



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

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

## B. Tech. Scheme of Examination & Syllabus 2026-27

### ARTIFICIAL INTELLIGENCE

#### 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	Experiential Learning Courses	-	-	-	-	-	-	-	4	04
Comm. Engg. Project (CEP)/ Field Project (FP)		-	-	-	2	-	-	-	-	02
Project		-	-	-	-	-	2	2	-	04
Internship/OJT		-	-	-	-	-	-	-	12	12
Co-curricular Courses (CC)	Liberal Learning Courses	2	2	-	-	-	-	-	-	04
<b>Total Credits (Major)</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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**ARTIFICIAL INTELLIGENCE**

**FIRST SEMESTER**

Sr. No.	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration No. of Hrs for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1.	BSC	26AI101T	Engineering Chemistry	2	-	-	2	10	10	30	50	23	1.5
2.	BSC	26AI101P	Engineering Chemistry Lab	-	-	2	1	-	25	25	50	25	-
3.	BSC	26AI102T	Linear Algebra and Calculus	3	-	-	3	20	20	60	100	45	3
4.	BSC	26AI102P	Linear Algebra and Calculus Lab	-	-	2	1	-	25	25	50	25	-
5.	ESC	26AI103T	Logic building and Problem Solving with C	2	-	-	2	10	10	30	50	23	1.5
6.	ESC	26AI103P	Logic building and Problem Solving with C Lab	-	-	2	1	-	25	25	50	25	-
7.	ESC	26AI104T	Digital Electronics	2	-	-	2	10	10	30	50	23	1.5
8.	ESC	26AI104P	Digital Electronics Lab	-	-	2	1	-	25	25	50	25	-
9.	PCC	26AI105P	AI Workshop - I	-	-	4	2	-	25	25	50	25	-
10.	AEC	26AI106P	Business Communication Skills - I Lab	-	-	2	1	-	25	25	50	25	-
11.	IKS	26AI107T	Indian Knowledge Systems <sup>#</sup>	2	-	-	2	10	10	30	50	23	1.5
12.	CC	26AI108T	Co-Curricular Courses – I	-	-	4	2	-	50	-	50	23	-
<b>Total</b>				<b>11</b>	<b>0</b>	<b>18</b>	<b>20</b>	<b>60</b>	<b>260</b>	<b>330</b>	<b>650</b>		

# Course to be conducted online through NPTEL.

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### ARTIFICIAL INTELLIGENCE

#### SECOND SEMESTER

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration No. of Hrs for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	BSC	26AI201T	Engineering Physics and Materials Science	2	-	-	2	10	10	30	50	23	1.5
2	BSC	26AI201P	Engineering Physics and Materials Science Lab	-	-	2	1	-	25	25	50	25	-
3	BSC	26AI202T	Statistics and Probability	3	-	-	3	20	20	60	100	45	3
4.	BSC	26AI202P	Statistics and Probability Lab	-	-	2	1	-	25	25	50	25	-
5.	ESC	26AI203T	Python Programming	3	-	-	3	20	20	60	100	45	3
6.	ESC	26AI203P	Python Programming Lab	-	-	2	1	-	25	25	50	25	-
7.	ESC	26AI204T	Computer Organization and Architecture	2	-	-	2	10	10	30	50	23	1.5
8.	PCC	26AI205P	AI workshop – II	-	-	4	2	-	25	25	50	25	-
9.	AEC	26AI206P	Business Communication Skills – II Lab	-	-	2	1	-	25	25	50	25	-
10.	SEC	26AI207T	Design Thinking <sup>#</sup>	2	-	-	2	10	10	30	50	23	1.5
11.	CC	26AI208T	Co-Curricular Courses – II	-	-	4	2	-	50	-	50	23	-
<b>Total</b>				<b>12</b>	<b>0</b>	<b>16</b>	<b>20</b>	<b>70</b>	<b>245</b>	<b>335</b>	<b>650</b>	<b>-</b>	<b>-</b>

