

**VIGNAN'S**

Foundation for Science, Technology & Research

(Deemed to be University)

-Estd. u/s 3 of UGC Act 1956

Date:01-07-2020

The Following are the list of Value added courses offered across all programmes during the last five Academic Years (A.Y 2015-16 to 2019-20).

S. No.	Name of the Value Added Course
1	Hands on Experience in CNC machining
2	Hands on Experience in Different welding Techniques
3	Electrical Wiring Techniques
4	Micro irrigation systems in Agriculture
5	Hands on Experience in CNC Machining (Advanced Level)
6	Industrial Automation with PLC programming
7	Hands on Experience in Different Welding Techniques
8	Solid Edge Modeling and design
9	House Wiring Techniques
10	Gene Amplification
11	Immunization of chicken and IgY extraction
12	Phytochemical Analysis from Medicinal Plants
13	Populations, Gene Frequencies and Equilibrium
14	Enhanced production of secondary metabolites using in-vitro techniques
15	Algal Cultivation for Metabolite Production
16	Biochemical and Molecular Characterization of Staphylococcus aureus
17	Industrial Methods for Enzyme Technology
18	Isolation and characterization of soil microorganism
19	Structural Bioinformatics
20	Textiles in sportswear
21	Color and color measurement instruments for textile applications
22	Retail Management and Merchandising
23	Reach Pattern Making and Fashion CAD
24	Auto CAD for Chemical Engineers
25	Chemical Process Flowsheeting
26	Recent trends in nanotechnology and nanomaterials
27	Advancement of hybrid or integrated membrane technology in Chemical Engineering
28	Analysis of agro-chemical residues in processed food sample
29	Baking
30	Developing Ideas, Innovative Thinking and Entrepreneurial Ability
31	Importance of different food safety regulations in food industry

32	Industrial dairy processing
33	Industrial food safety and maintenance
34	Design software Auto CAD and its importance in the Oil & Gas Industry
35	Data science and AI applications in the oil & gas industry
36	Python applications in the oil & gas industry
37	IOT applications in the oil & gas industry
38	PCB (Software & Hardware)
39	PLC (Software & Hardware)
40	Foundation & Expert level Training in Refrigeration and Air Conditioning systems
41	Expert level Training in trouble shooting of home appliances
42	E-Vehicle design
43	Autonomous Robotics
44	PYTHON programming
45	IOT technology
46	Cloud computing_101 (Amazon Web Services)
47	Block Chain & its applications
48	Scala
49	Tableau
50	Data Science and its applications
51	The NodeJS Code lab
52	Game development using build box
53	Internet of Things for industry 4.0
54	Google android Development fundamentals
55	MS excel
56	HTML
57	Tally ERP 9
58	Web Designing
59	Hands on Experience in Welding (Foundation Level)
60	Manufacturing Drawing in AutoCAD
61	3D Modelling in Solid Edge
62	Manufacturing CNC (Basic level)
63	Industrial Refrigeration and Air-Conditioning
64	Basic level Modelling in CATIA
65	Welding (advanced level)
66	Advanced level Modelling in CATIA
67	Expert level Modelling in CATIA
68	Composite Material Fabrication and Characterization
69	Modelling in Fusion 360
70	Introduction to good laboratory practice
71	Quality guidelines of good laboratory practice
72	Safety and efficiency guidelines of good laboratory practice
73	Foundation Level Training on Office and ICT Electronics

74	Refrigeration and Air Conditioning Foundation
75	Foundation-Basics of Electronics
76	Electrical Home Foundation
77	Analysis and Design of Structures using ETABS
78	Non-Linear Modelling of Structures
79	Building Drafting using AutoCAD
80	Rivet for Structural Design
81	English proficiency course for international students cambridge pet preparatory class
82	Special English Proficiency Course for Bihar Students
83	CI/ CD with Jenkins
84	Data Analytics and Visualization using Tableau
85	Data Analytics using Python
86	Devops on AWS
87	Hybrid Web Application Design & Development using Angular
88	Microsoft Dynamics Customers Relation Management 365 Tool
89	Power BI Reporting
90	Robotic Processing Automation using Python
91	Web Application Design & Development using Laravel
92	Importance of Python Programming for medical Applications
93	Importance of EMC in Product Testing
94	Testing and Calibration of Medical Devices
95	EMC Compliance Testing for Medical Devices
96	Mechine Learning and Aritifical Intelligence
97	Introduction to Matlab
98	Pcb layout design using proteus ARES
99	ANSYS HFSS
100	Winter Scool on Advances in Remote sensing and its Applications
101	Digital System Design
102	IEEE Student Zonal Congress
103	Student Professional Awareness
104	Hands on Experience in CNC machining
105	Hands on Experience in Different welding Techniques
106	House Wiring Techniques
107	Applications of Micro irrigation systems in Agriculture
108	CNC Programming
109	Basic level Modelling in CATIA
110	Basic level modelling Auto CAD
111	Hands on Advanced Surface design by CATIA
112	Molecular biology Techniques
113	Immunization, Immuno-Diffusion and Epitope Prediction

