



CREATING TECHNOLOGY  
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ESTD 2002

# Jyothi

A CENTRE OF EXCELLENCE RUN BY THE ARCHDIOCESE OF TRICHUR

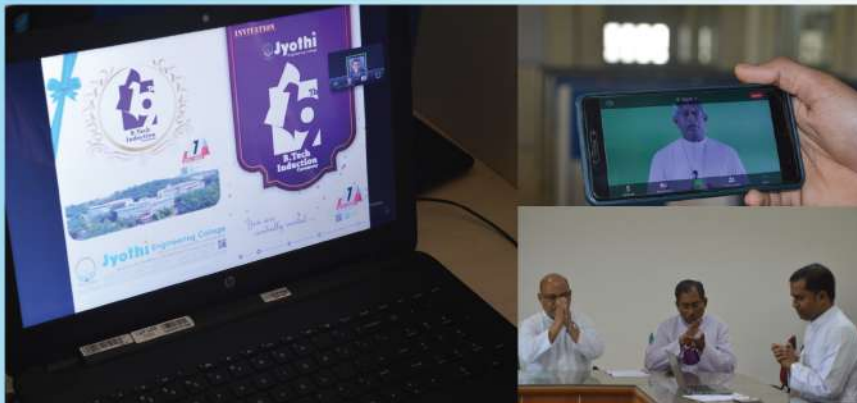
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JYOTHI HILLS, P. O. VETTIKATTIRI, CHERUTHURUTHY, THRISSUR - 679531



JULY 2020

BOOK 12

ISSUE 2



## Induction Ceremony 2020

The online Induction Ceremony of the 19<sup>th</sup> batch of B.Tech students is scheduled to be held on 1<sup>st</sup> December 2020. His Grace Mar Andrews Thazhath inaugurated the event.

## Engineers Day Celebrations

'53<sup>rd</sup> Engineers' Day Celebrations' organized by the Departments of Mechatronics Engineering in association with IE(I) on 15<sup>th</sup> September 2020 at 2.00 P. M. through Google Meet. The Chief Guest of the day is Dr. Kuncheria P. Isaac, Founder Vice Chancellor - KTU, Vice Chancellor - Hindustan University, Chennai. After the inaugural ceremony, the chief guest delivered the Keynote Address.

### 53<sup>rd</sup> ENGINEERS' DAY

Engineers for Self Reliant India

Inauguration : **Dr. Kuncheria P. Isaac**  
(Founder Vice Chancellor-KTU,  
Vice Chancellor-Hindustan University)

Organized by :  
**DEPARTMENT OF MECHATRONICS ENGINEERING**  
in Association with **IE(I)**

Date : 15/09/2020  
Time : 2.00 PM

Meet link :  
[meet.google.com/aws-rvqy-haq](https://meet.google.com/aws-rvqy-haq)

Bharat Ratna Sir M Visvesvaraya  
(1860-1962)

**Jyothi Engineering College**  
BBAU, Changanassery, Thrissur, Kerala



## Welcome Principal Dr. Sunny Joseph Kalayathankal



## Christmas Celebrations 2020



# Memorandum of Understanding (MOU)



with **UNIVERSITAS PELITA BANGSA, Indonesia**



with **FRIENDS OF BHARATHAPUZHA**



with **INDVENTR**



with **Christ (Deemed to be University), Bangalore**



with **Yuvakshetra Institute of Management Studies, Palakkad**



with **TATA Technologies**



## Major Activities



(1) Civil Department of Jyothi Engineering College Cheruthuruthy and Friends of Bharathapuzha (FoB) signed a Memorandum of Understanding on 17.10.2020. Friends of Bharathapuzha, is a People's Collective for Strengthening and Protecting Bharathapuzha River headed by Dr. E Sreedharan, popularly known as "Metro Man". Mr. Vinod Nambiar, Secretary, and Dr. Sunny Joseph Kalayathankal, Principal, Jyothi Engineering College, signed the MoU. Campus head Fr. Roy Joseph Vadakkan, Academic Director Fr. Jose Kannampuzha, Head of Civil Department Ms. Vincy Verghese and Senior Professor from Civil Department Mr. M. G. Cyriac were present. The Civil Department and FOB will collaborate and set up a task force to take up a detailed survey of Bharathapuzha river basin wards in Shornur Municipality and Cheruthuruthy Panchayath Area. The objective of the task force is to study the water quality variation in Bharathapuzha during a period of about one year to assess the pollution potential of the river. The study will focus on the origin of waste, types of waste and typical water sources at large. The survey analysis and report will be shared to the Shornur Municipality and Cheruthuruthy Panchayath for the follow up actions.

(2) Ms. Archana and Ms. Neeraja P. G. Coordinated Webinar On "Intelligent Transportation System (ITS) Applications Under Homogeneous And Mixed Traffic Conditions", by Dr. Anusha S. P., on 6 Aug 2020.

(3) Ms. Archana and Ms. Anju M. J. coordinated a Webinar On "Managing Traffic Trough Calming", by Dr. Anitha Jacob, on 10 Aug 2020.

(4) Ms. Carol Varghese and Ms. Jisha Akkara coordinated ISTE, Student Chapter Quiz "CONCEPTO" organized on 17.10.20.

(5) Ms. Archana S. and Ms. Vincy Verghese coordinated a Webinar On "Traffic Impact Study – Industrial Practices", by Mr. Niju Azhakesan on 14 Aug 2020.

(6) Mr. Alwyn Varghese Coordinated Webinar on "Basics of structural design" on 27 Oct 2020 in association with ICI.

(7) Mr. Alwyn Varghese Coordinated Webinar on "Space for Healthy Living", by Mr. Anoop K. T., on 15 Dec 2020 in association with ICI.

(8) Dr. Agnes Anto and Ms. Carol Varghese coordinated a Webinar on "Waste water Management - Overview" by Dr. Joseph V. Thanikal, organised in association with IEI on 8 Dec 2020.

## Faculty Achievements

(1) Dr. Agnes Anto C. Paper titled "DecoMSW: A methodology to Assess Decomposition of Municipal Solid Waste for initiation of Landfill Mining Activities, accepted for The Journal of Solid Waste Technology and Management.

(2) Mr. Alwyn Varghese published a paper titled "Influence of Fiber on Shear Behavior of Concrete Exposed to Elevated Temperature" in the journal of IJE transactions A: basics. (Scopus indexed).

(3) Ms. Jisha Akkara presented a paper on Workload based consistency evaluation of two-lane rural highways in National conference on resilient infrastructure 2020 organized by Kerala Highway research institute and IIT Palakkad on 17-12-2020.

(4) Mr. Athiappan K. delivered a technical talk on "Design Concept of Flexible Pavement using IITPAVE" on 16-October 2020 organized by SAI RAM Institute of Technology, Chennai.

(5) Mr. Parthiban successfully completed MOOC Course on Professional diploma program in Accounting organized by European Open University.

(6) Ms. Neeraja P. G. and Ms. Anju M. J. got admission for PhD at Christ Deemed to be university Bangalore.

## Students' Achievements

(1) Ms. Anjali Suresh, S5CE got selected to Idea Star Singer – The Epic Show telecasted in Asianet Channel.



(2) Mr. Parthiban P., M. Tech second year student presented Publication in Proceeding of National Conference on Emerging Trends in Civil Engineering during 26th – 27th June, 2020, "Pedestrian Flow and Capacity Analysis at Railway Station."



(3) Mr. Eloi C. J., Ms. Clodiya Charly, Ms. Olfy Nixon and Mr. Saison Xavier (UG 2016-20), presented a paper on "Carbon Neutral Thrissur" at National conference on resilient infrastructure 2020, organised by Kerala Highway research institute and IIT Palakkad.



(4) Ms. Dona Joy (PG 2018-20) presented a paper on Effect of combined curve on driver's heart rate in National conference on resilient infrastructure 2020 organized by Kerala Highway research institute and IIT Palakkad.





