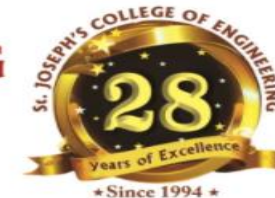








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 OMR, Chennai - 119.



OCTOBER 2022 DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event
1.	<p>FDP/WORKSHOP/CONFERENCE</p>  <p>NPTEL-AICTE Faculty Development Programme <small>(Funded by the MoE, Govt. of India)</small></p>  <p>This certificate is awarded to DR M CHAMUNDEESWARI for successfully completing the course Genetic Engineering: Theory and Application with a consolidated score of 75 %</p>  Prof. Andrew Thangaraj NPTEL Coordinator IIT Madras  <small>(Jul-Oct 2022)</small>  Prof. Dileep N. Malkhede Advisor-I (Research, Institute & Faculty Development) All India Council for Technical Education <p>Roll No: NPTEL22BT59S34462826 Duration of NPTEL course : 12 Weeks</p> <p><small>The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams. This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses. F.No. AICTE / RIFD / FDP through MOOCs / 2017-18</small></p> <p>Copy of Dr. M. Chamundeewari Certificate</p>	<p>Dr. M. Chamundeewari, Associate Professor, Department of Biotechnology has completed 12 week Online NPTEL course certificate in Genetic Engineering: Theory and Practice with Silver medal conducted by IIT Guwahati in October 2022</p> <p>Dr. C.Karthik, Associate Professor, Department of Biotechnology has completed 12 week Online NPTEL course certificate in Experimental Biotechnology with Silver medal conducted by IIT Guwahati in October 2022</p>



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
DR C KARTHIK
for successfully completing the course

Experimental Biotechnology

with a consolidated score of **85** %

Online Assignments	23.35/25	Proctored Exam	61.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **366**

Jul-Oct 2022
(12 week course)

Prof. T. V. Bharat
Head, Centre for Educational Technology
NPTEL Coordinator, IIT Guwahati



Indian Institute of Technology Guwahati



Roll No: NPTEL22BT60554461272

To validate the certificate



No. of credits recommended: 3 or 4

Copy of Dr.C.Karthik Certificate

Ms S.Yuwvaranni, Assistant Professor, Department of Biotechnology has completed 8 week Online NPTEL course certificate in Introduction to cell Biology with Silver medal conducted by IISER Pune - Indian Institute of Science and Education and Research Pune in October 2022

Ms K. R. Preethy, Assistant Professor, Department of Biotechnology has participated in a World Food day event conducted by SRM institute of Science and Technology held during 17th October 2022.

Ms K. R. Preethy, Assistant Professor, Department of Biotechnology has completed 12 week Online NPTEL course certificate in Experimental Biotechnology conducted by IIT Guwahati in October 2022

Ms B.Sangeetha, Assistant Professor, Department of Biotechnology has completed 12 week Online NPTEL course certificate in Experimental Biotechnology conducted by IIT Guwahati in October 2022

Ms. D. G. Caroline, Assistant Professor, Department of Biotechnology has completed 12 week Online NPTEL course certificate in Experimental Biotechnology with gold medal conducted by IIT Guwahati in October 2022



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
MS YUWVARANNI S
for successfully completing the course



Introduction to Cell Biology

with a consolidated score of **78** %

Online Assignments	17.92/25	Proctored Exam	60/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **616**

Prof. M. S. Santhanam
Dean, International Relations and Outreach
IISER Pune

Aug-Oct 2022
(8 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras



IISER - Indian Institute of Science Education
and Research Pune



Roll No: NPTEL22BT33554463710

To validate the certificate



No. of credits recommended: 2 or 3

Copy of Ms. S. Yuwvaranni Certificate



Copy of Ms. K.R.Preethy Certificate



NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

PREETHY KR

for successfully completing the course

Experimental Biotechnology

with a consolidated score of **70 %**

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jul-Oct 2022)

