



**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**

**INFORMATION TECHNOLOGY**

**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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### INFORMATION TECHNOLOGY

#### FIRST SEMESTER

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	BSC	26IT101T	Engineering Chemistry	2	-	-	2	10	10	30	50	23	1.5
2	BSC	26IT101P	Engineering Chemistry Lab	-	-	2	1	-	25	25	50	25	-
3	BSC	26IT102T	Linear Algebra and Calculus	3	-	-	3	20	20	60	100	45	3
4	BSC	26IT102P	Linear Algebra and Calculus Lab	-	-	2	1	-	25	25	50	25	-
5	ESC	26IT103T	Basis of Python Programming	2	-	-	2	10	10	30	50	23	1.5
6	ESC	26IT104T	Logic building with C	3	-	-	3	20	20	60	100	45	3
7	ESC	26IT104P	Logic building with C Lab	-	-	2	1	-	25	25	50	25	-
8	PCC	26IT105P	Software Lab - I	-	-	4	2	-	25	25	50	25	-
10	AEC	26IT106P	Business Communication Skills – I Lab	-	-	2	1	-	25	25	50	25	-
11	IKS	26IT107T	Indian Knowledge Systems #	2	-	-	2	10	10	30	50	23	1.5
12	CC	26IT108P	Co-curricular Courses - I	-	-	4	2	-	50	-	50	25	-
<b>Total</b>				<b>12</b>	<b>-</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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#### SECOND SEMESTER

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Semester Examination	Total		
1	BSC	26IT201T	Engineering Physics and Materials Science	2	-	-	2	10	10	30	50	23	1.5
2	BSC	26IT201P	Engineering Physics and Materials Science Lab	-	-	2	1	-	25	25	50	25	-
3	BSC	26IT202T	Statistics and Probability	3	-	-	3	20	20	60	100	45	3
4	BSC	26IT202P	Statistics and Probability Lab	-	-	2	1	-	25	25	50	25	-
5	ESC	26IT203T	Object Oriented Programming	3	-	-	3	20	20	60	100	45	3
6	ESC	26IT203P	Object Oriented Programming Lab	-	-	2	1	-	25	25	50	25	-
7	ESC	26IT204T	Digital Logic Design	2	-	-	2	10	10	30	50	23	1.5
8	PCC	26IT205P	Software Lab - II	-	-	4	2	-	25	25	50	25	-
9	AEC	26IT206P	Business Communication Skills – II Lab	-	-	2	1	-	25	25	50	25	-
10	SEC	26IT207T	Design Thinking #	2	-	-	2	10	10	30	50	23	1.5
11	CC	26IT208P	Co-curricular Courses – II	-	-	4	2	-	50	-	50	25	-
Total				12	-	16	20	70	245	335	650	-	-

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#### THIRD SEMESTER

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	P	T		Mid-Sem Examination	Continual Assessment	End Semester Examination	Total		
1	PCC	26IT301T	Discrete Mathematics	3	-	-	3	20	20	60	100	45	3
2	PCC	26IT302T	Data Structure	3	-	-	3	20	20	60	100	45	3
3	PCC	26IT302P	Data Structure Lab	-	-	4	2	-	25	25	50	25	-
4	PCC	26IT303T	Computer Network	3	-	-	3	20	20	60	100	45	3
5	PCC	26IT303P	Computer Network Lab	-	-	2	1	-	25	25	50	25	-
6	PCC	26IT304P	Software Lab - III	-	-	2	1	-	25	25	50	25	-
7	VEC	26IT305T	Constitution of India	2	-	-	2	10	10	30	50	23	1.5
8	HSSM	26IT306T	Fundamentals of Entrepreneurship	2	-	-	2	10	10	30	50	23	1.5
9	SEC	26IT341P	Career Development – I	-	-	2	1	-	50	-	50	25	-
10	MDM	26IT331M	MDM-I (Refer MDM basket)	2	-	-	2	10	10	30	50	23	1.5
<b>Total</b>				<b>15</b>	<b>-</b>	<b>10</b>	<b>20</b>	<b>90</b>	<b>215</b>	<b>345</b>	<b>650</b>	<b>-</b>	<b>-</b>

#### Multidisciplinary Minor - I

<b>26IT331M</b>	Programming, Data Structures And Algorithms Using Python
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### INFORMATION TECHNOLOGY