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**ARTIFICIAL INTELLIGENCE**

**THIRD SEMESTER**

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration No. of Hrs for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	26AI301T	Discrete Mathematics	3	-	-	3	20	20	60	100	45	3
2	PCC	26AI302T	Data Structures	3	-	-	3	20	20	60	100	45	3
3	PCC	26AI302P	Data Structures Lab	-	-	2	1	-	25	25	50	25	-
4	PCC	26AI303T	Database Management Systems	3	-	-	3	20	20	60	100	45	3
5	PCC	26AI303P	Database Management Systems Lab	-	-	2	1	-	25	25	50	25	-
6	PCC	26AI304P	AI workshop – III	-	-	2	1	-	25	25	50	25	-
7	PCC	26AI305P	Object Oriented Programming Lab	-	-	2	1	-	25	25	50	25	-
8	HS	26AI306T	Constitution of India	2	-	-	2	10	10	30	50	23	1.5
9	HS	26AI307T	Fundamentals of Entrepreneurship	2	-	-	2	10	10	30	50	23	1.5
10	SEC	26AI341P	Career Development I	-	-	2	1	-	50	-	50	25	-
11	MDM	26AI331M	MDM - I (Refer MDM basket)	2	-	-	2	10	10	30	50	23	1.5
<b>Total</b>				<b>15</b>	<b>0</b>	<b>10</b>	<b>20</b>	<b>90</b>	<b>240</b>	<b>370</b>	<b>700</b>	<b>-</b>	<b>-</b>

<b>Multidisciplinary Minor - I</b>	
<b>26AI331M</b>	Responsible and Safe AI Systems

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**ARTIFICIAL INTELLIGENCE**

**FOURTH SEMESTER**

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration No. of Hrs for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	26AI401T	Theory of Computation	3	-	-	3	20	20	60	100	45	3
2	PCC	26AI402T	Design and Analysis of Algorithms	3	-	-	3	20	20	60	100	45	3
3	PCC	26AI402P	Design and Analysis of Algorithms Lab	-	-	2	1	-	25	25	50	25	-
4	PCC	26AI403P	Java Programming Lab	-	-	2	1	-	25	25	50	25	-
5	PCC	26AI404P	AI Workshop – IV	-	-	4	2	-	25	25	50	25	-
6	HS	26AI405T	Environmental Science	2	-	-	2	10	10	30	50	23	1.5
7	HS	26AI406T	Fundamentals of Economics and Management	2	-	-	2	10	10	30	50	23	1.5
8	SEC	26AI441P	Career Development – II	-	-	2	1	-	50	-	50	25	-
9	CEP	26AI407P	Mini Project*	-	-	4	2	-	50	-	50	25	-
10	MDM	26AI431M	MDM - II (Refer MDM basket)	3	-	-	3	20	20	60	100	45	3
<b>Total</b>				<b>13</b>	<b>0</b>	<b>14</b>	<b>20</b>	<b>80</b>	<b>255</b>	<b>315</b>	<b>650</b>	<b>-</b>	<b>-</b>

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

Multidisciplinary Minor - II	
26AI431M	Fundamentals of Artificial Intelligence

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### ARTIFICIAL INTELLIGENCE

#### FIFTH SEMESTER

Sr No	Course Category	Course Code	Course Title	Hours per week			Credits	Maximum Marks				Minimum Passing Marks	Duration No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	26AI501T	Artificial Intelligence	3	-	-	3	20	20	60	100	45	3
2	PCC	26AI501P	Artificial Intelligence Lab	-	-	2	1	-	25	25	50	25	-
3	PCC	26AI502T	Operating Systems	3	-	-	3	20	20	60	100	45	3
4	PEC	26AI503T	Program Elective - I	3	-	-	3	20	20	60	100	45	3
5	PEC	26AI503P	Program Elective - I Lab	-	-	2	1	-	25	25	50	25	-
6	VSC	26AI504P	Technical Skill Development - I	-	-	4	2	-	50	-	50	25	-
7	AEC	26AI541P	English for Engineers	-	-	4	2	-	50	-	50	25	-
8	MDM	26AI531M	MDM – III (Refer MDM basket)	3	-	-	3	20	20	60	100	45	3
9	OE	26AI561O	Open Elective – I (Refer OE basket)	2	-	-	2	10	10	30	50	23	1.5
<b>Total</b>				<b>14</b>	<b>0</b>	<b>12</b>	<b>20</b>	<b>90</b>	<b>240</b>	<b>320</b>	<b>650</b>	<b>-</b>	<b>-</b>

Multidisciplinary Minor – III	
26AI531M	Introduction to Machine Learning

Program Elective - I	
26AI503T(i)	Software Engineering and Project Management
26AI503T(ii)	Essential Scrum: An Agile Process

Program Elective – I Lab	
26AI503T(i)	Software Engineering and Project Management Lab
26AI503T(ii)	Essential Scrum: An Agile Process Lab