Prof. Dileep N. Malkhede
Advisor-I (Research, Institute & Faculty Development)
All India Council for Technical Education

Roll No: NPTEL22BT60S54472809

Duration of NPTEL course : 12 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

Copy of Ms. K.R.Preethy Certificate



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

B SANGEETHA

for successfully completing the course



Experimental Biotechnology

with a consolidated score of **82** %

Online Assignments	24.35/25	Proctored Exam	57.75/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **366**

Jul-Oct 2022
(12 week course)

Prof. T. V. Bharat
Head, Centre for Educational Technology
NPTEL Coordinator, IIT Guwahati



Indian Institute of Technology Guwahati



Roll No: NPTEL22BT60S64461946

To validate the certificate



No. of credits recommended: 3 or 4

Copy of Ms. B.Sangeetha Certificate



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

CAROLINE D G

for successfully completing the course



Experimental Biotechnology

with a consolidated score of **95** %

Online Assignments	23.53/25	Proctored Exam	71.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **366**

Jul-Oct 2022
(12 week course)

Prof. T. V. Bharat
Head, Centre for Educational Technology
NPTEL Coordinator, IIT Guwahati



Indian Institute of Technology Guwahati



Roll No: NPTEL22BT60S64460881

To validate the certificate



No. of credits recommended: 3 or 4

Copy of Ms. D.G. Caroline Certificate

SYMPOSIUM



2.



Photos of students participating in symposium

The GENERA - 2022, symposium was conducted in the Department of Biotechnology for the students on 08.10.2022. The event brought together around 88 participants from 17 colleges including Science, Engineering, Law and Medicine stream. There were 5 events conducted Morpheme (Creative presentations for specific problem solving); Bionexxus (Connection); Murder Mystery (Forensic Investigation); Match My Genome (Debate) and Synaptic Manoeuvre (Quiz)

3.

AWARDS/PRIZE WON BY STUDENTS

Adeline Juanita. C student of IIIrd year Biotechnology has won IInd prize in New food product development event conducted by SRM Institute of Science and Technology held during 17th October 2022.

Deno Petricia. P student of IIIrd year Biotechnology has won IInd prize in New food product development event conducted



Copy of certificate Adeline Juanita. C



Copy of certificate Deno Petrecia. P

by SRM Institute of Science and Technology held during 17th October 2022

4.

INDUSTRIAL PROJECTS DONE BY STUDENTS

-

PUBLICATIONS(ONLY PUBLISHED) DETAILS

5.



Dr. G. Baskar, Professor, Department of Biotechnology at St. Joseph's College of Engineering, Chennai, India has received Peer Review Certificate of Appreciation from *Preparative Biochemistry & Biotechnology* Journal.

Dr. G. Baskar – Copy peer review certificate of appreciation

DEPARTMENT OF CHEMICAL ENGINEERING

S.No.	Title of the Events and Photographs	Details of the Event
1.	FDP/WORKSHOP/CONFERENCE	<ul style="list-style-type: none"> • Dr.Sujatha, Magesh.N and Lavanya.R, Assistant Professor has completed NPTEL, Faculty Development programme for the course “<i>Basic Environmental Engineering and Pollution Abatement</i>” on October 2022
2.	COMPETITIONS ATTENDED BY STUDENTS	<ul style="list-style-type: none"> • Ashwin Thambi from IV year Chemical has won IInd place in World Food Day Event conducted by SRM Institute of Sciencwe and Technology in October • Samuel P Thomas from III year Chemical has won IInd place in World Food Day Event conducted by SRM Institute of Sciencwe and Technology in October • Trisha &Kaviya Selvi from III year Chemical has participated and won Ist place for Poster presentation in ZEALICHE-2K22 conducted by Erode Sengunthar Engineering College,Perundurai on 20and 21st of October • Syed Abrar & Varun from III year Chemical has participated and won IInd place for Paper presentation in ZEALICHE-2K22 conducted by Erode Sengunthar Engineering College,Perundurai on

		20and 21 st of October
3.	PUBLICATIONS(ONLY PUBLISHED) DETAILS	<ul style="list-style-type: none"> • Dr.B.S.Rathi, has published “<i>A critical review on Bio-Hydrogen generation from Biomass</i>” in International Journal of Hydrogen Energy.

