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8	IIIC (TATA)		IIIC TATA	-
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Research & Development Cell

(Sample list)

FACULTY RESEARCH PUBLICATIONS					
Sl. No.	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication
1	Analyses and implications of higher order finite volume methods on first-order macroscopic traffic flow models	Dr Sreekumar M	Civil Engineering	Transportation Letters, Taylor & Francis	January 2019.
2	Effect of Geometry on Driver Heart Rate, World Conference on Transport Research, May 2019	Dr. Anitha Jacob, Jisha Akkara	Civil Engineering	Transportation Research Procedia	May-19
3	Study of on street & off street parking choice behavior	Jisha Akkara	Civil Engineering	International Journal of Advanced Research in Computer and Communication Engineering	January 2019.
4	Two Lane Highway Consistency Based On Alignment Indices	Jisha Akkara	Civil Engineering	International Journal of Advanced Research in Computer and Communication Engineering	January 2019.
5	Influence of Geometric Design Characteristics on Safety Under Heterogeneous Traffic Flow	Jisha Akkara	Civil Engineering	International Journal of Advanced Research in Computer and Communication Engineering	January 2019.
6	Fuzzy Logic Based Route Choice Behaviour Modelling	Jisha Akkara	Civil Engineering	International Research Journal of Engineering and Technology (IRJET)	January 2019.
7	Performance Evaluation of Kerala State Road Transport Corporation	Jisha Akkara	Civil Engineering	International Journal of Engineering Research and Technology (IJERT)	June 2019.
8	Road traffic induced noise pollution modelling and fuel emission analysis at rail-road crossings	Jisha Akkara	Civil Engineering	International Journal of Scientific and Engineering Research	May-19

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9	Vehicle choice behaviour on "on street" parking	Jisha Akkara	Civil Engineering	International Journal of Scientific and Engineering Research	May-19
10	Modeling of Intercity Mode Choice Behaviour of Passengers	Jisha Akkara	Civil Engineering	International Journal of Scientific and Engineering Research	May-19
11	Development of Accident Prediction Model on Horizontal Curves	Jisha Akkara	Civil Engineering	International Research Journal of Engineering and Technology (IRJET)	Mar-19
12	Crash Characteristic Analysis and Blackspot Identification using QGIS	Archana S	Civil Engineering	International Journal of Advanced Research in Computer and Communication Engineering	January 2019.
13	Estimation Of Pedestrian Level Of Service Model At Signalised Intersections	Archana S	Civil Engineering	International Journal of Advanced Research in Computer and Communication Engineering	January 2019.
14	Analysis and Development of Traffic Speed-Flow-Density Relationships for Urban Roadway	Archana S	Civil Engineering	International Journal of Engineering and Advanced Technology (IJEAT)	Dec-18
15	STUDY ON PEDESTRIAN CROSSING BEHAVIOUR AT INTERSECTIONS	Archana S	Civil Engineering	International Research Journal of Engineering and Technology (IRJET)	Mar-19
16	GIS based Road Safety Audit of State Highways in Thrissur	Archana S	Civil Engineering	International Research Journal of Engineering and Technology (IRJET)	Jun-19
17	ANALYSIS OF PASSENGER FLOW PARAMETERS OF RAIL TRANSPORTATION IN KERALA	Archana S	Civil Engineering	International Research Journal of Engineering and Technology (IRJET)	Jun-19
18	Pedestrian Safety Analysis at School Zones	Archana S	Civil Engineering	International Research Journal of Engineering and Technology (IRJET)	Jun-19
19	A Study to Determine Pedestrian Walkability Index in Mixed Traffic Condition	Archana S	Civil Engineering	International Research Journal of Engineering and Technology (IRJET)	Mar-19
20	Crash Prediction Modeling of Two Lane Undivided Highways Using Artificial Neural Network	Archana S	Civil Engineering	International Journal of Scientific & Engineering Research	May-19

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21	Performance Analysis and Modeling of Entry Capacity of Roundabout Under Heterogeneous Traffic	Vincy Verghese	Civil Engineering	International Journal of Advanced Research in Computer and Communication Engineering	Jan-19
22	Urban Resident's Awareness and Readiness for Sustainable Transportation a Case Study	Vincy Verghese	Civil Engineering	International Journal of Advanced Research in Computer and Communication Engineering	Jan-19
23	Passing Opportunity Model of Vehicles on Two Lane Undivided Highways under Mixed Traffic Conditions	Vincy Verghese	Civil Engineering	International Research Journal of Engineering and Technology (IRJET)	Jun-19
24	Mode choice Behaviour Analysis of Students in Thrissur city	Vincy Verghese	Civil Engineering	International Research Journal of Engineering and Technology (IRJET)	Jun-19
25	Feasibility Study of Provision for Exclusive Bus Lanes on Urban Roads	Vincy Verghese	Civil Engineering	International Journal of Engineering and Advanced Technology (IJEAT)	Dec-18
26	Environmental Impact Assessment of Thrissur-Vadanapally Road Project	Vincy Verghese	Civil Engineering	International Journal of Engineering and Advanced Technology (IJEAT)	Dec-18
27	Traffic Flow Modeling and Capacity Estimation for Heterogeneous Traffic on Four Lane Divided Carriageway	Archana S	Civil Engineering	International Journal of Scientific & Engineering Research Volume 10, Issue 5, May-2019	May-19
28	Bus Route Optimization and Scheduling In Hyderabad City Using Arc-Gis in Association with Lumiplan Pvt. Ltd.	Vincy Verghese	Civil Engineering	International Journal of New Technology and Research (IJNTR)	May-19
29	Use of Data Mining Technique for Systematic Road Safety Audit of Non-urban Highways	Dr.Anitha Jacob	Civil Engineering	International Journal of Engineering and Advanced Technology (IJEAT)	Dec-18
30	Activity Based Transportation Modeling for Chelakottukara ward of Thrissur District	Dr.Anitha Jacob	Civil Engineering	International Journal of Engineering and Advanced Technology (IJEAT)	Dec-18

