



### 1.2.3 \_2. List of No. of Certificate/Add on programs

#### List of No. of Certificate/Add on Programs Year 2019-20

Sr. No	Branch	Academic Year	Name of Add on /Certificate programs offered	Number of students enrolled	Number of Students passed
1	EXTC	2019-20	Embedded System Design Using Arduino	34	34
2	EXTC	2019-20	Embedded system-Arm Mbed and Node MCU	22	22
3	EXTC	2019-20	FPGA design using VHDL	15	15
4	EXTC	2019-20	Introduction to Arduino, IoT and Interfacing using Simulator software	72	40
5	EXTC	2019-20	Machine Learning and Image Processing using Python	67	49
6	EXTC	2019-20	C, C++ and Java coding skills	65	34
7	CE	2019-20	Software Design	30	22
8	CE	2019-20	Skill Development Training	31	21
9	IT	2019-20	Skill Development Training	20	11
10	IT	2019-20	Data Mining and Analytics	31	17
11	IT	2019-20	CCNA Routing and Switching	17	11
12	Mech	2019-20	Heat Transfer and Fluid Flow Analysis using Ansys Fluent	29	15
13	Mech	2019-20	Industrial drawing and modeling using AutoCAD and Solid works	32	18
14	Mech	2019-20	Modeling Robot Kinematics using Python Programming	46	46
15	FE	2019-20	Enhancing Professional Communication	15	15
16	CE	2019_20	BlockChain Technology	38	38
17	CE	2019_20	Network Security & Ethical Hacking	17	17
18	CE	2019_20	Ethical Hacking & Security	31	23



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19	CE	2019_20	R Programming Workshop	48	28
20	CE	2019_20	Advanced web technology	122	56
21	CE	2019_20	Data science with R	65	24
22	CE	2019_20	Advance C	61	45
23	CE	2019_20	Advanced web technology	25	25
24	FE	2019_20	Universal Human Values	40	23
25	Coursera	2019_20	Programming for Everybody (Getting Started with Python)	246	188
26	Coursera	2019_20	Python Data Structures	159	130
27	Coursera	2019_20	Neural Networks and Deep Learning	97	42
28	Coursera	2019_20	Using Python to Access Web Data	95	59
29	Coursera	2019_20	Introduction to Data Science in Python	85	33
30	Coursera	2019_20	Introduction to HTML5	66	43
31	Coursera	2019_20	Using Databases with Python	59	41
32	Coursera	2019_20	Crash Course on Python	49	25
33	Coursera	2019_20	Capstone: Retrieving, Processing, and Visualizing Data with Python	47	43
34	Coursera	2019_20	Front-End Web UI Frameworks and Tools: Bootstrap 4	44	22
35	Coursera	2019_20	Algorithmic Toolbox	44	11
36	Coursera	2019_20	HTML, CSS, and Javascript for Web Developers	44	11
37	Coursera	2019_20	Introduction to CSS3	43	27
38	Coursera	2019_20	Java Programming: Solving Problems with Software	40	8
39	Coursera	2019_20	Java for Android	40	7
40	Coursera	2019_20	Technical Support Fundamentals	36	21



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41	Coursera	2019_20	Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization	36	27
42	Coursera	2019_20	Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning	36	19
43	Coursera	2019_20	Interactivity with JavaScript	35	25
44	Coursera	2019_20	Programming Foundations with JavaScript, HTML and CSS	34	18
45	Coursera	2019_20	Machine Learning Foundations: A Case Study Approach	33	14
46	Coursera	2019_20	AWS Fundamentals: Going Cloud-Native	33	24
47	Coursera	2019_20	Convolutional Neural Networks	33	25
48	Coursera	2019_20	Applied Machine Learning in Python	32	15
49	Coursera	2019_20	Google Cloud Platform Fundamentals: Core Infrastructure	32	11
50	Coursera	2019_20	Python Basics	28	15
51	Coursera	2019_20	Introduction to the Internet of Things and Embedded Systems	28	14
52	Coursera	2019_20	The Bits and Bytes of Computer Networking	27	16
53	Coursera	2019_20	AI For Everyone	26	24
54	Coursera	2019_20	Blockchain Basics	24	7
55	Coursera	2019_20	Fundamentals of Graphic Design	23	8
56	Coursera	2019_20	Building Web Applications in PHP	23	7
57	Coursera	2019_20	Front-End Web Development with React	23	8
58	Coursera	2019_20	Structuring Machine Learning Projects	23	22
59	Coursera	2019_20	Sequence Models	22	16
60	Coursera	2019_20	Applied Plotting, Charting & Data Representation in Python	22	17
61	Coursera	2019_20	Introduction to Psychology	21	8



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62	Coursera	2019_20	Introduction to Cybersecurity Tools & Cyber Attacks	21	15
63	Coursera	2019_20	Speak English Professionally: In Person, Online & On the Phone	20	4
64	Coursera	2019_20	Visual Elements of User Interface Design	20	8
65	Coursera	2019_20	Introduction to Git and GitHub	20	11
66	Coursera	2019_20	Marketing in a Digital World	19	10
67	Coursera	2019_20	Introduction to Web Development	19	10
68	Coursera	2019_20	The Data Scientist's Toolbox	18	11
69	Coursera	2019_20	Machine Learning for All	18	12
70	Coursera	2019_20	Advanced Styling with Responsive Design	18	16
71	Coursera	2019_20	COVID19 Data Analysis Using Python	18	17
72	Coursera	2019_20	Introduction to Deep Learning	18	1
73	Coursera	2019_20	Server-side Development with NodeJS, Express and MongoDB	18	6
74	Coursera	2019_20	Convolutional Neural Networks in TensorFlow	18	13
75	Coursera	2019_20	JavaScript, jQuery, and JSON	18	4
76	Coursera	2019_20	The Science of Well-Being	16	5
77	Coursera	2019_20	Natural Language Processing in TensorFlow	16	15
78	Coursera	2019_20	Getting Started with Go	16	13
79	Coursera	2019_20	Spanish Vocabulary: Meeting People	16	2
80	Coursera	2019_20	Using Python to Interact with the Operating System	16	9
81	Coursera	2019_20	SQL for Data Science	16	5
82	Coursera	2019_20	Responsive Website Basics: Code with HTML, CSS, and JavaScript	16	10
83	Coursera	2019_20	The Arduino Platform and C Programming	15	9