DEPARTMENT OF CIVIL ENGINEERING

Sl. No.	Photographs Captured During Events (Briefs About the Photographs)	Corresponding remarks (Minimum 300 words) in regarding the status of activity execution stating
1.	Guest Lecture / Webinar Organized	<p>An alumni dialogue on JOURNEY OF ENTREPRENEURSHIP was held at AV Hall library of St.Joseph's College of Engineering on 15th October (Saturday) from 11:30 am to 01:00 PM IST. The guest was Mr. RAHUL MAHENDRAN, Founder of SpinalApp.in, Third Decade Youngsters Pvt. Ltd, Chennai. Totally 58 second year students and 35 third year students of Civil Engineering have participated. The guest enlightened the students on his entrepreneurship journey along with tips for next generation entrepreneurs.</p>




An alumni dialogue on *THE SWITCH* was held at AV Hall library of St. Joseph's College of Engineering on 15th October (Saturday) from 8:30 am to 10:00 am IST. The guest was **Mr. Purushothaman S, Technology Analyst, Infosys, Chennai**. Totally 58 second year students and 35 final year students of Civil Engineering have participated. The guest enlightened the students on his civil to software journey along with tips for next generation software engineers with civil background.


		
2.	Publications (only published) details	<ul style="list-style-type: none">• K.Vijai Published a paper titled “Strength, Durability and microstructural properties of geopolymers concrete: a review”, Indian Concrete Journal, June 2022, pp 41-58

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


S.No	Events	Remarks
1.	 <p data-bbox="464 786 751 808">PIC: ALUMNI INTERACTION</p>	<p data-bbox="1003 282 1980 342">Our student Mr.Prashaant Sunand of 2002 – 2012 batch working as Indigo Pilot, gave guidance to the final year students to prepare themselves for placement.</p>
2.	 <p data-bbox="464 1305 751 1328">PIC: ALUMNI INTERACTION</p>	<p data-bbox="1003 818 1980 911">Our student Sri ram Soorya of 2016-2020 batch working as junior engineer in data Patterns India Ltd., (Defense and Aerospace Specialist) interacted with final year students and explained about the job opportunities in core companies.</p>

3.	 <p style="text-align: center;">PIC: ALUMNI INTERACTION</p>	<p>Our students kanagapriya s (2017-2021), MS in Electrical Energy and Power System, Teesside University and Karunya D (2017-2021), MS in Energy and Power System, university of Liverpool, interacted with II year students and give guidance to study abroad.</p>
4.	<p style="text-align: center;">PLACEMENT DETAILS FOR THE MONTH OF OCTOBER 2022</p>	<p>Total No of students placed = 91 UG Students Total No of Offers = 137 Offers Total No of Students (UG) = 160 Total No of Eligible Students (UG) = 144 (All Clear & 1 arrear students) Total No of Eligible Students (PG) = 06 % of students Placed (PG) = NIL No of students having single offers = 54 No of students having Double offers = 28 No of students having Triple offers = 09</p>

5.