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31	Review of Software to Analyse the Physi- cal Conditions of the Athletes using sEMG	Aneesh Chandran	CSE	International Journal of Trend in Scientific Research and Development (IJTSRD) Volume 4 Issue 4,	Jun-20
32	Smart Cart with Automatic Billing, Product Information Using RFID Anti-Theft System	AneeshChandran	CSE	International Journal of Modern Engineering and Research Technology	Aug-19
33	Source Restricted Book Referencing System	AneeshChandran	CSE	International Journal of Modern Engineering and Research Technology	Aug-19
34	Automated Billboard System	Anil Antony	CSE	International Journal of Modern Engineering and Research Technology	Aug-19
35	Diabetic Reti- nopathy Detection using Neural Network- ing	Anil Antony	CSE	International Journal of Trend in Sci- entific Research and Development (IJTSRD) Volume 4 Issue 4,	Jun-20
36	Automating the Drug Dosage of Tacrolimus for Liver, Renal Transplant Patients using Neural Network	Aswathy Wilson	CSE	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Dec-19
37	Blind-Assist	Aswathy Wilson	CSE	International Journal of Scientific Research & Engineering Trends Volume 6, Issue 2,	April-2020.
38	LBA using Blockchain	Bineesh M	CSE	International Journal of Trend in Scientific Research and Development	May-20
39	Parking Lot Automation	Bineesh M	CSE	International Journal of Modern Engineering and Research Technology	Aug-19
40	Library Management System	Fepslin Athish Mon S	CSE	International Journal Of trend in Scientific research and Development, Volume 4 Issue 4,	Jun-20
41	Performance Analysis of different Classifiers for Earthquake prediction: PACE"	Ninu Francis	CSE	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY, IJIRT	May-20

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42	Review analysis of products and recommendation system	Sajitha I	CSE	International Journal of Trend in Scientific Research and Development	Mar-20
43	Child Security System	Seenia Francis	CSE	International Journal of Modern Engineering and Research Technology	Aug-19
44	Automatic Line Following Wheelchair	Sobha Xavier	CSE	International Journal of Modern Engineering and Research Technology	Aug-19
45	CYBOT	Swapna B Sasi	CSE	International Journal of Modern Engineering and Research Technology	Aug-19
46	KYC using Block Chain	Swapna B Sasi	CSE	International Journal of Trend in Scientific Research and Development	Mar-20
47	Enhanced sparse representation classifier for text classification	Unnikrishnan P	CSE	Expert Systems with Applications	Sep-19
48	A Review on Generative Conversational Model	Prof. M T Rajappan Pillai	CSE	International Journal of Advanced Research in Science and Engineering vol 6 Issue 12 December 2017	2017
49	How to Select a Searching Algorithm-A Comparative Study	Mr. Bineesh M, Sobha Xavier, Jisna V A	CSE	International Journal of Computer Trends and Technology (IJCTT) – Volume 48 Number 3 June 2017	2017
50	A Review on Early Stroke Prediction using Artificial Intelligence	Ms. Aswathy Wilson	CSE	International Journal of Innovations & Advancement in Computer Science IJIACS, ISSN 2347 – 8616, Volume 6, Issue 11, November 2017	2017
51	Early Prediction of Lung Cancer Using MRI Images	Ms. Aswathy Wilson	CSE	International Journal of Innovations & Advancement in Computer Science IJIACS	2017

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52	Security Alert using Face Recognition	Ms. Aswathy Wilson	CSE	International Research Journal of Engineering and Technology, vol-4 Issue-4 Aprin 2017	2017
53	A Review on Noise filters for digital Images	Ms. Namitha T N	CSE	International Research Journal of Engineering and Technology May 2017 vol - 4 Issue -5	2017
54	3D Saliency Detection	Ms. Namitha T N	CSE	International Journce of Engineering Trends and Technology, Vol 47 No 6 May 2017	2017
55	CORMS : An automated Restarant Management System	Ms. Ninu Francis	CSE	International Reasearch Journal of Engineering and Technology Vol 4 Issue 3 March 2017	2017
56	A Comparative Study of Segmentation and Classification Techniques in WBC	Swapna B Sasi	CSE	International Journal of Advances Research in Science and Engineering (IJARSE)	2017
57	Semi-Supervised Distributional Vector Generation Techniques for Text Classification	Dr. Wajeed	CSE	Indian Journal of Science and Technology, Vol 9(39), DOI: 10.17485/ijst/2016/v9i39/100777, October 2016	Oct-16
58	3D Brain Tumor Detection	Diana Davis	CSE	International Journal of Engineering Research in Computer Science and Engineering	Apr-16
59	Hybrid control of a multi-area multi-machine power system with FACTS devices using nonlinear modeling Journal - IET Generation, Transmission & Distribution	Dr. JOSE P THERATTIL	Electronics and Communicatio n Engineering	IET Generation Transmission & Distribution	2019
60	A review of blue light emitting diodes for future solid state lighting and visible light communication applications, , Superlattices and Microstructures(J), Elsevier,	Dr. PRAJOON P	Electronics and Communicatio n Engineering	Superlattices and Microstructures	2019

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61	Medical image enhancement by a bilateral filter using optimization techniques, Journal of Medical Systems-Springer	Dr. ANOOP V	Electronics and Communication Engineering	Journal of Medical Systems	2019
62	Spectral feature and Optimization- based Actor-Critic Neural Network for arrhythmia classification using ECG signal, Journal of Experimental & Theoretical Artificial Intelligence -Taylor & Francis	Dr. ANOOP V	Electronics and Communication Engineering	JOURNAL OF EXPERIMENTAL & THEORETICAL ARTIFICIAL INTELLIGENCE	2019
63	Design and Implementation of Instantaneous Power Estimation Algorithm for Unified Power Conditioner	SINDHU S	Electronics and Communication Engineering	Journal of Power Electronics 19 (3), 815-826	2019
64	Solution for Unintentional Events of Vehicle Security	PONMANI RAJA M	Electronics and Communication Engineering	Transactions on Innovations in Science and Technology	2019
65	Asset Tracking Using Low Power Bluetooth, International Journal of Advanced Research Trends in Engineering and Technology(IJARTET)	Fr. DAVID NETTIKADAN	Electronics and Communication Engineering	INTERNATIONAL JOURNAL OF ADVANCED RESEARCH TRENDS IN ENGINEERING AND TECHNOLOGY	2019
66	"Investigation of RF and DC Performance of E-Mode In _{0.80} Ga _{0.20} As /InAs /In _{0.80} Ga _{0.20} As Channel Based DG-HEMTs for Future Submillimetre wave and THz Applications	Prajoon P	Electronics and Communication Engineering	IETE Journal of Research	2018

