AFFILIATED INSTITUTIONS

FACULTY OF CIVIL ENGINEERING

APPROVED LIST OF VALUE ADDED COURSES

Sl. No	Code	Subject name	L	T	P	C
1.	CVA001	Construction Technology	2	0	0	2
2.	CVA002	Integrated Structural Engineering of Building Structures				1
3.	CVA003	Computational Fluid Dynamics	1	0	0	1
4.	CVA004	AUTOCAD	1	0	2	2
5.	CVA005	Structural Analysis and Design	1	0	2	2
6.	CVA006	Civil Engineering Drawing and Bar Bending Schedule	2	0	0	2
7.	CVA007	Project Planning and Management	1	0	2	2
8.	CVA008	Interior Decoration	1	0	0	1
9.	CVA010	3D's MAX	2	0	0	2
10.	CVA011	STAAD Pro Design Software	1	0	0	1
11.	CVA012	STAAD Pro V8i	1	0	2	2
12.	CVA013	STAAD Pro V8i Series 4	1	0	2	2
13.	CVA014	Primavera (P6) Project Management	1	0	0	1
14.	CVA015	Safety Aspects in Construction	2	0	0	2
15.	CVA016	3D Building Design Using Revit Architecture	2	0	0	2
16.	CVA017	Computer Applications in Civil Engineering	2	0	0	2
17.	CVA018	Industrial Waste Management	2	0	0	2
18.	CVA019	Professional Practices in Civil Engineering Construction	2	0	0	2
19.	CVA020	3D Printing Technology for Civil Engineering	1	0	0	1
20.	CVA021	Building Modeling Using 3D Revit Architecture	2	0	0	2
21.	CVA022	Project Scheduling with Primavera P6	2	0	0	2
22.	CVA023	E Tabs Software	0	0	2	1
23.	CVA024	Geospatial Mapping	0	0	2	1
24.	CVA025	Modern Equipments and Its Applications	2	0	0	2
25.	CVA026	Advanced Field Surveying	0	0	2	1

26.	**CVA027**	Model Generation and Static Analysis of Structures	0	0	2	1
27.	**CVA028**	Recent Trends in Design and Detailing of Structures	0	0	2	1
28.	**CVA029**	Design and Systematic Analysis of Civil Structures	2	0	0	2
29.	**CVA030**	Building Information Modeling and MS Project	2	0	0	2
30.	**CVA031**	Fire Protection, Services and Maintenance Management of Building	2	0	0	2
31.	**CVA032**	Microsoft Project Masterclass Outline	0	0	2	1
32.	**CVA033**	Plumbing	1	0	0	1
33.	**CVA034**	3D Infrastructural Modelling	1	0	2	2
34.	**CVA035**	Introduction to Non-Destructive Testing and QA/QC	1	0	0	1
35.	**CVA036**	Quality Assurance & Quality Control in Construction	1	0	2	2
36.	**CVA037**	Emerging Construction Technologies for Housing	1	0	0	1

DIRECTOR
CENTRE FOR ACADEMIC COURSES

AFFILIATED INSTITUTIONS
FACULTY OF MECHANICAL ENGINEERING
LIST OF VALUE ADDED COURSES

SL. NO.	CODE ALLOTTED	TITLE	CREDITS
1.	MVA001	Small Unmanned Aerial Vehicle (sUAV) - Drone	2 credit
2.	MVA002	3D Printing	2 credit
3.	MVA003	Elements of Automation and Process Control	1 credit
4.	MVA004	Geometric Dimensioning and Tolerancing	2 credit
5.	MVA005	Smart Materials and Structures	2 credit
6.	MVA006	Green Energy Technologies and Management	2 credit
7.	MVA007	Automation Suite for Smart Systems	2 credit
8.	MVA008	Internet of Things Applications in Mechanical Engineering	1 credit
9.	MVA009	Surface Coating Technology	2 credit
10.	MVA010	Energy Resources and Management	2 0 0 2
11.	MVA011	Modeling for Design Engineers	2 0 0 2
12.	MVA012	Basic Concept of HVAC Designing and Drafting	2 0 0 2
13.	MVA013	Robotics Process Automation	2 0 0 2
14.	MVA014	Welding and Inspection Techniques	2 0 0 2
15.	MVA015	Modern Trends in Refrigeration and Air Conditioning	2 0 0 2
16.	MVA016	Finite Element Meshing Techniques	2 0 0 2
17.	MVA017	Nanoscience and Technology	2 0 0 2
18.	MVA018	Plant Design Management System	2 0 0 2
19.	MVA019	Technology for Energy Storage	2 0 0 2
20.	MVA020	Modeling Practice for Automotive Assemblies	2 0 0 2
21.	MVA021	Modeling and Machining Practice for CNC Machines	2 0 0 2
22.	MVA022	Introduction to Multi Body Dynamics	2 0 0 2
23.	MVA023	IoT and Augmented Reality Applications in Mechanical Engineering	1 0 2 2

