



# 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

### ROBOTICS & 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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### ROBOTICS & ARTIFICIAL INTELLIGENCE

#### GROUP II: SEMESTER I

Sr. No.	Course Category	CourseCode	Course Title	Hours per Week			Credits	Mid-Sem Examination	Maximum Marks			Min Passing marks	Duration No. of Hrs. for ESE
				L	T	P			Continual Assessment	End Sem Examination	Total		
1	BSC	25RA101T	Applied Physics	2	-	-	2	10	10	30	50	23	1.5
2	BSC	25RA101P	Applied Physics Lab	-	-	2	1	-	25	25	50	25	-
3	BSC	25RA102T	Linear Algebra & Calculus	3	-	-	3	20	20	60	100	45	3
4	BSC	25RA102P	Linear Algebra & Calculus Lab	-	-	2	1	-	25	25	50	25	-
5	ESC	25RA103T	Engineering Mechanics	2	-	-	2	10	10	30	50	23	1.5
6	ESC	25RA103P	Engineering Mechanics Lab	-	-	2	1	-	25	25	50	25	-
7	ESC	25RA104T	Logic Building with C & Python	2	-	-	2	10	10	30	50	23	1.5
8	ESC	25RA104P	Logic Building with C & Python Lab	-	-	2	1	-	25	25	50	25	-
9	PCC	25RA105T	Fundamentals of Robotics	2	-	-	2	10	10	30	50	23	1.5
10	AEC	25RA106P	Business Communication Skills I Lab	-	-	2	1	-	25	25	50	25	-
11	SEC	25RA207T	Design Thinking#	2	-	-	2	10	10	30	50	23	1.5
12	CC	25RA108T	Co-curricular Courses - I	2	-	-	2	-	50	-	50	23	-
Total				15	-	10	20	70	245	335	650		

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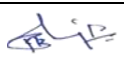
## B. Tech. Scheme of Examination & Syllabus 2025-26

### ROBOTICS & ARTIFICIAL INTELLIGENCE

#### GROUP II: SEMESTER II

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Min Passing marks	Duration No. of Hrs. for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	BSC	25RA201T	Applied Chemistry	2	-	-	2	10	10	30	50	23	1.5
2	BSC	25RA201P	Applied Chemistry Lab	-	-	2	1	-	25	25	50	25	-
3	BSC	25RA202T	Statistics and Transforms	3	-	-	3	20	20	60	100	45	3
4	BSC	25RA202P	Statistics and Transforms Lab	-	-	2	1	-	25	25	50	25	-
5	ESC	25RA203T	Engineering Graphics	2	-	-	2	10	10	30	50	23	1.5
6	ESC	25RA203P	Engineering Graphics Lab	-	-	2	1	-	25	25	50	25	-
7	ESC	25RA204T	Basics of Electrical and Electronics Engineering	2	-	-	2	10	10	30	50	23	1.5
8	ESC	25RA204P	Basics of Electrical and Electronics Engineering lab	-	-	2	1	-	25	25	50	25	-
9	PCC	25RA205T	Fundamentals of AI	2			2	10	10	30	50	23	1.5
10	AEC	25RA206P	Business Communication Skills – II Lab	-	-	2	1	-	25	25	50	25	-
11	IKS	25RA107T	Indian Knowledge Systems#	2	-	-	2	10	10	30	50	23	1.5
12	CC	25RA208T	Co-curricular Courses – II	2	-	-	2	-	50	-	50	25	-
<b>Total</b>				<b>15</b>		<b>10</b>	<b>20</b>	<b>70</b>	<b>245</b>	<b>335</b>	<b>650</b>		

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### ROBOTICS & ARTIFICIAL INTELLIGENCE