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67	Visible Light Communication Using Sensors	JINESH K J	Electronics and Communication Engineering	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	2018
68	Converging Blockchain and Internet of Things	David Nettikadan	Electronics and Communication Engineering	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2018
69	Smart Community Monitoring System using Thingspeak IoT Platform	David Nettikadan	Electronics and Communication Engineering	International Journal of Applied Engineering Research	2018
70	A Study on Millimeter-Wave Vehicular Communication	Ponmani Raja M	Electronics and Communication Engineering	International Journal of Innovative Research in Science, Engineering and Technology	2018
71	FPGA Implementation of WG Stream Cipher	Anna Johnson	Electronics and Communication Engineering	IJISSET - International Journal of Innovative Science, Engineering & Technology	2017
72	Ear Cavity Biometric Recognition	Ms. Bindhu K. Rajan, Mr. Rijo P C	Electronics and Communication Engineering	IOSR Journal of Biotechnology and Biochemistry	2017
73	Adding Remote Controller Functionality To Any Stereo	Ambily Francis	Electronics and Communication Engineering	International Journal of Computer Science, Technology and research	2017

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74	Virtual Keyboard	Shaicy P Shaji	Electronics and Communication Engineering	International Journal Of Engineering And Computer Science	2017
75	Wireless Health Monitoring System for Detection of ECG, EMG and EEG	Ms. Nyni K.A	Electronics and Communication Engineering	International Journal of Advanced Research in Computer and Communication Engineering	2017
76	Smart Card Based Public Distribution System	Rijo PC	Electronics and Communication Engineering	International Journal of Science and Research (IJSR)	2017
77	Drowsiness Detection and Rescue System	Roshni Rajan K	Electronics and Communication Engineering	International Journal of Science and Research (IJSR)	2017
78	Segmentation by fractional order darwinian particle swarm optimization based multilevel thresholding and improved lossless prediction based compression algorithm for medical images	Jarin T	EEE	IEEE Access 7	2019
79	Neural Proliferation using Brain stimulation Methods Intended for Pediatric Neuropsychiatric Population: A Hypothesis and Theoretical Investigation	Jarin T	EEE	Test Engineering and Management	2020
80	Intelligent Parking Management System using Dijkstra's Algorithm with Driver Preferences	Jarin T	EEE	Test Engineering and Management	2020
81	Atmospheric Water Absorption Kit	Jarin T	EEE	Journal of Advanced Engineering Research	Nov-19
82	Simulation on the generation of electricity from running train wheels.	Jarin T	EEE	International Journal of Mechanical and Production Engineering Research and Development	2019

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83	Numerical analysis of circularly polarized modes in coreless photonic crystal fiber	Jarin T	EEE	Elsevier-Results in Physics	2019
84	Exploring magnetic fluid sensor using dual circular core elliptical cladding photonic crystal fiber	Jarin T	EEE	Elsevier-Results in Physics	2019
85	Evaluation of various benchmark processes with appropriate controller design in LabVIEW platform	Jarin T	EEE	Journal of Instrumentation	May-19
86	Evaluation methods for incorporating Non-Deterministic characteristics in PWM strategy of Induction Motor drives and FPGA based experimental implementation	Jarin T	EEE	Journal of Electrical Engineering	Jun-19
87	Designing and modelling of a low cost wireless telemetry system for deep brain stimulation studies	Jarin T	EEE	Indian Journal of Science and Technology	2019
88	Evaluation strategies for wireless ultra wideband communication towards orthopedic surgical scheme	Jarin T	EEE	Journal of Medical Imaging and Health Informatics.	Dec-18
89	A Prototype design of RFID centered Hi-Tech Toll Assortment Plaza	Jarin T	EEE	Mediterranean Journal of Basic and Applied Sciences	Oct-18
90	Corrosion of reinforcement in concrete with fly ash and manufactured sand	Jarin T	EEE	Material Research Innovations	2018
91	Unique PWM cast for induction motor drives with Embracing Non-Deterministic Characteristics and Evaluation using FPGA.	Jarin T	EEE	International journal of pure and applied mathematics	2017
92	Crystallisation and Characterisation of Novel Semi Organic Nonlinear Optical Crystal:Glycinium Oxalate	Jarin T	EEE	International journal of pure and applied mathematics	2018

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93	A review study- Smart Grid integration of renewable sources using EZ and Z source inverters.	Jarin T, Shijoh V	EEE	International Journal of Current Engineering and Scientific Research (IJCESR).	2017
94	Low cost wireless telemetry system for deep brain stimulation	Jarin T	EEE	International journal of scientific research and review	2018
95	A review study of E waste management in India	Jarin T	EEE	Asian Journal of Applied Science & Technology	2017
96	FPGA based analysis of non-dererministic PWM in Induction Motor Drives.	Jarin T	EEE	Asian Journal of Applied Science & Technology	2017
97	Nano Generator Intended for Harvesting	Jarin T, Kapildas K S	EEE	Asian Journal of Applied Science & Technology	2017
98	SFCL Technology for generator protection	Jarin T, Saritha P	EEE	Asian Journal of Applied Science & Technology	Oct-17
99	Voltage controlled DC-DC converter for enhancing waste heat recovery.	Della David	EEE	International journal of research in advent technology	2018 May
100	A Noval Random Carrier Frequncy Modulation Technique for Drive Applications.	Soumya C	EEE	Asian Journal of Applied Science & Technology	Oct-17
101	Phase Shift Controlled Full Bridge DC-DC converter with less circulating loss.	Jarin T, Akhil A Balakrishna, Shijoh V	EEE	Middle-East Journal of Scientific Research	2017
102	Sustentation of Energy by a Contemporary GSM based Prepaid Energy Meter	Jarin T, Shijoh V	EEE	Middle-East Journal of Scientific Research	2017
103	Renewable power centred Intelligent power supervision system for households.	Jarin T, Shijoh V	EEE	Middle-East Journal of Scientific Research	2017
104	Critical Investigation of Minimum field conductor for Overhead Transmission lines.	Jarin T	EEE	Middle-East Journal of Scientific Research	2017
105	Enhancement of Efficiency in Nanocoated Induction Motor	Jarin T	EEE	World Applied Science Journal	2017
106	Analysis of regenerative braking in brushless DC motor drive using adaptive nero based fuzzy inference system	Ratnan P	EEE	International Journal of Science and Research	2015

