



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

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

## B. Tech. Scheme of Examination & Syllabus 2024-25

### INFORMATION TECHNOLOGY

#### ANNEXURE – I

#### Credit Structure for Undergraduate programs

Sr. No.	Category Code	Category	Credits
1	HSSM	Ability Enhancement Course (AEC), Indian Knowledge System (IKS), Value Education Course (VEC), Entrepreneurship/Economics/Management courses	10
2	BSC	Basic Science courses	14
3	ESC	Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc.	14*
4	PCC	Professional core courses	72*
5	PEC	Professional Elective courses relevant to chosen specialization/branch	
6	OE	Open subjects – Electives from other technical and /or emerging subjects	08
7	ELC	Project work, seminar and internship in industry or elsewhere, Industry Training and Skill Development, Capstone Course	20*
8	VSEC	Vocations Skill Courses (VSC) , Skill Enhancement Courses(SEC)	10
9	CC	Co-curricular Courses (CC) such as Health and Wellness, Yoga education sports, and fitness, Cultural Activities, NSS/NCC and Fine/ Applied/ Visual/ Performing Arts	04
10	MDM	Compulsory Multidisciplinary Minor	14
		<b>TOTAL</b>	<b>166*</b>

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#### GROUP 1(IT): SEMESTER I

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				No. of hours for ESE
				L	T	P		Mid Sem Exam	Continual Assessment	End Sem Examination	Total	
1	BSC	24IT101T	Engineering Chemistry and Environmental Science	2	-	-	2	10	10	30	50	1.5
2	BSC	24IT101P	Engineering Chemistry and Environmental Science Lab	-	-	2	1	-	25	25	50	-
3	BSC	24IT102T	Linear Algebra and Calculus	3	1	-	4	20	20	60	100	3
4	PCC	24IT103T	Fundamentals of IT	3	1	-	4	20	20	60	100	3
5	ESC	24IT104T	Logic building with C	3	-	-	3	20	20	60	100	3
6	ESC	24IT104P	Logic building with C Lab	-	-	2	1	-	25	25	50	-
7	PCC	24IT105P	Software Lab - I	-	-	2	1	-	25	25	50	-
8	AEC	24IT106P	Business Communication Skills I Lab	-	-	2	1	-	25	25	50	-
9	IKS	24IT107T	Indian Knowledge Systems	2	-	-	2	10	10	30	50	1.5
10	SEC	24IT141P	Career Development I	-	-	2	1	-	50	-	50	-
11	CC	24IT108T	Co-curricular Courses - I	2	-	-	2	-	50	-	50	-
<b>Total</b>				<b>15</b>	<b>2</b>	<b>10</b>	<b>22</b>	<b>80</b>	<b>280</b>	<b>340</b>	<b>700</b>	<b>12</b>

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### INFORMATION TECHNOLOGY

#### GROUP 1(IT): SEMESTER II

SrNo	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				No. of hours for ESE
				L	T	P		Mid Sem Exam	Continual Assessment	End Sem Examination	Total	
1	BSC	24IT201T	Engineering Physics and Materials Science	2	-	-	2	10	10	30	50	1.5
2	BSC	24IT201P	Engineering Physics and Materials Science Lab	-	-	2	1	-	25	25	50	-
3	BSC	24IT202T	Statistics and Probability	3	1	-	4	20	20	60	100	3
4	ESC	24IT203T	Basics of Python Programming	3	-	-	3	20	20	60	100	3
5	ESC	24IT203P	Basics of Python Programming Lab	-	-	2	1	-	25	25	50	-
6	ESC	24IT204T	Digital Logic Design	3	1	-	4	20	20	60	100	3
7	PCC	24IT205P	Software Lab - II	-	-	2	1	-	25	25	50	-
8	AEC	24IT206P	Business Communication Skills II Lab	-	-	2	1	-	25	25	50	-
9	SEC	24IT241P	Career Development II	-	-	2	1	-	50	-	50	-
10	ESC	24IT207T	Design Thinking	2	-	-	2	10	10	30	50	1.5
11	CC	24IT208T	Co-curricular Courses - II	2	-	-	2	-	50	-	50	-
<b>Total</b>				<b>15</b>	<b>2</b>	<b>10</b>	<b>22</b>	<b>80</b>	<b>280</b>	<b>340</b>	<b>700</b>	<b>12</b>