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84	Coursera	2019_20	Introduction to Big Data	15	7
85	Coursera	2019_20	AWS Fundamentals: Addressing Security Risk	15	11
86	Coursera	2019_20	Financial Markets	15	2
87	Coursera	2019_20	IT Security: Defense against the digital dark arts	15	9
88	Coursera	2019_20	R Programming	15	5
89	Coursera	2019_20	Write Professional Emails in English	14	5
90	Coursera	2019_20	How Google does Machine Learning	14	9
91	Coursera	2019_20	Data Structures	14	4
92	Coursera	2019_20	Learning How to Learn: Powerful mental tools to help you master tough subjects	14	7
93	Coursera	2019_20	Applied Text Mining in Python	14	12
94	Coursera	2019_20	AWS Fundamentals: Building Serverless Applications	14	9
95	Coursera	2019_20	Mathematics for Machine Learning: Linear Algebra	13	3
96	Coursera	2019_20	Introduction to Financial Markets	13	4
97	Coursera	2019_20	Web Design for Everybody Capstone	12	2
98	Coursera	2019_20	Build Your Portfolio Website with HTML and CSS	12	12
99	Coursera	2019_20	Object Oriented Programming in Java	12	2
100	Coursera	2019_20	Introduction to Data Analytics for Business	12	5
101	Coursera	2019_20	Mathematical Thinking in Computer Science	12	3
102	Coursera	2019_20	Excel Skills for Business: Essentials	12	7
103	Coursera	2019_20	Sequences, Time Series and Prediction	11	10
104	Coursera	2019_20	Introduction to Search Engine Optimization	11	5
105	Coursera	2019_20	Build a Simple App in Android Studio with Java	11	9



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106	Coursera	2019_20	Java Programming: Arrays, Lists, and Structured Data	11	2
107	Coursera	2019_20	Operating Systems and You: Becoming a Power User	11	8
108	Coursera	2019_20	Browser-based Models with TensorFlow.js	11	6
109	Coursera	2019_20	Introduction to Structured Query Language (SQL)	11	5
110	Coursera	2019_20	Machine Learning: Regression	11	6
111	Coursera	2019_20	Natural Language Processing with Classification and Vector Spaces	10	6
112	Coursera	2019_20	Programming Fundamentals	10	1
113	Coursera	2019_20	Concurrency in Go	10	8
114	Coursera	2019_20	Applied Social Network Analysis in Python	10	9
115	Coursera	2019_20	Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360	9	4
116	Coursera	2019_20	Web Application Technologies and Django	9	3
117	Coursera	2019_20	Functions, Methods, and Interfaces in Go	9	9
118	Coursera	2019_20	Build Your First Android App (Project-Centered Course)	9	2
119	Coursera	2019_20	Google Cloud Platform Big Data and Machine Learning Fundamentals	9	3
120	Coursera	2019_20	Cybersecurity and the Internet of Things	9	6
121	Coursera	2019_20	Introduction to Virtual Reality	9	5
122	Coursera	2019_20	Trading Basics	9	2
123	Coursera	2019_20	AWS Fundamentals: Migrating to the Cloud	9	8
124	Coursera	2019_20	Initiating and Planning Projects	9	4
125	Coursera	2019_20	Python Functions, Files, and Dictionaries	8	6
126	Coursera	2019_20	Support Vector Machines with scikit-learn	8	7
127	Coursera	2019_20	Understanding and Visualizing Data with Python	8	4

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128	Coursera	2019_20	Fundamentals of Network Communication	8	4
129	Coursera	2019_20	Troubleshooting and Debugging Techniques	8	8
130	Coursera	2019_20	Building Database Applications in PHP	8	4
131	Coursera	2019_20	Python Classes and Inheritance	8	6
132	Coursera	2019_20	Perform Sentiment Analysis with scikit-learn	8	6
133	Coursera	2019_20	Single Page Web Applications with AngularJS	8	1
134	Coursera	2019_20	Introduction to Self-Driving Cars	8	2
135	Coursera	2019_20	Computer Vision - Object Detection with OpenCV and Python	8	7
136	Coursera	2019_20	System Administration and IT Infrastructure Services	8	7
137	Coursera	2019_20	Automating Real-World Tasks with Python	8	7
138	Coursera	2019_20	Configuration Management and the Cloud	8	8
139	Coursera	2019_20	First Step Korean	8	2
140	Coursera	2019_20	Create Your First Chatbot with Rasa and Python	7	5
141	Coursera	2019_20	Introduction to MongoDB	7	1
142	Coursera	2019_20	Image Processing with Python	7	5
143	Coursera	2019_20	C for Everyone: Programming Fundamentals	7	3
144	Coursera	2019_20	Data Visualization and Communication with Tableau	7	1
145	Coursera	2019_20	Machine Learning: Clustering & Retrieval	7	6
146	Coursera	2019_20	Build a Machine Learning Web App with Streamlit and Python	7	6
147	Coursera	2019_20	Clustering Geolocation Data Intelligently in Python	7	4
148	Coursera	2019_20	Computer Vision - Object Tracking with OpenCV and Python	7	7
149	Coursera	2019_20	Digital Marketing Analytics in Theory	7	5



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Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : [principalgst@sies.edu.in](mailto:principalgst@sies.edu.in) / [principal@siesgst.ac.in](mailto:principal@siesgst.ac.in)  
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150	Coursera	2019_20	Responsive Web Design	7	4
151	Coursera	2019_20	Data Collection and Processing with Python	7	7
152	Coursera	2019_20	Project Management: The Basics for Success	7	6
153	Coursera	2019_20	Machine Learning: Classification	7	6
154	Coursera	2019_20	Exploratory Data Analysis	7	5
155	Coursera	2019_20	Introduction to Relational Database and SQL	7	6
156	Coursera	2019_20	Cybersecurity Roles, Processes & Operating System Security	7	4
157	Coursera	2019_20	Device-based Models with TensorFlow Lite	7	5
158	Coursera	2019_20	RESTful API with HTTP and JavaScript	7	5
159	Coursera	2019_20	Natural Language Processing	7	1
160	Coursera	2019_20	Create Your First Game with Python	6	3
161	Coursera	2019_20	Digital Marketing Analytics in Practice	6	5
162	Coursera	2019_20	Natural Language Processing with Probabilistic Models	6	4
163	Coursera	2019_20	Front-End JavaScript Frameworks: Angular	6	1
164	Coursera	2019_20	Basic Image Classification with TensorFlow	6	6
165	Coursera	2019_20	Python Project: pillow, tesseract, and opencv	6	2
166	Coursera	2019_20	Launching into Machine Learning	6	4
167	Coursera	2019_20	Cloud Computing Basics (Cloud 101)	6	4
168	Coursera	2019_20	Object-Oriented Programming with Java	6	5
169	Coursera	2019_20	Exploratory Data Analysis with Seaborn	6	5
170	Coursera	2019_20	Introduction to Typography	6	4
171	Coursera	2019_20	Understanding Financial Markets	6	3