#### GROUP II: SEMESTER III

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Min Passing marks	Duration No. of Hrs for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1.	PCC	25RA301T	Analog & Digital Electronics	2	-	-	2	10	10	30	50	23	1.5
2.	PCC	25RA301P	Analog & Digital Electronics Lab	-	-	2	1	-	25	25	50	25	-
1	PCC	25RA302T	Actuators for Robotics	2	-	-	2	10	10	30	50	23	1.5
3.	PCC	25RA303T	Materials Engineering	3	-	-	3	20	20	60	100	45	3
4.	PCC	25RA303P	Materials Engineering Lab	-	-	2	1	-	25	25	50	25	-
5.	PCC	25RA304P	Robot Programming Lab	-	-	2	1	-	25	25	50	25	-
6.	PCC	25RA305T	Robot Safety and Maintenance	3	-	-	3	20	20	60	100	45	3
7.	VEC	25ES401T	Environmental Science	2	-	-	2	10	10	30	50	23	1.5
8.	HSSM	25ES402T	Fundamentals of Economics and Management	2	-	-	2	10	10	30	50	23	1.5
9.	MDM	25RA331M	MDM-I (Refer MDM basket)	2	-	-	2	10	10	30	50	23	1.5
10.	SEC	25RA341P	Career Development I	-	-	2	1	-	50	-	50	25	-
<b>Total</b>				<b>16</b>		<b>8</b>	<b>20</b>	<b>90</b>	<b>215</b>	<b>345</b>	<b>650</b>		

**Note: Any one PCC course will be conducted through MOOC (NPTEL). The course will be notified one month prior to commencement of semester.**

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### GROUP II: SEMESTER IV

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Min Passing marks	Duration No. of Hrs for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	25RA401T	Machine Learning	2	-	-	2	10	10	30	50	23	1.5
2	PCC	25RA401P	Machine Learning Lab	-	-	2	1	-	25	25	50	25	-
3	PCC	25RA402T	Sensors and Microcontrollers for Robotics	2	-	-	2	10	10	30	50	23	1.5
4	PCC	25RA402P	Sensors and Microcontrollers Lab	-	-	2	1	-	25	25	50	25	-
5	PCC	25RA403T	Robot Kinematics	3	-	-	3	20	20	60	100	45	3
6	PCC	25RA403P	Robot Kinematics Lab	-	-	2	1	-	25	25	50	25	-
7	VEC	25ES301T	Constitution of India	2	-	-	2	10	10	30	50	23	1.5
8	HSSM	25ES302T	Fundamentals of Entrepreneurship	2	-	-	2	10	10	30	50	23	1.5
9	SEC	25RA441P	Career Development - II	-	-	2	1	-	50	-	50	25	-
10	CEP	25RA407P	Mini Project*	-	-	4	2	-	50	-	50	25	-
11	MDM	25RA431M	MDM-II (Refer MDM basket)	3	-	-	3	20	20	60	100	45	3
Total				14		12	20	80	255	315	650		

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

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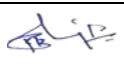
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### GROUP II: SEMESTER V

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Min Passing marks	Duration No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	25RA501T	Robot Dynamics	3	-	-	3	20	20	60	100	45	3
2	PCC	25RA501P	Robot Dynamics Lab	-	-	2	1	-	25	25	50	23	-
3	PCC	25RA502T	Control Systems	3	-	-	3	20	20	60	100	45	3
4	PEC	25RA503T	Program Elective course - I	3	-	-	3	20	20	60	100	45	3
5	PEC	25RA503P	Program Elective course – I Lab	-	-	2	1	-	25	25	50	25	-
6	VSC	25RA506P	Technical Skill Development - I	-	-	4	2	-	50	-	50	25	-
7	AEC	25RA541P	English for Engineers	-	-	4	2	-	50	-	50	25	-
8	MDM	25RA531M	MDM – III (Refer MDM basket)	3	-	-	3	20	20	60	100	45	3
9	OE	25RA561O	Open Elective – I (Refer OE basket)	2	-	-	2	10	10	30	50	23	1.5
<b>Total</b>				<b>14</b>		<b>12</b>	<b>20</b>	<b>90</b>	<b>240</b>	<b>320</b>	<b>650</b>		

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### ROBOTICS & ARTIFICIAL INTELLIGENCE

