

1.2.1 Number of Add on /Certificate programs offered during the last five years


1.2.2 Percentage of students enrolled in Certificate /Add-on/ Value added programs as against the total number of students

2022-23							
Name of Add on /Certificate programs offered	Course Code (if any)	Year of offering	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year	Department
Add on Course on "Python"	NA	2022-23	1	30	295	107	E&TC
Add on Course on GERMAN LANGUAGE	NA	2022-23	1	30	325	170	Computer
Add on Course on JAPANESE LANGUAGE	NA	2022-23	1	30	345	150	Computer
Add on Course on 3D metrology & Reverse Engineering	NA	2022-23	1	30	54	54	Mech
Add on Course on Advanced fluid mechanics	NA	2022-23	1	30	40	38	Civil
Add on Course on study and field practice on standard penetration test	NA	2022-23	1	33	100	89	Civil
Add on Course on Recent Trends in IT Industry	NA	2022-23	1	30	129	108	AIDS
Add on Course on Aspects of Team Building & Communication Skills	NA	2022-23	1	30	680	100	NPTEL
SQL FOR Data Science		2022-23	1	4W	5	1	NPTEL

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An introduction to programming through C++		2022-23	1	12W	8	1	NPTEL
Problem Solving through programming in C		2022-23	1	12W	6	1	NPTEL
Python for Data Science	noc23-cs21	2022-23	1	4W	37	5	NPTEL
AWS S3 Basics		2022-23	1	1W	5	1	NPTEL
Python for Data Science, AI & Development		2022-23	1	5W	10	3	NPTEL
Data Analytics with Python	noc23-cs08	2022-23	1	12W	6	5	NPTEL
Data Science for Engineers	noc23-cs17	2022-23	1	8W	8	1	NPTEL
Deep Learning by IIT Ropar		2022-23	1	12w	1	1	NPTEL
Cloud Computing	noc23-cs17	2022-23	1	12W	5	2	NPTEL
Ethical Hacking	noc23-cs44	2022-23	1	12W	6	1	NPTEL
Remote Sensing and GIS for rural development	noc23-ce52	2022-23	2	8W	1	1	NPTEL
A brief introduction of Micro - Sensors	noc23-ee09	2022-23	2	12w	1	0	NPTEL
Advanced Atmospheric Physics	noc23-ph20	2022-23	2	12W	1	0	NPTEL
Advanced computer architecture	noc23-cs07	2022-23	2	4W	2	0	NPTEL
Advanced Computer Networks	noc23-cs35	2022-23	2	12W	1	0	NPTEL


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Advanced Engineering Mathematics	noc23-ma33	2022-23	2	12W	1	0	NPTEL
Advanced Foundation Engineering	noc23-ce33	2022-23	2	4W	2	0	NPTEL
AI:Constraint Satisfaction	noc23-cs14	2022-23	2	8W	1	0	NPTEL
An Introduction to Artificial Intelligence	noc23-cs05	2022-23	2	12w	5	0	NPTEL
Analog Circuits and Systems through SPICE Simulation	noc23-ee74	2022-23	2	12W	1	0	NPTEL
Artificial Intelligence: Knowledge Representation And Reasoning	noc23-cs09	2022-23	2	12W	3	0	NPTEL
Basic construction materials	noc23-ce18	2022-23	2	4W	1	0	NPTEL
Blockchain and its Applications	noc23-cs47	2022-23	2	8W	1	0	NPTEL
Design and analysis of algorithms	noc23-cs16	2022-23	2	8W	4	0	NPTEL
Digital Electronic Circuits	noc23-ee50	2022-23	2	12W	1	0	NPTEL
Getting Started with Competitive Programming	noc23-cs30	2022-23	2	12W	2	0	NPTEL
Hardware Security	noc23-cs59	2022-23	2	4W	1	0	NPTEL


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Introduction to Lean Construction (Module 1 - Lean Basics)	noc23-ce22	2022-23	2	4W	1	0	NPTEL
Introduction to Research	noc23-ge05	2022-23	2	4W	1	0	NPTEL
Lighter than Air Systems	noc23-ae05	2022-23	2	4W	2	0	NPTEL
Optimisation for Machine Learning: Theory and Implementation (Hindi)	noc23-cs64	2022-23	2	4W	1	0	NPTEL
Ordinary and Partial Differential Equations and Applications	noc23-ma06	2022-23	2	4W	5	0	NPTEL
Production and Operation Management	noc23-mg17	2022-23	2	8W	1	0	NPTEL
VLSI Signal Processing	noc23-ee44	2022-23	2	8W	1	0	NPTEL
Wheeled Mobile Robots	noc23-me30	2022-23	2	12W	1	0	NPTEL
Urban Services Planning	noc23-ar07	2022-23	2	4W	1	0	NPTEL
Total					2108	-	-
2021-22							
Name of Add on /Certificate programs offered	Course Code (if any)	Year of offering	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year	Department
Add on Course on CNC Programming		2021-22	1	30	154	154	Mech