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www.siesgst.edu.in

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172	Coursera	2019_20	3D Model Creation with Autodesk Fusion 360	6	2
173	Coursera	2019_20	Social Psychology	6	1
174	Coursera	2019_20	Excel Skills for Business: Intermediate I	6	3
175	Coursera	2019_20	Cybersecurity and Mobility	6	3
176	Coursera	2019_20	Data Science Math Skills	6	5
177	Coursera	2019_20	Autodesk Fusion 360 Integrated CAD/CAM/CAE	6	6
178	Coursera	2019_20	Intro to Digital Manufacturing with Autodesk Fusion 360	6	6
179	Coursera	2019_20	Database Management Essentials	6	0
180	Coursera	2019_20	End-to-End Machine Learning with TensorFlow on GCP	6	3
181	Coursera	2019_20	Build a Data Science Web App with Streamlit and Python	5	5
182	Coursera	2019_20	Introduction to HTML	5	2
183	Coursera	2019_20	Business Analytics for Decision Making	5	2
184	Coursera	2019_20	Computer Vision - Image Basics with OpenCV and Python	5	5
185	Coursera	2019_20	Data Pipelines with TensorFlow Data Services	5	4
186	Coursera	2019_20	English for Effective Business Speaking	5	1
187	Coursera	2019_20	Design and Analyze Secure Networked Systems	5	1
188	Coursera	2019_20	Image Understanding with TensorFlow on GCP	5	4
189	Coursera	2019_20	Predicting House Prices with Regression using TensorFlow	5	5
190	Coursera	2019_20	Interfacing with the Arduino	5	3
191	Coursera	2019_20	How To Create a Website in a Weekend! (Project-Centered Course)	5	1
192	Coursera	2019_20	Introduction to Game Development	5	2
193	Coursera	2019_20	Introduction to Machine Learning	5	2



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194	Coursera	2019_20	Advanced Deployment Scenarios with TensorFlow	5	4
195	Coursera	2019_20	Python Programming: A Concise Introduction	5	2
196	Coursera	2019_20	Introduction to FPGA Design for Embedded Systems	5	2
197	Coursera	2019_20	Facial Expression Recognition with Keras	5	4
198	Coursera	2019_20	Data-driven Astronomy	5	2
199	Coursera	2019_20	Create Interactive Dashboards with Streamlit and Python	5	5
200	Coursera	2019_20	Multiplatform Mobile App Development with React Native	5	2
201	Coursera	2019_20	Portfolio and Risk Management	5	2
202	Coursera	2019_20	Predict Employee Turnover with scikit-learn	5	4
203	Coursera	2019_20	Introduction to Artificial Intelligence (AI)	5	4
204	Coursera	2019_20	Visualizing Citibike Trips with Tableau	5	5
205	Coursera	2019_20	Building a Calculator using C# in Visual Studio	5	3
206	Coursera	2019_20	Recommendation Systems with TensorFlow on GCP	5	4
207	Coursera	2019_20	Custom Prediction Routine on Google AI Platform	5	5
208	Coursera	2019_20	Getting and Cleaning Data	5	3
209	Coursera	2019_20	Engineering Design Process with Autodesk Fusion 360	4	2
210	Coursera	2019_20	Engineering Project Management: Initiating and Planning	4	1
211	Coursera	2019_20	C++ For C Programmers, Part A	4	1
212	Coursera	2019_20	Web Design: Strategy and Information Architecture	4	0
213	Coursera	2019_20	Predicting Salaries with Simple Linear Regression in R	4	3
214	Coursera	2019_20	Build Your First React Website	4	4
215	Coursera	2019_20	Electric Power Systems	4	3



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Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.  
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www.siesgst.edu.in

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216	Coursera	2019_20	Android App Components - Intents, Activities, and Broadcast Receivers	4	2
217	Coursera	2019_20	Hardware Description Languages for FPGA Design	4	2
218	Coursera	2019_20	Hacking and Patching	4	1
219	Coursera	2019_20	Meeting Investors' Goals	4	3
220	Coursera	2019_20	Design Thinking for Innovation	4	2
221	Coursera	2019_20	Optimizing a Website for Search	4	2
222	Coursera	2019_20	Getting Started with Google Kubernetes Engine	4	1
223	Coursera	2019_20	Work Smarter, Not Harder: Time Management for Personal & Professional Productivity	4	4
224	Coursera	2019_20	Create Your First Python Program	4	4
225	Coursera	2019_20	An Introduction to Interactive Programming in Python (Part 1)	4	2
226	Coursera	2019_20	Digital Systems: From Logic Gates to Processors	4	1
227	Coursera	2019_20	Building Web Applications in Django	4	3
228	Coursera	2019_20	Managing Project Risks and Changes	4	4
229	Coursera	2019_20	Business Metrics for Data-Driven Companies	4	2
230	Coursera	2019_20	Successful Negotiation: Essential Strategies and Skills	4	1
231	Coursera	2019_20	Grammar and Punctuation	4	2
232	Coursera	2019_20	Sequence Models for Time Series and Natural Language Processing	4	4
233	Coursera	2019_20	Digital Media and Marketing Principles	4	3
234	Coursera	2019_20	Welcome to Game Theory	4	1
235	Coursera	2019_20	Fundamentals of Scalable Data Science	4	2
236	Coursera	2019_20	Building Conversational Experiences with Dialogflow	4	3
237	Coursera	2019_20	Supply Chain Logistics	4	3

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Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.  
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238	Coursera	2019_20	3D Printing Applications	4	2
239	Coursera	2019_20	Getting Started with AWS Machine Learning	4	2
240	Coursera	2019_20	Predict Future Product Prices Using Facebook Prophet	4	4
241	Coursera	2019_20	Classify Radio Signals from Space using Keras	4	3
242	Coursera	2019_20	COVID-19 Contact Tracing	4	2
243	Coursera	2019_20	IT Project Management	4	3
244	Coursera	2019_20	Introduction to Data Analysis Using Excel	4	2
245	Coursera	2019_20	Search Engine Optimization Fundamentals	4	3
246	Coursera	2019_20	Network Security & Database Vulnerabilities	4	4
247	Coursera	2019_20	Neural Network Visualizer Web App with Python	4	2
248	Coursera	2019_20	Natural Language Processing with Sequence Models	4	3
249	Coursera	2019_20	Build an E-commerce Dashboard with Figma	4	1
250	Coursera	2019_20	Graphic Design	4	2
251	Coursera	2019_20	Production Machine Learning Systems	4	4
252	Coursera	2019_20	Finance for Non-Financial Professionals	3	3
253	Coursera	2019_20	University Admission Prediction Using Multiple Linear Regression	3	2
254	Coursera	2019_20	Supply Chain Operations	3	2
255	Coursera	2019_20	Predict Sales Revenue with scikit-learn	3	3
256	Coursera	2019_20	Computer Vision Basics	3	2
257	Coursera	2019_20	Cybersecurity Compliance Framework & System Administration	3	3
258	Coursera	2019_20	Industrial IoT on Google Cloud Platform	3	2
259	Coursera	2019_20	Delivery Problem	3	3