#### FOURTH SEMESTER

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No. of Hrs for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	26IT401T	Computer Architecture and Organization	2	-	-	2	20	20	60	100	45	3
2	PCC	26IT402T	JAVA Programming	3	-	-	3	20	20	60	100	45	3
3	PCC	26IT402P	JAVA Programming Lab	-	-	2	1	-	25	25	50	25	-
4	PCC	26IT403T	Operating System	3	-	-	3	10	10	30	50	23	1.5
5	PCC	26IT404P	Software Lab - IV	-	-	2	1	-	25	25	50	25	-
6	VEC	26IT405T	Environmental Science	2	-	-	2	10	10	30	50	23	1.5
7	HSSM	26IT406T	Fundamentals of Economics and Management	2	-	-	2	10	10	30	50	23	1.5
8	SEC	26IT441P	Career Development - II	-	-	2	1	-	50	-	50	-	-
9	CEP	26IT407P	Mini Project*	-	-	4	2	-	50	-	50	-	-
10	MDM	26IT431M	MDM-II (Refer MDM basket)	3	-	-	3	20	20	60	100	45	3
<b>Total</b>				<b>15</b>	<b>-</b>	<b>10</b>	<b>20</b>	<b>90</b>	<b>240</b>	<b>320</b>	<b>650</b>	<b>-</b>	<b>-</b>

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

Multidisciplinary Minor - II	
26IT431M	Problem Solving Through Programming In C

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### INFORMATION TECHNOLOGY

#### FIFTH SEMESTER

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	26IT501T	Database Management System	3	-	-	3	20	20	60	100	45	3
2	PCC	26IT501P	Database Management System Lab	-	-	2	1	-	25	25	50	25	-
3	PCC	26IT502T	Theory of Computation	3	-	-	3	10	10	30	50	23	1.5
4	PEC	26IT503T	Professional Elective – I (Refer PE basket)	3	-	-	3	20	20	60	100	45	3
5	PEC	26IT503P	Professional Elective – I Lab (Refer PE basket)	-	-	2	1	-	25	25	50	25	-
6	VSC	26IT506P	Technical Skill Development - I	-	-	4	2	-	50	-	50	-	-
7	AEC	26IT541P	English for Engineers	-	-	4	2	-	50	-	50	-	-
8	MDM	26IT531M	MDM – III (Refer MDM basket)	3	-	-	3	20	20	60	100	45	3
9	OE	26ITI561O	Open Elective – I (Refer OE basket)	2	-	-	2	10	10	30	50	23	1.5
<b>Total</b>				<b>14</b>	<b>-</b>	<b>12</b>	<b>20</b>	<b>80</b>	<b>230</b>	<b>290</b>	<b>600</b>	<b>-</b>	<b>-</b>

Multidisciplinary Minor - III	
26IT531M	Fundamentals of Artificial Intelligence

Open Elective – I	
26ITI561O(i)	Ethics in Information Technology
26ITI561O(ii)	Introduction to Software Engineering and Project Management

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### INFORMATION TECHNOLOGY

#### SIXTH SEMESTER

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	26IT601T	Artificial Intelligence and Machine Learning	3	-	-	3	20	20	60	100	45	3
2	PCC	26IT601P	Artificial Intelligence and Machine Learning Lab	-	-	2	1	-	25	25	50	25	-
3	PEC	26IT602T	Professional Elective – II (Refer PE basket)	3	-	-	3	20	20	60	100	45	3
4	PEC	26IT602P	Professional Elective – II Lab (Refer PE basket)	-	-	2	1	-	25	25	50	25	-
5	PEC	26IT603T	Professional Elective – III (Refer PE basket)	2	-	-	2	10	10	30	50	23	1.5
6	PROJ	26IT605P	Project - I	-	-	4	2	-	50	50	100	50	-
7	VSC	26IT606P	Technical Skill Development - II	-	-	4	2	-	50	-	50	-	-
8	MDM	26IT631M	MDM – IV (Refer MDM basket)	3	-	-	3	20	20	60	100	45	3
9	OE	26IT661O	Open Elective – II (Refer OE basket)	3	-	-	3	20	20	60	100	45	3
<b>Total</b>				<b>14</b>	<b>-</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	
26IT631M	Introduction to Machine Learning

Open Elective – II	
26IT661O(i)	Computer Animation
26IT661O(ii)	Web Development

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### INFORMATION TECHNOLOGY

#### SEVENTH SEMESTER

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	26IT701T	Information and Cyber Security	3	-	-	3	20	20	60	100	45	3
2	PCC	26IT701P	Information and Cyber Security Lab	-	-	2	1	-	25	25	50	25	-
3	PCC	26IT702P	Software Lab - V	-	-	4	2	-	25	25	50	25	-
4	PEC	26IT703T	Professional Elective – IV (Refer PE basket)	3	-	-	3	20	20	60	100	45	3
5	PEC	26IT704T	Professional Elective – V (Refer PE basket)	3	-	-	3	10	10	30	50	23	1.5
6	PROJ	26IT705P	Project – II	-	-	4	2	-	50	50	100	50	-
7	MDM	26IT731M	MDM – V (Refer MDM basket)	3	-	-	3	20	20	60	100	45	3
8	OE	26IT761O	Open Elective – III (Refer OE basket)	3	-	-	3	20	20	60	100	45	3
<b>Total</b>				<b>15</b>	<b>-</b>	<b>10</b>	<b>20</b>	<b>90</b>	<b>190</b>	<b>370</b>	<b>650</b>	<b>-</b>	<b>-</b>

