



**S. B. JAIN INSTITUTE OF
TECHNOLOGY, MANAGEMENT
& RESEARCH, NAGPUR**

(An Autonomous Institute, Affiliated to RTMNU,
Nagpur)

**DEPARTMENT
OF COMPUTER APPLICATIONS**

**BOARD
OF
STUDIES**

**S. B. JAIN INSTITUTE OF TECHNOLOGY, MANAGEMENT
& RESEARCH, NAGPUR**



(An Autonomous Institute, Affiliated to RTMNU, Nagpur)

DEPARTMENT OF COMPUTER APPLICATIONS



Vision: Develop creative, competent and socially responsible computing professionals empowered with a strong foundation in computer applications, driven by innovation, ethics and real-world problem solving

**BACHELOR OF COMPUTER APPLICATIONS
HONOURS (SPECIALIZATION: ARTIFICIAL INTELLIGENCE)**

W.E.F. Batch admitted in Academic Year 2025-26 & Onwards
(NEP COMPLIANT)

**4th Year
Semester VII**

Scheme of Teaching & Examination of VII Semester Bachelor of Computer Applications (BCA)

Sr. No.	Course Code	Course Title	Hours per week			Credits	Maximum Marks			ESE
			L	T	P		Continuous Evaluation	End Sem Exam	Total	Duration (Hrs.)
1	PCCBC701T	Cloud Computing	3	0	0	3	40	60	100	3
2	PCCBC701P	Cloud Computing Lab	0	0	2	1	50	-	50	-
3	PCCBC702T	Design and Analysis of Algorithms	2	0	0	2	20	30	50	2
4	PCCBC702P	Design and Analysis of Algorithms Lab	0	0	2	1	50	-	50	-
5	PCCBC703T	Software Testing	2	0	0	2	20	30	50	2
6	PCCBC703P	Software Testing Lab	0	0	2	1	50	-	50	-
7	PCCBC706T	Social Network Analysis	2	0	0	2	20	30	50	2
8	PCCBC707T	Optimization of ML	2	0	0	2	20	30	50	2
9	PCCBC707P	Optimization of ML Lab	0	0	2	1	50	-	50	-
10	PEC-5	Program Elective-5	2	0	0	2	20	30	50	2
11	RMBC701T	Research Methodology	3	0	0	3	40	60	100	3
TOTAL			16	0	8	20	380	270	650	

PROGRAM ELECTIVE-5

Specialization: Artificial Intelligence

Sr. No.	Course Code	Course Name
1	PECBC703T	Explainable AI
2	PECBC704T	AI System Design and Development

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Revision	BoS Meeting	Date	W. E. F.
-	1 st	18-07-2025	2025-26

[Handwritten Signatures]

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HONOURS (SPECIALIZATION:ARTIFICIAL INTELLIGENCE)**

W.E.F. Batch admitted in Academic Year 2025-26 & Onwards

(NEP COMPLIANT)

4th Year

Semester VIII

Scheme of Teaching & Examination of VIII Semester Bachelor of Computer Applications (BCA)

Sr. No.	Course Code	Course Title	Hours per week			Credits	Maximum Marks			ESE Duration (Hrs.)
			L	T	P		Continuous Evaluation	End Sem Exam	Total	
1	PCCBC801T	Blockchain Technology	3	0	0	3	40	60	100	3
2	PCCBC801P	Blockchain Technology Lab	0	0	2	1	50	-	50	-
3	PCCBC802T	Cryptography	3	0	0	3	40	60	100	3
4	PCCBC802P	Cryptography Lab	0	0	2	1	50	-	50	-
5	PCCBC804T	IOT and its Application	3	0	0	3	40	60	100	3
6	PCCBC804P	IOT and its Applications Lab	0	0	2	1	50	-	50	-
7	PEC-6	Program Elective-6	3	1	0	4	40	60	100	3
8	ELCBC801-A	Internship	0	0	8	4	50	50	100	-
	OR									
	ELCBC801-B	On Job Training(OJT)								
	OR									
	ELCBC801-C	Apprenticeship								
TOTAL			12	1	14	20	360	290	650	

PROGRAM ELECTIVE-6

Specialization: Artificial Intelligence

Sr. No.	Course Code	Course Name
1	PECBC803T	Speech Recognition
2	PECBC804T	Augmented Reality & Virtual Reality

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Revision	BoS Meeting	Date	W. E. F.
-	1 st	18-07-2025	2025-26

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