC	25CE603T	Professional Elective –IV (Refer PEC basket)	3	-	-	3	20	20	60	100	45	3
5.	VSC	25CE604P	Technical Skill Development - II	-	-	4	2	-	50	-	50	25	-
6.	PROJ	25CE605P	Project - I	-	-	4	2	-	50	50	100	50	-
7.	MDM	25CE631M	MDM-IV (Refer MDM Basket)	3	-	-	3	20	20	60	100	45	3
8.	OE	25CE661O	Open Elective -II (Refer OE basket)	3	-	-	3	20	20	60	100	45	3
Total				15	0	10	20	100	225	375	700		

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SEMESTER VII

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration of ESE (hrs.)
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1.	PCC	25CE701T	Compiler Construction	3	-	-	3	20	20	60	100	45	3
2.	PCC	25CE702T	Cryptography and Network Security	2	-	-	2	10	10	30	50	23	3
3.	PCC	25CE702P	Cryptography and Network Security Lab	-	-	2	1	-	25	25	50	25	-
4.	PEC	25CE703T	Professional Elective-V (Refer PEC basket)	3	-	-	3	20	20	60	100	45	3
5.	PEC	25CE704T	Professional Elective-VI (Refer PEC basket)	3	-	-	3	20	20	60	100	45	3
6.	PROJ	25CE705P	Project - II	-	-	4	2	-	50	50	100	50	-
7.	MDM	25CE731M	MDM-V (Refer MDM Basket)	3	-	-	3	20	20	60	100	45	3
8.	OE	25CE761O	Open Elective- III (Refer OE Basket)	3	-	-	3	20	20	60	100	45	3
Total				17	0	06	20	110	185	405	700	322	-

Note: Anyone PCC/PEC to be conducted online through NPTEL. The course will be notified one month prior to commencement of semester.

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SEMESTER VIII

Option A

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration of ESE (hrs.)
				L	T	P		Mid Sem Examination	Continual Assessment	End Sem Examination	Total		
1.	RM	25ES801T	Research Methodology [#]	2	-	-	2	10	10	30	50	23	1.5
2.	RM	25ES801P	Research Methodology Lab	-	-	4	2	-	25	25	50	25	-
3.	PEC	25CE802T	Professional Elective-VII [#]	3	-	-	3	20	20	60	100	45	3
4.	PEC	25CE802P	Professional Elective-VII [#] Lab	-	-	2	1	-	25	25	50	25	-
5.	OJT	25CE803P(i)	Industry/Research Internship*	-	-	24	12	-	300	100	400	200	-
Total				5	0	30	20	30	380	240	650		

Option B

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration of ESE (hrs.)
				L	T	P		Mid Sem Examination	Continual Assessment	End Sem Examination	Total		
1.	RM	25ES801T	Research Methodology [#]	2	-	-	2	10	10	30	50	22	1.5
2.	RM	25ES801P	Research Methodology Lab	-	-	4	2	-	25	25	50	25	-
3.	PEC	25CE802T	Professional Elective-VII [#]	3	-	-	3	20	20	60	100	45	3
4.	PEC	25CE802P	Professional Elective-VII [#] Lab	-	-	2	1	-	25	25	50	25	-
5.	ELC	25CE804P(i)	Institutional Internship [§] & Project III	-	-	24	12	-	300	100	400	200	-
Total				5	0	30	20	30	380	240	650		1.5

Option B is available to students only after recommendation of the concerned Head of the department. The project and internship should contribute towards career development plan of the students.

[#] Courses to be mapped with NPTEL/SWAYAM/MOOC offered course in that semester.

* One semester internship in any industry is to be carried out.

[§] Two NPTEL courses of total six credit (as per choice of student) or Institutional Internship by IEDC, SVP CET.

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COMPUTER SCIENCE AND ENGINEERING

Basket for Multi-Disciplinary Minor Courses (MDM)

A. Computer Science and Engineering

Semester	Course Category	Course Code	Name of Course
III	MDM-I	25CE331M	Essentials of computing Systems
IV	MDM-II	25CE531M	Indian Cyber Law
V	MDM-III	25CE531M	Introduction to Business Management.
VI	MDM-IV	25CE631M	Financial Accounting and Analysis
VII	MDM-V	25CE731M	Economics and Innovation

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Basket for Program Elective Courses (PEC)

B. Computer Science and Engineering

Semester	Course Category	Course Code	Name of Course
V	PEC-I	25CE503T (i)	Artificial Intelligence
V	PEC-I	25CE503T (ii)	Unstructured Databases
V	PEC-II	25CE504T (i)	Software Engineering
V	PEC-II	25CE504T (ii)	Computer Graphics
VI	PEC-III	25CE602T(i)	Machine Learning
VI	PEC-III	24CE602T(ii)	Data Warehousing and Mining
VI	PEC-IV	25CE603T(i)	Software Testing
VI	PEC-IV	24CE603T(ii)	Digital Image Processing
VII	PEC-V	25CE703T(i)	Deep Learning
VII	PEC-V	25CE703T(ii)	Business Intelligence
VII	PEC-VI	25CE704T(i)	Software Design and Architecture
VII	PEC-VI	25CE704T(ii)	Computer Vision
VIII	PEC-VI	25CE802T(i)	Natural Language Processing
VIII	PEC-VI	25CE802T(ii)	Big Data Computing
VIII	PEC-VI	25CE802T(iii)	Cloud Computing
VIII	PEC-VI	25CE802T(iv)	Blockchain and it's Applications
VIII	PEC-VI	25CE802T(v)	Cyber Security and Privacy
VIII	PEC-VI	25CE802T(vi)	Ethical Hacking

