



# ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

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

Scheme of Examination 2026-27

## BACHELOR OF COMPUTER APPLICATIONS

### CREDIT FRAMEWORK STRUCTURE (Honours)

Semester		I	II	III	IV	V	VI	VII	VIII	Total Credits
Basic Science Course	BSC/ESC	4	3	-	-	-	-	-	-	7
Program Core Course (PCC)	Program Courses	4	9	14	12	4	7	10	9	69
Program Elective Course (DSE)		-	-	-	4	6	3	3	3	19
Skill Enhancement Courses (SEC)	Skill Courses	6	5	2	4	4	4	1	3	29
Ability Enhancement Course (AEC)	Humanities Social Science and Management (HSSM)	2	1	2	-	-	2	2	-	9
Indian Knowledge System (IKS)		2	-	-	-	-	-	-	-	2
Value Added Course (VAC)		2	2	2	-	-	-	-	-	6
Research Methodology	Experiential Learning Courses	-	-	-	-	-	-	-	-	0
Projects		-	-	-	-	2	4	4	5	15
Internships		-	-	-	-	4	-	-	-	4
Total Credits		20	20	20	20	20	20	20	20	160

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**BACHELOR OF COMPUTER APPLICATIONS**

**CREDIT FRAMEWORK STRUCTURE (Honours with Research)**

Semester		I	II	III	IV	V	VI	VII	VIII	Total Credits
Basic Science Course	BSC/ESC	4	3	-	-	-	-	-	-	7
Program Core Course (PCC)	Program Courses	4	9	14	12	4	7	6	-	56
Program Elective Course (DSE)		-	-	-	4	6	3	-	-	13
Skill Enhancement Courses (SEC)	Skill Courses	6	5	2	4	4	4	-	-	25
Ability Enhancement Course (AEC)	Humanities Social Science and Management (HSSM)	2	1	2	-	-	2	2	-	9
Indian Knowledge System (IKS)		2	-	-	-	-	-	-	-	2
Value Added Course (VAC)		2	2	2	-	-	-	2	-	8
Research Methodology	Experiential Learning Courses	-	-	-	-	-	-	4	-	4
Projects		-	-	-	-	2	4	6	20	32
Internships		-	-	-	-	4	-	-	-	4
<b>Total Credits</b>		<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>160</b>

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## BACHELOR OF COMPUTER APPLICATIONS

Semester I												
Sr. No.	Course Category	Course Code	Course Title	L	T	P	Credits	Mid-Sem Exam	Continual Assessment	End-Sem Exam	Total Marks	No. of Hours for ESE
<b>1 WEEK COMPULSORY INDUCTION PROGRAM</b>												
1	PCC	26BCA101T	Foundations of Computing & Digital Logic	3	0	0	3	20	20	60	100	3
2	PCC	26BCA101P	Foundations of Computing & Digital Logic Lab	0	0	2	1	-	25	25	50	-
3	BSC	26BCA102T	Mathematical Foundations for Computer Science	3	0	0	3	20	20	60	100	3
4	BSC	26BCA102P	Mathematical Foundations for Computer Science Lab	0	0	2	1	-	25	25	50	-
5	SEC	26BCA103T	Programming Fundamentals with C	3	0	0	3	20	20	60	100	3
6	SEC	26BCA103P	Programming Fundamentals with C Lab	0	0	2	1	-	25	25	50	-
7	IKS	26BCA104T	Indian Knowledge System	2	0	0	2	10	10	30	50	1.5
8	SEC	26BCA105P	Digital Productivity Tools (IT Skills Lab)	0	0	4	2	-	50	-	50	-
9	VAC	26BCA106T	Environmental Sustainability	2	0	0	2	10	10	30	50	1.5
10	AEC	26BCA107T	Professional English & Communication Skills	2	0	0	2	10	10	30	50	1.5
11	AEC	26BCA108T	Indian or Foreign Language other than Mother Tongue*	2	0	0	0	-	-	-	-	-
<b>Total</b>				<b>17</b>	<b>0</b>	<b>10</b>	<b>20</b>	<b>90</b>	<b>215</b>	<b>345</b>	<b>650</b>	

\*Indian Languages: Sanskrit/Hindi/All Regional languages, Foreign Languages: (not limited to) Spanish/German/French/Korean/Mandarin etc.