DIRECTOR
CENTRE FOR ACADEMIC COURSES

AFFILIATED INSTITUTIONS

FACULTY OF ELECTRICAL ENGINEERING

APPROVED LIST OF VALUE ADDED COURSES

Sl.No.	Subject Code	Subject Name	L	T	P	C
1.	EVA001	Solar Photovoltaic System Design	2	0	0	2
2.	EVA002	Advances in Solar Energy Technologies	2	0	0	2
3.	EVA003	Arduino Programming	1	0	0	1
4.	EVA004	Material Detection and Inspection Technology	1	0	2	2
5.	EVA005	Industrial Automation with PLC	0	0	2	1
6.	EVA006	Industrial Process Control and Instrumentation	0	0	2	1
7.	EVA007	Energy Conservation, Management and Audit	1	0	0	1
8.	EVA008	Field Oriented Control of BLDC, Induction and Synchronous Motors	1	0	0	1
9.	EVA009	Industrial Automation using PLC & SCADA	1	0	2	2
10.	EVA010	LabVIEW Core -1 and Core - 2 levels with Certified LabVIEW Developer (CLAD) Certification Training	2	0	0	2
11.	EVA011	Solar Photovoltaic Technology	2	0	0	2
12.	EVA012	Measurements in Process Industries	1	0	0	1
13.	EVA013	Automation and Control	0	0	2	1
14.	EVA014	ECAD	0	0	2	1
15.	EVA015	SCADA	0	0	2	1
16.	EVA016	Electric and Hybrid Vehicles	2	0	0	2
17.	EVA017	Programmable Logic Controller	1	0	0	1
18.	EVA018	Factory Automation	1	0	0	1
19.	EVA019	MATLAB and SIMULINK for Electrical Engineers	2	0	0	2
20.	EVA020	Electrical Machine Design	0	0	2	1
21.	EVA021	Abstract for Industrial Internet of Things with Real Time Data Logging	1	0	0	1

22.	EVA022	Industrial and Home Automation	2	0	0	2
23.	EVA023	Supervised Machine Learning for Image Classification	2	0	0	2
24.	EVA024	Fuzzy Logic System and Applications	2	0	0	2
25.	EVA025	Electronic Design Automation & PCB Designing by using ORCAD	2	0	0	2
26.	EVA026	Solar Power Design, Operation and Installation	2	0	0	2
27.	EVA027	Sensor Applications using Arduino and Raspberry Pi	2	0	0	2
28.	EVA028	Solar PV System Design and Installation	2	0	0	2
29.	EVA029	Design and Development of Robotics	2	0	0	2
30.	EVA030	Embedded Laboratory	0	0	2	1
31.	EVA031	Graphical Programming Using Labview	1	0	2	2
32.	EVA032	VERILOG HDL	2	0	0	2
33.	EVA033	Electric Vehicles	2	0	0	2
34.	EVA034	Product Design and Development in Power Electronics and Embedded Systems	2	0	0	2
35.	EVA035	Trends in Smart Grid	1	0	0	1
36.	EVA036	Arduino Programming and Interfacing	0	0	2	1
37.	EVA037	Electrical Safety and Testing	0	0	2	1
38.	EVA038	Industrial Internet of Things (IIOT)	0	0	2	1
39.	EVA039	Virtual Instrumentation	1	0	2	2
40.	EVA040	Electrical AutoCAD	1	0	2	2