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107	Integrated Dual Output Buck Boost Converter for Industrial Application.	Reshma Raj	EEE	International Journal of Engineering Research & Technology	Nov-15
108	PFC Cuk converter fed BLDC motor drive using artificial neural network.	Reshma Raj	EEE	International Journal of Engineering Research & Technology (IJERT)	Nov-15
109	One cycle control of interleaved Buck converter with step down conversion ratio.	Della David	EEE	International Research Journal of Engineering & Technology	Nov-15
110	Closed loop control of high step up DC/DC converter based on coupled inductor and switched capacitor	Della David	EEE	International Research Journal of Engineering & Technology	Nov-15
111	Ripple current reduction technique for DC to DC converter using tapped inductor.	Soumya C	EEE	International journal of latest research in Engineering and Technology	2016
112	Closed Loop Control of ZCS Interleaved High Set Up Converter for Sustainable Energy Applications.	Aswathy Rajan	EEE	International Journal of Science and Research.	2016
113	Voltage mode control of soft switched single switch isolated DC-DC converter	Rengini G	EEE	International Research Journal of Engineering & Technology	Nov-15
114	PWM Control of High Gain Sepic Boost Converter with Coupled Inductor and Charge pump capacitor	Rengini G	EEE	International Research Journal of Engineering & Technology	Nov-15
115	The Derivative of a Switched Coupled Inductor DC-DC Step Up Converter by using a Voltage Lift Network with Closed Loop Control for Micro Source Applications.	Akhil A Balakrishna	EEE	International Research Journal of Science and Research	Jan-16
116	CAD Systems for Automatic Detection and Classification of Covid-19 in Nano CT Lung Image by Using Machine Learning Technique	Jarin T	EEE	INTERNATIONAL JOURNAL OF PHARMACEUTICAL RESEARCH Dr. SUNNADOPH KALAYATHANKAL Ph.D (Maths) Ph.D (Science), Ph.D (Maths) PRINCIPAL	Aug-20

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A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR

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117	Investigation on novel bulk size single crystal of Glycine with metal ions grown by solution growth method for photonic applications	B. Deepanraj	Mechanical Engineering	Materials Letters	2019
118	An Optimization Of Drilling Process Parameters In Machining Epoxy Based Carbon Fibre Composites	B. Deepanraj, Nice Menachery, O.P. Sukesh	Mechanical Engineering	International Journal of Mechanical and Production Engineering Research and Development	2019
119	An Experimental Analysis And Optimization Of Heat Treatment Parameters Of Al6061 Alloy For Improved Mechanical Properties	B. Deepanraj	Mechanical Engineering	International Journal of Mechanical and Production Engineering Research and Development	2019
120	Investigation and Optimization of Machining Parameters Influence on Surface Roughness in Turning AISI 4340 Steel	B. Deepanraj	Mechanical Engineering	FME Transactions	2020
121	Growth and investigation of novel nonlinear optical single crystal of urea potassium dichromate by solution growth technique for photonic application	B. Deepanraj	Mechanical Engineering	Journal of Optics	2020
122	Production, optimisation and engine characteristics of beef tallow biodiesel rendered from leather fleshing and slaughterhouse wastes	B. Deepanraj	Mechanical Engineering	Biomass Conversion and Biorefinery	2020
123	Investigation on single crystal by tartaric acid-barium chloride: growth and characterization of novel NLO materials	B. Deepanraj	Mechanical Engineering	Bulletin of Materials Science	2020
124	An Optimization Of Micro-Drilling Parameters In Carbon Fiber Reinforced Polymer Using Grey Relation Analysis	C. A. Lawrance	Mechanical Engineering	International Journal of Mechanical and Production Engineering Research and Development	2019

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125	The Low Cost Adult Diaper Waste Management Method	Nice Menachery	Mechanical Engineering	International Journal of Mechanical and Production Engineering Research and Development	2019
126	An Optimisation Of Surface Area And Heat Transfer Study Of Rectangular Porous Structure	Nisha Sherief	Mechanical Engineering	International Journal of Mechanical and Production Engineering Research and Development	2019
127	Experimental study of refrigeration cycle using diffuser pipe and application of nano particles	Anto Zacharias	Mechanical Engineering	Transactions on Innovations in Science & Technology	2019
128	Energy and exergy analysis, drying kinetics, modelling and quality parameters of microwave - dried turmeric slices.	B. Deepanraj	Mechanical Engineering	Journal of Thermal Analysis and Calorimetry	2019
129	Experimental Investigation on Performance, Combustion and Emission Analysis of a Direct Injection Diesel Engine fuelled with Rapeseed Oil Biodiesel	B. Deepanraj	Mechanical Engineering	Fuel	2019
130	Experiment on Carbon dioxide removal from flue gas	Sukesh O.P, ArunRaj A	Mechanical Engineering	Materials Today Proceedings	2019
131	A review on analysis of HHO gas in IC engines	Arun Raj A,	Mechanical Engineering	Materials Today Proceedings	2019
132	Design and Development of a Gear based Conveyor System	Anto Zacharias	Mechanical Engineering	International Journal for Scientific Research & Development	2018
133	Tuning characteristics of Co3O4 nanofiber mats developed for electrochemical sensing of glucose and H2O2	Gibin George	Mechanical Engineering	Dr. SUNNY JOSEPH KALAYATHANKAL M.Tech, MCA, M.Sc, M.Phil, B.Ed Ph.D (Computer Science), Ph.D (Maths) PRINCIPAL Jyothi Engineering College Cheruthuruthy P.O.- 679 531	2016