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## BACHELOR OF COMPUTER APPLICATIONS

### Semester II

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Credits	Mid-Sem Exam	Continual Assessment	End-Sem Exam	Total Marks	No. of Hours for ESE
1	PCC	26BCA201T	Data Structures	3	0	0	3	20	20	60	100	3
2	PCC	26BCA201P	Data Structures Lab	0	0	2	1	-	25	25	50	-
3	BSC	26BCA202T	Probability and Statistics	3	0	0	3	20	20	60	100	3
4	PCC	26BCA203T	Object-Oriented Programming	4	0	0	4	20	20	60	100	3
5	PCC	26BCA203P	Object-Oriented Programming Lab	0	0	2	1	-	25	25	50	-
6	SEC	26BCA204T	Web Development	2	0	0	2	10	10	30	50	1.5
7	SEC	26BCA204P	Web Development Lab	0	0	4	2	-	25	25	50	-
8	VAC	26BCA205T	Constitution of India & Cyber Citizenship	2	0	0	2	10	10	30	50	1.5
9	SEC	26BCA206P	Python Programming Lab	0	0	2	1	-	50	-	50	-
10	AEC	26BCA207P	Communication Skills Lab	0	0	2	1	-	50	-	50	-
<b>Total</b>				<b>14</b>	<b>0</b>	<b>12</b>	<b>20</b>	<b>80</b>	<b>255</b>	<b>315</b>	<b>650</b>	

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Semester III												
Sr. No.	Course Category	Course Code	Course Title	L	T	P	Credits	Mid-Sem Exam	Continual Assessment	End-Sem Exam	Total Marks	No. of Hours for ESE
1	PCC	26BCA301T	Database Management Systems	4	0	0	4	20	20	60	100	3
2	PCC	26BCA301P	Database Management Systems Lab	0	0	2	1	-	25	25	50	-
3	PCC	26BCA302T	Introduction to Artificial Intelligence	2	0	0	2	10	10	30	50	1.5
4	PCC	26BCA302P	Introduction to Artificial Intelligence Lab	0	0	2	1	-	25	25	50	-
5	PCC	26BCA303T	Software Engineering	3	0	0	3	20	20	60	100	3
6	PCC	26BCA304T	Introduction to Computer Architecture	3	0	0	3	20	20	60	100	3
7	SEC	26BCA305P	Full Stack Development – Frontend (ReactJS)	0	0	4	2	-	25	25	50	-
8	AEC	26BCA306T	Principles of Management	2	0	0	2	10	10	30	50	1.5
9	VAC	26BCA307T	Cybersecurity Awareness & Digital Safety	2	0	0	2	10	10	30	50	1.5
<b>Total</b>				<b>16</b>	<b>0</b>	<b>8</b>	<b>20</b>	<b>90</b>	<b>165</b>	<b>345</b>	<b>600</b>	

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Semester IV												
Sr. No.	Course Category	Course Code	Course Title	L	T	P	Credits	Mid-Sem Exam	Continual Assessment	End-Sem Exam	Total Marks	No. of Hours for ESE
1	PCC	26BCA401T	Operating Systems	4	0	0	4	20	20	60	100	3
2	PCC	26BCA401P	Operating Systems Lab	0	0	2	1	-	25	25	50	-
3	PCC	26BCA402T	Computer Networks	3	0	0	3	20	20	60	100	3
4	PCC	26BCA402P	Computer Networks Lab	0	0	2	1	-	25	25	50	-
5	PCC	26BCA403T	Introduction to Cloud Computing	3	0	0	3	20	20	60	100	3
6	SEC	26BCA404P	Data Visualization (Power BI / Tableau)	0	0	4	2	-	25	25	50	-
7	SEC	26BCA405P	Full Stack Development – Backend (NodeJS/Django)	0	0	4	2	-	25	25	50	-
8	DSE	26BCA406T	Professional Elective – I	3	0	0	3	20	20	60	100	3
9	DSE	26BCA406P	Professional Elective – I Lab	0	0	2	1	-	25	25	50	-
<b>Total</b>				<b>13</b>	<b>0</b>	<b>14</b>	<b>20</b>	<b>80</b>	<b>205</b>	<b>365</b>	<b>650</b>	

Note:

At the end of the Fourth Semester every student shall undergo Internship / Capstone for Four Weeks in the industry/Research or Academic Institute. This component will be evaluated during the fifth semester.