#### GROUP II: SEMESTER VI

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Min Passing marks	Duration No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	25RA601T	Image Processing & Computer Vision	2	-	-	2	10	10	30	50	23	1.5
2	PCC	25RA602T	Deep Learning	2	-	-	2	10	10	30	50	23	1.5
3	PEC	25RA603T	Program Elective course - II	3	-	-	3	20	20	60	100	45	5
4	PEC	25RA604T	Program Elective course - III	3	-	-	3	20	20	60	100	45	6
5	VSC	25RA506P	Technical Skill Development - II	-	-	4	2	-	50	-	50	25	-
6	PROJ	25RA605P	Project - I	-	-	4	2	-	50	50	100	25	-
7	MDM	25RA631M	MDM – IV (Refer MDM basket)	3	-	-	3	20	20	60	100	45	3
8	OE	25RA661O	Open Elective – II (Refer OE basket)	3	-	-	3	20	20	60	100	45	3
<b>Total</b>				<b>16</b>		<b>8</b>	<b>20</b>	<b>100</b>	<b>200</b>	<b>350</b>	<b>650</b>		

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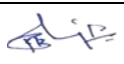
## B. Tech. Scheme of Examination & Syllabus 2025-26

### ROBOTICS & ARTIFICIAL INTELLIGENCE

#### GROUP II: SEMESTER VII

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Min Passing marks	Duration No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	25RA701T	Internet of Robotic Things (RIoT)	2	-	-	2	10	10	30	50	23	1.5
2	PCC	25RA701P	Internet of Robotic Things (RIoT) Laboratory	-	-	2	1		25	25	50	25	-
3	PCC	25RA702T	Natural Language Processing	2	-	-	2	10	10	30	50	23	1.5
4	PCC	25RA702P	Natural Language Processing Laboratory	-	-	2	1	-	25	25	50	-	-
5	PEC	25RA703T	Professional Elective course - IV	3	-	-	3	20	20	60	100	45	3
6	PEC	25RA703P	Professional Elective course - V	3	-	-	3		25	25	50	-	3
7	MDM	25RA731M	MDM – V (Refer MDM basket)	3	-	-	3	20	20	60	100	45	3
8	OE	25RA761O	Open Elective – III (Refer OE basket)	3	-	-	3	20	20	60	100	45	3
9	PROJ	25RA704P	Project - II	-	-	4	2	-	50	50	100	50	-
<b>Total</b>				<b>16</b>		<b>8</b>	<b>20</b>	<b>80</b>	<b>205</b>	<b>365</b>	<b>650</b>		

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### GROUP II: SEMESTER VIII

#### Option A

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Min Passing Marks	No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	RM	25ES801T	Research Methodology <sup>#</sup>	2	-	-	2	10	10	30	50	23	1.5
2	RM	25ES801P	Research Methodology Lab <sup>#</sup>	-	-	4	2	-	25	25	50	25	-
3	PEC	25RA801T	Professional Elective Course - V <sup>#</sup>	3	-	-	3	20	20	60	100	45	3
4	PEC	25RA801P	Professional Elective Course - V Lab <sup>#</sup>	-	-	2	1	-	25	25	50	25	-
5	OJT	25RA803P(i)	Industry/Research Internship <sup>*</sup>	-	-	25	12	300		100	400	200	-
<b>Total</b>				<b>5</b>	<b>0</b>	<b>31</b>	<b>20</b>	<b>410</b>		<b>240</b>	<b>650</b>		

#### Option B

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Min Passing Marks	No of Hours for ESE
				L	T	P		Continual Assessment	Mid-Sem Examination	End Sem Examination	Total		
1	ELC	25ES801T	Research Methodology <sup>#</sup>	2	-	-	2	20	20	60	100	45	4
2	RM	25ES801P	Research Methodology Lab <sup>#</sup>	-	-	4	2	25	-	25	50	25	-
3	PEC	25RA801T	Professional Elective Course - IV <sup>#</sup>	3	-	-	3	20	20	60	100	45	4
4	PEC	25RA801P	Professional Elective Course - IV Lab <sup>#</sup>	-	-	2	1	25	-	25	50	25	-
5	OJT	25RA804P(i)	Institutional Internship <sup>§</sup> & Project - III	-	-	24	12	300		100	400	200	-
<b>Total</b>				<b>8</b>	<b>0</b>	<b>30</b>	<b>20</b>	<b>430</b>		<b>270</b>	<b>700</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.**

**<sup>#</sup> Courses to be mapped with NPTEL/SWAYAM/MOOC offered course in that semester. Exam will be conducted by NPTEL/Institute**