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134	Experimental Investigation of Waste Heat Recovery System for Household Refrigerator	Sreejith K.	Mechanical Engineering	Research Inveny: International Journal of Engineering And Science	2016
135	Different Modes in Four Wheel Steered Multi-Utility Vehicles	Arun Raj A	Mechanical Engineering	Research Inveny: International Journal of Engineering And Science	2016
136	Experimental Analysis ofYSZCoating onanICEngine Piston	Arun Raj A	Mechanical Engineering	Research Inveny: International Journal of Engineering And Science	2016
137	Fabrication and Analysis of Solar Powered Air Cooler	Suneeth Sukumaran	Mechanical Engineering	The International Journal Of Engineering And Science	2016
138	Effect of solid concentration on biogas production through anaerobic digestion of rapeseed oil cake	B. Deepanraj	Mechanical Engineering	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	2019
139	Design and Fabrication of Reverse GearMechanism for Handicapped People	Sukesh O.P	Mechanical Engineering	International Journal of Scientific & Engineering Research	2016
140	Experimental Investigation of a Helical Coil Heat Exchanger	Sreejith K	Mechanical Engineering	Research Inveny: International Journal of Engineering And Science	2015
141	Growth and investigations of 3rd order NLO properties of novel semi organic tartaric acid lithium sulfate single crystal for photonics application	B. Deepanraj, P. L. Biju	Mechanical Engineering	Optical and Quantum Electronics	2020
142	Thematic issue: energy provision from organic by-products, residues, and wastes in Asia	B. Deepanraj	Mechanical Engineering	Biomass Conversion and Biorefinery	2020
143	Biogas from food waste through anaerobic digestion: optimization with response surface methodology	B. Deepanraj	Mechanical Engineering	Biomass Conversion and Biorefinery	2020

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144	Influence of fatty acid composition on process optimization and characteristics assessment of biodiesel produced from waste animal fat	B. Deepanraj	Mechanical Engineering	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	2020
145	Estimation of fuel properties and characterization of hemp biodiesel using spectrometric techniques	B. Deepanraj	Mechanical Engineering	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	2020
146	Analysis of combustion, emission and performance attributes of hemp biodiesel on a compression ignition engine	Cijil. B. John	Mechanical Engineering	World Review of Science, Technology and Sust. Development	2020
147	Estimation of fuel properties and characterization of hemp biodiesel using spectrometric techniques	Cijil B. John, B. Deepanraj	Mechanical Engineering	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	2020
148	Palm stearin biodiesel: preparation, characterization using spectrometric techniques and the assessment of fuel properties	Cijil B. John, B. Deepanraj	Mechanical Engineering	Biomass Conversion and Biorefinery	2021
149	Cashew nut shell liquid as alternate fuel for CI engine— optimization approach for performance improvement	B. Deepanraj	Mechanical Engineering	Biomass Conversion and Biorefinery	2021

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Funded Projects (Sample List)

FUNDED RESEARCH PROJECTS						
Sl. No	Faculty Name	Department	Project Title	Funding Agency	Sanctioned Fund	Sanctioned Period
1	Dr.Anitha Jacob	CE	Driver Centric Safety Evaluation Of two lane rural highways	Kerala State Council for Science, Technology and Environment (KSCSTE)	12,72,400	July 2016-Dec 2018
2	Fr. Dr. Jaison Paul Mulerikkal	CSE	Intelligent CPS Data Analytics Platform for Metro Rail Transport system	DST	24,90,000	Nov 2018 to Nov 2021
3	Dr.Biju P.L and Mr. Manoj Kumar	ME	Eco-friendly management of used diapers and napkins	CERD (Under KTU)	Rs.49000/-	2019-20
4	Dr. Biju C V	ME	Development of Constant Power Discharging battery, using Power Capacitor	KSCSTE	Rs.9750/-	2019-20

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List of Collaboration (Sample)

Sl. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Year of collaboration
1	VAPT Reporting Tool	UST Global	2019
2	Machine Learning and Natural Language Processing	Amrita Viswa Vidyapeetham	2019
3	Fall Detector	Jubilee Mission Medical College & Research Institute, Thrissur, research@jmmc.ac.in, 9349151985	2019
4	Automated Hospital Bed with Patient Shifter and Bed Shifter	Jubilee Mission Medical College & Research Institute, Thrissur, research@jmmc.ac.in, 9349151985	2019
5	Early Childhood Behaviour Analysis Tool	Jubilee Mission Medical College & Research Institute, Thrissur, research@jmmc.ac.in, 9349151985	2019
6	Study Analysis of EMG Signals to Classify Different Strength Group	Jubilee Mission Medical College & Research Institute, Thrissur, research@jmmc.ac.in, 9349151985	2019
7	Reading Assistance For Visually Impaired	Jubilee Mission Medical College & Research Institute, Thrissur, research@jmmc.ac.in, 9349151985	2019
8	Smart Medicare	Jubilee Mission Medical College & Research Institute, Thrissur, research@jmmc.ac.in, 9349151985	2019
9	Strength and Behaviour of Needle Reinforced Concrete	Jubilee Mission Medical College & Research Institute, Thrissur, research@jmmc.ac.in, 9349151985	2019
10	Yuva MasterMind 20	Malayala Manorama & Amal Jyothi Engg. College	2020
11	Reboot Hackathon 2020	ASAP, Govt. Of Kerala	2020
12	Reboot Hackathon 2021	ASAP, Govt. Of Kerala	2020
13	Reboot Hackathon 2022	ASAP, Govt. Of Kerala	2020
14	Young Innovators Program 2019	K-DISC, Govt. Of Kerala	2019

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List of MOU (Sample)