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Semester V												
Sr. No.	Course Category	Course Code	Course Title	L	T	P	Credits	Mid-Sem Exam	Continual Assessment	End-Sem Exam	Total Marks	No. of Hours for ESE
1	PCC	26BCA501T	Design and Analysis of Algorithms	3	0	0	3	20	20	60	100	3
2	PCC	26BCA501P	Design and Analysis of Algorithms Lab	0	0	2	1	-	25	25	50	-
3	DSE	26BCA502T	Professional Elective – II	3	0	0	3	20	20	60	100	3
4	DSE	26BCA503T	Professional Elective – III	3	0	0	3	20	20	60	100	3
5	SEC	26BCA504T	Mobile App Development (Flutter/Android)	2	0	0	2	10	10	30	50	1.5
6	SEC	26BCA504P	Mobile App Development (Flutter/Android) Lab	0	0	4	2	-	25	25	50	-
7	PROJ	26BCA505P	Project-I	0	0	4	2	-	25	25	50	-
8	INTR	26BCA506P	Internship/capstone Project*	0	0	0	4	-	50	-	50	-
<b>Total</b>				<b>11</b>	<b>0</b>	<b>10</b>	<b>20</b>	<b>70</b>	<b>195</b>	<b>285</b>	<b>550</b>	

\*Evaluation shall be based on the Internship / Capstone completed for a minimum of four weeks in an Industry/ Research Organization, or Academic Institution during the summer vacation.

Rubrics for evaluation may include, but are not limited to the following:

**Internship:** Technical Skills, Learning Outcomes / Industry Exposure, Internship Report & Documentation, Presentation & Viva Voce etc.

**Capstone Project:** Problem Statement & System Design, Implementation & Functionality, Testing / Results, Demonstration & Viva Voce etc.

**Project-I:** Problem Definition & Literature Review, Project Design / Methodology, Project Planning & Feasibility, Phase-I Report, Presentation & Viva etc.

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### Semester VI

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Credits	Mid-Sem Exam	Continual Assessment	End-Sem Exam	Total Marks	No. of Hours for ESE
1	PCC	26BCA601T	Big Data Analytics	3	0	0	3	20	20	60	100	3
2	PCC	26BCA601P	Big Data Analytics Lab	0	0	2	1	-	25	25	50	-
3	PCC	26BCA602T	Introduction to Blockchain Technology	3	0	0	3	20	20	60	100	3
4	SEC	26BCA603T	UI/UX Design & Prototyping	2	0	0	2	10	10	30	50	1.5
5	SEC	26BCA603P	UI/UX Design & Prototyping Lab	0	0	4	2	-	25	25	50	-
6	DSE	26BCA604T	Professional Elective – IV	3	0	0	3	20	20	60	100	3
7	PROJ	26BCA605P	Project-II [Initiated in V Semester]*	0	0	8	4	-	100	100	200	-
8	AEC	26BCA606P	Professional Readiness & Portfolio Building	0	0	4	2	-	50	-	50	-
<b>Total</b>				<b>11</b>	<b>0</b>	<b>18</b>	<b>20</b>	<b>70</b>	<b>270</b>	<b>360</b>	<b>700</b>	

\*Rubrics for evaluation of Project-II may include, but are not limited to the following: Implementation & System Development, Testing, Results & Performance Evaluation, Project Report / Documentation, Demonstration, Presentation & Viva Voce etc.

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## BACHELOR OF COMPUTER APPLICATIONS

**The Honors and Honors with Research pathways shall be offered subject to approval from competent authority and minimum number of eligible students opting for the same in a given academic year.**

### Semester VII (Honors)

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Credits	Mid-Sem Exam	Continual Assessment	End-Sem Exam	Total Marks	No. of Hours for ESE
1	PCC	26BCA701T	Introduction to IoT	4	0	0	4	20	20	60	100	3
2	PCC	26BCA701P	Introduction to IoT Lab	0	0	2	1	-	25	25	50	-
3	PCC	26BCA702T	NoSQL Databases	4	0	0	4	20	20	60	100	3
4	PCC	26BCA702P	NoSQL Databases Lab	0	0	2	1	-	25	25	50	-
5	DSE	26BCA703T	Professional Elective – V	3	0	0	3	20	20	60	100	3
6	AEC	26BCA704T	Financial Management	2	0	0	2	10	10	30	50	1.5
7	PROJ	26BCA705P	Capstone Project-I*	0	0	8	4	-	100	100	200	-
8	SEC	26BCA706P	Technical Seminar	0	0	2	1	-	50	-	50	-
<b>Total</b>				<b>13</b>	<b>0</b>	<b>14</b>	<b>20</b>	<b>70</b>	<b>270</b>	<b>360</b>	<b>700</b>	