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260	Coursera	2019_20	Introduction to solar cells	3	2
261	Coursera	2019_20	Basic Sentiment Analysis with TensorFlow	3	3
262	Coursera	2019_20	Language Classification with Naive Bayes in Python	3	1
263	Coursera	2019_20	Feature Engineering	3	3
264	Coursera	2019_20	Trading Algorithms	3	2
265	Coursera	2019_20	3D Printing Software	3	1
266	Coursera	2019_20	Leadership and Emotional Intelligence	3	3
267	Coursera	2019_20	Art and Science of Machine Learning	3	3
268	Coursera	2019_20	Analyze Box Office Data with Plotly and Python	3	2
269	Coursera	2019_20	Agile Meets Design Thinking	3	2
270	Coursera	2019_20	Version Control with Git	3	1
271	Coursera	2019_20	Communicating Business Analytics Results	3	3
272	Coursera	2019_20	Using JavaScript, JQuery, and JSON in Django	3	2
273	Coursera	2019_20	Unsupervised Machine Learning for Customer Market Segmentation	3	2
274	Coursera	2019_20	Introduction to TensorFlow	3	3
275	Coursera	2019_20	Smart Contracts	3	1
276	Coursera	2019_20	Number Theory and Cryptography	3	3
277	Coursera	2019_20	Statistical Inference	3	2
278	Coursera	2019_20	Digital Media and Marketing Strategies	3	3
279	Coursera	2019_20	Introduction to Satellite Communications	3	2
280	Coursera	2019_20	Music Business Foundations	3	3
281	Coursera	2019_20	NLP: Twitter Sentiment Analysis	3	3

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282	Coursera	2019_20	Generative Design for Additive Manufacturing	3	1
283	Coursera	2019_20	Data Visualization with Plotly Express	3	3
284	Coursera	2019_20	3D Models for Virtual Reality	3	1
285	Coursera	2019_20	Introduction to Graph Theory	3	3
286	Coursera	2019_20	Image Classification with CNNs using Keras	3	2
287	Coursera	2019_20	Linux for Developers	3	1
288	Coursera	2019_20	Principal Component Analysis with NumPy	3	3
289	Coursera	2019_20	Mind Control: Managing Your Mental Health During COVID-19	3	3
290	Coursera	2019_20	Competitive Strategy	3	1
291	Coursera	2019_20	Django Features and Libraries	3	3
292	Coursera	2019_20	Information Security: Context and Introduction	3	2
293	Coursera	2019_20	Getting Started in Google Analytics	3	3
294	Coursera	2019_20	Supply Chain Planning	3	2
295	Coursera	2019_20	Multiple Linear Regression with scikit-learn	3	3
296	Coursera	2019_20	Build a Linear Layout App in Android Studio	3	3
297	Coursera	2019_20	Neural Network from Scratch in TensorFlow	3	3
298	Coursera	2019_20	Simulation Analysis for Mechanical Engineers with Autodesk Fusion 360	3	2
299	Coursera	2019_20	Big Data Integration and Processing	3	1
300	Coursera	2019_20	Penetration Testing, Incident Response and Forensics	3	3
301	Coursera	2019_20	Digital Product Management: Modern Fundamentals	3	1
302	Coursera	2019_20	Introduction to C# Programming and Unity	3	1
303	Coursera	2019_20	Mathematics for Machine Learning: PCA	3	1

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304	Coursera	2019_20	Manufacturing Process with Autodesk Fusion 360	3	2
305	Coursera	2019_20	Digital Manufacturing & Design	3	3
306	Coursera	2019_20	Build a Full Website using WordPress	3	2
307	Coursera	2019_20	Regression Models	3	2
308	Coursera	2019_20	Modern JavaScript: ES6 Basics	3	3
309	Coursera	2019_20	Introduction to Python	3	3
310	Coursera	2019_20	Modeling and Design for Mechanical Engineers with Autodesk Fusion 360	3	2
311	Coursera	2019_20	Combinatorics and Probability	3	2
312	Coursera	2019_20	Introduction to Software Product Management	3	2
313	Coursera	2019_20	Web Application Development with JavaScript and MongoDB	3	2
314	Coursera	2019_20	High-Impact Business Writing	3	2
315	Coursera	2019_20	CAM and Design Manufacturing for Mechanical Engineers with Autodesk Fusion 360	3	2
316	Coursera	2019_20	Java Programming: Principles of Software Design	3	1
317	Coursera	2019_20	Getting Started With Music Theory	3	1
318	Coursera	2019_20	Introduction to Cybersecurity for Business	3	3
319	Coursera	2019_20	Natural Language Processing with Attention Models	3	3
320	Coursera	2019_20	Machine Learning Pipelines with Azure ML Studio	3	3
321	Coursera	2019_20	Image Data Augmentation with Keras	3	3
322	Coursera	2019_20	Mastering Data Analysis in Excel	3	2
323	Coursera	2019_20	Traffic Sign Classification Using Deep Learning in Python/Keras	3	3
324	Coursera	2019_20	Microeconomics Principles	3	1
325	Coursera	2019_20	The Art of Negotiation	3	2

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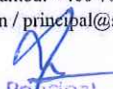


326	Coursera	2019_20	Image and Video Processing: From Mars to Hollywood with a Stop at the Hospital	2	2
327	Coursera	2019_20	Getting Started with SAS Programming	2	1
328	Coursera	2019_20	Git + GitHub for Open Source Collaboration	2	2
329	Coursera	2019_20	The Technology of Music Production	2	2
330	Coursera	2019_20	Social Media Data Analytics	2	1
331	Coursera	2019_20	Sentiment Analysis with Deep Learning using BERT	2	2
332	Coursera	2019_20	Introduction and Programming with IoT Boards	2	2
333	Coursera	2019_20	Communication in the 21st Century Workplace	2	2
334	Coursera	2019_20	State Estimation and Localization for Self-Driving Cars	2	1
335	Coursera	2019_20	Web Application Security Testing with Burp Suite	2	1
336	Coursera	2019_20	Getting Started With Application Development	2	1
337	Coursera	2019_20	Mountains 101	2	1
338	Coursera	2019_20	Reproducible Research	2	2
339	Coursera	2019_20	Business Writing	2	2
340	Coursera	2019_20	Build Multilayer Perceptron Models with Keras	2	2
341	Coursera	2019_20	Responsive Website Tutorial and Examples	2	2
342	Coursera	2019_20	Packet Switching Networks and Algorithms	2	2
343	Coursera	2019_20	Use Canva to Create Social Media Marketing Designs	2	1
344	Coursera	2019_20	Perfect Tenses and Modals	2	1
345	Coursera	2019_20	Effective Problem-Solving and Decision-Making	2	2
346	Coursera	2019_20	Creating a Portfolio	2	1
347	Coursera	2019_20	Introduction to Chemistry: Reactions and Ratios	2	1