Sl No:	Name of the institution/ industry/ corporate house with which MoU is signed	Year of signing MoU
1	Entuple Technologies	2014
2	Sahrdaya College of Advanced Studies (SCAS)	2019
3	Holy Cross Senior Secondary School Arthat (HCSSSA)	2019
4	Sahrdaya College of Advanced Studies (SCAS)	2020
5	St. Thomas College, Thrissur (SCT)	2020
6	Vidya Academy of Science and Technology	2020
7	Vidya Academy of Science and Technology	2018
8	Yuvakshetra institute of management College	2020
9	NINTRIVA TECHNOLOGY SOLUTIONS	2020
10	Alumni (1988-1991 Batch), THS, Shoranur	2015
11	Syro Malabar Archeparachy, Thrissur	2017
12	Syro Malabar Archeparachy, Thrissur	2017
13	I Expertz, Kaloor, Kochi	2016
14	ExpEYES, Inter University Accelerator Centre, New Delhi	2018
15	Syro Malabar Archeparachy, Thrissur	2017
16	TRIAXIA Infotech Private Limited	2019
17	MESSENGERIFY LABS PVT LTD	2019
18	CEDICOM Electronics	2020
19	Cube Associates,	2018
20	CEDICOM ELECTRONICS	2018
21	ELECTRO COMP SYSTEMS	2018
22	HYKON	2019
23	Vallathol Nagar Grama Panchayath	2016
24	FORMS- Builders, St Mary's Square	2017
25	CEDICOM ELECTRONICS	2017
26	ELECTRO COMP SYSTEMS	2016
27	SPINNER GROUP OF COMPANIES	2016
28	HYKON	2017
29	Christ University	2020
30	Indventr	2020
31	Linked	2016
32	Pelita banhasa university	2020
33	TBIRezonent	2017
34	SPATEZ technology	2015
35	Vidya Academy of Science and Technology	2019
36	Virtual Labs	2020

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TECH Talk

SI No	Topic	Department	Date
1	Poverty in India -Trends Methodology and Policy Challenges	BSH	17/11/2019
2	Solar Power –‘Green, Renewable & Cost effective source of Energy’	ECE	15/12/2019
3	Electric Vehicles – Technology, Opportunities and Scope	EEE	19/01/2020
4	Domestic Pollution and Remedial Measures	CE	16/02/2020

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Library

Details about books, titles, Journals (National/International), e- resources, e-journals, Thesis, etc.)

1. Total No. of titles: 12834
2. Total no. of books : 37971
3. Total no. of Print Journals (National): 99
4. Total no. of Print Journals (International): 11
5. Total no. of CDs : 2060

A good collection of 2060 CD-ROMs and Electronic journals can be accessed through Digital Library. In the digital library we have 36 computers connected to Internet. The library provides IP enabled access to E-books from Wiley Online Library and E-Journals in Engineering & Technology by the following two major publishers

- IEEE ASPP by IEEE
- Elsevier Engineering+ Computer Science by Elsevier
- ASCE E-Journal package.

The library has membership (Membership No. IM-1353) in Developing Library Network (DELNET) which provides access to Union Catalogue of Books & Journals, Interlibrary Loan and Document Delivery Services etc. It maintains an Online Union Catalogue of books available in its member-libraries, etc. It has 2,76,80,160 bibliographic records in the union catalogue of books. The request for inter-library loan can be placed through the online system.

Library also subscribes to web courses and video lectures developed under National Programme on Technology Enhanced Learning (NPTEL) by IIT Madras which is funded by Ministry of Human Resource Development (MHRD), Government of India. The main objective of NPTEL program is to enhance the quality of engineering education in the country by developing curriculum-based video and web courses. This is being carried out by seven IITs and IISc Bangalore as a collaborative project.

Total Number of Web Courses : 123, Total Number of Video Courses : 291

JEC Library Digital Repository has been developed with the help of open source software, DSpace (version 1.7.0), in order to collect, preserve and make accessible the scholarly and professional literature.

Currently it can be accessed through <http://202.88.225.92/xinhu>

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Fab Lab

Fab labs provide widespread access to modern means for invention. They began as an outreach project from MIT's Centre for Bits and Atoms (CBA), and became into a collaborative and global network. Fab Foundation Formed in 2009 to facilitate and support the growth of the international fab lab network as well as the development of regional capacity-building organizations.

Fab Lab – Kerala

With the support of Government of Kerala, KSUM has started two MIT USA Electronics Fabrication labs each at Technopark, Trivandrum and Kerala Technology Innovation Zone (KTIZ), Kochi. The FabLab in Technopark, Trivandrum is established inside the Indian Institute of Technology and Management- Kerala (IIITM-K). A Fabrication Laboratory (FabLab) is a technical prototyping platform for innovation and invention which aims at providing stimulus for local entrepreneurship and serves as a platform for learning and innovation.

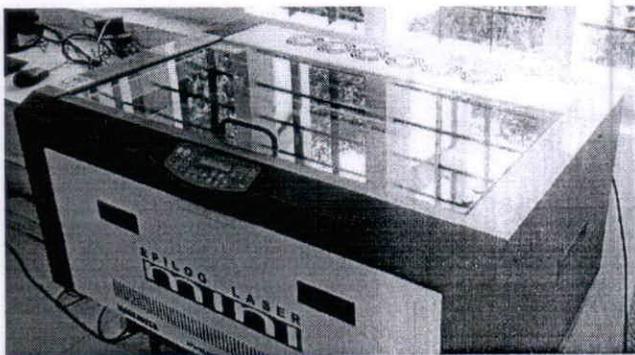
JECC FabLab

Jyothi Engineering College has started a mini FabLab (mini fabrication laboratory) with support of APJ Abdul Kalam Technological university and Kerala Start-up Mission (KSUM) in the college campus. JECC Mini FabLab is the one of the first 20 mini FabLab in Kerala. Each Mini FabLab contain machineries, tools and consumables cost of 50 lakh Indian rupees. All the equipment's are imported from FabLab foundation USA and equipment delivered in our college on May first week

First phase of training program held at Trivandrum FabLab for the mini FabLab staff on December 2016. A FabLab graduate assigned by FabLab foundation can only authorise to install the equipment's. JECC FabLab installed by Mr Louies (Portugal FabLab) and KSUM staff.

Machines and Facilities

Epilog Laser cutter



Laser cutter machine for cutting and engraving acrylic, cardboard, craft wood. Maximum Area is 2X1 feet.