Introduction to Machine Learning	noc21-cs85	2021-22	2	12W	2	0	NPTEL
Natural Language Processing	noc21-cs102	2021-22	2	8W	2	0	NPTEL
Problem Solving through Programming in C	noc21-cs54	2021-22	2	12W	1	1	NPTEL
Project Planning & Control	noc21-ce50	2021-22	2	12W	1	0	NPTEL
Python for Data Science	noc21-cs78	2021-22	2	8W	2	0	NPTEL
RAC Product Design	noc21-me106	2021-22	2	4W	1	0	NPTEL
Science, Technology and Society	noc21-hs82	2021-22	2	12W	2	0	NPTEL
Soil Mechanics/Geotechnical Engineering I	noc21-ce41	2021-22	2	8W	6	0	NPTEL
Wastewater Treatment and Recycling	noc21-ce49	2021-22	2	12W	5	2	NPTEL
AI:Constraint Satisfaction	noc22-cs06	2021-22	2	12W	2	0	NPTEL
An Introduction to Artificial Intelligence	noc22-cs56	2021-22	2	8W	5	0	NPTEL
An Introduction to Programming Through C++	noc22-cs42	2021-22	2	4W	2	1	NPTEL
Artificial Intelligence: Knowledge Representation And Reasoning	noc22-cs02	2021-22	2	4W	2	0	NPTEL

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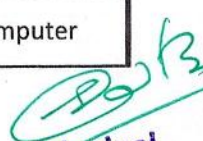


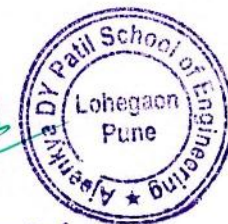
Add on Course on Basics and advanced in Etabs V 2019 software	NA	2021-22	1	30	103	85	Civil
Add on Course on Practical Approach for OOP	NA	2021-22	1	30	519	70	AIDS
Advanced Java Programming	NA	2021-22	1	1M	5	2	NPTEL
Aircraft Propulsion	noc21-me95	2021-22	2	12W	2	0	NPTEL
Artificial Intelligence : Search Methods for Problem Solving	noc21-cs79	2021-22	2	12W	1	0	NPTEL
Big Data Computing	noc21-cs86	2021-22	2	8W	1	0	NPTEL
C Programming and Assembly Language	noc21-cs81	2021-22	2	4W	1	0	NPTEL
Cloud computing	noc21-cs62	2021-22	2	12W	6	0	NPTEL
Data Base Management System	noc21-cs58	2021-22	2	8W	1	0	NPTEL
Design of Mechatronic Systems	noc21-me129	2021-22	2	12W	1	0	NPTEL
Design of Reinforced Concrete Structures	noc21-ce42	2021-22	2	12W	2	0	NPTEL
Developing Soft Skills and Personality	noc21-hs57	2021-22	2	8W	1	0	NPTEL
Electric vehicles and Renewable energy	noc21-ee112	2021-22	2	12W	1	0	NPTEL
Entrepreneurship and IP strategy	noc21-hs102	2021-22	2	8W	4	0	NPTEL
Fluid Machines	noc21-me75	2021-22	2	12W	1	1	NPTEL

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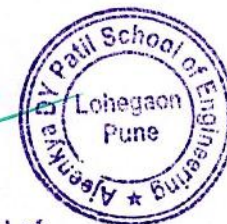
Basic course in Biomedical Research	noc20-md03	2021-22	2	12W	1	0	NPTEL
Cloud Computing and Distributed Systems	noc22-cs18	2021-22	2	8W	1	0	NPTEL
Data Analytics with Python	noc22-cs08	2021-22	2	12W	2	0	NPTEL
Data Science for Engineers	noc22-cs28	2021-22	2	12W	1	0	NPTEL
Emotional Intelligence	noc22-hs11	2021-22	2	8W	3	0	NPTEL
Gear And Gear Unit Design: Theory and Practice	noc22-me62	2021-22	2	12W	1	0	NPTEL
Signals and Systems	noc22-ee42	2021-22	2	8W	2	0	NPTEL
Systems and Usable Security	noc22-cs36	2021-22	2	4W	1	0	NPTEL
Traffic Engineering	noc22-ce41	2021-22	2	4W	1	0	NPTEL
Urban Transportation Systems Planning	noc22-ce34	2021-22	2	12W	1	0	NPTEL
Total					850	-	-
2020-21							
Name of Add on /Certificate programs offered	Course Code (if any)	Year of offering	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year	Department
Add on Course on Analytics and Data Science	NA	2020-21	1	38	248	76	E&TC
Add on Course on German Language	NA	2020-21	1	30	351	179	Computer