## Dept. News Civil Engineering

(5) Ms. Rohini P. (PG 2018-20), presented a paper on "Effect of Fuel Price on Activity pattern of Thrissur City" at National conference on resilient infrastructure 2020, organized by Kerala Highway research institute and IIT Palakkad.



(6) Ms. Silpa Sekhar G. (PG 2018-20), presented a paper on DissipatiQueue on Time and Travel Time Estimation Model for Emergency Vehicles Under Pre-emption Control in National conference on Resilient Infrastructure 2020 organized by Kerala Highway research institute and IIT Palakkad.



(7) Ms. Nivya Varghese V. (PG 2019-21) presented a paper on Efficiency Analysis of Electronic Toll Collection in a Toll Plaza in National conference on Resilient Infrastructure 2020 organised by Kerala Highway research institute and IIT Palakkad.



(8) Ms. Mahima Mary Thomas (PG 2019-21) presented a paper on Reclaimed Asphalt Pavement: A Review in National conference on Resilient Infrastructure 2020 organised by Kerala Highway research institute and IIT Palakkad.



(9) Ms. Arul Jose (PG 2019-21) presented a paper on Accessing role of public transport in post Covid scenario - a literature review in 7th Conference On Transportation Systems Engineering And Management organized by KSC-STE-National Transportation Planning and Research Centre & College of Engineering Trivandrum.



### BTech - Semester 4



Swathy P. Mohan  
CGPA - 9.05



Shilpa Sekhar G.  
CGPA - 8.84



Anupama Krishnan  
CGPA - 8.79

**The APJ Abdul Kalam Technological University declared the rank list for MTech in Transportation Engineering for 2017-2019 batch.**



Arathi A. R.  
CGPA - 9.37  
I<sup>st</sup> Rank



Nivea John  
CGPA - 8.32  
II<sup>nd</sup> Rank



Midhun T.  
CGPA - 8.27  
III<sup>rd</sup> Rank

### New teaching faculty joined:



Mr. Parthiban P.



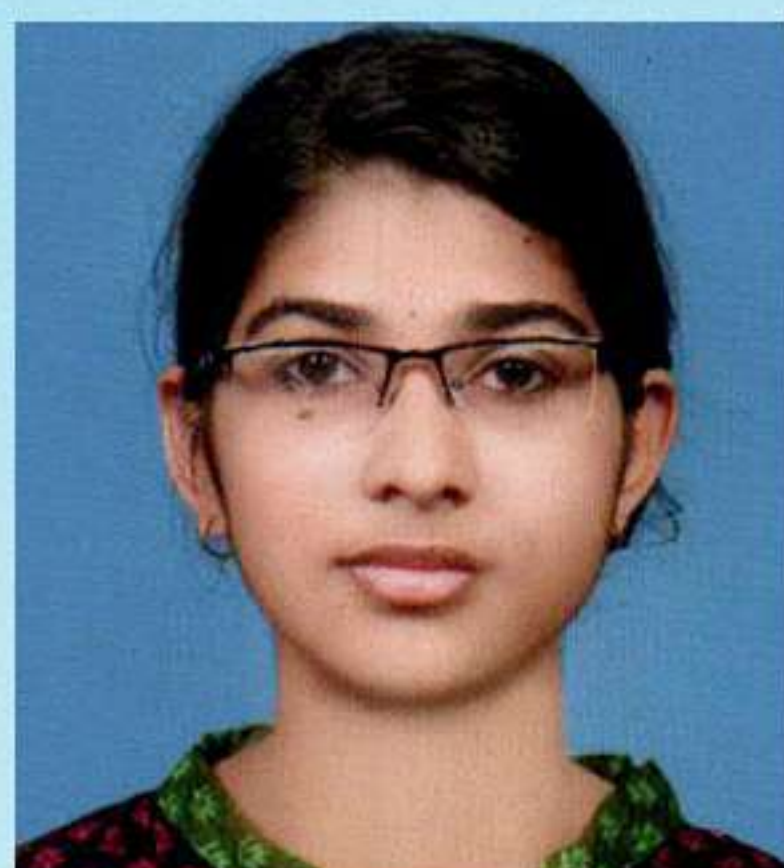
Mr. Athiyappan



Mr. Alwyn Varghese

## University Result Toppers

### BTech - Semester 8



Dona Thomas  
SGPA - 9.63



Henna Maria  
SGPA - 9.53



Salini  
SGPA - 9.32



## Dept. News Basic Science & Humanities

### Major Activities

(1) IQAC conducted "Webinar on Refresher Course on Mathematical Essentials of Engineering" in association with BSH department from 10th August 2020 to 14th August 2020. Ms. Nivya Wilson, Ms. Viji E. P., Ms. Renju Francis, Ms. Smija Skaria and Mr. Rich K. J. were the resource persons of the programme.

(2) Ms. Jasmin Jose & Mr. Praveen Raj are deputed as Deputy Superintendent of NEET Examination conducted on 13/09/2020.

(3) First year preparatory course started on 16/11/2020 and orientation classes started on 30/11/2020.



# Faculty Achievements

### Awards received

(1) Ms. Minu Jos K. and Mr. Sivakumar K. S. has joined PhD at Vidya Academy of Science & Technology, Thrissur and Govt. Engineering College Thrissur respectively under APJ Abdul Kalam Technological University.

(2) Ms. Jasmine Jose and Mr. Rich K. J. joined for PhD in Chemistry and Graph Theory respectively at Christ University, Bangalore.

(3) Ms. Suganthi T. joined for PhD in Economics & Management at Amrita University, Coimbatore.

### External funds received for projects

(1) Ms. Viji E. P. presented paper on the topic "Reliability of a 1-out-of-m system with hot n-out-of-n subsystems as components" in Journal Club organized by Research Cell on 24/09/2020.

## Dept. News Electrical & Electronics Engineering

# Major Activities

(1) A webinar on " KSEB Electricity Billing Myths & Facts " was conducted on 10/ 07/2020 by K.K Dileepkumar, Asst. Engineer & Secretary KSEB Officers Association, Thrissur District Committee.

(2) A webinar on " New trends in Lighting design" in association with IEEE-IAS was conducted on 04/ 07/2020 by Mr. Adhitya S. Assistant Manager, Operations, Sodfos Engineering Consultancy.

(3) A webinar on " Introducing IEEE Member benefits, Resources, and Opportunities " in association with IEEE-IAS was conducted on 22/07/2020 by Dr. Chun Che Lance Fung, Emeritus Professor, Murdoch University.

(4) A webinar on " Renewable Integration in the Grid- Challenges and Opportunities " in association with IEEE-IAS was conducted on 05/08/2020 by Dr. Abhijit Kshirsagar, Professor, IIT Dharwad.

(5) The All Kerala Project Competition jointly organized by IEEE IA/ IE/ PELS Jt. Chapter Kerala Section, IEEE SB Jyothi Engineering College, IAS SBC Jyothi Engineering College & IEDC Jyothi Engineering College in association with Department of Electrical and Electronics Engineering, Jyothi Engineering College was held through online mode on 6th December 2020.

(5) Mr.Jithin K. Jose, as a panel member in selecting the Best Event Report among the PELS student Branch chapters in Kerala, conducted in connection with the PELS Day Celebrations 2020.

(6) Mr.Jithin K. Jose presented a Webinar on Industrial Automation for the students of Vimal Jyothi Engineering College, Kannur.

(7) Mr.Jithin K. Jose was elevated as IEEE Senior Member the highest grade for IEEE members, an honor bestowed only to those who have made significant contributions to the profession.

(8) Mr.Jithin K. Jose was selected as Kochi Representative for IEEE IA/IE/PELS joint chapter Kerala Section, Professional Execom for the fourth time.

# Students' Achievements

(1) Telma Johnson of S4 PG published a paper on "Novel State Disturbance based Multi-Level Inverter with Sliding Mode Control", In proc of ICDICI-2020, Tiruvelveli, India, 8-9 July 2020.