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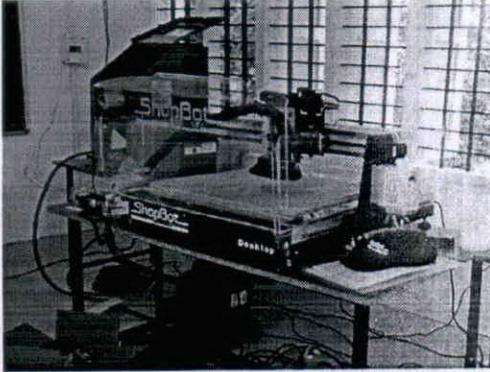
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Shopbot CNC



smaller-sized ShopBot Desktop is a digital fabrication powerhouse. In addition to impressive woodworking capabilities, the Desktop delivers engraving level precision and the power and rigidity to machine parts from wood, plastic, aluminium, and other materials. The Desktop can perform a wide range of workbench, prototyping and production projects. The same machine also can be used for PCB milling and drilling.

3D Printer



The creation of a 3D printed object is achieved using additive processes. In an additive process an object is created by laying down successive layers of material until the object is created. A 3D scanner also available for scanning and creating 3D images

Roland Vinyl Cutter



Vinyl cutters look like computer printers. The computer controls the movement of a sharp blade. This blade is used to cut out shapes and letters from sheets of thin self-adhesive plastic (vinyl). The same machine also can be used for flexible type PCB

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Electronic Work Bench



There are many electronic equipment's available with min Fab Lab for fabrication and prototyping of electronics projects. They are DSO, Function generators, Power Supply Magnifiers, Electronic Microscope.

Sand Blasting Machine

The machine for cleaning a metal surface. It uses a compressed air for the operation

Moulding & Casting

Liquid plastic available for making shapes. the Moulds can be created by CNC machine or 3D printers

All the machineries and equipment's tested. Inventory list preparation and verification is going on. It is found that all 16 Amp power socket can be purchased with Indian standard. It is recommended to build a separate cabin for sand blaster, CNC and laser cutter to reduce noise.

A team consist of teaching and non-teaching staff from various departments required to smooth conducting of the lab.

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Financial Assistant Policy

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 A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR
 JYOTHI HILLS, VETTIKATTIRI, P.O., CHERUTHURUTHY, TRISSUR, PIN 679531. PH: +91-4884 259000, 274423 FAX: 04884-274777
 NBA accredited B.Tech Programmes in Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering valid for the academic years 2016-2022. NBA accredited B.Tech Programme in Civil Engineering valid for the academic years 2019-2022.

JEC/A/8/21 24 March 2021

ORDER

Financial Assistance Policy for Research & Publications (Version 2)

The Jyothi Engineering College, Cheruthuruthy (JECC) aims to improve overall research performance and promote research activities undertaken by various Departments/ Faculty Members. For this purpose, the Institute has introduced Research Incentive Scheme (RIS) to the Faculty Members. RIS is a means to assist with research activities and reward staff for successful publication or presentation of research outputs.

Objective:
 To give a special thrust to the research culture in JECC, and thus ameliorate the profile of the Institute in the Country.

Research Incentive Scheme (RIS)

- The Faculty who are receiving any Research Allowance or Fellowship are not eligible for RIS.
- The Quality Publications (SCIE/ SCOPUS Indexed Journals, Conferences) only will be considered.
- The publication which is a part of Ph.D. programme (with Ph.D. Supervisor as Co-author) will not be considered.
- Publications with Jyothi Engineering College Affiliation will only be considered.

The details of the incentives are as follows:

I. Journal Publications

- Publication Cited in Thompson Reuters (SCIE) : Rs. 7000/- paper
- Publication Cited in Scopus : Rs. 3000/- paper

Sl. No.	Criteria	Weightage
1	Single Author Publication	100%
2	If First and Corresponding Authors are Faculty Members	50% each
3	If more than Two Authors	70% (Computer) Others 30%

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II. Conferences Publications

i. Conferences with SCIE/SCOPUS indexed proceedings

- Registration fee can be reimbursed up to 50% with the maximum cap of Rs. 2,000/-
The weightage for the Authorship will be considered as per the above Table in Section I.
- Duty leave will be provided.
- TA/DA assistance can be provided on a case-by-case basis, on the request of the concerned person to the Management.

ii. Conferences with published proceedings with reputed publishing houses like IEEE, ACM, Springer, Elsevier, etc. (or equivalent)

- Duty leave will be provided.

III. Patents

- Granted with Institute as one of the Inventors/Assignee : Max. 20000/-
- Granted with Institute Affiliation : Max. 5000/-
- If more than one Inventor, incentives will be equally divided.

Management will take necessary decision on a case-by-case basis.

IV. Funded Projects

Incentive will be paid to the team of Investigators of research projects with external funding in an amount equal to 5% from institutional overhead. This incentive will be paid in two parts - 3% after receipt of the 70% of the project amount and the other 2% on completion of the project and receipt of the balance amount of the project. The incentive amount is divided equally among all the Investigators.

V. Consultancy Projects

- If there is a substantial contribution by the Faculty Member and the Staff in the consultancy project and no resources of the College (like laboratory, computer, software etc.) utilized, the members involved in the consultancy project will take 80% of the total net amount so received by the Institution and 20% will go to the College. If there is more than one person involved in the consultancy project, the amount will be equally distributed.

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- If the resource of the College such as laboratory facilities, computing facilities, drafting or any other facilities have been utilized in the consultancy project, the share of the College will be 70% of the net amount received from the consultancy work and 30% will go to the Faculty and other Staff involved in the work.

NOTE:

- The RIS facility is limited to only three activities in a financial year.
- Recommendations are made through the respective HOD and the final decision is taken by the Management in consultation with Director of Research and Principal.