Open Elective - I	
26AI561O(i)	Introduction to Artificial Intelligence

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### ARTIFICIAL INTELLIGENCE

#### SIXTH SEMESTER

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	26AI601T	Machine Learning	3	-	-	3	20	20	60	100	45	3
2	PCC	26AI601P	Machine Learning Lab	-	-	2	1	-	25	25	50	25	-
3	PEC	26AI602T	Program Elective - II	2	-	-	2	10	10	30	50	23	1.5
4	PEC	26AI602P	Program Elective - II Lab	-	-	2	1	-	25	25	50	25	-
5	PEC	26AI603T	Program Elective – III	3	-	-	3	20	20	60	100	45	3
6	PROJ	26AI604P	Project – I	-	-	4	2	-	50	50	100	50	-
7	VSC	26AI605P	Technical Skill Development - II	-	-	4	2	-	50	-	50	25	-
8	MDM	26AI631M	MDM – IV (Refer MDM basket)	3	-	-	3	20	20	60	100	45	3
9	OE	26AI661O	Open Elective – II (Refer OE basket)	3	-	-	3	20	20	60	100	45	3
<b>Total</b>				<b>14</b>	<b>0</b>	<b>12</b>	<b>20</b>	<b>90</b>	<b>240</b>	<b>370</b>	<b>700</b>	<b>-</b>	<b>-</b>

Multidisciplinary Minor - IV	
26AI631M	Deep Learning

Program Elective - II	
26AI602T(i)	Cloud Computing
26AI602T(ii)	Big Data Analytics and Business Intelligence

Program Elective – II Lab	
26AI602T(i)	Cloud Computing Lab
26AI602T(ii)	Big Data Analytics and Business Intelligence Lab

Program Elective - III	
26AI603T(i)	Computer Networks
26AI603T(ii)	Software Computing

Open Elective - II	
26AI661O	Introduction to Machine Learning

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### ARTIFICIAL INTELLIGENCE

#### SEVENTH SEMESTER

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	26AI701T	Deep Learning	3	-	-	3	20	20	60	100	45	3
2	PCC	26AI701P	Deep Learning Lab	-	-	2	1	-	25	25	50	25	-
3	PCC	26AI702T	AI for Cyber Security	2			2	10	10	30	50	23	1.5
4	PEC	26AI703T	Program Elective - IV	2	-	-	2	10	10	30	50	23	1.5
5	PEC	26AI704T	Program Elective - V	3	-	-	3	20	20	60	100	45	3
6	PEC	26AI704P	Program Elective - V Lab	-	-	2	1	-	25	25	50	25	-
7	PROJ	26AI705P	Project – II	-	-	4	2	-	50	50	100	25	-
8	MDM	26AI731M	MDM – V (Refer MDM basket)	3	-	-	3	20	20	60	100	45	3
9	OE	26AI761O	Open Elective – III (Refer OE basket)	3	-	-	3	20	20	60	100	45	3
<b>Total</b>				<b>16</b>	<b>0</b>	<b>8</b>	<b>20</b>	<b>100</b>	<b>200</b>	<b>400</b>	<b>700</b>	<b>-</b>	<b>-</b>

Program Elective - IV	
26AI703T(i)	Internet of Things and Edge Computing
26AI703T(ii)	Edge AI

Program Elective - V	
26AI704T(i)	Computer Vision
26AI704T(ii)	Pattern Recognition

Program Elective – V Lab	
26AI704T(i)	Computer Vision Lab
26AI704T(ii)	Pattern Recognition Lab

Multidisciplinary Minor – V	
26AI731M	AI for Investments

Open Elective - III	
26AI761O	Foundation of Deep Learning

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### ARTIFICIAL INTELLIGENCE

#### EIGHT SEMESTER

##### Option A

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration No of Hours for ESE
				L	T	P		Continual Assessment	Mid-Sem Examination	End Sem Examination	Total		
1	RM	26AI801T	Research Methodology#	2	-	-	2	10	10	30	50	23	1.5
2	RM	26AI801P	Research Methodology Lab #	-	-	4	2	-	25	25	50	25	-
3	PEC	26AI802T	Program Elective VI#	3	-	-	3	20	20	60	100	45	3
4	PEC	26AI802P	Program Elective VI Lab#	-	-	2	1	-	25	25	50	25	-
5	OJT	26AI803P(i)	Industry/Research Internship*	-	-	24	12	-	200	200	400	200	-
<b>Total</b>				<b>5</b>	<b>0</b>	<b>30</b>	<b>20</b>	<b>30</b>	<b>280</b>	<b>340</b>	<b>650</b>	<b>-</b>	<b>-</b>