DIRECTOR
CENTRE FOR ACADEMIC COURSES

AFFILIATED INSTITUTIONS
FACULTY OF INFORMATION AND COMMUNICATION ENGINEERING
LIST OF VALUE ADDED COURSES

S. NO	CODE ALLOTTED	COURSE TITLE	CREDITS L T P C
1.	IVA001	Design Thinking	1 0 1 2
2.	IVA002	PCB Design, Embedded System Interfacing with Arduino & Robotics	1 0 1 2
3.	IVA003	Interactive Web Designing and Progressive Java	1 0 1 2
4.	IVA004	Robotics and its Applications	1 0 1 2
5.	IVA005	VB.NET	1 0 2 2
6.	IVA006	Enterprise Application Development and Deployment on Cloud using IBM Bluem`ix	0 0 2 1
7.	IVA007	Predictive Modeling using IBM SPSS Modeler	0 0 2 1
8.	IVA008	Enterprise Mobile Application Development using IBM Worklight	0 0 2 1
9.	IVA009	iOS App Development	0 0 2 1
10.	IVA010	Transfer Learning Frameworks	0 0 2 1
11.	IVA011	Data Science with Python	1 0 1 2
12.	IVA012	Internet of Things with Node MCU	0 0 2 1
13.	IVA013	Virtual Instrumentation	1 0 1 2
14.	IVA014	IC Test Engineering	1 0 1 2
15.	IVA015	Learning C	1 0 1 2
16.	IVA016	Internet of Things Using Broadcom BCM2837	1 0 1 2
17.	IVA017	PHP and MYSQL	0 0 2 1
18.	IVA018	Advanced Python and Introduction to Machine Learning	0 0 2 1
19.	IVA019	Real Time Electronics System Design	1 0 1 2
20.	IVA020	Case Study – Operating System Design	0 0 2 1
21.	IVA021	Case Study – Network Design	0 0 2 1
22.	IVA022	Electronic Circuits Making and PCB Design	0 0 2 1
23.	IVA023	Data Mining Laboratory	0 0 2 1
24.	IVA024	Multimedia Laboratory	0 0 2 1
25.	IVA025	Visual Basic Laboratory	0 0 2 1
26.	IVA026	Advanced Java Programming	1 0 1 2
27.	IVA027	Website Blog Design	0 0 2 1
28.	IVA028	Virtual Instrumentation Using Lab View	1 0 1 2
29.	IVA029	Angular J S	0 0 2 1
30.	IVA030	Simulation and Analysis of Networks Using Software (NS-2)	0 0 2 1
31.	IVA031	The Ruby Programming Language	0 0 2 1
32.	IVA032	VB.Net Programming	0 0 2 1
33.	IVA033	Networking Design and Security	0 0 2 1

34.	IVA034	Radio Frequency Circuit Design	1 0 2 2
35.	IVA035	Internet of things (IOT) Application Development	1 0 2 2
36.	IVA036	Advanced Graphical System Design and DAS Design	1 0 2 2
37.	IVA037	Lab VIEW Programming	0 0 2 1
38.	IVA038	Smart Home – Theory and Practices	1 0 2 2
39.	IVA039	Ethical Hacking	1 0 2 2
40.	IVA040	System Design Using Micro Controllers	1 0 2 2
41.	IVA041	Robotic Process Automation Using Automation Anywhere	1 0 2 2
42.	IVA042	Blockchains and Cryptocurrencies	1 0 2 2
43.	IVA043	Non Linear Electronics and Modelling	1 0 2 2
44.	IVA044	Intrusion and Anomaly Detection Systems	1 0 2 2
45.	IVA045	React Framework	0 0 2 1
46.	IVA046	Advanced Graphical System Design DAS Design using NI technology	0 0 2 1
47.	IVA047	Embedded Systems Design using PIC Controller	1 0 2 2
48.	IVA048	PCB Designing	0 0 2 1
49.	IVA049	Verilog and System Verilog	1 0 2 2
50.	IVA050	Hands-on training on LabVIEW Core1	1 0 2 2
51.	IVA051	Administrative Essentials for New Admins in Lighting Experience	1 0 2 2
52.	IVA052	Data Visualization and Machine Learning using Python	0 0 2 1
53.	IVA053	Robotics Programming	0 0 2 1
54.	IVA054	Troubleshooting and Maintenance of Home Appliances	0 0 2 1
55.	IVA055	Communication and Image Processing Using MATLAB	1 0 2 2
56.	IVA056	Big Data Statistical Analysis Using R Programming	1 0 2 2
57.	IVA057	Network Engineering – Routing and Switching	1 0 2 2
58.	IVA058	Web Application Development using ASP.NET	0 0 2 1
59.	IVA059	AWS and Azure Cloud Management	1 0 2 2
60.	IVA060	Full Stack Web Development	1 0 2 2
61.	IVA061	Embedded using Raspberry Pi	1 0 2 2
62.	IVA062	Data Science in R and Python	1 0 2 2
63.	IVA063	Mobile Phone Technology	1 0 2 2
64.	IVA064	Arduino Programming	0 0 2 1
65.	IVA065	Ethical Hacking and Network Security	1 0 2 2
66.	IVA066	Machine learning Techniques	0 0 2 1
67.	IVA067	IOT using Arduino	1 0 2 2
68.	IVA068	End to End Project Implementation using Spring Framework	0 0 2 1
69.	IVA069	Django Web Application Framework	0 0 2 1
70.	IVA070	Model Development using Exploratory Analysis	0 0 2 1
71.	IVA071	Attacks and Vulnerabilities Laboratory	0 0 2 1
72.	IVA072	Augmented and virtual Reality	1 0 2 2
73.	IVA073	MEMS and NEMS	1 0 2 2