(2) E. P. Shahina and K. Aravind of S4 PG, presented a paper on "THD Reduction in Execution of A Nine Level Single Phase Inverter" in International Conference on Communication and Signal Processing (ICCSP) 2020.

(3) C. Greeshma, E. P. Shahina of S4 PG, presented a paper on A PV based Microinverter with Bidirectional Battery Charging Application in the Input Stage in International Conference on Communication and Signal Processing (ICCSP) 2020.

(4) Ms. Amritha Ashok K., Ms. Anitta Savy, Mr. Benhur K. Babu, Ms. Sneha J. P. of S7 EEE, got funding from Center for Advanced Technologies in Disaster Management (CATDM), CUSAT for their project "Automatic Flood Detection & Electrical Isolation System(AFDEIS)".

(5) Mr. Joseph P.K., Mr. Edwin Joseph and Mr. Giyo George of S8 EEE got first prize in the IEEE-IAS sponsored All Kerala Project Competition held in December 2020 for their project titled Head Controlled Wheel Chair with Patient Monitoring guided by Mr. Jithin K. Jose Asst. Prof EEE Dept.

(6) Mr. Kapildev M.K., Mr. K.U. Mansoor, Mr. Sahal K.H. of S7 EEE got Third Price in the IEEE- IAS sponsored All Kerala Project Competition for their project titled "GESTER AID GLOVES" guided by Mr. Jithin K. Jose Asst. Prof EEE Dept.

(7) Mr. Kapildev M.K., Mr. K.U. Mansoor, Mr. Sahal K.H. of S7 EEE got honorable mention under the Makerfair track during IEEE YESIST12, 2020 for their project "Patient Communication Aid Without Sign Languages"

# Staff Achievements

(1) Congratulations to Dr. Nisha P. V. for achieving the degree of Doctor of Philosophy from NIT, Calicut on the topic "ANALYSIS OF ELECTROMAGNETIC INTERFERENCE IN POWER ELECTRONIC BASED SYSTEMS AND THEIR MITIGATION METHODS".



(2) Dr.Shijoh V., as resource person for the online FDP on Accreditation Process-The way forward at Government Polytechnic College, Chelakkara on 28/7/2020.



(3) Dr.Shijoh V presented a Webinar on Introduction to NBA Accreditation at Albertian Institute of Management, Kochi on 23/7/2020.



(4) Mr.Jithin K. Jose, as a committee member for the evaluation of the online Hackathon 'MedHack 2020' organized by IEEE-IA/IE/PELS Jt.chapter Kerala on 9th August 2020.



## Dept. News Electrical & Electronics Engineering



Telma Johnson



E. P. Shahina



C. Greeshma

### University Result Toppers

#### BTech - Semester 8



John Jose  
SGPA 10



Albin Joy  
SGPA 9.5



Anoop R.  
SGPA 9.33

#### BTech - Semester 6



Sneha J.P.  
SGPA 10



Amritha Ashok K.  
SGPA 9.91



Anitta Savy  
SGPA 9.87

#### BTech - Semester 4



Rahul S.S.  
SGPA 9.46



Anleya Anto  
SGPA 8.96



Saraswathy Bose  
SGPA 8.63

#### MTech Toppers



Shahina E.P.  
CGPA 7.82



Greeshma C.  
CGPA 7.61



Telma Johnson  
CGPA 7.6

## Dept. News Computer Science & Engineering

### Department Events

(1) Competitive Exam Training Club Inaugurated by Ms. Aiswarya Jyothis and Mr. Vishnu C. 18/12/2020.



Aiswarya Jyothis



Vishnu C.

(2) Department of CSE conducted a program "We for you" - Laptop distribution in association with CSE and IT department Alumni Association - 9/9/2020.



### Faculty Achievements

(1) Dr. Vinith R. delivered a seminar on Deep Learning and Graphical Models: A confluence of two distinct capabilities, as part of Journal club activities in JECC on 29/12/2020.

(2) Dr. Vinith R. offered a webinar on Data Analytics, at MES Institute of Technology and Management Chathannoor, Kollam - 18/10/2020.

(3) Dr. Vinith R. Appointed as HoD incharge of CSE department - 1/8/2020.

(4) Dr. Aswathy S. U. promoted as Professor in the CSE Department.

(5) Dr. Aswathy S. U. published a book on "Information and Cyber Security: Principles and Practices" - 8/9/2020.

(6) Dr. Swapna B. Sasi promoted as Associate professor in CSE Department - 10/11/2020.



Dr. Vinith R.



Dr. Swapna B. Sasi



Dr. Aswathy S. U.



# Dept. News Computer Science & Engineering

(7) Mr. Aneesh Chandran, Mr. Anil Antony, Mr. Bineesh M., Ms. Namitha T. N., Ms. Reshma K. V., Ms. Sobha Xavier P. and Ms. Sajitha I., got admission for PhD AT Christ University, Bangalore.



Aneesh Chandran



Anil Antony



Bineesh M.



Namitha T. N.



Reshma K. V.



Sobha Xavier P.



Sajitha I.

(8) The Team Guided by Mr. Bineesh M., AP CSE Department secured second position in 10th Kerala Reboot Hackathon on Local Self Government - 27/8/2020.

## Student Achievements

(1) Bivin Babu Chalissery, Arya Manoj, Anjali Anne Prathap, Ajin N. D., Niva Dilip, Joseph And Rashi M. Of S7 Got Placement In TCS Technologies.



Bivin Babu Chalissery



Arya Manoj



Anjali Anne Prathap



Ajin N. D.



Niva Dilip



Joseph



Rashi M.

(2) Maneesh, Sreerag and Niva Dilip got placement in CTS.

(3) Sidharth S. Unnikrishnan S3 CSE B secured second prize in National Mathematics Day Quiz, Conducted by ICT Academy Kerala, secured second prize in web designing, conducted by AKCSSC 2020.



Maneesh



Sreerag



Niva Dilip



Sidharth S. Unnikrishnan

(4) Rashi M., Muhammed Raneesh, Maneesh Manoj of S7 CSE B, offered a webinar on Mobile Application Development-31/10/2020.

(5) Amal Shibu, A. Krishna Prasad, Ann Rose Jenson, Ajeeb P. A., Aiswarya K. of S3 CSE A secured first prize in PARADIGM-project Proposal organized by PG Department of Vimala College - 9/10/2020.

(6) Amal Sebastian, G. Ramgopal, Edwin T. Joy, Gayathri Dinesh, Ajmal Basheer Of S5 CSE A and Fincy S3 CSE A secured Third position in 10th Kerala Reboot Hackathon on Local Self Government - 27/8/2020.

(7) Ajeeb P. A. Secured First prize in Website Creation as a part of intercollegiate Techfest Riti organized by Vimala College-22/8/2020 TVM.

(8) Ajmal Basheer - S5 CSE A Selected as Microsoft Learn Beta Student and Youth International Model United Nations (AYIMUN) Virtual Conference to represent the country Tajikistan.



Muhammed Raneesh



Amal Shibu



A. Krishna Praad



Ann Rose Jenson



Ajeeb P. A.



Aiswarya K.



Amal Sebastian



G. Ramgopal



Edwin T. Joy



Gayathri Dinesh



Ajmal Basheer

## University Results

Archana Venugopal, Araya P. Menon, Kavya K., Rincy R., Roshni K. R. of 2020 passout batch secured 10CGPA in eighth semester exam.



Archana Venugopal



Araya P. Menon



Kavya K.



Rincy R.



Roshni K. R.



## Major Activities

- (1) A webinar on "Anatomy of Drones" was conducted on 08-08-2020 in association with ISTE Student Chapter & ECSA.
- (2) A webinar on "Tips to Crack Campus Recruitment" was conducted on 27-07-2020 by Mr. Nandan S. (Assistant Professor, LBS Institute of Technology for Women) organized in association with Institute of Engineers India (IEI) and Electronics & Communication Student Association (ECSA).
- (3) A webinar on "Introduction to Image Processing" was conducted on 05-08-2020 by Mr. Nithin Thomas Abraham (Research Scholar, NIT Calicut), Organized in association with Indian Society for Technical Education (ISTE) Student Chapter and Electronics & Communication Engineering Students Association (ECSA).