Microprocessors and Microsystems
Volume 94, October 2022, 104665



Hybrid pixel based method for multimodal image fusion based on Integration of Pulse Coupled Neural Network (PCNN) and Genetic Algorithm (GA) using Empirical Mode Decomposition (EMD)

R. Indhumathi ^{*}, R. T.V. Narmadha ^{*}, Harrison kurusekhan ^{*}

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<https://doi.org/10.1016/j.micpro.2022.104665> [Get rights and content](#)

Abstract

Medical diagnosis using images is critical for defining the patient's condition and assisting the decision process for treatment by the physician. Certain infections and conditions like Colorectal Cancer, lung lesion, brain tumor, Metastasis can be ambiguous and the diagnosis cannot be accurately determined using single image. Image fusion is phenomena that helps to alleviate this underlying problem. Image fusion is the process of integrating complementary information from two or more distinct images into a single image without loss of information. It has the capability to process the information from each pixel in the input image and endure the information from source images thereby improving the readability of information, thus aiding the physicians to diagnose the health conditions in a much efficient manner. In this paper, we propose a novel image fusion strategy that is the amalgamation of Pulse Coupled Neural Network (PCNN) and Genetic Algorithm (GA) using Empirical mode Decomposition (EMD). We compared our technique to some of the classic and novel image fusion strategies in our performance evaluation. Hybridization of PCNN with GA using EMD improves the fusion effect, image detail clarity, and time efficiency considerably than existing state of art strategies. Our quantitative analysis illustrates the effectiveness of the proposed strategy in terms of entropy, Percentage Residual Difference (PRD), Root Mean Square Error (RMSE) and Peak Signal to Noise Ratio (PSNR).

PIC: Paper Screen shot

Our staff member Dr.T.V.Narmadha, published paper title on “Hybrid pixel based method for multimodal image fusion based on Integration of Pulse Coupled Neural Network (PCNN) and Genetic Algorithm (GA) using Empirical Mode Decomposition (EMD)” in Microprocessors and Microsystems

6.

The poster is for a two-day workshop organized by the Department of Electrical and Electronics Engineering at St. Joseph's College of Engineering. It features the college's name, accreditation logos (NBA, ARHA, NAAC, NIRF, Cambridge), and the NSIC logo. The dates are 13/10/2022 and 14/10/2022. The topic is 'EMBEDDED SYSTEM - IOT AND AI'. The chief patron is Dr. B. Babu Manoharan. Other staff listed include Mrs. B. Jessie Priya, Mr. B. Shashi Sekar, Dr. Vaddi Seshagiri Rao, Dr. V. Vallinayagam, Dr. A. Chandra Sekar, Dr. G. Sree Kumar, Dr. Jayarama Pradeep, and Dr. M. Anitha.

PIC: Student workshop poster

Student Workshop on “Embedded System-IoT and AI” was conducted by the Department of Electrical and Electronics Engineering, St. Joseph’s College of Engineering. Resource person was from NSIC Ltd. Feedback was collected from the participants about the program and it was observed that they have found the program very useful and informative. Certificates are distributed to the participants.

No of Student Participants : 49 (EEE Students)

7.

The poster is for a two-day workshop organized by the Department of Electrical and Electronics Engineering at St. Joseph's College of Engineering. It features the college's name, accreditation logos (NBA, ARHA, NAAC, NIRF, Cambridge), and the NSIC logo. The dates are 13/10/2022 and 14/10/2022. The topic is 'ELECTRIC VEHICLES'. The chief patron is Dr. B. Babu Manoharan. Other staff listed include Mrs. B. Jessie Priya, Mr. B. Shashi Sekar, Dr. Vaddi Seshagiri Rao, Dr. V. Vallinayagam, Dr. A. Chandra Sekar, Dr. G. Sree Kumar, Dr. Jayarama Pradeep, and Dr. M. Anitha.

Student Workshop on “Electric Vehicles” was conducted by the Department of Electrical and Electronics Engineering, St. Joseph’s College of Engineering. Resource persons from NSIC Ltd. Feedback was collected from the participants about the program and it was observed that they have found the program very useful and informative. Certificates are distributed to the participants.

No of Student Participants : 49 (EEE Students)

PIC: Student workshop poster

8.