##### Option B

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration No of Hours for ESE
				L	T	P		Continual Assessment	End Sem Examination	End Sem Examination	Total		
1	RM	26AI801T	Research Methodology#	2	-	-	2	10	10	30	50	23	1.5
2	RM	26AI801P	Research Methodology Lab#	-	-	4	2	-	25	25	50	25	-
3	PEC	26AI802T	Program Elective -VI#	3	-	-	3	20	20	60	100	45	3
4	PEC	26AI802P	Program Elective -VI Lab#	-	-	2	1	-	25	25	50	25	-
5	OJT	26AI803P(i)	Institutional Internship <sup>s</sup> & Project III	-	-	24	12	-	200	200	400	200	-
<b>Total</b>				<b>5</b>	<b>0</b>	<b>30</b>	<b>20</b>	<b>30</b>	<b>280</b>	<b>340</b>	<b>650</b>	<b>-</b>	<b>-</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. Exam will be conducted by NPTEL/Ins

\* One semester internship in any industry carried

\$ Two NPTEL courses of total six credits (as per choice of student) or Institutional Internship by IEDC, SVP CET.

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### ARTIFICIAL INTELLIGENCE

#### Basket for Multi-Disciplinary Minor Courses (MDM)

##### A. Department of Artificial Intelligence

Semester	Course Category	Course Code	Name of Course	Credits
III	MDM-I	26AI331M	Responsible and Safe AI Systems	2
IV	MDM-II	26AI431M	Fundamentals of Artificial Intelligence	3
V	MDM-III	26AI531M	Introduction to Machine Learning	3
VI	MDM-IV	26AI631M	Deep Learning	3
VII	MDM-V	26AI731M	Artificial Intelligence (AI) for Investments	3

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#### Basket for Open Elective Courses (OE)

#### B. Department of Artificial Intelligence

Semester	Course Category	Course Code	Name of Course	Credits
V	OE-I	26AI561O	Introduction to Artificial Intelligence	2
VI	OE-II	26AI661O	Introduction to Machine Learning	3
VII	OE-III	26AI761O	Foundation of Deep Learning	3

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**ARTIFICIAL INTELLIGENCE**

**Basket for Program Elective Courses (PEC)**

**C. Department of Artificial Intelligence**

Semester	Course Category	Course Code	Name of Course
V	PEC I	26AI503T	(i) Software Engineering and Project Management
V	PEC I	26AI503T	(ii) Essential Scrum: An Agile Process
V	PEC I Lab	26AI503P	(i) Software Engineering and Project Management Lab
V	PEC I Lab	26AI503P	(ii) Essential Scrum: An Agile Process Lab
VI	PEC II	26AI602T	(i) Cloud Computing
VI	PEC II	26AI602T	(ii) Big Data Analytics and Business Intelligence
VI	PEC II Lab	26AI602P	(i) Cloud Computing Lab
VI	PEC II Lab	26AI602P	(ii) Big Data Analytics and Business Intelligence Lab
VI	PEC III	26AI603T	(iii) Computer Networks
VI	PEC III	26AI603T	(iv) Software Computing
VII	PEC IV	26AI702T	(i) Internet of Things and Edge Computing
VII	PEC IV	26AI702T	(ii) Edge AI
VII	PEC V	26AI703T	(i) Computer Vision
VII	PEC V	26AI703T	(ii) Pattern Recognition
VII	PEC V Lab	26AI703P	(i) Computer vision Lab
VII	PEC V Lab	26AI703P	(ii) Pattern Recognition Lab
VIII	PEC VI (NPTEL)	26AI801T	(i) Foundation of Generative AI and LLM
VIII	PEC VI (NPTEL)	26AI801T	(ii) Natural Language Processing
VIII	PEC VI (NPTEL) Lab	26AI801P	(i) Foundation of Generative AI and LLM Lab
VIII	PEC VI (NPTEL) Lab	26AI801P	(ii) Natural Language Processing Lab

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### ARTIFICIAL INTELLIGENCE

#### 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.	Professional Orientation By Dr. Vandana Devi, NITTR, Chennai	NPTEL SWAYAM Online	2
2.	Web Technology	NPTEL Online	2
3.	Internship	Online/Offline	4

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

EXIT COURSES			
S.N.	Course name	Mode of conduction	Credits
1.	Introduction to Machine Learning By Prof. Balaraman Ravindran   IIT Madras	NPTEL Online	4
2.	Internship	Online/Offline	4

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

EXIT COURSES			
S.N.	Course name	Mode of conduction	Credits
1.	Cloud Computing	Online	4
2.	Internship	Online/Offline	4

		July 2026	NEP 4.0	Applicable for 2026-27 Admitted
Chairman - BoS	Dean – Academics	Date of Release	Version	