Multidisciplinary Minor - V	
26IT731M	Social Network Analysis

Open Elective – III	
26IT761O(i)	Introduction to Database Management System
26IT761O(ii)	Basics of Cloud Computing

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### INFORMATION TECHNOLOGY

#### EIGHTH SEMESTER

##### Option A

Sr.No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration of ESE (hrs.)
				L	T	P		Mid Sem Examination	Continual Assessment	End Sem Examination	Total		
1	RM	26IT801T	Research Methodology <sup>#</sup>	2	-	-	2	10	10	30	50	23	1.5
2	RM	26IT801P	Research Methodology Lab <sup>#</sup>	-	-	4	2	-	25	25	50	25	-
3	PEC	26IT802T	Program Elective – VI <sup>#</sup>	3	-	-	3	20	20	60	100	45	3
4	PEC	26IT803P	Program Elective – VII Lab <sup>#</sup>	-	-	2	1	-	25	25	50	25	-
5	OJT	26IT804P(i)	Industry/Research Internship*	-	-	24	12	-	200	200	400	200	-
Total				5	0	30	20	30	280	340	650	-	-

##### Option B

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration of ESE (hrs.)
				L	T	P		Mid Sem Examination	Continual Assessment	End Sem Examination	Total		
1.	RM	26IT801T	Research Methodology <sup>#</sup>	2	-	-	2	10	10	30	50	23	1.5
2.	RM	26IT801P	Research Methodology Lab <sup>#</sup>	-	-	4	2	-	25	25	50	25	-
3.	PEC	26IT802T	Program Elective – VI <sup>#</sup>	3	-	-	3	20	20	60	100	45	3
4.	PEC	26IT803P	Program Elective – VII Lab <sup>#</sup>	-	-	2	1	-	25	25	50	25	-
5.	ELC	26IT804P(ii)	Institutional Internship <sup>\$</sup> & Project – III	-	-	24	12	-	200	200	400	200	-
Total				5	0	30	20	30	280	340	650	-	-

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 courses in that semester.

\* One semester internship in any industry/ Research Institute is to be carried out.

\$ One Semester Internship offered by Institute Level Cells such as TPDC/ IEDC / E-Yantra/ Team Ashwa Riders along with project in the Major Discipline assigned by department to be carried out.

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

#### A. Information Technology

Semester	Course Category	Course Code	Name of Course	Subject Expert Name	Weeks	Credits
III	MDM-I	26IT331M	Programming, Data Structures and Algorithms Using Python	Prof. Madhavan Mukund	8	2
IV	MDM-II	26IT431M	Problem Solving Through Programming In C	Prof. Anupam Basu	12	3
V	MDM-III	26IT531M	Fundamentals of Artificial Intelligence	Prof. Shyamanta M. Hazarika	12	3
VI	MDM-IV	26IT631M	Introduction to Machine Learning	Prof. Balaraman Ravindran	12	3
VII	MDM-V	26IT731M	Social Network Analysis	Prof. Tanmoy Chakraborty	12	3

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

#### B. Information Technology

Semester	Course Category	Course Code	Name of Course	Credits
V	PEC-I	26IT503T(i)	Software Engineering and Project Management	3
V	PEC-I	26IT503T(ii)	Design and Analysis of Algorithms	3
V	PEC-I	26IT503T(iii)	Gaming Architecture and Programming	3
V	PEC-I Lab	26IT503P(i)	Software Engineering and Project Management Lab	1
V	PEC-I Lab	26IT503P(ii)	Design and Analysis of Algorithms Lab	1
V	PEC-I Lab	26IT503P(iii)	Gaming Architecture and Programming Lab	1
VI	PEC-II	26IT602T(i)	Cloud Computing	3
VI	PEC-II	26IT602T(ii)	Computer Graphics and Animation	3
VI	PEC-II	26IT602T(iii)	Introduction to Data Science	3
VI	PEC-II Lab	26IT602P(i)	Cloud Computing Lab	1
VI	PEC-II Lab	26IT602P(ii)	Computer Graphics and Animation Lab	1
VI	PEC-II Lab	26IT602P(iii)	Introduction to Data Science Lab	1
VI	PEC-III	26IT603T(i)	Blockchain Technology	2
VI	PEC-III	26IT603T(ii)	Advanced Computer Network	2
VI	PEC-III	26IT603T(iii)	Mobile Application Development	2
VII	PEC-IV	26IT703T(i)	Deep Learning	3
VII	PEC-IV	26IT703T(ii)	Big Data Analytics	3
VII	PEC-IV	26IT703T(iii)	Introduction to IOT	3
VII	PEC-V	26IT704T(i)	Data Warehousing and Mining	3
VII	PEC-V	26IT704T(ii)	Digital Image Processing	3
VII	PEC-V	26IT704T(iii)	Digital Forensic	3
VIII	PEC-VI	26IT802T(i)	Natural Language Processing	3
VIII	PEC-VI	26IT802T(ii)	Computer Vision	3
VIII	PEC-VII Lab	26IT802P(i)	Natural Language Processing Lab	1
VIII	PEC-VII Lab	26IT802P(ii)	Computer Vision Lab	1