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NBA ARIIA NAAC (A+) NIRF Cambridge

COUNSELLING CODE-1317
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
Organises
TWO DAYS STUDENTS WORKSHOP
IN ASSOCIATION WITH
NSIC
National Small Industries Corporation

13/10/2022
&
14/10/2022

OPEN TO
ALL
SECOND YEAR
STUDENTS

TOPIC: IOT APPLICATIONS USING RASPBERRY PI
CERTIFICATES WILL BE PROVIDED

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Staff Coordinator
Mrs. S. P. Vedavalli M.E., (Ph.D.)
Assistant Professor
Dr. M. Anitha M.E., Ph.D.
Assistant Professor

*For Admissions: Visit www.stjosephs.ac.in / www.stjosephstechnology.ac.in or Contact: 9940104881 / 9940104882

PIC: Student workshop poster

Student Workshop on “IoT Applications using Raspberry Pi” was conducted by the Department of Electrical and Electronics Engineering, St. Joseph’s College of Engineering. Resource persons was from NSIC Ltd. Feedback was collected from the participants about the program and it was observed that they have found the program very useful and informative. Certificates are distributed to the participants.

No of Student Participants : 49 (EEE Students)

9.

The poster is for a two-day student workshop titled "PLC SCADA WITH INDUSTRIAL APPLICATIONS". It is organized by the Department of Electrical and Electronics Engineering at St. Joseph's College of Engineering, an autonomous institution of St. Joseph's Group of Institutions, Jeppiaar Educational Trust, OMR, Chennai - 119. The workshop is in association with NSIC (National Small Industries Corporation) and is open to all second-year students. The dates are 13/10/2022 and 14/10/2022. Certificates will be provided. The poster lists the following roles and names:

- Chief Patron:** Dr. B. Babu Manoharan (M.A., M.B.A., Ph.D.), Chairman, St. Joseph's Group of Institutions
- Patrons:**
 - Mrs. B. Jessie Priya (M.Com), Managing Director, St. Joseph's Group of Institutions
 - Mr. B. Shashi Sekar (M.Sc), Executive Director, St. Joseph's Group of Institutions
 - Dr. Vaddi Seshagiri Rao (M.E., M.B.A., Ph.D.), Principal, St. Joseph's College of Engineering
- Convenors:**
 - Dr. V. Vallinayagam (M.Sc., M.Phil., Ph.D.), Dean Students Affairs, St. Joseph's College of Engineering
 - Dr. A. Chandra Sekar (M.E., Ph.D.), Dean Research, St. Joseph's College of Engineering
 - Dr. G. Sreekumar (M.Sc., M.Tech., Ph.D.), Dean Academics, St. Joseph's College of Engineering
- Staff Coordinator:** Mrs. S.P. Vedavalli (M.E., Ph.D.), Assistant Professor
- Convenors:**
 - Dr. Jayarama Pradeep (M.E., Ph.D.), Professor & Head - Staff Affairs
 - Dr. T.V. Narmadha (M.E., Ph.D.), Professor & Head - Lab Affairs
 - Dr. M. Anitha (M.E., Ph.D.), Assistant Professor

Accreditation logos include NEA, ARITA, NAAC, NIRF, Cambridge English Qualifications, and a 28th Anniversary seal. The counselling code is 1317.

*For Admissions: Visit www.stjosephs.ac.in / www.stjosephstechnology.ac.in or Contact: 9940104881 / 9940104882

PIC: Student workshop poster

Student Workshop on “PLC SCADA with Industrial Applications” was conducted by the Department of Electrical and Electronics Engineering, St. Joseph’s College of Engineering. Resource persons was from NSIC Ltd. Feedback was collected from the participants about the program and it was observed that they have found the program very useful and informative. Certificates are distributed to the participants.

No of Student Participants : 47 (EEE Students)

10.