- (4) A webinar on "Civil service after BTech" was conducted on 25-07-2020, organized in Association with ISTE.
- A webinar on "The Past, Present, and Future of Clean Energy Technologies: A Computational Perspective" was conducted on 21-07-2020, organized in association with IEI (ECE) & ECSA.
- (5) A webinar on "Antennas in Biomedical Applications & MIMO Technology" was conducted on 24-06-2020, organized in association with IEI (ECE) & ECSA.
  - (6) A webinar on "CRYPTOCURRENCY: Impact on world Economy" was conducted on 25-07-2020, organized in association with IETE and ECSA.



- (7) A Workshop on "Efficient design & manufacturing of printed circuit boards using IPC standards" was conducted on 15, 16 & 17, December 2020 organized in association with IETE & ECSA.
- (8) "52nd Engineer's Day Celebrations" was celebrated on 25th September 2019. A talk on "Engineering for Change" was delivered by Shri. V. G. Shankaranarayanan (Chairman, IE(I) Local Chapter, Thrissur). The programme organized in association with IEI (ECE).
- (9) Dr. Jose P Therattil, Ms. Neethu Rose Thomas and Ms. Roshni Rajan K. has been resource persons for the webinar series on "Sensors and Transducers" organized by Department of Computer Science, Yuvakshetra college.

## Faculty Achievements



Sindhu S.

- (1) Ms. Sindhu S. completed her PhD defense at Amrita Vishwa VidyaPeetham on 21/10/2020.

## Faculty publication

- (1) Dr. Prajoon P. published a journal paper titled "Optical Grating Techniques for MEMS based Spectrometer -A Review," in IEEE Sensors Journal,
- (2) Dr. Prajoon P. published a journal paper titled "A Numerical Investigation of Heat Suppression in HEMT for Power Electronics Application", in Silicon.
- (3) Dr. Prajoon P. published a journal paper titled "Impact of AlInN back-barrier over AlGaIn/GaN MOS-HEMT with HfO2 dielectric using Cubic Spline Interpolation Technique " in IEEE Trans. Electron Devices.
- (4) Dr. Prajoon P. published a conference publication titled "CSI based Analytical Model for evaluation of DC Characteristics in Al-GaN/GaN/AlInN MOS-HEMT using high-k dielectrics", in 2020 4th International Conference on Electronics, Communication and Aerospace Technology (ICECA), Coimbatore, India.
- (5) Dr. Prajoon P. published a conference publication titled "Luminous power improvement in InGaIn V-Shaped Quantum Well LED using CSG on SiC Substrate", IOP Conf. Series: Materials Science and Engineering 906 (2020).
- (6) Ms. Roshini Rajan and Ms. Annie P. Joseph published a journal publication on "Domestic Language Accent Detector Using MFCC and GMM" in International Journal of Applied Engineering Research.
- (6) Dr. Anoop V. published a journal paper titled "Super-Resolution Based Automatic Diagnosis of Retinal Disease Detection for Clinical Application", in Neural Processing Letters, Springer.
- (7) Dr. Anoop V., Asso. Professor, Dept. of ECE Co authored a Patent Publication titled 'Providing quick rural and remote nursing care for elderly people using location based medical record system'.
- (8) CCGPA-MPPT: Cauchy preferential crossover-based global pollination algorithm for MPPT in photovoltaic system-Vinu Sundararaj, V. Anoop, Priyanka Dixit, Arundhati Arjaria, Uday Chourasia, Pankaj Bhambri, Rejeesh M. R., Regu Sundararaj - Progress in Photovoltaics: Research and Applications - WILEY: 11/2020 (SCI)
- (9) Early detection of breast malignancy using wavelet features and optimized classifier: J. G. Melekoodappattu, A. B. Kadan, V. Anoop - International Journal of Imaging Systems and Technology - WILEY 12/2020 (SCI).



Dr. Anoop V.



Dr. Prajoon P.



Annie P. Joseph



Roshni Rajan K.



## Students' Achievements

- (1) Mr. Akhil K. J. has completed a course on AI for everyone arranged by Coursera on 3rd September 2020.
- (2) Ms. Jelile Rosa Jose got World book of record while participating in the nation Building project-Kerala's largest career Guidance Digital conference held on 20 September 2020 initiated by 3G Institute of research and policy studies, IIT Madras Research park
- (3) Ms. Anusha C. E. has completed a course on "Programming for everybody (getting started with Python)" arranged by Coursera on 3rd December 2020.
- (4) Mr. Amal S. has completed an online course on "Fundamentals of digital marketing" arranged by Google on 29/12/20.



Anusha C. E.

## Co-curricular & Extracurricular activities

- (1) Ms. B. Mithra has attended webinar on the topic "Introduction to deep learning" conducted by Sreepathy Institute of Management and Technology, Vavanoor on 27th September 2020.
- (2) Mr. Nibin Thomas has attended webinar on the topic "Introduction to deep learning" conducted by Sreepathy Institute of Management and Technology, Vavanoor on 27th September 2020.
- (3) Ms. Jelile Rosa Jose has attended the webinar on 'The impact of Artificial Intelligence and covid on Employment, Career and Entrepreneurship' on 19th September 2020 by Dr. Sahid Chalayil.
- (4) Ms. Jelile Rosa Jose has attended the three day webinar on 'Career Counseling Foundation' on September 19th and 20th 2020 by 3G Me life.
- (5) CHRIS NOYAL T. S., S3 ECE for attending a state level webinar on "STROKE" in association with APJAKTU NSS CELL & NSS UNIT on 29th Oct 2020.
- (6) Mr. RAMEEZ N. A. has attended webinar on Mobile Application Development, On 31st October 2020 Organized By Developer Student Clubs, Jyothi Engineering College, Cheruthuruthy.
- (7) Mr. RAMEEZ N. A. has attended webinar on Basics of A.I. & Deep Learning, 17 September 2020 organized by Cisco thingQbator
- (8) Ms. Jelile Rosa Jose has participated in the webinar on Breast Cancer conducted by Dr. Paul Augustine on 11th October 2020.
- (9) Ms. Jelile Rosa Jose has participated in essay competition, conducted as a part of state level online program on 24th & 25th October 2020 Organised by NSS Unit 625 of Carmel College of Engineering and Technology under the auspices of NSS cell APJ Abdul Kalam Technical university.
- (10) SANURAJ K. R., ALEN PAUL and GOKUL P. S3 ECE for attending a webinar on "Web scraping using Python" on 29th Nov 2020.
- (11) ALEN PAUL, DONY BABU and GOKUL P., S3 ECE for attending a webinar on "Introduction to web development" on 14th Nov 2020 Denitha Davis, S7 ECE attended a quiz on Cyber security by Govt. of Goa and mygov on 4-Nov-2020.
- (12) Jishnu K. V., S7 ECE attended "Fit India Quiz 2.0" by MyGov and Fit India Mission on 3-Nov-2020.

- (13) Padmapriya, S7 ECE Participated a webinar on "marine robotics - its design and Applications" by IETE Chennai in association with SRM Institute of science and technology on 2-Nov 2020.
- (14) Jeena Jose, S7 ECE following activities java tutorial course(sololearn), professional student summit, quiz on padma awards, decipher east quiz, quiz on covid-19, online covid-19 awareness quiz, programming for everybody(coursera), webinar on antennas in biomedical applications and mimo technology.
- (15) Steny Francis, S7 ECE attended NSS annual special camp on 1-3-2019 to 7-03-2019.
- (16) Anitta Mariya, S7 ECE attended online quiz competition based on "National Cyber Security awareness" 2 -nov 2020.
- (16) Ganga Nandakumar, S7 ECE attended a national level quiz on Satark Bharat and Samriddh Bharat conducted by satarkta jagruta pakhawada on 10th Nov -2020.
- (17) Mr. Rakesh R. Nair has completed a workshop on Introduction to development organized by IEDC cell of Jyothi Engineering College In Association with CSI on 14th November 2020.
- (18) Mr. Rakesh R. Nair has completed a workshop on Introduction to web development building portfolio in just 60 minutes organized by Microsoft Student Ambassador on 14th November 2020.
- (19) Mr. RAMEEZ N. A. has attended webinar on INTRODUCTION TO WEB DEVELOPMENT, 14th November 2020 organized by INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CELL, JYOTHI ENGINEERING COLLEGE, CHERUTHURUTHY.
- (20) Ms. Jenet K. Vincent has attended 3 days online workshop on 'Basic Embedded System with Arduino' on 27/01/2021, 28/01/2021 & 29/01/2021 Organized by IETE Student Forum(ISF) in association with IETE Center Palakkad and Electronics & Communication Engineering Students Association (ECSA).