\*Rubrics for evaluation of Capstone Project-I may include but are not limited to the following: Problem Statement & Requirement Analysis, Literature Review / Study of Existing Systems, System Design & Methodology, Phase-I Report, Presentation & Viva Voce etc.

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### Semester VIII (Honors) [Option 1]

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Credits	Mid-Sem Exam	Continual Assessment	End-Sem Exam	Total Marks	No. of Hours for ESE
1	PCC	26BCA801T	Fog Computing and Edge Computing	4	0	0	4	20	20	60	100	3
2	PCC	26BCA802T	Digital Image Processing	4	0	0	4	20	20	60	100	3
3	PCC	26BCA802P	Digital Image Processing Lab	0	0	2	1	-	25	25	50	-
4	SEC	26BCA803T	Digital Commerce	3	0	0	3	20	20	60	100	3
5	DSE	26BCA804T	Professional Elective – VI	3	0	0	3	20	20	60	100	3
6	PROJ	26BCA805P	Capstone Project-II*	0	0	10	5	-	100	100	200	-
<b>Total</b>				<b>14</b>	<b>0</b>	<b>12</b>	<b>20</b>	<b>80</b>	<b>205</b>	<b>365</b>	<b>650</b>	

\*Rubrics for evaluation of Capstone Project-II may include but are not limited to the following: Implementation & System Development, Testing, Results & Performance Evaluation, Final Project Report & Documentation, Demonstration, and Presentation & Viva Voce etc.

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### Semester VIII (Honors) [Option 2]

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Credits	Mid-Sem Exam	Continual Assessment	End-Sem Exam	Total Marks	No. of Hours for ESE
1	INTR	26BCA806P	Full Semester Internship/ Research Internship	0	0	28	14	-	200	100	300	-
2	SEC	26BCA807T	NPTEL Course 1*	0	0	0	3	-	40 <sup>#</sup>	60 <sup>\$</sup>	100	-
3	SEC	26BCA808T	NPTEL Course 2*	0	0	0	3	-	40 <sup>#</sup>	60 <sup>\$</sup>	100	-
<b>Total</b>				<b>0</b>	<b>0</b>	<b>28</b>	<b>20</b>	<b>0</b>	<b>280</b>	<b>220</b>	<b>500</b>	

\*NPTEL courses as approved by the Head of the Department.

# Continual Assessment shall be calculated as average of assignment scores obtained from NPTEL.

\$ End Semester Exam shall be conducted by the institute.

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### Semester VII (Honors with Research)

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Credits	Mid-Sem Exam	Continual Assessment	End-Sem Exam	Total Marks	No. of Hours for ESE
1	RM	26BCA701T	Research Methodology	4	0	0	4	20	20	60	100	3
2	PCC	26BCA702T	Advanced Data Analysis Tools	4	0	0	4	20	20	60	100	3
3	PCC	26BCA702P	Advanced Data Analysis Tools Lab	0	0	4	2	-	25	25	50	-
4	VAC	26BCA703T	Intellectual Property Rights	2	0	0	2	10	10	30	50	1.5
5	AEC	26BCA704T	Ethics in Research	2	0	0	2	10	10	30	50	1.5
6	PROJ	26BCA705P	Dissertation-I*	0	0	12	6	-	100	100	200	-
<b>Total</b>				<b>12</b>	<b>0</b>	<b>16</b>	<b>20</b>	<b>60</b>	<b>185</b>	<b>305</b>	<b>550</b>	

\* The Dissertation work will start from the beginning of fourth year of BCA (Honors with Research) Program.

**Dissertation-I Rubrics:** Research Problem Identification & Literature Review, Research Methodology / Study Design, Progress of Work / Preliminary Analysis, Dissertation-I Report, Seminar Presentation & Viva Voce etc.