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 Cambridge
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 IEEF
 IEEG
 IEEE

**DEPARTMENT OF
 ELECTRICAL AND ELECTRONICS ENGINEERING**
 On behalf of IEEE day
 presents- A Webinar on
Art of being a professional

Ms. A K DEEPA
 Associate Professor
 Faculty Advisor, PES IEEE SCT SB
 Secretary-IEEE WIE AG -2019- Kerala Section
 Date : 12.10.2022
 Time : 08.00 PM -
 09.00 PM

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 Chairman, St. Joseph's Group of Institutions

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 Managing Director, St. Joseph's Group of Institutions
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 Executive Director, St. Joseph's Group of Institutions

Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D.
 Principal, St. Joseph's College of Engineering

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 Dean Student Affairs, St. Joseph's College of Engineering
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 Professor & Head - Lab Affairs
SBC Advisor
Dr. Jayarama Pradeep M.E., Ph.D.
 Professor & Head - Staff Affairs
Staff Coordinators
Mr. R. Sreekanth M.E., Ph.D.
 Assistant Professor

Student Coordinators
 IEEE TEAM

PIC: IEEE event poster

IEEE St. Joseph's College of Engineering Group organized "A Webinar Session", which was presented by Ms. A K Deepa. On the topic of art of being a professional. Mr. Jaison Alexander welcomed the speaker with a citation note. The event covered crucial ideas that contribute directly to helping the students understand the importance of setting a goal and most importantly following through the plan set forth to reach that goal. It is without an inch of doubt that the students greatly benefited from the wisdom that was imparted from the speaker. It also pushed the students to take action towards their dreams and goals and bring whatever was planned by them to fruition in the near future. Overall the session was useful for all the participants. The vote of thanks was delivered by Mr. Alex for the wonderful session.

11.

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IEEE

On Behalf of IEEE Day Celebration

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

PRESENTS- AN ONLINE WEBINAR ON

Opportunities and Benefits of IEEE way of life

Dr.S.Harivardhagini
 Professor-CVR College of Engineering,Hyderabad
 Vice Chair-WIE AG-IEEE,Hyderabad Section

Online WEBINAR

DATE:10/10/2022
 TIME: 12.15 PM -01.15 PM

IEEE SJCE SBC

PIC: IEEE event poster

IEEE St. Joseph's College of Engineering Group organized "A Webinar Session", which was presented by professor "Dr.S. Harivardhagini". On the topic of "The opportunities and Benefits of IEEE way of life". Ms.M.J. Jayavarshini welcomed the speaker with a citation note. She initiated her talk about the opportunities and benefits in an interactive manner. She also cleared doubts asked by our participants. Overall, it was an informative session for all the participants. A well-versed knowledge about carrier and future opportunities of IEEE was explained. The vote of thanks was delivered by Ms.M.R. Srenithy for the wonderful session.

12.

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Counselling Code :1317

ARHA NEA A+ nif Cambridge

IEEE

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

IEEE Women in Engineering Affinity Group presents

LOGOS FORUM

An Online Logo Designing Competition

Deadline: 9th October

Submission form:<http://surl.li/dfkue>

Merit E-Certificates will be provided to the winners
 E-Certificates will be provided to all the participants

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 Dr. A. Chandra Sekar, M.E., Ph.D.
 Dean, Engineering
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 Director, School of Lib Studies

SBC Advisor
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Staff Coordinator
 Mr. R. Sreekanth, M.A., M.B.A., Ph.D.
 Assistant Professor

Student Coordinators
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The "Logos forum" is a online logo designing event conducted by IEEE SJCE SBC on 9thOctober 2022 on behalf of IEEE day 2022. A total of 20 Participants participated in the event. The students were asked to design a logo for the IEEE day 2022 The event started exploring the hidden talent of our Students and they were honoured with e-certificates for their outstanding contributions during the Event.

PIC: IEEE event poster

13.



