

**VIGNAN'S**

Foundation for Science, Technology & Research

(Deemed to be University)

-Estd. u/s 3 of UGC Act 1956

List of Value Added Courses : AY 2022-23

S. No.	Title of the Value Added Courses
1	Ethical Hacking
2	Object Oriented Programming Principles
3	Big Data Analytics
4	Biometrics
5	Advanced Programming Skills C&Ds
6	Oracle Java Certified Programmer
7	Mobile Computing
8	Emerging Technologies
9	Networking Administration and Trouble Shooting
10	Statistics using Python
11	Search Engines
12	Competitive Programing
13	R-Programming
14	Machine Vision
15	AWS Technical Essentials
16	Game Theory
17	Neural Networks
18	Deep Learning
19	Image Processing
20	Deep Learning
21	Excel for Chemical Engineers
22	Heat Exchanger Design and Simulation
23	Solving Material Balance Equations using Excel
24	Arduino and Interfacing to Different Devices
25	Green Energies
26	Latest Technologies in Green Energy
27	Solar Technologies
28	An Art of Cross Examination
29	An Introduction to Debating
30	Client Counselling in Law
31	Introduction to Mock Trial
32	Introduction to Mooting Skills
33	Role of Ethics in Reducing Crime
34	Work over operations in Oil & Gas Fields
35	Web Designing & Development

36	Data Analysis using SPSS-I
37	Tally for Managers
38	Basics of MS Excel
39	Advance Excel for Data Analysis
40	Advance MS Office For Managerial Decisions
41	Excel Dashboards and Reports
42	Statistical Analysis using SPSS-II
43	Accounting using Tally
44	Statistical Computation using SPSS
45	Corporate Skills for Managers
46	Data Structure in Medical Applications
47	Hands on experience with Medical Ultrasound Scanning Devices
48	Hands on training in Diagnostic upper GI Endoscopy
49	Edge Computing and its Applications
50	Advanced Data Structure and Programming
51	Augmented Reality and Virtual Reality
52	Introduction to 5G Networks
53	Autonomous Vehicles
54	Cyber Security Fundamentals
55	Digital Marketing
56	Flutter for Mobile Application Development
57	Knowledge Representation and Reasoning
58	Personal Assistive Robotics
59	Introduction to Quantum Computing
60	Search and Information Retrieval
61	Software Tools for Testing
62	Case studies on Cyber Security Threats
63	Cyber Threat Intelligence
64	T Regulatory Cell Therapy for Cancer
65	Design of Customized Probiotics
66	Bioremediation Strategies for Purification of Waste Water
67	Computational Analysis of DEGs in Prostate Cancer
68	Modeling of Drugs Against Black Fungus
69	Design of New Vaccine Candidate against Pneumonia - An in-silico Study
70	Biomarker Discovery using in Silico Tools against Communicable Diseases
71	In Silico Study for Analysis of DEGs in Breast Cancer
72	Reverse Vaccinology Studies on UTIs
73	Hands-On Training on Designing and Weaving Using DB Weave Software
74	Kalamkari and Block Printing
75	Training on Screen Printing and Resist Style Printing
76	Automotive Product Design using CATIA V5
77	Industrial Part Modelling using Fusion 360
78	Advanced Welding Technology
79	Arduino Robotics: Building and Programming Robots
80	Surface Design using CATIA V5

81	Basics of AutoCAD & its Applications
82	Analysis and Structural Design using ETABS
83	Rivet for Architectural Modelling & Structural Design
84	Structural Health Monitoring
85	A practical Workshop on Material Characterization Techniques
86	Hands-On Training on Characterization of Materials
87	The Art of Scientific Dialogue: Communication Skills for Chemistry Students
88	Machine Learning Approaches for Construction of QSAR
89	Molecular Modeling studies for Drug Candidate Prediction Against Fungal Infections
90	An Introductory Course on the Art of Rhetoric
91	Fundamentals of Attentive Listening
92	Developing Metacognitive Skills for Improving Reading Comprehension
93	A Course on Making Effective Presentations with PPT
94	A Course on Writing Skills for Work Place Correspondence
95	Enhancing Food Safety and Standards in Food Industries
96	HACCP in Food Industries
97	Importance of Food Quality & Fostac in Food Processing Industries
98	Sustainable Development Goals in Food Industry
99	Materials for Electronic Devices
100	Basic Advanced Public Speaking
101	Advanced Public Speaking
102	Cambridge PET Preparatory Class for International Students
103	English Foundation Course for International Students
104	Fundamentals of Good Laboratory Practices
105	Laboratory Animal Experimentations
106	In-silico Tools for Chemical/Biological Applications
107	Fundamentals of Laboratory Animal Experimentations
108	Statistical Analysis Software (SAS) in Biomedical Research
109	Numerical Methods with WX Maxima
110	Basics of Linear Algebra
111	Basics of Numerical Analysis
112	Introduction to Graph Theory
113	Introduction to Number Theory
114	Automated Machine Learning
115	Data Science Applications
116	Cluster Analysis
117	Customer Relationship Management
118	Plastic Waste Management
119	Water Conservation Strategies
120	Applications of UV-Vis and FT-IT Techniques in Biotechnology
121	Integrated Use of UV-Vis and FT-IR Techniques in Pharmaceuticals, Agriculture, And Food Tech
122	Effective Communication Skills for Chemistry Students
123	Applications of Drones in Agriculture

124	Extreme Precipitation Changes and its Implications in the Indian Subcontinent
125	Role of Mechanization in Agriculture
126	Role of Micro Irrigation in Precision Agriculture
127	Application of AutoCAD in Farm Machinery
128	Analysis of Semiconductor Devices : Modeling & Simulation
129	EM Theory And Design of Transmission Line-Modelling And Performance
130	RF Components Modeling And Antenna Design
131	RF Passive and Active Components Design
132	Embedded Systems Programming for Industrial Applications
133	Exploring MATLAB for Digital Image Retrieval using Machine Learning Techniques
134	Wavelets and Filter Banks for Image Processing
135	Machine Learning and Data Science using Python
136	Challenges and Advances in VLSI Design for Signal Processing And AI/ML Applications
137	Computer Vision with Deep Learning
138	5G And Beyond
139	μ C/OS-II and ARM Cortex-M3
140	Verification using System Verilog
141	Dragon Fruit Dynamics: Mastering Propagation and Orchestrating Orchard Excellence
142	Eco Design Landscapes with AutoCAD
143	Kitchen Gardening Essentials: Growing Your Own Fresh Produce