## University Result Toppers

### BTech - Semester 8A



AVIN K. V.  
SGPA 8.86



JULIT THOMAS  
SGPA 8.84



AMAL UNNIKRISHNAN  
SGPA 8.66

### BTech - Semester 8B



MAREENA MARIYA  
ABRAHAM  
SGPA 9.46



MUBSHIRA K. M.  
SGPA 9.30



MARY JEETHU A. J.  
SGPA 9.24

### BTech - Semester 6



JEENA JOSE  
SGPA 10



VRINDHA M. K.  
SGPA 9.91



MARIYA SHAJI  
SGPA 9.61



## BTech - Semester 4



BIJOY JOSHY  
SGPA 10



ANUSHA C. E.  
SGPA 10



SONA ROY  
SGPA 9.09



SALINI T. M.  
SGPA 9.09



RESHMI B  
SGPA 9.09

## Dept. News Mechanical Engineering

### Major Activities

The Department of Mechanical Engineering in association with SAEINDIA Collegiate club & Association of Mechanical Engg. Students(AMES) of Jyothi Engineering College was organized a webinar on "Biomimicry an innovative tool inspired from nature" on 09-07-2020 (Tuesday) 11.00am. The session handled by Mr. C. Karunakaran, Project Staff-ADRB, School of Mechanical Engineering, VIT, Vellore.

The Department of Mechanical Engineering Organized a Two days International Online Workshop on "THERMAL MANAGEMENT OF ELECTRONICS" In association with ISTE, Jyothi chapter & Association of Mechanical Engineering Students (AMES) on 27/07/2020 & 28/07/2020. The sessions handled by Dr. Ajith Krishnan R & Dr. Uday Kumar G. from Kookmin University Seoul, South Korea, Dr. Praveen B.(PhD, NIT Trichy) and Dr. Kumaresan G. from Bannary Amman Institute of Technology, Tamilnadu.

The Department of Mechanical Engineering, in association with ISTE-JECC Chapter was organized a two days online workshop on "THE ART OF TECHNICAL WRITING". on the 7th & 8th of August, 2020. The sessions handled by Dr. Abhilash Suryan, Dept. of ME, College of Engineering Trivandrum, Dr. Shubhada Nagarkar from Savithribai Phule Pune University, Dr. Ramesh L Gardas from IIT Madras and Dr. Sreenda from KSCSTE Thiruvananthapuram.

Department of Mechanical Engineering in association with ISTE, AMES and SAE Collegiate club, JECC was conducted A National level Online Quiz Series "Examen 2020 - Cerebro Knocking." (Week-1 Thermodynamics and Thermal Engineering from 07/07/2020 to 16/07/2020, Week-2 Fluid Mechanics and Fluid Machinery from 13/07/2020 to 22/07/2020, Week-3 Strength of Materials and Mechanics from 19/07/2020 to 28/07/2020).

The Department of Mechanical Engineering in association with SAE India Collegiate Club & Kyeesha Techno Solutions, Bangalore conducted. A Seven days Online Faculty Development Programme on "RECENT TRENDS IN PRODUCT DEVELOPMENT" from 10/08/2020 to 16/08/2020. The sessions was handled by Eminent resource persons from various IIT, NIT and VIT.

The Department of Mechanical Engineering, in association with ISTE conducted a webinar on "Energy Audit Methodology and Instruments" held on 15-08-2020 at 3.00 pm. The Session handled by Mr. G Gokul, Executive Council Member, Indian Association of Energy Management Professionals (IAEMP) Coimbatore Chapter.

The Department of Mechanical Engineering, in association with ISTE conducted a webinar on "Energy Audit Methodology and Instruments" held on 15-08-2020 at 3.00 pm. The Session handled by Mr. G Gokul, Executive Council Member, Indian Association of Energy Management Professionals (IAEMP) Coimbatore Chapter.

The Department of Mechanical Engineering, in association with ISTE Chapter was conducted a webinar on "Introduction to CFD principles and practices" on 20th August, 2020.

The Department of Mechanical Engineering Organized a five days online faculty development Programme on SOLAR ENERGY : TECHNOLOGIES AND APPLICATIONS – 21-09-2020 to 25-09-2020. The Programme Sponsored by AICTE Training And Learning(ATAL) Academy All India Council for Technical Education.

### Faculty Achievements

Mr. Cijil B. John [AP-ME] and Dr. Deepanraj, B.[Asso.Prof.ME] published a research paper titled "Estimation of fuel properties and characterisation of hemp biodiesel using spectrometric techniques" in Energy Sources, Part A: Recovery, Utilization, and Environmental Effects (SCI), DOI:10.1080/15567036.2020.1842559.

Mr. Cijil B. John [AP-ME] and Dr. Deepanraj, B. [Asso.Prof.ME] presented a research paper titled "Palm Stearin biodiesel: Evaluation of fuel properties and characterization using GC-MS, FTIR and TG-DSC/DTG techniques", in the 1st Virtual International Conference on Electrification and Digital Mobility 2020 (EDiMo-2020), 3-4 September 2020, organized by the Department of Automobile Engineering, HITS in association with Trier University of Applied Sciences, Germany.

Mr Anto Zacharias assistant professor presented a paper on E-mobility vehicle for physically challenged in the first virtual conference on electrification and digital mobility 2020 held on 3-09-2020 & 04-09-2020 organized by department of automobile engineering Hindustan institute of technology and science.

Mr. Anto Zacharias [AP-ME] and Mr. Suneeth Sukumaran [AP-ME] Coordinated a Webinar on " Biomimicry an innovative tool inspired from nature " on 09-07-2020. Organized by the Department of Mechanical Engineering in association with SAE India Collegiate Club and Association of Mechanical Engg. Students(AMES) of Jyothi Engineering College.



## Dept. News Mechanical Engineering

Mr. Suresh O P [AP-ME], Mr. Nish Menachery [AP-ME] and Dr. Deepanraj B [Asso.Prof.ME] Coordinated a Two days International Online Workshop on "THERMAL MANAGEMENT OF ELECTRONICS" In association with ISTE, Jyothi chapter & Association of Mechanical Engineering Students (AMES) on 27/07/2020 & 28/07/2020.

Dr. Deepanraj B [Asso.Prof.ME] , Mr. Cijil B John [AP-ME] and Mr. Suneeth Sukumaran [AP-ME] Coordinated a two days online workshop on "THE ART OF TECHNICAL WRITING". on the 7th & 8th of August, 2020. Organized by the Department of Mechanical Engineering, in association with ISTE-JECC Chapter.

Mr. Christy V Vazhappilly [AP-ME] and Dr. Deepanraj B [Asso.-Prof.ME] Coordinated a National level Online Quiz Series "Examen 2020 - Cerebro Knocking." (Week-1 Thermodynamics and Thermal Engineering from 07/07/2020 to 16/07/2020, Week-2 Fluid Mechanics and Fluid Machinery from 13/07/2020 to 22/07/2020, Week-3 Strength of Materials and Mechanics from 19/07/2020 to 28/07/2020) Organized by the Department of Mechanical Engineering, in association with ISTE-JECC Chapter.