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### INFORMATION TECHNOLOGY

#### SEMESTER III

Sr.No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				No. of hours for ESE
				L	T	P		Mid Sem Exam	Continual Assessment	End Sem Examination	Total	
1	PCC	24IT301T	Applied Mathematics-III	3	1	-	4	20	20	60	100	3
2	PCC	24IT302T	Data Structures	3	-	-	3	20	20	60	100	3
3	PCC	24IT302P	Data Structures Lab	-	-	2	1	-	25	25	50	-
4	PCC	24IT303T	Computer Network	2	-	-	2	20	20	60	100	3
5	PCC	24IT303P	Computer Network Lab	-	-	2	1	-	25	25	50	-
6	PCC	24IT304T	Computer Architecture and Organization	2	1	-	3	20	20	60	100	3
7	PCC	24IT305P	Software Lab - III	-	-	2	1	-	25	25	50	-
8	VEC	24ES301T	Value Education Course	3	-	-	3	20	20	60	100	3
9	MDM	24IT331M	MDM – I (Refer MDM Basket)	2	-	-	2	10	10	30	50	1.5
10	SEC	24IT341P	Career Development III	-	-	2	1	-	50	-	50	-
11	ELC	24IT306P	Micro Project I*	-	-	2	1	-	50	-	50	-
<b>Total</b>				<b>15</b>	<b>2</b>	<b>10</b>	<b>22</b>	<b>110</b>	<b>285</b>	<b>405</b>	<b>800</b>	<b>-</b>

\* Field Project or Community engagement project in the major discipline

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### INFORMATION TECHNOLOGY

#### SEMESTER IV

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				No. of hours for ESE
				L	T	P		Mid Sem Exam	Continual Assessment	End Sem Examination	Total	
1	PCC	24IT401T	Software Engineering and Project Management	3	-	-	3	20	20	60	100	3
2	PCC	24IT401P	Software Engineering and Project Management Lab	-	-	2	1	-	25	25	50	-
3	PCC	24IT402T	Object Oriented Programming	3	-	-	3	20	20	60	100	3
4	PCC	24IT402P	Object Oriented Programming Lab	-	-	2	1	-	25	25	50	-
5	PCC	24IT403T	Operating System	2	-	-	2	10	10	30	50	1.5
6	MDM	24IT431M	MDM – II (Refer MDM Basket)	3	-	-	3	20	20	60	100	3
7	VSC	24IT406T	Technical Skill Development - I	2	-	-	2	10	10	30	50	1.5
8	AEC	24ES401T	Economics & Management	3			3	20	20	60	100	3
9	SEC	24IT441P	Career Development - IV		-	2	1	-	25	25	50	-
10	ELC	24IT407P	Micro Project II*			2	1	-	50	-	50	-
<b>Total</b>				<b>16</b>	<b>-</b>	<b>8</b>	<b>20</b>	<b>100</b>	<b>225</b>	<b>375</b>	<b>700</b>	<b>-</b>

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#### SEMESTER V

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				No. of hours for ESE
				L	T	P		Mid Sem Exam	Continual Assessment	End Sem Examination	Total	
1	PCC	24IT501T	Data Base Management System	3	-	-	3	20	20	60	100	3
2	PCC	24IT501P	Data Base Management System Lab	-	-	2	1	-	25	25	50	-
3	PCC	24IT502T	Design and Analysis of Algorithms	3	-	-	3	20	20	60	100	3
4	PCC	24IT502P	Design and Analysis of Algorithms Lab	-	-	2	1	-	25	25	50	-
5	PCC	24IT503T	Theory of Computation	2	-	-	2	20	20	60	100	3
6	PCC	24IT504T	Gaming Architecture and Programming	3	-	-	3	20	20	60	100	3
7	PCC	24IT504P	Gaming Architecture and Programming Lab	-	-	2	1	-	25	25	50	-
8	MDM	24IT531M	MDM – III (Refer MDM Basket)	3	-	-	3	20	20	60	100	3
9	VSC	24IT506T	Technical Skill Development - II	2	-	-	2	-	50	-	50	1.5
10	SEC	24IT541P	Career Development - V	-	-	2	1	-	50	-	50	-
<b>Total</b>				<b>16</b>	<b>-</b>	<b>8</b>	<b>20</b>	<b>100</b>	<b>275</b>	<b>375</b>	<b>750</b>	<b>-</b>

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#### SEMESTER VI

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				No. of hours for ESE
				L	T	P		Mid Sem Exam	Continual Assessment	End Sem Examination	Total	
1	PCC	24IT601T	Java Programming	3	-	-	3	20	20	60	100	3
2	PCC	24IT601P	Java Programming Lab	-	-	2	1	-	25	25	50	-
3	PCC	24IT602T	Artificial Intelligence & Machine Learning	3	-	-	3	20	20	60	100	3
4	PCC	24IT602P	Artificial Intelligence & Machine Learning Lab	-	-	2	1	-	25	25	50	-
5	PCC	24IT603T	Professional Elective - I	2	-	-	2	10	10	30	50	1.5
6	PCC	24IT604T	Professional Elective - II	2	-	-	2	10	10	30	50	1.5
7	MDM	24IT631M	MDM – IV (Refer MDM Basket)	3	-	-	3	20	20	60	100	3
8	OE	24IT661O	Open Elective- I (Refer OE Basket)	2	-	-	2	10	10	30	50	1.5
9	ELC	24IT605P	Project - I	-	-	4	2	-	50	50	100	-
10	SEC	24IT641P	Career Development - VI	-	-	2	1	-	50	-	50	-
<b>Total</b>				<b>15</b>	<b>-</b>	<b>10</b>	<b>20</b>	<b>90</b>	<b>240</b>	<b>370</b>	<b>700</b>	<b>-</b>