Fr. NDY VADAKKAN
Secretary & Assistant Manager

To

The Director (Research), JECC

Copy to :

1. The Principal
2. The DA
3. The ADM/ AAs
4. All HODs
5. The CIO
6. File

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JECC Talk

SI No	Speaker	Department	Topic
1	Suganthy S	BSH	GST നിങ്ങൾ ഇനിയും കേൾക്കാത്തത്
2	Sobha Xavier P	CSE	നിങ്ങളുടെ കുട്ടികൾ യൂട്യൂബിൽ സുരക്ഷിതരോ?
3	Jasmine Jose	BSH	പാചകത്തിന്റെ രസതന്ത്രം
4	Anto Zacharias	ME	ഇനി മുതൽ BS 6 എഞ്ചിനുകൾ മാത്രം
5	Agnes	CE	വീട് പണിയുന്നുണ്ടോ? ഇത് നിങ്ങൾ കേൾക്കണം
6	Vincy	CE	നിങ്ങൾക്കറിയാത്ത ചില ട്രാഫിക് സിഗ്നലുകൾ
7	Minu Jose	BSH	കണക്കിന്റെ എളുപ്പവഴികൾ
8	Nyni K A	MR	അൾട്രാ സൗണ്ട് സ്കാനിങ്
9	Priya Jose	BSH	സ്വപ്ന വേഗതയിൽ ഒരു ട്രെയിൻ
10	Jenson Jose	EEE	വൈദ്യുതി അളക്കാൻ അറിയാമോ?
11	Annie Joseph	ECE	മൊബൈൽ റേഡിയേഷൻ - ശ്രദ്ധിക്കേണ്ട കാര്യങ്ങൾ
12	Dr. Nisha P V	EEE	How to select a Home Inverter ഇൻവെർട്ടറിനെക്കുറിച്ച് നിങ്ങൾ അറിയേണ്ടതെന്തെല്ലാം
13	Dr. David K J	ME	Two Wheeler Starting problem
14	Dr. Usha Menon	BSH	Tips - How to Improve Your English Pronunciation
15	Ambily Francis	ECE	HDD v. SSD (Dr. Sunny Joseph Kalayathankal Ph.D (Computer Science), Ph.D (Maths) PRINCIPAL)
16	Carol	CE	നിങ്ങൾക്കറിയാമോ Carbon Foot Print



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17	Lufiya George C	CSE	നിങ്ങൾക്കറിയാമോ Online Coding
18	Suganthy	BSH	മോനറ്റോറിയത്തെക്കുറിച്ച് നിങ്ങൾക്ക് അറിയാത്ത ചില രഹസ്യങ്ങൾ
19	Aswathy Wilson	CSE	കമ്പ്യൂട്ടർ ഉപയോഗിക്കുന്ന ആളാണെങ്കിൽ തീർച്ചയായും അറിഞ്ഞിരിക്കണം
20	George Rapheal	ME	NUTS BOLTS AND SCREWS
21	George Rapheal	ME	NUTS BOLTS AND SCREWS
22	Neeraja P G	CE	Engineered Wood തെരഞ്ഞെടുക്കേണ്ടത് എങ്ങനെ?

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Add-On Course

Year 2019-20

Name of Add On /Certificate Programs Offered	Year of offering	No. of times Course offered during the same Year	Duration Of Course	Number of Students enrolled	Number of Students Completed the Course
Introduction to VHDL	2019	2	= 76 HOURS	35	35
EMBEDDED SYSTEMS DESIGN WITH 8051	2019	1	32 HOURS	35	35
CCTV INSTALLATION	2019	2	31 HOURS	42	42
WORKSHOP ON 3-D DESIGN & 3-D PRINTING (FABLAB)	2019	1	30 HOURS	22	22
COMPUTER AIDED DESIGN	2019	2	32 HOURS	26	26
Domestic Water Pollution and Remedial Measures	2020	1	30 HOURS	30	30
Basics of Programming	2020	1	30 HOURS	72	72
Programming Python (InfyTQ)	2020	1	30 HOURS	86	86
Full Stack developer – Phase 1	2020	1	30 HOURS	88	88
FUNDAMENTALS OF MATLAB	2020	1	30 HOURS	58	58
Electronic Circuit Simulation and PCB Printing	2020	1	32 HOURS	36	36
Laser and Vinyl Cutter	2020	1		23	23
NPTEL	2020	1		196	196

Year 2018-19

Name of Add On /Certificate Programs Offered	Year of offering	No. of times Course offered during the same Year	Duration Of Course	Number of Students enrolled	Number of Students Completed the Course
BEC	2018	1	1 Year	56	56
Programming Python	2018	1	35 Hours	30	30
Full Stack developer (Basics of Web Programming)	2019	1	35 Hours	30	30
PCB Fabrication	2018	1	34Hours	22	22
Document Preparation Using LaTeX	2019	1	35Hours	25	25

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INTRODUCTION TO VHDL	2018-2019(OD D)	1	34 HOURS	22	22
ELECTRONICS CIRCUIT SIMULATION& PCB PRINTING	2018-19 (EVEN)	1	35 HOURS	27	27
Total station Training	2016	1	32 HOURS	12	12
NPTEL	2018	1		81	81
Year 2017-18					
Name of Add On /Certificate Programs Offered	Year of offering	No. of times Course offered during the same Year	Duration Of Course	Number of Students enrolled	Number of Students Completed the Course
BEC	2017	1	1 Year	34	34
Introduction to arduino	2017	1	33 Hours	20	20
Object-Oriented Programming using the Java programming language	2018	1	33 Hours	20	20
Document Preparation Using LaTeX	2017	1	35 Hours	28	28
Introduction to MATLAB	2018	1	34Hours	20	20
introduction to programming in MatLab	2017	1	37 HOUR	30	30
NPTEL				4	4
Year 2017-16					
Name of Add On /Certificate Programs Offered	Year of offering	No. of times Course offered during the same Year	Duration Of Course	Number of Students enrolled	Number of Students Completed the Course
BEC	2016	1	1 Year	113	113
C Programming	2016	1	35 Hours	40	40
Sheet Metal Design using SOLIDWORKS	2016	1	40 hours	30	26
Object-Oriented Programming using the Java programming language	2017	1	33 Hours	30	20
Total station Training	2016	1	32 hours	12	12
NPTEL					

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Year 2015-16

Name of Add On /Certificate Programs Offered	Year of offering	No. of times Course offered during the same Year	Duration Of Course	Number of Students enrolled	Number of Students Completed the Course
BEC	2015	1	1 Year	32	32
Sheet Metal Design using SOLIDWORKS	2016	1	40 hours	30	26
Python Programming	2015	1	35 hours	39	39
Full Stack developer (Basics of Web Programming)	2016	1	35 hours	32	32

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