

6.3.4- Refresher course / Faculty Orientation or Other Programs

S.NO	TITLE OF THE PROGRAM
ACADEMIC YEAR- 2020 - 2021	
1	Computer Science & Biology
2	Energy Storage
3	FDP on Python 3.4.3 and R
4	Online Teaching and Learning Technologies
5	Recent Advances in management and processing of industrial and domestic waste.
6	"Internet of Things (IoT)"
7	"Sensors Technology"
8	(STTP) Series-II on "Solar Energy Conversion Systems: Technologies, Design And Applications"
9	3D Printing & Design
10	A Seven Days online International FDP on Mathematical Modelling for Data Analytics and Engineering
11	Academic leadership and Management of Technical education
12	Academic Leadership In Higher Education
13	Advancements In Mechanical Engineering
14	Advance Research Methodology And Innovative Teaching Pedagogy
15	Advanced communication lab
16	Advancement in Communication Engineering Technologies with Simulation tools
17	Aicte Sponsored STTP On "Smart Manufacturing Technologies"
18	AICTE Training and learning (ATAL)Academy(Best Teaching Learning and Assessment Practices)
19	AICTE Training and learning (ATAL)Academy(Cryptography and cyber security)
20	AICTE Training and learning (ATAL)Academy(Cyber Security)
21	AICTE Training and learning (ATAL)Academy(Data Science)
22	AICTE Training and learning (ATAL)Academy(Data Science and Analytics)
23	AICTE Training and learning (ATAL)Academy(Internet of things)
24	AICTE Training and learning (ATAL)Academy(Machine Learning)
25	AICTE Training and learning (ATAL)Academy(Recent Advancement in AI)
26	AICTE Training and learning (ATAL)Academy(Semantic Intelligence)
27	AICTE Training and learning (ATAL)Academy(Software testing)
28	Alternate Fuels
29	Animation film design
30	Antennas and microwave Engineering
31	Application of remote sensing and GIS
32	Applications of Thermal Engineering
33	Applications Of Thermodynamics
34	Applictiaon of New Material In Emerging Field
35	Applied Data Science and Machine Learning
36	Arduino
37	Artificial Intelligence (AICTE Training and learning (ATAL)Academy
38	Artificial intelligence and its applications
39	Artificial Intelligence and Neural Networks
40	ATAL FDP - GIS and Remote Sensing
41	ATAL FDP - Role of Augmented Reality (AR) & Virtual Reality (VR) in Real - Time Applications
42	ATAL FDP - Smart Cities
43	ATAL FDP - Construction Technology
44	ATAL FDP - Earthquake Engineering
45	ATAL FDP - Environmental Geotechnology
46	ATAL FDP - Strategic Civil Infrastructure
47	ATAL FDP - 3D Printing and Design for Academicians & Entrepreneur
48	ATAL FDP - Earthquake Resistant Structural Systems and Design for Buildings and Structures
49	ATAL FDP - Environment, Energy, Health and Safety Trends & Industrial Aspects
50	ATAL FDP - Environmental Geotechnology
51	ATAL FDP - GIS & Remote Sensing and Its Applications
52	ATAL FDP - Global Warming & Impacts of Power Electronics Towards Green Technology

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53	ATAL FDP - Green Entrepreneurship Development for Atmanirbhar Bharat
54	ATAL FDP - Hyper Spectral Remote Sensing and its Applications
55	ATAL FDP - Innovation & Entrepreneurship
56	ATAL FDP - Intelligent Transport Systems
57	ATAL FDP - Introduction to Social Entrepreneurship
58	ATAL FDP - Sustainability Engineering
59	ATAL FDP - Sustainable Practices in Civil Engineering
60	ATAL FDP - Understanding Organizational Behaviour for Managerial Perspectives
61	ATAL FDP - Waste Technology
62	Augmented Reality (AR)/ Virtual Reality (VR)
63	Bio Medical Signal Processing for Smarter Mobile Healthcare
64	Block Chain AICTE Training and learning (ATAL)Academy
65	Circuit Design using AutoCAD Electrical
66	Cloud computing (E & ICT Academy , IIT Kanpur)
67	Computer and communication networks
68	Control Systems & Sensors Technology
69	Current Trends of Power Electronics Applications in Electric Vehicles
70	CyberSecurity
71	Data Analytics
72	Data Science
73	Data Science With R Programming for Data Analytics
74	Data Science(E & ICT Academy , IIT Kanpur)
75	Design thinking
76	Digital Teaching Techniques
77	Electric Vehicles
78	Electrical & Computer Engineering
79	Emerging Research Areas in Engineering
80	Emerging Research Area In Mechanical Engineering
81	Emotional Intelligence
82	Empowerment as enrichment: The language Teacher and the new order.
83	Evolution of RF electromagnetics from microwave to mm wave technologies
84	FDP - Recent Advancement in Civil Engineering - Phase-I
85	Fdp On "Emerging Researches Areas In Mechanical Engineering"
86	Fdp On Faculty Development Programme on IPR For Professional Innovators
87	FDP on Stress Management
88	FDTP - CE8302 Fluid Mechanics
89	Global warming and impacts of power electronics towards green technology
90	Ground breaking technologies
91	High performance Intelligent realtime Embedded system design and IOT in autonomous system
92	Industry 4.0
93	Innovation & Entrepreneurship
94	Innovation Ambassador training (Foundation Level)
95	Innovation In Telemedicine In Rural India Enabled By Advancements In Artificial Intelligence Medical Devices And Internet Of Things
96	Instructional Model for Outcome Based Education
97	Intelligent System For Sustainable Development
98	International FDP on ASTUTE-EFFLUX Trends in Mathematics
99	International FDP on Avant-garde Trends in Mathematics
100	International FDP on MEMS based Sensors and Actuators for Biomedical Applications
101	International Webinar on Recent Trends in Information Sciences
102	Internet of Things (IoT)
103	Introduction to Software Development Life cycle
104	IOT - Internet of things
105	IoT In 5g
106	JAVA(IIT BOMBAY)
107	Lab on a Chip
108	Machine Learning
109	Management of Intellectual property and Innovation