Professional Elective - I	
24IT603T(i)	PE-I Cloud Computing
24IT603T(ii)	PE- I Mobile Application Development
24IT603T(iii)	PE-I Wireless Sensor Networks

Professional Elective - II	
24IT604T(i)	PE-II Block-Chain Technology
24IT604T(ii)	PE-II Advance Computer Network
24IT604T(iii)	PE-II Computer Graphics and Animation

Open Elective - I	
24IT661O (i)	OE-I Ethics in Information Technology
24IT661O (ii)	OE-I Introduction to Software Engineering and Project Management

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#### SEMESTER VII

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				No. of hours for ESE
				L	T	P		Mid Sem Exam	Continual Assessment	End Sem Examination	Total	
1	PCC	24IT701T	Information and Cyber Security	3	-	-	3	20	20	60	100	3
2	PCC	24IT701P	Information and Cyber Security Lab	-	-	2	1	-	25	25	50	-
3	PCC	24IT702P	Software Lab - IV	-	-	4	2	-	25	25	100	-
4	PCC	24IT703T	Professional Elective - III	3	-	-	3	20	20	60	100	3
5	PCC	24IT704T	Professional Elective - IV	3	-	-	3	20	20	60	100	3
6	OE	24IT761O	Open Elective- II (Refer OE Basket)	3	-	-	3	20	20	60	100	3
7	MDM	24IT731M	MDM – V (Refer MDM Basket)	3	-	-	3	20	20	60	100	3
8	ELC	24IT705P	Project - II	-	-	4	2	-	50	50	100	-
<b>Total</b>				<b>15</b>	<b>-</b>	<b>10</b>	<b>20</b>	<b>100</b>	<b>200</b>	<b>400</b>	<b>750</b>	<b>-</b>

Summer  
Winter

Professional Elective - III	
24IT703T(i)	PE-III Data Warehousing and Mining
24IT703T(ii)	PE-III Human Computer Interface
24IT703T(iii)	PE-III IoT DevOps

Open Elective - II	
24IT761O(i)	OE-I Computer Animation
24IT761O(ii)	OE-I Web Development

Internship (Evaluation of Four weeks Internship)

Professional Elective - IV	
24IT704T(i)	PE-IV Deep Learning
24IT704T(ii)	PE-IV Advance in Database Management System
24IT704T(iii)	PE-IV Pattern Recognition

Completion till 6th Semester)

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#### SEMESTER VIII

#### Option A

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks			No of Hours for ESE
				L	T	P		Continual Assessment	End Sem Examination	Total	
1	ELC	24ES801T	Research Methodology <sup>#</sup>	2			2	20	30	50	1.5
2	PEC	24IT802T	Professional Elective <sup>#</sup> -V	3			3	40	60	100	3
3	OE	24IT803T	Open Elective - III <sup>#</sup> (Refer OE Basket)	3			3	40	60	100	3
4	ELC	24IT804P(i)	Industry/Research Internship*	-	-	-	12	300	100	400	-
<b>Total</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>300</b>	<b>100</b>	<b>400</b>	

#### Professional Elective - V

24IT802T(i)	PE -V Digital Forensics
24IT802T(ii)	PE- V Natural Language Processing
24IT802T(iii)	PE- V Computer Vision

#### Open Elective - III

24IT803T(i)	Introduction to Database Management System
24IT803T(ii)	Basics of Cloud Computing

#### Option B

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks			No of Hours for ESE
				L	T	P		Continual Assessment	End Sem Examination	Total	
1	ELC	24ES801T	Research Methodology <sup>#</sup>	2			2	20	30	50	1.5
2	PEC	24xx802T	Professional Elective <sup>#</sup> -V	3			3	40	60	100	3

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3	OE	24xx803T	Open Elective - III# (Refer OE Basket)	3		3	40	60	100	3	
4	ELC	24xx804P(i)	Institutional Internship <sup>§</sup> & Project III	-	-	24	12	300	100	400	-
<b>Total</b>				<b>0</b>	<b>0</b>	<b>24</b>	<b>20</b>	<b>300</b>	<b>100</b>	<b>400</b>	

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

\* Minimum 90 days internship in any industry and project is to be carried out during internship.