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348	Coursera	2019_20	Peer-to-Peer Protocols and Local Area Networks	2	2
349	Coursera	2019_20	Predict Diabetes with a Random Forest using R	2	2
350	Coursera	2019_20	Big Data Modeling and Management Systems	2	1
351	Coursera	2019_20	Medical Diagnosis using Support Vector Machines	2	2
352	Coursera	2019_20	The 3D Printing Revolution	2	1
353	Coursera	2019_20	Create a Resume and Cover Letter with Google Docs	2	2
354	Coursera	2019_20	Image Compression with K-Means Clustering	2	2
355	Coursera	2019_20	Developing Data Products	2	2
356	Coursera	2019_20	Building Candlestick Charts with Google Sheets	2	2
357	Coursera	2019_20	Detecting and Mitigating Cyber Threats and Attacks	2	1
358	Coursera	2019_20	Introduction to Meteor.js Development	2	2
359	Coursera	2019_20	Building Containerized Applications on AWS	2	1
360	Coursera	2019_20	Responsive Website Development and Design Capstone	2	1
361	Coursera	2019_20	Understanding Deepfakes with Keras	2	2
362	Coursera	2019_20	Javascript animation for websites, storytelling, data visualization and games	2	1
363	Coursera	2019_20	Security and Privacy for Big Data - Part 1	2	2
364	Coursera	2019_20	Named Entity Recognition using LSTMs with Keras	2	2
365	Coursera	2019_20	Basic Artificial Neural Networks in Python	2	1
366	Coursera	2019_20	Hierarchical Clustering: Customer Segmentation	2	1
367	Coursera	2019_20	COVID-19: What You Need to Know (CME Eligible)	2	1
368	Coursera	2019_20	Deep Learning Inference with Azure ML Studio	2	2
369	Coursera	2019_20	Cybersecurity Capstone: Breach Response Case Studies	2	2

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370	Coursera	2019_20	Linear Regression with NumPy and Python	2	2
371	Coursera	2019_20	HTML and CSS: Building a Single-Page Website	2	2
372	Coursera	2019_20	Build a Deep Learning Based Image Classifier with R	2	2
373	Coursera	2019_20	Renewable Energy and Green Building Entrepreneurship	2	2
374	Coursera	2019_20	Psychological First Aid	2	1
375	Coursera	2019_20	Image Super Resolution Using Autoencoders in Keras	2	1
376	Coursera	2019_20	Introduction to Thermodynamics: Transferring Energy from Here to There	2	1
377	Coursera	2019_20	Analyze Box Office Data with Seaborn and Python	2	1
378	Coursera	2019_20	Practical Introduction to the Command Line	2	2
379	Coursera	2019_20	Behavioral Investing	2	2
380	Coursera	2019_20	Advanced Trading Algorithms	2	2
381	Coursera	2019_20	The Raspberry Pi Platform and Python Programming for the Raspberry Pi	2	1
382	Coursera	2019_20	Object-Oriented Data Structures in C++	2	1
383	Coursera	2019_20	Introduction to Project Management with ClickUp	2	1
384	Coursera	2019_20	Successful Presentation	2	1
385	Coursera	2019_20	Autodesk Certified Professional: AutoCAD for Design and Drafting Exam Prep	2	1
386	Coursera	2019_20	Python Programming Essentials	2	1
387	Coursera	2019_20	Mathematical Foundations for Cryptography	2	1
388	Coursera	2019_20	Classification Trees in Python, From Start To Finish	2	2
389	Coursera	2019_20	Introduction to Cloud Identity	2	2
390	Coursera	2019_20	Open Source Software Development Methods	2	2



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391	Coursera	2019_20	Classification with Transfer Learning in Keras	2	2
392	Coursera	2019_20	Build a Table Layout App in Android Studio	2	2
393	Coursera	2019_20	Introduction to Intel® Distribution of OpenVINO™ toolkit for Computer Vision Applications	2	2
394	Coursera	2019_20	Managing Security in Google Cloud Platform	2	1
395	Coursera	2019_20	Advanced Manufacturing Process Analysis	2	2
396	Coursera	2019_20	Statistical Data Visualization with Seaborn	2	2
397	Coursera	2019_20	Mathematics for Machine Learning: Multivariate Calculus	2	1
398	Coursera	2019_20	Cyber Threat Intelligence	2	2
399	Coursera	2019_20	Finding Purpose and Meaning In Life: Living for What Matters Most	2	1
400	Coursera	2019_20	Build a Persistent Storage App in Android Studio	2	2
401	Coursera	2019_20	Build a Relative Layout App in Android Studio	2	1
402	Coursera	2019_20	Creativity And Entrepreneurship	2	2
403	Coursera	2019_20	Intelligent Machining	2	2
404	Coursera	2019_20	Data Science Capstone	2	2
405	Coursera	2019_20	API Design and Fundamentals of Google Cloud's Apigee API Platform	2	1
406	Coursera	2019_20	Intel® Network Academy - Network Transformation 101	2	1
407	Coursera	2019_20	Support Vector Machines in Python, From Start to Finish	2	1
408	Coursera	2019_20	Support Vector Machine Classification in Python	2	2
409	Coursera	2019_20	TCP/IP and Advanced Topics	2	1
410	Coursera	2019_20	Perform Real-Time Object Detection with YOLOv3	2	2
411	Coursera	2019_20	Science of Exercise	2	1
412	Coursera	2019_20	Logistic Regression with NumPy and Python	2	2

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413	Coursera	2019_20	Preparing to Manage Human Resources	2	1
414	Coursera	2019_20	Compare Stock Returns with Google Sheets	2	2
415	Coursera	2019_20	Finance for Everyone: Decisions	2	1
416	Coursera	2019_20	Global Environmental Management	2	2
417	Coursera	2019_20	Copyright Law in the Music Business	2	2
418	Coursera	2019_20	Excel Skills for Business: Intermediate II	2	1
419	Coursera	2019_20	Introduction to Javascript: The Basics	2	1
420	Coursera	2019_20	VLSI CAD Part I: Logic	2	1
421	Coursera	2019_20	An Introduction to Interactive Programming in Python (Part 2)	2	1
422	Coursera	2019_20	Programming in C#: A comprehensive approach to C# Fundamentals	2	2
423	Coursera	2019_20	Algorithmic Thinking (Part 2)	2	1
424	Coursera	2019_20	Investment Strategy	2	1
425	Coursera	2019_20	Spreadsheets for Beginners using Google Sheets	2	1
426	Coursera	2019_20	Practical Machine Learning	2	2
427	Coursera	2019_20	Tricky American English Pronunciation	2	1
428	Coursera	2019_20	Introduction to Project Management	2	1
429	Coursera	2019_20	Visual Machine Learning with Yellowbrick	2	2
430	Coursera	2019_20	Intermediate Relational Database and SQL	2	2
431	Coursera	2019_20	Building Your Career in Music: Developing A Brand and Funding Your Music	2	2
432	Coursera	2019_20	Pro Tools Basics	2	2
433	Coursera	2019_20	Introduction to Complex Analysis	1	1