74.	IVA074	Blockchain Technology and its Essentials	0 0 2 1
75.	IVA075	Machine Intelligence	1 0 2 2
76.	IVA076	Cyber Security Practices	0 0 2 1
77.	IVA077	Data Science	0 0 2 1
78.	IVA078	Internet of Things Practices	0 0 2 1
79.	IVA079	Kotlin Programming	0 0 2 1
80.	IVA080	PCB Design and Fabrication	0 0 2 1
81.	IVA081	Advanced Arduino Programming and Its Application	0 0 2 1
82.	IVA082	Robotics in Biomedical Engineering	0 0 2 1
83.	IVA083	Connected Car-Electronics	1 0 2 2
84.	IVA084	Embedded Systems Design Using ARM LPC2148	1 0 2 2
85.	IVA085	Design and Analysis of MOS Circuits	1 0 2 2
86.	IVA086	MERN Stack	1 0 2 2
87.	IVA087	CANSAT Design and Development	1 0 2 2
88.	IVA088	Azure AI and Cloud Data Fundamentals	0 0 2 1
89.	IVA089	Linux Administration	1 0 2 2

DIRECTOR
CENTRE FOR ACADEMIC COURSES

AFFILIATED INSTITUTIONS
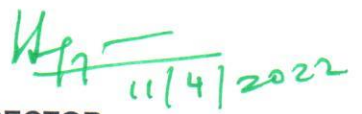
FACULTY OF MANAGEMENT SCIENCES

LIST OF VALUE ADDED COURSES

S.No	CODE ALLOTTED	TITLE	CREDITS
1.	MSVA001	Social Media Marketing	1 0 0 1
2.	MSVA002	Business Plan and Entrepreneurial Ventures	1 0 0 1
3.	MSVA003	Fundamentals in Banking & Insurance	2 0 0 2

DIRECTOR
CENTRE FOR ACADEMIC COURSES

AFFILIATED INSTITUTIONS

FACULTY OF ARCHITECTURE AND PLANNING

APPROVED LIST OF VALUE ADDED COURSE

Sl. No	Code	Subject name	L	T	P	C
1.	AVA001	Gaming Design and Development in Unity 3D	2	0	0	2

11/4/2022

DIRECTOR
CENTRE FOR ACADEMIC COURSES

AFFILIATED INSTITUTIONS

FACULTY OF TECHNOLOGY

APPROVED LIST OF VALUE ADDED COURSES

Sl.No.	Subject Code	Subject Name	L	T	P	C
1.	TVA001	Plant Design Management System (PDMS)	1	0	0	1
2.	TVA002	Advancements in Drug Designing	2	0	0	2
3.	TVA003	Cheminformatics	2	0	0	2
4.	TVA004	Apparel Production and Planning Control	2	0	0	2
5.	TVA005	3-D Weaving	2	0	0	2
6.	TVA006	Process Intensification	2	0	0	2
7.	TVA007	Visual Merchandising	2	0	0	2

11/4/2022

DIRECTOR
CENTRE FOR ACADEMIC COURSES

AFFILIATED INSTITUTIONS

FACULTY OF SCIENCE AND HUMANITIES

APPROVED LIST OF VALUE ADDED COURSE

Sl.No.	Subject Code	Subject Name	L	T	P	C
1.	SVA001	Enhancing Employability Skills (Common to all branches)	1	0	0	1

DIRECTOR
CENTRE FOR ACADEMIC COURSES