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Handson Python Workshop with Applications and Cloud Development	NA	2020-21	1	30	64	64	Computer
Technical English for Engineers	noc20-hs56	2020-21	2	8W	6	2	NPTEL
German - I	noc20-hs87	2020-21	2	12W	3	2	NPTEL
Introduction To Japanese Language And Culture	noc20-hs83	2020-21	2	12W	6	5	NPTEL
Ecology and Environment	noc20-ge16	2020-21	2	8W	3	3	NPTEL
Advanced Concrete Technology	noc20-ce45	2020-21	2	8W	3	0	NPTEL
Applied Electromagnetics For Engineers	noc20-ee93	2020-21	2	8W	1	0	NPTEL
Artificial Intelligence Search Methods For Problem Solving	noc20-cs81	2020-21	2	12W	3	0	NPTEL
Basics Of Finite Element Analysis-I	noc20-me91	2020-21	2	12W	3	0	NPTEL
Big Data Computing	noc20-cs92	2020-21	2	8W	2	0	NPTEL
C Programming and Assembly Language	noc20-cs94	2020-21	2	8W	3	0	NPTEL
Data Base Management System	noc20-cs60	2020-21	2	4W	2	0	NPTEL
Data Science for Engineers	noc20-cs72	2020-21	2	4W	3	0	NPTEL
Data Structure and algorithms using Java	noc20-cs85	2020-21	2	12W	2	0	NPTEL

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Discrete Mathematics	noc20- cs82	2020-21	2	12W	3	0	NPTEL
Programming in C++	noc20- cs57	2020-21	2	8W	5	0	NPTEL
Programming, Data Structures And Algorithms Using Python	noc20- cs70	2020-21	2	8W	5	0	NPTEL
Python for Data Science	noc20- cs80	2020-21	2	4W	3	0	NPTEL
Strength Of Materials	noc20- ce34	2020-21	2	12W	2	0	NPTEL
The Joy of Computing using Python	noc20- cs83	2020-21	2	8W	1	0	NPTEL
Computer Networks and Internet Protocol	noc21- cs18	2020-21	2	12W	1	0	NPTEL
Introduction to Automata, Languages and Computation	noc21- cs19	2020-21	2	12W	1	0	NPTEL
An Introduction to Programming through C++	noc21- cs38	2020-21	2	8W	1	0	NPTEL
Principles of Industrial Engineering	noc21- me15	2020-21	2	4W	1	0	NPTEL
Python for Data Science	noc21- cs33	2020-21	2	8W	2	0	NPTEL
An Introduction to Programming through C++	noc21- cs38	2020-21	2	4W	1	0	NPTEL
Speaking Effectively	noc21- hs05	2020-21	2	12W	1	0	NPTEL

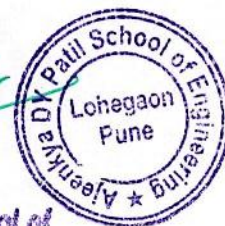
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Innovation by Design	noc21-de05	2020-21	2	8W	1	0	NPTEL
Understanding Design	noc21-de06	2020-21	2	12W	1	0	NPTEL
Introduction to Embedded System Design	noc21-ee58	2020-21	2	12W	1	0	NPTEL
Mining Machinery	noc21-mm17	2020-21	2	12W	1	0	NPTEL
Cryptography and Network Security	noc21-cs16	2020-21	2	8W	1	0	NPTEL
An Introduction to Artificial Intelligence	noc21-cs42	2020-21	2	8W	1	0	NPTEL
Programming in C++	noc21-cs02	2020-21	2	8W	1	0	NPTEL
Human Behaviour	noc21-hs21	2020-21	2	12W	1	0	NPTEL
Data Analytics with Python	noc21-cs45	2020-21	2	4W	1	0	NPTEL
Software Testing	noc21-cs13	2020-21	2	12W	1	0	NPTEL
Cloud computing	noc21-cs14	2020-21	2	12W	1	0	NPTEL
Introduction to Embedded System Design	noc21-ee58	2020-21	2	8W	1	0	NPTEL
Programming, Data Structures And Algorithms Using Python	noc21-cs21	2020-21	2	8W	1	0	NPTEL
User Interface Design	noc21-ar05	2020-21	2	8W	1	0	NPTEL
Total					744	-	-