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

#### C. Information Technology

Semester	Course Category	Course Code	Name of Course	Credits
V	OE-I	26IT561O (i)	Ethics in Information Technology	2
V	OE-I	26IT561O (ii)	Introduction to Software Engineering and Project Management	
VI	OE-II	26IT661O (i)	Computer Animation	3
VI	OE-II	26IT661O (ii)	Web Development	
VII	OE-III	26IT761O (i)	Introduction to Database Management System	3
VII	OE-III	26IT761O (ii)	Basics of Cloud Computing	

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#### 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.	Programming In Modern C++	Online-Swayam	4
2.	Programming Data Structures and Algorithms Using Python	Online-NPTEL	4

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

EXIT COURSES			
S.N.	Course name	Mode of conduction	Credits
1.	Programing In Java	NPTEL	4
2.	Internship	Offline/Online	4

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

EXIT COURSES			
S.N.	Course name	Mode of conduction	Credits
1.	Cyber Security	Online-Swayam	4
2.	Internship	Offline/Online	4

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

**INFORMATION TECHNOLOGY**

**Scheme of Examination -Honors**

<Name of the Honor Course>

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total	
1.	Honor	26ITH401T	The Joy of Computing using Python	-	-	-	3	-	-	-	-	NPTEL/MOOCs
2.	Honor	26ITH402T	Data Analytics with Python	-	-	-	3	-	-	-	-	NPTEL/MOOCs
3.	Honor	26ITH501T	Advanced R Programming for Data Analytics in Business	-	-	-	3	-	-	-	-	NPTEL/MOOCs
4.	Honor	26ITH601T	Artificial Intelligence: Knowledge Representation and Reasoning	-	-	-	3	-	-	-	-	NPTEL/MOOCs
5.	Honor	26ITH701T	Introduction to Machine Learning	-	-	-	3	-	-	-	-	NPTEL/MOOCs
6.	Honor	26ITH801T	Reinforcement Learning	-	-	-	3	-	-	-	-	NPTEL/MOOCs
			<b>Total</b>	-	-	-	<b>18</b>	-	-	-	-	-

Attached Details of NPTEL Courses with Link

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### INFORMATION TECHNOLOGY

Semester	Course Category	Course Code	Name of Course	Subject Expert Name	NPTEL Link	Weeks	Credits
1	Honor	26ITH401T	The Joy of Computing using Python	Prof. Sudarshan Iyengar, IIT Ropar	<a href="https://onlinecourses.nptel.ac.in/noc26_cs84/preview">https://onlinecourses.nptel.ac.in/noc26_cs84/preview</a>	12 weeks	3
2	Honor	26ITH402T	Data Analytics with Python	Prof. A Ramesh, IIT Roorkee	<a href="https://onlinecourses.nptel.ac.in/noc26_cs86/preview">https://onlinecourses.nptel.ac.in/noc26_cs86/preview</a>	12 weeks	3
3	Honor	26ITH501T	Computer Vision	Prof. Jayanta Mukhopadhyay, IITKGP	<a href="https://onlinecourses.nptel.ac.in/noc23_cs77/preview">https://onlinecourses.nptel.ac.in/noc23_cs77/preview</a>	12 weeks	3
4	Honor	26ITH601T	Artificial Intelligence: Knowledge Representation and Reasoning	Prof. Deepak Khemani, IIT Madras	<a href="https://onlinecourses.nptel.ac.in/noc26_cs63/preview">https://onlinecourses.nptel.ac.in/noc26_cs63/preview</a>	12 weeks	3
5	Honor	26ITH701T	Introduction to Machine Learning	Prof. Balaraman Ravindran, IIT Madras	<a href="https://onlinecourses.nptel.ac.in/noc26_cs74/preview">https://onlinecourses.nptel.ac.in/noc26_cs74/preview</a>	12 weeks	3
6	Honor	26ITH801T	Reinforcement Learning	Prof. Balaraman Ravindran, IIT Madras	<a href="https://onlinecourses.nptel.ac.in/noc26_cs81/preview">https://onlinecourses.nptel.ac.in/noc26_cs81/preview</a>	12 weeks	3

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