Mr. Suresh O. P. [AP-ME], Mr. Christy V Vazhappilly [AP-ME], Mr. Praveenraj [AP-ME] and Mr. Nish Menachery[AP-ME] Coordinated a A Seven days Online Faculty Development Programme on "RECENT TRENDS IN PRODUCT DEVELOPMENT" from 10/08/2020 to 16/08/2020. Organized by the Department of Mechanical Engineering in association with SAE India Collegiate Club & Kyesha Techno Solutions, Bangalore.

Ms. Nisha Sherief [AP-ME], Dr. Deepanraj B [Asso.Prof.ME] and Mr. Manoj Kumar VK [AP-ME] Coordinated a webinar on "Energy Audit Methodology and Instruments" held on 15-08-2020. Organized by the Department of Mechanical Engineering, in association with ISTE-JECC Chapter.

Mr. Christy V. Vazhappilly [AP-ME] and Mr. Praveenraj [AP-ME] Coordinated a webinar on " VIRTUAL LABS " on 08-09-2020. The Department of Mechanical Engineering in association with SAEINDIA Collegiate club & Association of Mechanical Engg. Students(AMES) of Jyothi Engineering College.

Dr. Deepanraj B. [Asso.Prof.ME] and Dr. Biju CV [Asso.Prof.ME] Coordinated a five days online faculty development Programme on SOLAR ENERGY: TECHNOLOGIES AND APPLICATIONS – 21-09-2020 to 25-09-2020. Organized by Department of Mechanical Engineering and Sponsored by AICTE Training And Learning(ATAL) Academy All India Council for Technical Education.

Following faculty members conducted Interaction with plus two students of different schools regarding the awareness about Different engineering fields and How to prepare for examination?

Dr. Biju P. L

Mr. Melvinraj C R

Mr. Christy V Vazhappilly

Mr. Nikhil N S

Mr. Anto Zacharias

Mr. Suresh O P

Mr. Nish Menachery



Mr. Cijil B. John



Dr. Deepanraj B.



Mr. Anto Zacharias

## Students' Achievements

University Position –Mr. Kiran AS (2016-2020 Batch- ME-B) has secured one among the top two percentage of all the successful candidates of B.Tech Degree Mechanical Engineering registered under KTU and graduated in the year 2020 based on CGPA.

University Position –Ms. Dinsa Davis (2016-2020 Batch- ME-A) has secured one among the top two percentage of all the successful candidates of B.Tech Degree Mechanical Engineering registered under KTU and graduated in the year 2020 based on CGPA.

Mr. Vishnu V M [S4 ME-B] attended a two days workshop on Emerging trends in mechanical engineering conducted by MUSLIAR COLLEGE OF ENGINEERING in August 2020.

Mr. Vivek V K [S4 ME-B] attended a programme "3D MODELLING USING AUTODESK INVENTOR" conducted by Innovation and Entrepreneurship Development Cell, JECC in the December 2020.

Mr. Sanav S Pulikkal [S4 ME-B] & Mr. Sharun George [S4 ME-B] Participated and completed 40hours Google digital workshop on "The fundamentals of digital marketing" in the month of July 2020.

Mr. Justin Jose [S4 ME-B] attended a 2 days Online workshop on "The art of technical writing" Conducted by Department of Mechanical engg., JECC,Thrissur & ISTE,Jyothi chapter in August,2020.

Mr. Sharun George [S4 ME-B] undergone a "Bosch training on advanced automotive system" organized by BOSCH and Gram tarang. Duration 6 days held in August 2020.

Mr. Justin AJ [S4 ME-B] attended a 2 days online Workshop on Thermal Management of Electronics conducted by Department of Mechanical Engineering, Jyothi Engineering college , Cheruthuruthy (ISTE) in July 2020.

Jipin Prakash [S4 ME-A] completed NPTEL Online Certification Course on "DESIGN THINKING - A PRIMER" in August 2020.

Avin K. Thomas[S4 ME-A] attended a 10 week Coursera MOOC Course on "BLACK HOLES" conducted by University of Alberta in September 2020.



Mr. Kiran A. S.