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434	Coursera	2019_20	Secure Networked System with Firewall and IDS	1	1
435	Coursera	2019_20	The Holocaust - An Introduction (I): Nazi Germany: Ideology, The Jews and the World	1	1
436	Coursera	2019_20	From the Big Bang to Dark Energy	1	1
437	Coursera	2019_20	Introduction to Google Docs	1	1
438	Coursera	2019_20	Software Defined Networking	1	1
439	Coursera	2019_20	Business of Games and Entrepreneurship	1	1
440	Coursera	2019_20	Build Your First React Website (Part II)	1	1
441	Coursera	2019_20	Emotion AI: Facial Key-points Detection	1	1
442	Coursera	2019_20	Supply Chain Sourcing	1	1
443	Coursera	2019_20	Classical Cryptosystems and Core Concepts	1	1
444	Coursera	2019_20	Hiring and Onboarding Employees with ClickUp	1	1
445	Coursera	2019_20	The Fundamentals of Computing Capstone Exam	1	1
446	Coursera	2019_20	Principles of Computing (Part 2)	1	1
447	Coursera	2019_20	Distributed Computing with Spark SQL	1	1
448	Coursera	2019_20	Budgeting and Scheduling Projects	1	1
449	Coursera	2019_20	Protecting Business Innovations via Copyright	1	1
450	Coursera	2019_20	Algorithmic Thinking (Part 1)	1	1
451	Coursera	2019_20	2020	1	1
452	Coursera	2019_20	Finance for Everyone: Debt	1	1
453	Coursera	2019_20	Preparing for the Google Cloud Professional Cloud Architect Exam	1	1
454	NPTTEL	2019_20	Programming, Data Structures and Algorithms Using Python	7	7
455	NPTTEL	2019_20	Problem Solving through Programming in C	1	1

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456	NPTEL	2019_20	Data Base Management System	5	5
457	NPTEL	2019_20	Introduction to Machine Learning	6	6
458	NPTEL	2019_20	Discrete Mathematics	1	1
459	NPTEL	2019_20	Ethical Hacking	2	2
461	NPTEL	2019_20	Programming In Java	2	2
462	NPTEL	2019_20	Introduction to learning analytics	1	1
463	NPTEL	2019_20	Operations Research	2	2
464	NPTEL	2019_20	Product Design using Value Engineering	1	1
465	NPTEL	2019_20	Manufacturing Automation	2	2

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**List of No. of Certificate/Add on Programs Year 2018-19**

Sr.no	Branch	Academic Year	Name of Add on /Certificate programs offered	Number of students enrolled	Number of students passed
466	EXTC	2018-19	SITIP 2018 Embedded systems and IoT	34	34
467	IT	2018-19	Machine Learning with R	20	13
468	IT	2018-19	Machine Learning with Python	30	28
469	Mech	2018-19	PLC Programming From Scratch	15	15
470	NPTEL	2018-19	Novel Technologies for Food Processing and Shelf Life Extension	1	1
471	NPTEL	2018-19	Programming in Java	11	11
472	NPTEL	2018-19	Programming, Data Structures and Algorithms using Python	3	3
473	NPTEL	2018-19	Joy of computing using Python	5	5
474	NPTEL	2018-19	Data Science for Engineers	1	1
475	NPTEL	2018-19	Data Mining	1	1
476	NPTEL	2018-19	Embedded System Design with ARM	3	3
477	NPTEL	2018-19	Introduction to Soft Computing	1	1
478	NPTEL	2018-19	Privacy and Security in Online Social Media	1	1
479	NPTEL	2018-19	Cryptography and Network Security	1	1
480	NPTEL	2018-19	Introduction to Internet of Things	1	1
481	NPTEL	2018-19	Introduction to Industry 4.0 and Industrial Internet of Things	2	2
482	NPTEL	2018-19	Machine Learning, ML	1	1
483	NPTEL	2018-19	Fundamentals of semiconductor devices	1	1
484	NPTEL	2018-19	Antennas	2	2



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485	NPTEL	2018-19	CMOS Digital VLSI Design	2	2
486	NPTEL	2018-19	Introduction to Coding Theory	1	1
487	NPTEL	2018-19	Effective Engineering Teaching In Practice	1	1
488	NPTEL	2018-19	Teaching And Learning in Engineering (TALE)	2	2
489	NPTEL	2018-19	Fuzzy Logic and Neural Networks	1	1
490	NPTEL	2018-19	Roadmap for patent creation	5	5
491	NPTEL	2018-19	Patent Drafting for Beginners	8	8
492	NPTEL	2018-19	Emotional Intelligence	1	1
493	NPTEL	2018-19	Enhancing Soft Skills and Personality	1	1
494	NPTEL	2018-19	Feminist Writings	1	1
495	NPTEL	2018-19	Managing Intellectual Property in Universities	1	1
496	NPTEL	2018-19	Transform Calculus and its applications in Differential Equations	1	1
497	NPTEL	2018-19	Product Design and Development	2	2
498	NPTEL	2018-19	Inspection and Quality Control in Manufacturing	1	1
499	NPTEL	2018-19	Manufacturing Strategy	1	1
500	NPTEL	2018-19	Design Thinking - A Primer	1	1
501	NPTEL	2018-19	A brief course on Superconductivity	1	1
502	NPTEL	2018-19	Engineering Thermodynamics	2	2
503	NPTEL	2018-19	Design of fixed wing Unmanned Aerial Vehicles	1	1
504	NPTEL	2018-19	Computer Architecture	2	2
505	NPTEL	2018-19	Problem Solving through Programming in C	4	4
506	NPTEL	2018-19	Programming in C++	5	5