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110	Managing Conflicts And Teamwork For Healthy Work Environment
111	Mitigation of Power Quality Issues in Distributed Generation Systems using Custom Power Devices-I
112	MoE's Innovation Cell & AICET
113	Nanomaterials Synthesis, Process, Characterization And Its Functional Applications
114	Nanosensors
115	Nanotechnology
116	Natural Language Processing Behind Data Science
117	One Week Online Fdp-Research Trends In Mechanical Engineering
118	One Week Online Short Term Training Program On Recent Development Of Advanced Materials And Its Applications
119	One Week Skill Development Program On Welding Techniques
120	Online Teaching And Learning Technologies
121	Peer to Peer Energy Transaction in Smart Distribution Systems"
122	Personal Effectiveness
123	Perspectives of Artificial Intelligence Applications
124	PHP and MySQL
125	Project Management
126	Python (E & ICT Academy , IIT Kanpur)
127	Quantum Computing Algorithms and Machine Learning
128	Recent Trends in Power System Operation and Control
129	Recent trends in Precision Agriculture
130	Research Challenges And Applications Of IOT In Smart Agriculture
131	Research Trends In Mechanical Engineering
132	Robotics
133	Six Days FDP on Applications of Mathematics in Diverse Fields
134	Six Days On Line Fdp On Mechatronics Engineering For Industry 4.0 Era
135	Smart Material And Sensors Current Update And Future Perspective
136	Smart Sensors Based Industrial Automation And Healthcare Technologies
137	Statistics for Data Analytics
138	STTP on Electric Vehicle Evolution -Impact on Power Grid
139	Sustainability Engineering
140	Team building and Coordination
141	Unleashing the latest innovation in Hybrid Electric Vehicle and solar powered charging station Techniques
142	VLSI Design Verification And Testing
143	Wearable devices
144	Wireless Embedded Systems And Sensor Networks
145	Growth, Characterisation of NLO material and spectroscopic studies
146	One week International FDP on Applicable Mathematics and programming in Science and Technology

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ACADEMIC YEAR 2019-2020	
1	Arduino (FDP) - IIT Bombay
2	ATAL- FDP on MSME-Artificial Intelligence
3	Automotive friction materials
4	Awakening Business Trends
5	Effective Proposal Writing for Research and Funding
8	Energy Engineering
9	Ethical Practice In Engineering
10	Faculty Development Program on New Pedagogies: Creative Learning & Creative Teaching - A Futuristic Approach
11	FDP - Advanced Technologies in Infrastructure Development
12	FDP - Advancements in Concrete Technology
13	FDP on CFD
14	FDP on Engineering and Management Teaching Pedagogy- an Industry Perspective
15	FDP on Nanomaterials for Energy Harvesting and Biomedical Applications
16	Fdp On Renewable Energy Sources : A Way Ahead



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17	Fundamentals of machine learning
18	NAAC Awareness Programme For Faculty
19	NBA ACCREDITATION And Teaching Learning In Engineering
20	Novel material and its industrial Application
21	One Week National Level online FDP on R Language
22	python 3.4.3
23	Recent trends in Information , computing , communcation and teaching methodology Competency
24	Renewable Energy Resource
25	Scope of Artificial Intelligence And Machine Learning in Automation
26	Strategies to address the soft skill gap.
27	Green chemistry towards sustainable development
28	Emerging trends in material frontiers
29	Six days FDP in "Recent trends in Mathematics"

S.No	TITLE OF THE PROGRAM
ACADEMIC YEAR 2018-2019	
1	Refined versions of Basic Sciences and Their Uplifting Effects on Society (RVBS – 2018).
2	Five days FDP on Embedded and IOT- ECE
3	One Week FDP on " Computational Analysis of Electrical Machines "
4	one week FDP on Android and Mango DB
5	Repair and Rehabilitation of Structures

S.No	TITLE OF THE PROGRAM
ACADEMIC YEAR 2017-2018	
1	Compiler Design
2	Construction Techniques Equipment and Practices
3	FDP on Design of Machine Elements
4	FDTP - CE 6403 Applied Hydraulic Engineering
5	Induction training of Faculty - IIT Madras
6	Nano Instrumentation systems and Biomedical Nanotechnology
7	One week FDP on " Application of Optimization Techniques "
8	one week FDP on Software testing and Modelling
9	six days FDP on Network Simulator 2

S.No	TITLE OF THE PROGRAM
ACADEMIC YEAR 2016-2017	
1	one week FDP on High Voltage Engineering
2	Five days FDP on Microcontroller based System Design
3	One Week Faculty Development Training Program on Engineering Mechanics
4	One Week FDP on Cloud and Hadoop Development
5	EnvironmentalEngineering



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TO WHOMSOEVER IT MAY CONCERN

This is to certify that the number of faculty members attended the Faculty Development Programmes (FDP) during the academic year 2018-2019 is 31

S.No	Academic Year	Total No. of staffs attended
1	2018-2019	31

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S.No	Academic Year	Total No. of staffs attended
1	2017-2018	36

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S.No	Academic Year	Total No. of staffs attended
1	2016-2017	33

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