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2019-20							
Name of Add on /Certificate programs offered	Course Code (if any)	Year of offering	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year	Department
Add on Course on Campus To Connect	NA	2019-20	1	33	249	73	E&TC
Add on Course on Employability Skill Development by Inspiring Indeed InfoTech	NA	2019-20	1	37	264	120	Computer
Add on Course on 3D Printing	NA	2019-20	1	36	60	60	Mech
Design Practice	noc19-me49	2019-20	2	8W	1	0	NPTEL
Robotics	noc19-me74	2019-20	2	4W	1	0	NPTEL
Manufacturing Automation	noc19-me78	2019-20	2	8W	1	0	NPTEL
Artificial Intelligence : Search Methods for Problem Solving	noc19-cs83	2019-20	2	4W	1	0	NPTEL
Programming In Java	noc19-cs84	2019-20	2	12W	12	1	NPTEL
Manufacturing Automation	noc19-me78	2019-20	2	8W	1	0	NPTEL
Ethical Hacking	noc19-cs68	2019-20	2	12W	6	0	NPTEL
Introduction to Machine Learning	noc19-cs53	2019-20	2	12W	7	0	NPTEL
Advanced Computer Architecture	noc19-cs62	2019-20	2	12W	1	0	NPTEL


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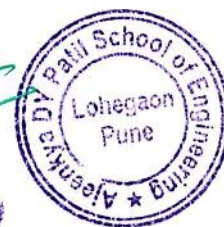
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An Introduction to Programming through C++	noc19-cs39	2019-20	2	8W	9	0	NPTEL
Basic Electric Circuits	noc19-ee36	2019-20	2	8W	1	0	NPTEL
Blockchain Architecture Design and Use Cases	noc19-cs63	2019-20	2	8W	2	0	NPTEL
Body Language: Key to Professional Success	noc19-hs34	2019-20	2	12W	1	0	NPTEL
Computer numerical control CNC of machine tools and processes	noc19-me46	2019-20	2	4W	1	0	NPTEL
Computer Vision	noc19-cs58	2019-20	2	12W	2	0	NPTEL
Concrete Technology	noc19-ce20	2019-20	2	12W	1	0	NPTEL
Data Base Management System	noc19-cs46	2019-20	2	8W	3	0	NPTEL
Data Science for Engineers	noc19-cs60	2019-20	2	8W	2	0	NPTEL
Decision-Making Under Uncertainty	noc19-mg43	2019-20	2	8W	1	0	NPTEL
Design and analysis of algorithms	noc19-cs47	2019-20	2	8W	1	0	NPTEL
Design of steel structures	noc19-ce25	2019-20	2	4W	1	0	NPTEL
Developing Soft Skills and Personality	noc19-hs32	2019-20	2	12W	2	0	NPTEL
Discrete Mathematics	noc19-cs67	2019-20	2	8W	3	0	NPTEL


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Ethical Hacking	noc19-cs68	2019-20	2	12W	6	0	NPTEL
Fluid Mechanics	noc19-ce28	2019-20	2	12W	2	0	NPTEL
Introduction to Internet of Things	noc19-cs65	2019-20	2	12W	3	0	NPTEL
Introduction to Programming in C	noc19-cs42	2019-20	2	8W	4	0	NPTEL
Leadership	noc19-mg34	2019-20	2	8W	2	0	NPTEL
Machine Learning for Engineering and Science Applications	noc19-cs82	2019-20	2	12W	2	0	NPTEL
Practical Machine Learning with Tensorflow	noc19-cs81	2019-20	2	4W	5	0	NPTEL
Programming in C++	noc19-cs38	2019-20	2	12W	2	0	NPTEL
Programming, Data Structures and Algorithms Using Python	noc19-cs40	2019-20	2	12W	10	1	NPTEL
Python for Data Science	noc19-cs59	2019-20	2	8W	5	0	NPTEL
The Joy of Computing using Python	noc19-cs41	2019-20	2	12W	4	1	NPTEL
Cloud Computing	noc19-cs27	2019-20	1	12W	2	2	NPTEL
Big Data Computing	noc19-cs33	2019-20	1	8W	4	2	NPTEL
Machine Learning, ML	noc19-cs35	2019-20	1	8W	3	2	NPTEL
Total					688	-	-



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2018-19							
Add on Course on AutoCAD 2D	NA	2018-19	1	32	67	60	Civil
Add on Course on German Language-1	NA	2018-19	1	30	251	120	Computer
Add on Course on German Language-2	NA	2018-19	1	32	256	120	Computer
Total					574	-	-

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