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Basket for Open Elective Courses (OE)

C. Computer Science and Engineering

Semester	Course Category	Course Code	Name of Course
V	OE-I	25CE561O (i)	Advanced Programming in C
V	OE-I	25CE561O (ii)	Python Programming
V	OE-I	25CE561O (iii)	Statistical Analysis using R
VI	OE-II	25CE661O(i)	Object Oriented Programming in C++
VI	OE-II	25CE661O(ii)	Data Analytics using Python
VI	OE-II	25CE561O(iii)	Social Networks
VII	OE-III	25CE761O(i)	Cyber Security and Ethics
VII	OE-III	25CE761O(ii)	Machine Learning
VII	OE-III	25CE761O(iii)	Data Visualization

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COMPUTER SCIENCE AND ENGINEERING

EXIT OPTIONS

Award of UG Certificate in Major with 40 credits and an additional 8 credits (After First Year)

EXIT COURSES			
S.N.	Course name	Mode of conduction	Credits
1.	Joy of Computing Using Python	NPTEL/MOOC	3
2.	Programming in C++ OR Data Structures	NPTEL/MOOC	3
3.	Introduction to Web Development	NPTEL/MOOC	2

Award of UG Diploma in Major with 80credits and an additional 8 credits (After Second Year)

EXIT COURSES			
S.N.	Course name	Mode of conduction	Credits
1.	Programming in Java	NPTEL/MOOC	3
2.	Operating System Fundamentals	NPTEL/MOOC	3
3.	Data Analytics with Python	NPTEL/MOOC	2

Award of UG Degree in Major with 120credits and an additional 8 credits (After Third Year)

EXIT COURSES			
S.N.	Course name	Mode of conduction	Credits
1.	Introduction to Machine Learning	NPTEL/MOOC	3
2.	Big Data Computing	NPTEL/MOOC	3
3.	Data Science for Engineers	NPTEL/MOOC	2

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Scheme of Examination -Minors (Big Data and Cloud Computing)

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total	
1.	Minor	25CEM401T	Discrete Mathematics	-	-	-	3	-	-	-	-	NPTEL/MOOCs
2.	Minor	25CEM402T	Fundamentals of Object-Oriented Programming	-	-	-	3	-	-	-	-	NPTEL/MOOCs
3.	Minor	25CEM501T	Introduction to Database Systems	-	-	-	3	-	-	-	-	NPTEL/MOOCs
4.	Minor	25CEM601T	Cloud Computing	-	-	-	3	-	-	-	-	NPTEL/MOOCs
5.	Minor	25CEM701T	Big Data & Computing	-	-	-	3	-	-	-	-	NPTEL/MOOCs
6.	Minor	25CEM801T	Data Analytics with Python	-	-	-	3	-	-	-	-	NPTEL/MOOCs
Total				-	-	-	18	-	-	-	-	

1. Discrete Mathematics - IIITB - Course (https://onlinecourses.nptel.ac.in/noc25_cs127/preview)
2. Fundamentals of Object Oriented Programming - Course (https://onlinecourses.nptel.ac.in/noc25_cs34/preview)
3. Introduction to Database Systems - Course (https://onlinecourses.nptel.ac.in/noc23_cs29/preview)
4. Cloud computing - Course (https://onlinecourses.nptel.ac.in/noc21_cs14/preview)
5. Big Data Computing - Course (https://onlinecourses.nptel.ac.in/noc20_cs92/preview)
6. Data Analytics with Python - Course (https://onlinecourses.nptel.ac.in/noc21_cs45/preview)

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ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B. Tech. Scheme of Examination & Syllabus 2025-26

COMPUTER SCIENCE AND ENGINEERING

Scheme of Examination -Honors

(Natural Language Processing)

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total	
1.	Honor	25CEH401T	Probability and Statistic	-	-	-	3	-	-	-	-	NPTEL/MOOCs
2.	Honor	25CEH402T	Data Analytics with Python	-	-	-	3	-	-	-	-	NPTEL/MOOCs
3.	Honor	25CEH501T	Introduction to NLP	-	-	-	3	-	-	-	-	NPTEL/MOOCs
4.	Honor	25CEH601T	Large Language Model	-	-	-	3	-	-	-	-	NPTEL/MOOCs
5.	Honor	25CEH701T	Deep Learning for NLP	-	-	-	3	-	-	-	-	NPTEL/MOOCs
6.	Honor	25CEH801T	Generative AI for Everyday Life	-	-	-	3	-	-	-	-	NPTEL/MOOCs
Total				-	-	-	18	-	-	-	-	-

1. Probability and Statistics - Course (https://onlinecourses.nptel.ac.in/noc21_ma74/preview)
2. Data Analytics with Python - Course (https://onlinecourses.nptel.ac.in/noc21_cs45/preview)
3. Natural Language Processing - Course (https://onlinecourses.nptel.ac.in/noc21_cs102/preview)
4. Introduction to Large Language Models (LLMs) - Course (https://onlinecourses.nptel.ac.in/noc25_cs45/preview)
5. Deep Learning for Natural Language Processing - Course (https://onlinecourses.nptel.ac.in/noc25_cs22/preview)
6. Generative AI for Everyday Life - Course (https://onlinecourses.swayam2.ac.in/nou25_ma05/preview)

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July 2025

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Version

Applicable for
2025-26