114	ex-situ conservation of Medicinal Plants and qualitative analysis of secondary metabolites
115	Bioinformatics tools
116	Plant Tissue culture
117	Animal Cell Culture Methods and Practices
118	Microbial Techniques
119	CRISPR: A Genome Editing Tool
120	Drug Design
121	Online monitoring systems in textile industry
122	Advances in Spinning Technologies
123	Plasma technology in textile finishing
124	Process Parameters in Spinning Machinery
125	Advanced enhanced Oil recovery Technology
126	Bioremediation and advanced oxidation process for different industrial waste water treatment
127	Aspen Plus: Chemical Engineering application
128	Recent advancement on separation technology
129	Aspen Hands on Training Program
130	Development of Non-Gluten based Bakery Products
131	Image processing as an advanced technology to monitor food quality
132	Application of membrane technology in fruit juice processing and preservation
133	Spectroscopic Methods of Food Analysis and Characterization
134	Wine Tasting: testing of the sensorial properties of wine and quality characteristics
135	Fundamentals of Enhanced Oil Recovery
136	Oil and Gas Safety Engineering
137	Economics of Worldwide Petroleum Production
138	Operational Safety and Health Administration
139	Oil Field Development
140	Advanced IoT Applications
141	Advanced Wireless Communication
142	Internet of Things
143	Data Structures
144	Google Android App Developer
145	Image Processing and Deep Learning
146	Problem Solving Skills Through Programing in C
147	Problem Solving Skills Through Programing in C
148	Foundation level training on Electronics Home laboratory
149	Foundation level training on Electrical Home laboratory
150	PLC Programming
151	Basic of switched mode power conversion
152	Programming language through C
153	ARDUINO Programming

154	Raspberry Pi
155	Electrical CADD
156	Solar panel Modeling & installation
157	Problem Solving Skills using C
158	Python for Everybody
159	Progressive Web Apps
160	Web Application Development using PHP and Mysql
161	IoT and Its Applications
162	Software Testing Methodologies
163	Web Application Development using Mongodb and Angular JS
164	Google Android Development Fundamentals
165	Programming Contest and Challenges
166	IoT Using Raspberry Pi
167	Advanced Excel
168	Financial Analysis Using Tally
169	Basics of MS-Excel
170	Statistical Package for Social Sciences
171	TALLY ERP 9
172	Web Development
173	Basic Level Modelling AutoCAD
174	CNC (Basic level)
175	Welding Practice
176	CNC (Expert level)
177	Solid Edge
178	Fusion 360
179	Welding (Foundation Level)
180	Refrigeration and Air-Conditioning
181	Introduction To Computer Applications in Pharmacy
182	Introduction to Good Manufacturing Practices
183	Introduction to Intellectual Property Rights
184	Foundation Level Training on Office and ICT Electronics
185	Refrigeration and Air Conditioning Foundation
186	Foundation-Basics of Electronics
187	Electrical Home Foundation
188	Design and Construction of Buildings using Shear Wall Technology
189	Behaviour of Structures under Extreme Thermal Conditions
190	Applications of Drone Surveying in Civil Engineering
191	Retrofitting of Steel Structures
192	Public Speaking course for II B.Tech Students
193	Android Application Development
194	IOT Application Development
195	LAMP (Linux, Apache, Mysql, PHP)

196	Machine Learning Applications
197	Selenium Testing
198	VLSI hardware implementation and Vivado Design Flow
199	Hands on Training course on application of Agricultural machinery
200	Concept of Drainage System
201	Auto CAD for Agricultural Engineering
202	Hands on Basic level Modelling in Creo (Fundamental 3D design)
203	Hands on Product design and Drafting by CATIA
204	Basic level modelling Auto CAD
205	ex-situ conservation of Medicinal Plants and qualitative analysis of secondary metabolites
206	Online monitoring systems in textile industry
207	Pattern making through CAD
208	Waste water treatment techniques
209	Aspen Plus: Chemical Process Design and Simulation
210	Sustainable development and renewable energy
211	Advances in Food Process Engineering and Application of Second Order Equation in Process Optimization
212	Pulsed Light Technology for Liquid Food Processing
213	Application of data analytics in Oil & Gas industry
214	Politics and Economics of International Energy
215	Effective Materials Management in Petroleum Industry
216	Introduction to geomechanics
217	PLC Programming
218	PLC Workshop-Phase 1
219	AWS Cloud Computing workshop
220	Python Programming workshop
221	Designing of Printed Circuit Board
222	SCADA software training
223	Training an Electrical Autocad
224	IoT – Raspberry Pi
225	Solar PV System Design
226	Programming Essentials on Python
227	Devapps on AWS
228	Scripting Languages for Web Development
229	LAMP Technologies
230	Computing Using MS Office
231	Tally
232	Web Designing
233	Advanced Excel
234	Statistical Package for Social Sciences
235	SPSS-II