**<sup>\*</sup> One semester internship in any industry to be carried out during internship.**

**<sup>§</sup> Two NPTEL courses of total six credits (as per choice of student) or Institutional Internship by IEDC, SVP CET.**

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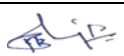
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### ROBOTICS & ARTIFICIAL INTELLIGENCE

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

##### A. Robotics & Artificial Intelligence Engineering

Semester	Course Category	Course Code	Name of Course	Credits
III	MDM-I	25RA331M	Fundamentals of Robotics	2
IV	MDM-II	25 RA 431M	Kinematics for Robotics	3
V	MDM-III	25 RA 531M	Fundamentals of AI & ML	3
VI	MDM-IV	25 RA 631M	Control Systems	3
VII	MDM-V	25 RA 731M	Robot Dynamics	3

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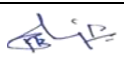
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### ROBOTICS & ARTIFICIAL INTELLIGENCE

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

#### B. Robotics & Artificial Intelligence Engineering

Semester	Course Category	Course Code	Name of Course	Credits
V	PEC	25RA503T(i)	Mobile and Micro Robotics	3
V	PEC	25RA503T(ii)	Data Analytics	3
V	PEC	25RA503T(iii)	Intelligent Manufacturing	3
V	PEC	25RA503T(iv)	Microcontroller Architecture and Programming	3
V	PEC	25RA503P(i)	Mobile and Micro Robotics Lab	1
V	PEC	25RA503P(ii)	Data Analytics Lab	1
V	PEC	25RA503P(iii)	Intelligent Manufacturing Lab	1
V	PEC	25RA503P(iv)	Microcontroller Architecture and Programming Lab	1
VI	PEC	25RA603T(i)	Autonomous Robotics and Telecherics	3
VI	PEC	25RA603T(ii)	Control of Robotic Systems	3
VI	PEC	25RA603T(iii)	Industrial Electronics and Power Convertors	3
VI	PEC	25RA603T(iv)	Advances in Robotics and Artificial Intelligence	3
VI	PEC	25RA604T(i)	Robot System Design and SLAM (Simultaneous Localization and Area Mapping)	3
VI	PEC	25RA604(ii)	Hydraulic & Pneumatic Drives for Robots	3
VI	PEC	25RA604T(iii)	Micro Electro Mechanical Systems	3
VI	PEC	25RA604T(iv)	Signals and Systems	3
VII	PEC	25RA703T(i)	Biomedical Robotics	3
VII	PEC	25RA703T(ii)	Augmented Reality and Virtual Reality	3
VII	PEC	25RA703T(iii)	Advanced Mechatronics	3
VII	PEC	25RA703T(iv)	Robot Dynamics and Control	3
VII	PEC	25RA704T(i)	Human Robot Interaction	3
VII	PEC	25RA704T(ii)	Autonomous Mobile Robots	3
VII	PEC	25RA704T(iii)	Swarm Robotics	3
VII	PEC	25RA704T(iv)	Soft Robotics	3

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### ROBOTICS & ARTIFICIAL INTELLIGENCE

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

#### C. Robotics & Artificial Intelligence Engineering

Semester	Course Category	Course Code	Name of Course	Credits
V	OE-I	25XX561M	Basics of Robotics	2
VI	OE-II	25XX661M	Robot Drives and Actuators	3
VII	OE-III	25XX761M	Robot Safety and Maintenance	3

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### ROBOTICS & ARTIFICIAL INTELLIGENCE

#### EXIT OPTIONS

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

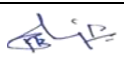
EXIT COURSES			
S.N.	Course name	Mode of conduction	Credits
1.	Vocational Course Robot Programming 8 Weeks / Industry Internship for 8-week duration	Online/ Offline	8

**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.	Vocational Course on Deep Learning for 8 Weeks / Industry Internship for 8-week duration	Online/ Offline	8

**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.	Vocational Course on Natural Language Progressing or Internet of things for 8 Weeks / Industry Internship for 8-week duration	Online/ Offline	8

		July 2025	3.0	Applicable for 2025-26
Chairman - BoS	Dean – Academics	Date of Release	Version	