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Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.  
Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in  
www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY  
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507	NPTEL	2018-19	Introduction to Programming in C	1	1
508	NPTEL	2018-19	Data Base Management Systems	8	8
509	NPTEL	2018-19	Design and Analysis of Algorithms	1	1
510	NPTEL	2018-19	Computer Networks and Internet Protocol	1	1
511	NPTEL	2018-19	Introduction to Machine Learning	2	2
512	NPTEL	2018-19	Deep Learning	3	3
513	NPTEL	2018-19	Cloud Computing	1	1
514	NPTEL	2018-19	Blockchain Architecture Design and Use Cases	2	2
515	NPTEL	2018-19	Hardware modeling using verilog	3	3
516	NPTEL	2018-19	Artificial Intelligence: Search Methods for problem Solving	1	1
517	NPTEL	2018-19	Introduction to R Software	2	2
518	NPTEL	2018-19	Product Design and Innovation	3	3
519	NPTEL	2018-19	Principles of Digital Communications	1	1
520	NPTEL	2018-19	Digital Image Processing	1	1
521	NPTEL	2018-19	Introduction to Research	4	4
522	NPTEL	2018-19	Stress Management	1	1
523	NPTEL	2018-19	Developing Soft Skills and Personality	1	1
524	NPTEL	2018-19	Cognition, Transformation and Lives	1	1
525	NPTEL	2018-19	Matrix Solver	1	1
526	NPTEL	2018-19	Laws of thermodynamics	1	1
527	NPTEL	2018-19	Processing of Polymers and Polymer Composites	1	1
528	NPTEL	2018-19	Robotics	9	9



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Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.  
Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in  
www.siesgst.edu.in

Principal

**S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY**  
PLOT 10/L/15, SECTOR V, NERUL, NAVI MUMBAI, MUMBAI-400706.  
TELEPHONE: 6108 2400, 6108 2402, 2771 8779



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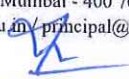
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529	NPTEL	2018-19	Leadership	1	1
530	NPTEL	2018-19	Marketing Management-I	1	1
531	NPTEL	2018-19	Sustainability through Green Manufacturing Systems: An Applied Approach	1	1
532	NPTEL	2018-19	Structural Analysis of Nanomaterials	1	1



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Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.  
Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : [principalgst@sies.edu.in](mailto:principalgst@sies.edu.in) / [principal@siesgst.ac.in](mailto:principal@siesgst.ac.in)  
[www.siesgst.edu.in](http://www.siesgst.edu.in)

  
Principal  
S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY  
PLOT 10/L/5, SECTOR V, NERUL, NAVI MUMBAI - 400 706  
SECTOR V, NERUL, NAVI MUMBAI - 400 706.



**List of No. of Certificate/Add on Programs Year 2017-18**

Sr.no	Branch	Academic Year	Name of Add on /Certificate programs offered	Number of students enrolled	Number of students passed
533	IT	2017-18	Advanced Java	8	8
534	IT	2017-18	Python Programming	30	30
535	IT	2017-18	Designing and Managing Database	7	7
536	Mech	2017-18	PLC Programming From Scratch	20	20
537	NPTEL	2017-18	Introduction to Modern Application Development	1	1
538	NPTEL	2017-18	Cryptography and Network Security	1	1
539	NPTEL	2017-18	Introduction to Internet of Things	2	2
540	NPTEL	2017-18	Database Management System	2	2
541	NPTEL	2017-18	An Introduction to Probability in Computing	1	1
542	NPTEL	2017-18	Information Security - IV	2	2
543	NPTEL	2017-18	Programming, Data Structures and Algorithms using C	2	2
544	NPTEL	2017-18	Data Science for Engineers	1	1
545	NPTEL	2017-18	Machinery Fault Diagnosis and Signal Processing	1	1
546	NPTEL	2017-18	Engineering Thermodynamics	1	1
547	NPTEL	2017-18	Combustion in air breathing aero engines	1	1
548	NPTEL	2017-18	Biomedical nanotechnology	1	1
549	NPTEL	2017-18	Phase equilibrium thermodynamics	1	1
550	NPTEL	2017-18	Hardware modeling using verilog	1	1
551	NPTEL	2017-18	Introduction to internet of things	2	2



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Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.  
Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in  
www.siesgst.edu.in

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552	NPTEL	2017-18	Cloud computing	3	3
553	NPTEL	2017-18	Programming in C++	1	1
554	NPTEL	2017-18	Introduction to Machine Learning	1	1
555	NPTEL	2017-18	Programming, data structures and algorithms using python	6	6
556	NPTEL	2017-18	Software testing	1	1
557	NPTEL	2017-18	Fundamentals of Database Systems	2	2
558	NPTEL	2017-18	Introduction to Modern Application Development	1	1
559	NPTEL	2017-18	Analog Circuits and Systems through SPICE Simulation	2	2
560	NPTEL	2017-18	Control engineering	1	1
561	NPTEL	2017-18	Design for internet of things	1	1
562	NPTEL	2017-18	Introduction to research	3	3
563	NPTEL	2017-18	Visual Perception and Art: A Survey Across the Cultures	1	1
564	NPTEL	2017-18	Introduction to R Software	2	2
565	NPTEL	2017-18	Fundamentals of manufacturing processes	1	1
566	NPTEL	2017-18	Sustainability through Green Manufacturing Systems: An Applied Approach	1	1
567	NPTEL	2017-18	Processing of Polymers and Polymer Composites	3	3
568	NPTEL	2017-18	Patent Law for Engineers and Scientists	1	1
569	NPTEL	2017-18	Marketing research and analysis	8	8
570	NPTEL	2017-18	Introduction to Data Analytics	2	2
571	NPTEL	2017-18	Manufacturing Systems Technology I & II	1	1
572	NPTEL	2017-18	Spur and helical gear cutting	1	1
573	NPTEL	2017-18	Laws of thermodynamics	1	1



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Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in  
www.siesgst.edu.in

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**List of No. of Certificate/Add on Programs Year 2016-17**

Sr.no	Branch	Academic Year	Name of Add on /Certificate programs offered	Number of students enrolled	Number of students passed
574	NPTEL	2016-17	Introduction to Airplane Performance	3	3
575	NPTEL	2016-17	Engineering Thermodynamics	1	1
576	NPTEL	2016-17	Human Molecular Genetics	4	4
577	NPTEL	2016-17	Introduction to Biostatistics	2	2
578	NPTEL	2016-17	Computational Fluid Dynamics	2	2
579	NPTEL	2016-17	Internetwork Security	1	1
580	NPTEL	2016-17	AI:Knowledge Representation and Reasoning	1	1
581	NPTEL	2016-17	Embedded Systems Design	1	1
582	NPTEL	2016-17	Introduction to Modern Application Development	3	3
583	NPTEL	2016-17	Wireless Ad Hoc and Sensor Networks	3	3
584	NPTEL	2016-17	Information Security-3	2	2
585	NPTEL	2016-17	Design and Analysis of Algorithms	2	2
586	NPTEL	2016-17	Programming, Data Structures and Algorithms using Python	4	4
587	NPTEL	2016-17	AI:Constraint Satisfaction	1	1
588	NPTEL	2016-17	Computer Architecture	2	2
589	NPTEL	2016-17	Introduction to Machine Learning	2	2
590	NPTEL	2016-17	Basic Electronics	2	2
591	NPTEL	2016-17	Antennas	1	1



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Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.

Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in

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592	NPTEL	2016-17	Foundations of Wavelets and Multirate Digital Signal Processing	2	2
593	NPTEL	2016-17	Probability and Random Variables/ Processes for Wireless Communications	5	5
594	NPTEL	2016-17	Analog Circuits	2	2
595	NPTEL	2016-17	Introduction to Research	10	10
596	NPTEL	2016-17	Enhancing Soft Skills and Personality	1	1
597	NPTEL	2016-17	Mathematical Methods and its Applications	2	2
598	NPTEL	2016-17	Manufacturing Process Technology I & II	1	1
599	NPTEL	2016-17	Introduction to Mechanical Vibration	1	1
600	NPTEL	2016-17	Steam and Gas Power Systems	1	1
601	NPTEL	2016-17	Product Design and Development	4	4
602	NPTEL	2016-17	Introduction to Operations Research	1	1
603	NPTEL	2016-17	Principles of Human Resource Management	1	1
604	NPTEL	2016-17	Analysis and Modeling of Welding	1	1
605	NPTEL	2016-17	Engineering Thermodynamics	2	2
606	NPTEL	2016-17	Aircraft Dynamic Stability & Design Stability Augmentation System	1	1
607	NPTEL	2016-17	Interactomics: Protein Arrays & Label-free Biosensors	5	5
608	NPTEL	2016-17	Introduction to proteomics	1	1
609	NPTEL	2016-17	Artificial Intelligence: Search Methods for Problem Solving	1	1
610	NPTEL	2016-17	Programming, Data Structures and Algorithms in Python	4	4
611	NPTEL	2016-17	Programming in C++	1	1
612	NPTEL	2016-17	Introduction to Modern Application Development	1	1
613	NPTEL	2016-17	Fundamental Algorithms: Design and Analysis	2	2



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Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.  
Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in  
www.siesgst.edu.in

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**S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY**  
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614	NPTEL	2016-17	Basic Building Blocks of Microwave Engineering	1	1
615	NPTEL	2016-17	Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications	3	3
616	NPTEL	2016-17	Basic Electrical Circuits	3	3
617	NPTEL	2016-17	Biology for engineers and other non-biologists	1	1
618	NPTEL	2016-17	How the Brain Creates Mind	1	1
619	NPTEL	2016-17	Economics of IPR	1	1
620	NPTEL	2016-17	Introduction to Psychology	1	1
621	NPTEL	2016-17	Developing Soft Skills and Personality	4	4
622	NPTEL	2016-17	Understanding Design Thinking & People Centred Design	1	1
623	NPTEL	2016-17	Basics of Finite Element Analysis - II	1	1
624	NPTEL	2016-17	Basics of Finite Element Analysis - I	2	2
625	NPTEL	2016-17	Two phase flow and heat transfer	2	2
626	NPTEL	2016-17	Refrigeration and air-conditioning	6	6
627	NPTEL	2016-17	Fluid Dynamics and Turbomachines	4	4
628	NPTEL	2016-17	Advanced Machining Processes	2	2
629	NPTEL	2016-17	Nature and Property of Materials	2	2
630	NPTEL	2016-17	Fluid Machines	3	3
631	NPTEL	2016-17	Variational Methods in Mechanics	1	1
632	NPTEL	2016-17	Computer numerical control CNC of machine tools and processes	1	1
633	NPTEL	2016-17	Theory and Practice of Non Destructive Testing	1	1



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Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.  
Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in  
www.siesgst.edu.in

Principal

**S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY**  
PLOT 10/1, SECTOR V, NERUL, NAVI MUMBAI, SRI CHANDRASEKARENDRASARASWATHY VIDYAPURAM  
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### List of No. of Certificate/Add on Programs Year 2015-16

Sr.no	Branch	Academic Year	Name of Add on /Certificate programs offered	Number of students enrolled	Number of students passed
634	NPTEL	2015-16	Introduction to Airplane Performance	2	2
635	NPTEL	2015-16	Mass spectrometry based proteomics	1	1
636	NPTEL	2015-16	Human Molecular Genetics	2	2
637	NPTEL	2015-16	MATLAB Programming for Numerical Computation	7	7
638	NPTEL	2015-16	Introduction to process modeling in membrane separation process	1	1
639	NPTEL	2015-16	Information Security- II	2	2
640	NPTEL	2015-16	Introduction to Machine Learning	1	1
641	NPTEL	2015-16	Design and Analysis of Algorithms	3	3
642	NPTEL	2015-16	An introduction to Haskell Programming	1	1
643	NPTEL	2015-16	Programming, Data Structures and Algorithms	5	5
644	NPTEL	2015-16	Biochemistry	1	1
645	NPTEL	2015-16	Estimation for Wireless Communications MIMO (or) OFDM Cellular and Sensor Networks	1	1
646	NPTEL	2015-16	Technical English for Engineers	1	1
647	NPTEL	2015-16	Health research fundamentals	1	1
648	NPTEL	2015-16	Discrete Mathematics	2	2
649	NPTEL	2015-16	Basics of Finite Element Analysis-I	5	5
650	NPTEL	2015-16	Manufacturing Process Technology - Part I	2	2
651	NPTEL	2015-16	Fundamentals of Gas Dynamics	1	1
652	NPTEL	2015-16	Experimental Stress Analysis - An Overview	2	2



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Sri Chandrasekarendra Saraswati Vidyapuram, Sector V, Nerul, Navi Mumbai - 400 706.  
Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in  
www.siesgst.edu.in

Principal

S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY  
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653	NPTEL	2015-16	Marketing Management-I	1	1
654	NPTEL	2015-16	Fundamentals of electronic materials and devices	2	2
655	NPTEL	2015-16	Fundamentals of optical and scanning electron microscopy	3	3
656	NPTEL	2015-16	HSE for offshore and petroleum engineers - Practices	2	2
657	NPTEL	2015-16	Introduction to Nonlinear Dynamics	3	3
658	NPTEL	2015-16	Manufacturing systems technology part II	3	3



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Tel: 6108 2400 / 6108 2402 • Fax : 2771 8779 • E-mail : principalgst@sies.edu.in / principal@siesgst.ac.in  
www.siesgst.edu.in

Principal  
S.I.E.S. GRADUATE SCHOOL OF TECHNOLOGY  
PLOT 1CA, 5, ST. ...  
SECTOR-V ...