236	Manufacturing CNC foundation
237	Creo Modelling software
238	3D Modelling in Fusion 360
239	ANSYS
240	Part Modelling in AutoCAD
241	2D and 3D Modelling in Solid Edge
242	CATIA V6
243	Welding
244	Foundation Level Training on Office and ICT Electronics
245	Refrigeration and Air Conditioning Foundation
246	Foundation-Basics of Electronics
247	Electrical Home Foundation
248	Inadequate Geotechnical Investigations in Civil Engineering: Effects
249	Wetland design methods for Residential Waste Water Treatment
250	Earthquake Resistant Design of Structures as per IS 1893 using ETABS Software
251	Orientation for international students from ethiopia
252	Advanced Data Mining
253	Advanced DataBases
254	Advanced Mobile Applications
255	AWS Technical Essentials
256	Deep Learning
257	Game Theory
258	Image Processing & Applications
259	Mobile Ad-hoc Networks
260	Mobile App Development
261	Mobile Technologies
262	Network Programming
263	Neural Networks
264	Optimization Techniques
265	Predictive Analytics
266	R - Programming
267	Text Analytics
268	MIT App Inventer
269	HAM Radio
270	RTL, Design & Functional verification
271	Introduction to IoT Using Rasberry Pi
272	Robotics
273	NI LabVIEW
274	IoT Using Aurdino
275	IoT cloud Enabled With Arduino and Rasberry Pi
276	Python
277	Internet of Things (IOT)

278	Ethical hacking
279	Hands on Training course on Landscaping
280	Training on Waste and land development
281	Concept of Watershed Managment
282	Software tools to analyze molecular affinities
283	Bio process optimization techniques
284	Advanced techniques in animal cell culture
285	Genetic Engineering
286	Advances in Spinning Technologies
287	Developments in textile processing machinery
288	Biomass Char Gasification and Pyrolysis
289	Dairy By-Product Utilization
290	Fat Rich Dairy Products
291	Food Processing Equipment Design and Its Industrial Application
292	Mitigation of problems caused by drilling and completions with aid of workover operations
293	Internet of Things
294	PCB Manufacturing
295	Arduino and Interfacing to Different Electrical Devices
296	Small Unmanned Aerial Vehicle – Drone
297	Android application Development
298	Cloud Computing
299	Data Science
300	Competitive Coding
301	SPSS-I
302	Statistical tools for Managers
303	Tally
304	Tally ERP 9
305	Manufacturing CNC Milling
306	2D and 3D Part Modelling in AutoCAD
307	Basic Level Modelling in Creo (Fundamental 3D Design)
308	Welding (Expert level)
309	Foundation Level Training on Office and ICT Electronics
310	Refrigeration and Air Conditioning Foundation
311	Electrical Home Foundation
312	Analysis and Design of Structures using Staad Pro
313	Project Management skills using Primavera and MS projects software
314	Competitive Programming
315	Internet of Things Application Design and Development
316	Machine Vision
317	Network Adminstration and Trouble shooting
318	Stastics using Python
319	Quad copter development

320	Arduino Development
321	PCB Design
322	Latest telecom Technologies
323	Raspberry Pi
324	Analog IC's
325	Lab View
326	Vision Robotics
327	Application of Total survey station in Agriculture
328	Computer Aided Designing of Agricultural Machinery
329	Application of ICTs in Agriculture
330	Software tools to analyze molecular affinities
331	Bio process optimization techniques
332	Advanced techniques in animal cell culture
333	Genetic Engineering
334	Advances in Textiles
335	Advanced fabric structures
336	Toward Sustainability for Recovery of valuable Metals from Electronic Waste: The Hydrochemistry Processes
337	A Guide to MATLAB for Chemical Engineering Problem Solving
338	Importance of food processing in growing economy of India
339	Design and fabrication of Printed Circuit Boards
340	Gesture Based Robotics
341	Solar Technologies
342	Green Energies
343	Python Programming
344	Hybrid App Development
345	IOT and smart cities
346	SPSS
347	Tally
348	AutoCAD
349	CNC Turning
350	Simulation of Mechanical Systems in ANSYS
351	Welding Technology
352	Remote Sensing and GIS in Air Quality applications using GIS software
353	Advanced Programming Skills in C & DS
354	Bigdata Analytics
355	Biometrics
356	Ethical Hacking
357	Mobile Computing
358	Object Oriented Programming Principles
359	Oracle Certified Java Programmer
360	Foundation Level Training on Office and ICT Electronics
361	Refrigeration and Air Conditioning Foundation

362	Foundation-Basics of Electronics
363	Electrical Home Foundation
364	8051 microcontroller and its applications
365	Cloud computing
366	Data structures
367	Digital design using cadence
368	Pcb layout design using proteus ARES
369	Wireless sensor networks
370	Programmable logic controllers

Copy to:

All Deans/HoD's

G. Viji Palani

DEAN ACADEMICS

DEAN, ACADEMICS

VIGNAN'S FOUNDATION

FOR SCIENCE, TECHNOLOGY AND RESEARCH

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A P INDIA