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

### EXIT OPTIONS

Online course of 8 credits will be provided with evaluation from department at the exit of 2<sup>nd</sup>, 4<sup>th</sup> and 6<sup>th</sup> semester. (To be written as per BoS suggestions)

Award of UG Certificate in Major with 44 credits and an additional 8 credits (After First Year)

EXIT COURSES			
Sr. No.	Course name	Mode of conduction	Credits
1	Programming In Modern C++	Online-Swayam	4
2	Introduction to Computer Science	Online-EDX	4
3	Introduction to hardware & operating system	Online-Coursera-IBM	4
	Programming Data Structures And Algorithms Using Python	Online-NPTEL	
4	Financial Management for Managers	Online-NPTEL	4

\* The department will conduct the detailed evaluation for 8 credits based on online courses and Micro project

Award of UG Diploma in Major with 86 credits and an additional 8 credits (After Second Year)

EXIT COURSES			
Sr. No.	Course name	Mode of conduction	Credits

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1	Programming In Java	NPTEL	4
2	Introduction to Computer Science	Online-EDX	4
3	Fundamentals of digital marketing	Online-Learn digital	4
	Digital Marketing	Online-oxfordhomestudy	
4	Financial Management for Managers	Online-NPTEL	4

\* The department will conduct the detailed evaluation for 8 credits based on online courses and Micro project

Award of UG Degree in Major with 126 credits and an additional 8 credits (After Third Year)

EXIT COURSES			
Sr. No.	Course name	Mode of conduction	Credits
1	Introduction to Computer Science	Online-EDX	4
2	Cyber Security	Online-Swayam	4
	Data Mining	Online-Swayam	
3	Software Programmer-Java	Online-NASSCOM	4
4	Certificate in Digital Marketing	Online-oxfordhomestudy	4

\* The department will conduct the detailed evaluation for 8 credits based on online courses and Micro project

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## Multidisciplinary Minor , Open Elective and Professional Elective Basket

### MDM

Sr. No.	Semester	Course Name	Credit
1	3 <sup>rd</sup> Semester	MDM – I- Fundamentals of Cloud Computing	2
2	4 <sup>th</sup> Semester	MDM – II- Cloud Platforms and Services	3
3	5 <sup>th</sup> Semester	MDM – III - Cloud Applications and Development	3
4	6 <sup>th</sup> Semester	MDM – IV- Data Analytics	3
5	7 <sup>th</sup> Semester	MDM – V – Data Visualization and Techniques	3

### Open Elective - I

Sr. No.	Semester	Course Code	Course Name	Credit
1		24IT661O (i)	OE –I Ethics in Information Technology	

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2	6th Semester	24IT661O (ii)	OE –I Introduction to Software Engineering and Project Management	2
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**Open Elective - II**

Sr. No.	Semester	Course Code	Course Name	Credit
1	7th Semester	24IT761O(i)	OE –II Computer Animation	3
2		24IT761O(ii)	OE –II Web Development	

**Open Elective - III**

Sr. No.	Semester	Course Code	Course Name	Credit
1	8th Semester	24IT803T(i)	OE –III Introduction to Database Management System	3
2		24IT803T(ii)	OE –III Basics of Cloud Computing	

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#### Professional Elective - I

Sr. No.	Semester	Course Code	Course Name	Credit
1	6th Semester	24IT603T(i)	PE-I Cloud Computing	2
2		24IT603T(ii)	PE- I Mobile Application Development	
3		24IT603T(iii)	PE-I Wireless Sensor Networks	

#### Professional Elective - II

Sr. No.	Semester	Course Code	Course Name	Credit
1	6th Semester	24IT604T(i)	PE-II Block-Chain Technology	2
2		24IT604T(ii)	PE-II Advance Computer Network	
3		24IT604T(iii)	PE-II Computer Graphics and Animation	

#### Professional Elective - III

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Sr. No.	Semester	Course Code	Course Name	Credit
1	7th Semester	24IT703T(i)	PE-III Data Warehousing and Mining	3
2		24IT703T(ii)	PE-III Human Computer Interface	
3		24IT703T(iii)	PE-III IoT DevOps	

### Professional Elective - IV

Sr. No.	Semester	Course Code	Course Name	Credit
1	7th Semester	24IT704T(i)	PE-IV Deep Learning	3
2		24IT704T(ii)	PE-IV Advance in Database Management System	
3		24IT704T(iii)	PE-IV Pattern Recognition	

### Professional Elective - V

Sr. No.	Semester	Course Code	Course Name	Credit
1	8th Semester	24IT802T(i)	PE -V Digital Forensics	3
2		24IT802T(ii)	PE- V Natural Language Processing	
3		24IT802T(iii)	PE- V Computer Vision	

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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 2024-25**

**INFORMATION TECHNOLOGY**

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