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Semester VIII (Honors with Research)												
Sr. No.	Course Category	Course Code	Course Title	L	T	P	Credits	Mid-Sem Exam	Continual Assessment	End-Sem Exam	Total Marks	No. of Hours for ESE
1	PROJ	26BCA801P	Dissertation-II/ Research Internship*	0	0	40	20	-	200	200	400	-
<b>Total</b>				<b>0</b>	<b>0</b>	<b>40</b>	<b>20</b>	<b>-</b>	<b>200</b>	<b>200</b>	<b>400</b>	

\* Students of the Fourth Year shall be assessed based on their Dissertation Work or Research Internship Report and Viva-Voce. The assessment must include the publication of a paper based on the dissertation in a reputed conference or journal.

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### List of Professional Electives

Track 1: Machine Learning & Predictive Analytics				Track 2: Cybersecurity & Digital Forensics			
Sr. No.	Semester	Course Code	Professional Elective	Sr. No.	Semester	Course Code	Professional Elective
1	IV	26BCA406T(i)	Introduction to Machine Learning	1	IV	26BCA406T(iii)	Fundamentals of Cybersecurity
2	IV	26BCA406T(ii)	Introduction to Data Engineering	2	IV	26BCA406T(iv)	Cryptography & Secure Systems
3	V	26BCA502T(i)	Artificial Neural Networks	3	V	26BCA502T(iii)	Ethical Hacking & PenTesting
4	V	26BCA502T(ii)	Business Analytics Fundamentals	4	V	26BCA502T(iv)	Network Defense & Firewall Administration
5	V	26BCA503T(i)	Deep Learning	5	V	26BCA503T(iii)	Cyber Forensics & Incident Response
6	V	26BCA503T(ii)	Statistical Data Analysis	6	V	26BCA503T(iv)	Secure Coding Practices
7	VI	26BCA604T(i)	Computer Vision	7	VI	26BCA604T(iii)	Malware Analysis
8	VI	26BCA604T(ii)	Database Administration & Optimization	8	VI	26BCA604T(iv)	SIEM & SOC Operations
9	VII	26BCA703T(i)	Reinforcement Learning	9	VII	26BCA703T(iii)	Advanced Pen Testing (VAPT)
10	VII	26BCA703T(ii)	Data Pipelines (Airflow/NiFi)	10	VII	26BCA703T(iv)	Cyber Risk & Compliance Management
11	VIII	26BCA804T(i)	Graph Neural Networks (GNNs)	11	VIII	26BCA804T(iii)	Advanced Threat Hunting & Cyber Intelligence
12	VIII	26BCA804T(ii)	Applied Forecasting & Decision Analytics	12	VIII	26BCA804T(iv)	Advanced Crypto & Blockchain Security

		July 2026	NEP 1.0	Applicable for 2026-27
Chairman - BoS	Dean – Academics	Date of Release	Version	



# ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

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

Scheme of Examination 2026-27

## BACHELOR OF COMPUTER APPLICATIONS

### EXIT OPTIONS

Year of Completion	Minimum Credits Required	Exit Award	Description
After 1 <sup>st</sup> Year	40 Credits + Additional 04 Credits*	Certificate in Computer Applications	Awarded after successful completion of first-year courses. Eligible to re-enter in 2 <sup>nd</sup> year.
After 2 <sup>nd</sup> Year	80 Credits + Additional 04 Credits <sup>#</sup>	Diploma in Computer Applications	Awarded after completing two years with required credits. Eligible to re-enter in 3 <sup>rd</sup> year.
After 3 <sup>rd</sup> Year	120 Credits	Bachelor of Computer Applications (BCA)	Standard 3-year undergraduate degree.
After 4 <sup>th</sup> Year	160 Credits	BCA (Honors) or BCA (Honors with Research)	Honors: Additional coursework

\***Internship/Apprenticeship/Social Responsibility:** A professional internship or apprenticeship program in a relevant field, with a minimum duration of 08 weeks, which will take place after the second semester or Active engagement with an NGO or community organization for a minimum duration of 08 weeks, focusing on real-world problem-solving, social responsibility, and community service.

<sup>#</sup>**Capstone Project:** Completion of a capstone project integrating the skills and knowledge gained during the first two years of the program, which can be an independent or group project.

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