Ms. Dinsa Davis

## University Result Toppers

### BTech - Semester 8A



Dinsa Davis  
SGPA 10



Harith H.  
SGPA 9.83



Edwin Sabu  
SGPA 9.67



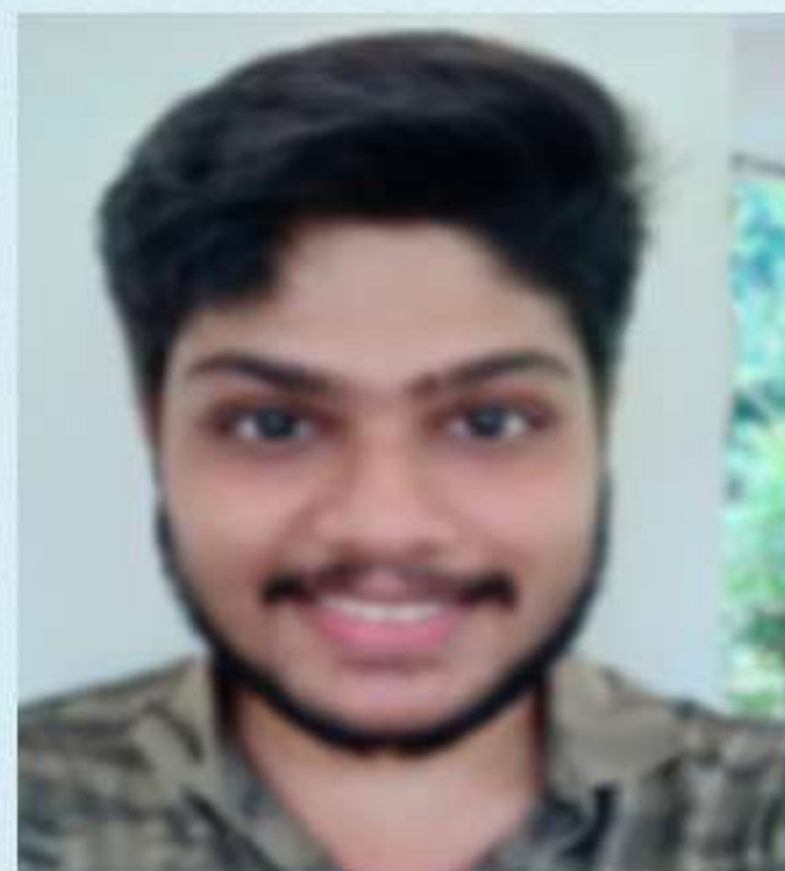
## BTech - Semester 8B



RAHUL V.M.  
SGPA 10



KIRAN A.S.  
SGPA 10



SARETH K. B.  
SGPA 10



NAIR ADARSH HARISH  
SGPA 10



JUBIN S. CHUNGATH  
SGPA 10

## BTech - Semester 6A



ARJUN K. M.  
SGPA 9.91



HARINARAYANAN V.  
SGPA 9.78



ASHBIN DAVIS  
SGPA 9.13

## BTech - Semester 6B



RINU ROSE VARGHESE  
SGPA 9.74



SREERAG VINOTH  
SGPA 9.61



N. BINURENJ  
SGPA 9.43

## BTech - Semester 4A



JIPIN PRAKASH  
SGPA 10



JOE JOSEPH  
SGPA 9.74



DEEPU THATTIL  
SGPA 9.74

## BTech - Semester 4B



PRANOY P.  
SGPA 9.57

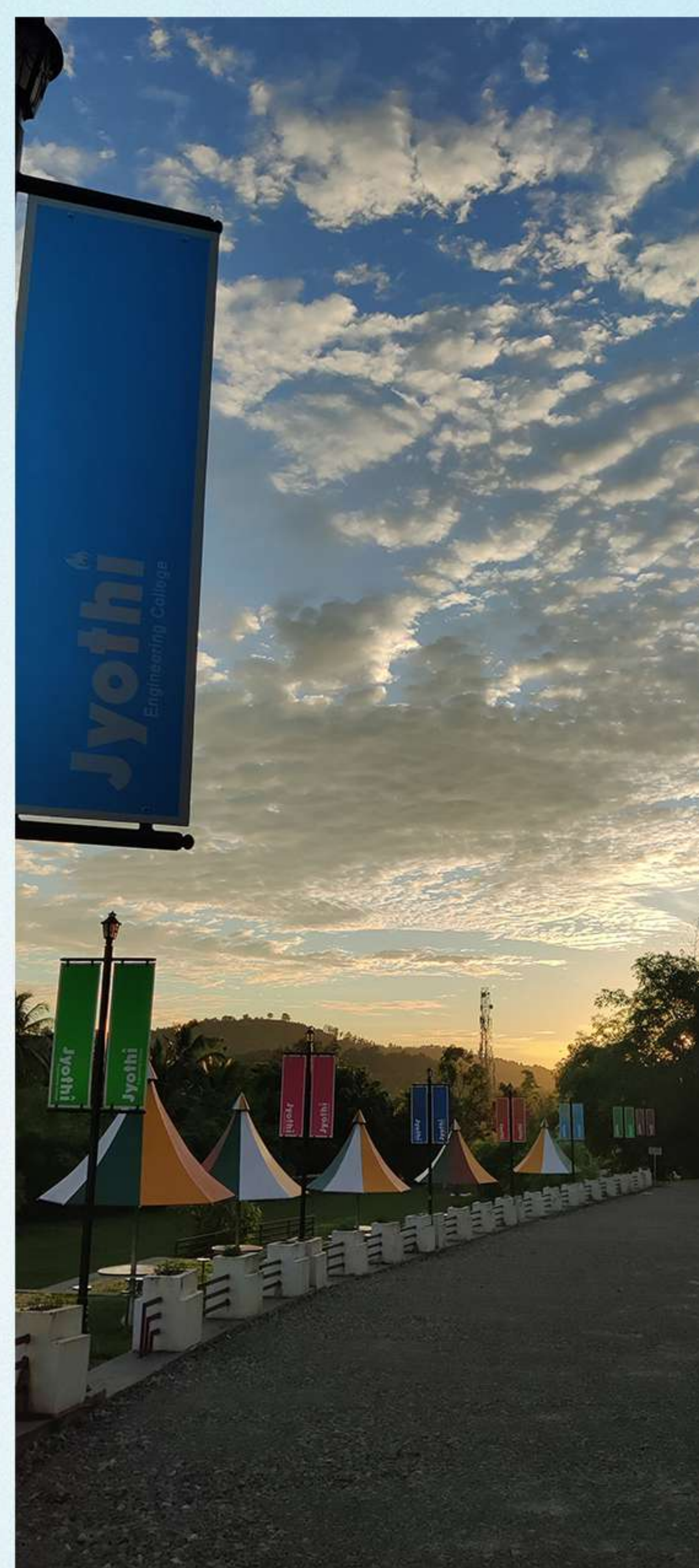


K. VISHNU  
SGPA 9.39



SHIBIN BALACHANDRAN  
SGPA 9.04

## Glimpses of Jyothi





## Major Activities

The Department of mechatronics, in the process of expansion included more number of teaching faculty with a wide area of experience, qualification and enthusiasm. They include Rev.Fr.Ajeesh Perinchery, Dr.C. Karthik, Mr.N. Jeyekannan and Ms.Shamin Elizabeth Varkey.

53rd Engineers Day was celebrated on 15th September 2020, and the chief guest of the day was Dr. Kuncheria P. Isaac, Founder Vice Chancellor-KTU, Vice Chancellor- Hindustan University, Chennai. The chief guest inaugurated the event and delivered a keynote address.



Fr. Ajeesh Babu Perinchery



Dr. C. Karthik

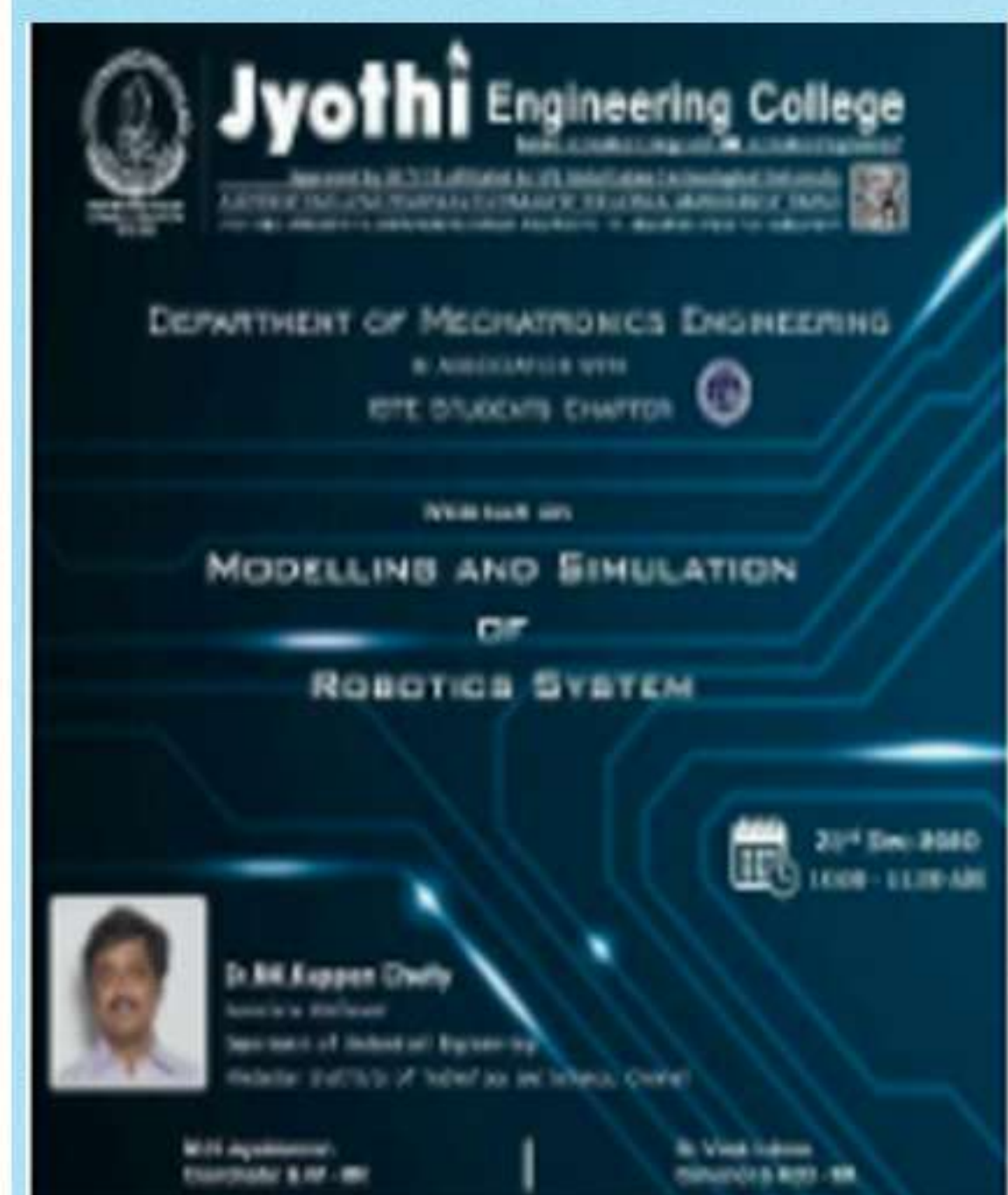
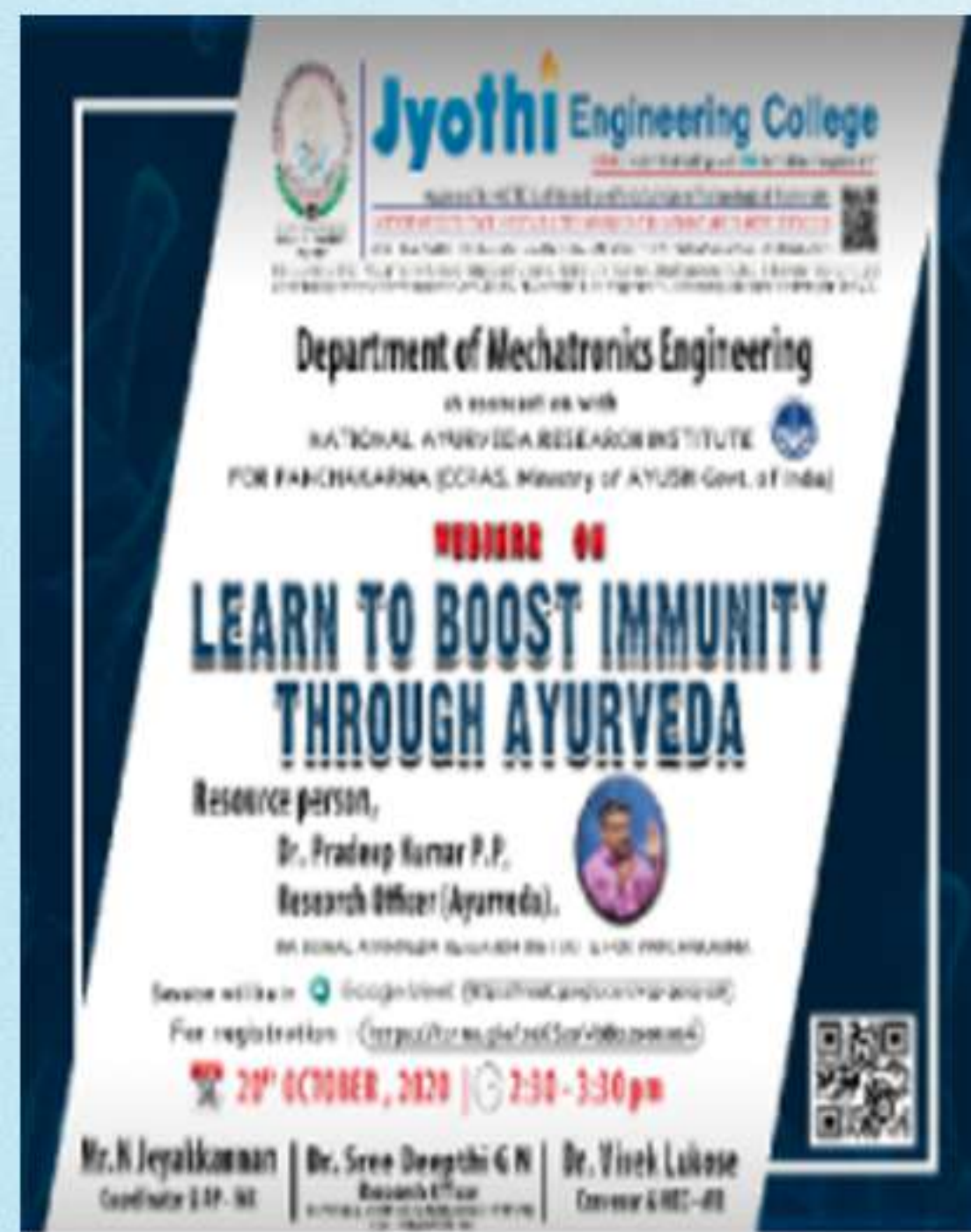


Mr. N. Jeyakkannan



Ms. Shamin Elizabeth Varkey

The Department of Mechatronics, Jyothi Engineering College organized a webinar on "Learn to Boost Immunity through Ayurveda" on 20th October 2020. The Resource Person was Dr.Pradeep Kumar P P, Research Officer, Ayurveda - National Ayurveda Institute for Panchakarma.



The Department of Mechatronics in association with ISTE Student Chapter of Jyothi Engineering College organized a webinar on "Modelling and Simulation" on 31st December 2020. The session was handled by Dr. R. M. Kuppanchetty, Associate Professor, Hindustan Institute of Technology and Science, Chennai.

## Faculty Achievements

The Department of Mechatronics in association with the Department of Yuvakshetra Institute of Management Studies Pallakad, conducted a webinar for the Skill Development Outcome Based Training and Related Services on the Title, "Sensors and Transducers". The faculties involved as resource persons were Ms. Nyni.K. A., Dr. C. Karthik, Mr. N. Jeyakkannan, and Ms. Shamin Elizabeth Varkey.

### Paper Publication

Dr. C. Karthik published a paper in International Journal of Uncertainty, Fuzziness and Knowledge based system, SCI journal. The other papers published are

- Dual band transceiver of 1\*2 grid pattern printed on fabric woven and cancer detection by composites" Materials today: proceedings, Elsevier., (Accepted) January 2021.(SCI)
  - "Observer-based decentralized model reference adaptive controller for the drying process of the paper industry" IJUFK,Vol.28,-no.2, page 93-110, DEC 2020.(SCI)
- August 2020.(SCI)

### Patents Filed

- Dr. C. Karthik has the following patent filed in the year 2020-21
- \*Indian patent, Crusher Apparatus for Decomposable Goods, File No. 332466-001 , August, 2020
  - \*Australian Patent, No- 2020103771, IP Australian Reference- SP BI-0002417338, October 2020

## Student achievements

\*Following students of S7 MR have completed a workshop on "3D MODELLING USING AUTODESK INVENTOR" conducted by IEDC in association with SAE, on 05 December, 2020.

Mr. Jikson P. F.	Mr. Mrithul T. B.	Mr. Ajin M. G.
Mr. Leen David P. B.	Mr. Rohith T. S.	Mr. Dhiraj V. S.
Mr. Nikhil Sajan		

\*Mr. Ajay O. U. of S7 MR successfully completed the online "CRASH COURSE ON PYTHON" offered by "COURSERA" on 16/10/2020 to 27/11/2020 (6 Weeks).

\*Following students of S7 MR successfully completed the Workshop on "Introduction to Web Development" organized by "Innovation and Entrepreneurship Development Cell" in association with CSI on 14th November, 2020.

Mr. Ajay O. U.	Mr. Sreeraj M.	Mr. Rohith T. S.
Mr. Jikson P. F.	Mr. Mrithul T. B.	Mr. Saisankar
Mr. Nikhil Sajan		

\*Mr. Ajin M. G. of S7 MR has successfully completed 4 week course on "AI For Everyone" from Coursera on 28th November 2020.

\*Mr. Nikhil Sajan of S7 MR has successfully completed an online course on digital skills digital management & intelligent machining from coursera on 1st november 2020 and 3rd November 2020. He also successfully completed a workshop course "introduction to machine learning with python" from Nehru college of engineering on 19th November 2020. He completed another workshop on "Web Scraping Using Python" conducted by IEDC in association with FOSS club, on 29 November, 2020.

\*Mr. Sai Sankar of S7 MR has completed a course DeepLearning.AI through Coursera on November 8, 2020. He also completed a 3 week course on AI and Machine Learning conducted by National Power Training Institute from October 5-23, 2020

\*Mr. Sivadutt K. D. of S7 MR, has participated in the one day National level Seminar on "Introduction to Machine learning with Python" organized by Nehru college of Engineering on 19th Nov 2020. He also completed an online course "Programming for Everybody (Getting Started with Python)" provided by University of MICHIGAN (Coursera). On 21st Aug 2020

\*Mr. Jikson P. F. of S7 MR successfully completed an online course, Digital Product Management : Modern Fundamentals through Coursera on November 8 ,2020

\*Mr. Hamras Mohammed of S7 MR has completed Deep Learning AI through Coursera on Nov 6, 2020.

\*Mr. Abhijith T. M. of S7 MR successfully completed an online course introduction to Digital Marketing provided by Great Learning Academy .

\*Mr. Dhiraj V. S. of S7 MR has successfully completed Speak English Professionally: In Person, Online & On the Phone authorized by Georgia Institute of Technology and offered through Coursera from 13th July to 13th August 2020