PIC: IEEE event poster

The “Shutterbug” is a online photo contest event conducted by IEEE SJCE SBC on 9thOctober 2022 on behalf of IEEE day 2022. A total of 25 Participants participated in the event. The students were asked to submit their creative photographs .this event was conducted on behalf of the IEEE day 2022. The event started exploring the hidden talent of our Students and they were honoured with e-certificates for their outstanding contributions during the Event.

14.

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ARSA, NBA, NIF, Cambridge

DEPARTMENT OF
ELECTRICAL AND ELECTRONICS ENGINEERING

On behalf of IEEE day
presents

My IEEE Journey
Mr. Kumaran M S

Alumni 2017 - 2021 batch
Grad student,
Colorado State University

Date : 09.10.2022
Time : 08.00 pm

Chief Patron
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.
Chairman, St. Joseph's Group of Institutions

Patrons

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Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions	Dr. A. Chandra Sekar M.E., Ph.D. Dean Research, St. Joseph's College of Engineering
Dr. Vaddi Seshagiri Rao M.A., M.B.A., Ph.D. Principal, St. Joseph's College of Engineering	Dr. C. Sreekumar M.Sc., M.Tech., Ph.D. Dean Academics, St. Joseph's College of Engineering

Convenor
Dr. T.V. Narmadha M.A., Ph.D.
Professor & Head - Lab Affairs

SBC Advisor
Dr. Jayarama Pradeep M.A., Ph.D.
Professor & Head - Staff Affairs

Staff Coordinators
Mr. R. Sreekanth M.A., Ph.D.
Assistant Professor

Student Coordinators
IEEE TEAM

PIC: IEEE event poster

IEEE St. Joseph's College of Engineering Group organized "A Webinar Session", which was presented by one of our alumni **Mr. M.S Kumaran**. On the topic of his own IEEE journey from his college life in "St. Joseph" Mr. Aashik and Ms. Udhayaraga welcomed the speaker with a citation note. He initiated his talk about his college life with a fun and interactive manner. Then he advised his beloved juniors about carrier guidelines. He also cleared doubts asked by our participants. Overall, it was an informative session for all the participants. A well-versed knowledge about carrier and future opportunities was explained. The vote of thanks was delivered by Mr. Aashik and Ms. Udhayaraga for the wonderful session.

15.

St. JOSEPH'S COLLEGE OF ENGINEERING
(An Autonomous Institution)
St. Joseph's Group of Institutions
Jeppiaar Educational Trust
OMR, Chennai - 119.
COUNSELLING CODE:1317

ARIIA
NEA
NIF
Cambridge

IEEE
ON THE OCCASION OF IEEE DAY

Department of Electrical and Electronics Engineering
in association with
IEEE POWER ELECTRONICS SOCIETY
Proudly Presents
BOMBSQUAD

1.40-2.50 PM
07-10-2022

TO REGISTER SCAN THE QR BELOW

A team based Offline game, where participants have to figure out the bomb locations from the clues given

VENUE : SMART ROOM

E-Certificates will be provided to all the participants

Chief Patron
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.
Chairman, St. Joseph's Group of Institutions

Patrons
Mrs. S. Jeele Priya M.Com.
Managing Director, St. Joseph's Group of Institutions
Dr. Vadali Seshagiri Rao M.A., M.B.A., Ph.D.
Principal, St. Joseph's College of Engineering
Dr. A. Chandra Sekar M.A., M.P.
Dean/Research, St. Joseph's College of Engineering

Mr. B. Shashi Sekar M.A.
Executive Director, St. Joseph's Group of Institutions
Dr. C. Sreekanth M.A., M.Tech, Ph.D.
Dean/Department, St. Joseph's College of Engineering
Dr. B. V. Vallinayagam M.A., M.P.
Dean/Students Affairs, St. Joseph's College of Engineering

Advisor
Dr. T.V. Narayana M.A., M.P.
Professor & Head - Lab Affairs

SIC Advisor
Dr. Jayarama Prasad M.A., M.P.
Professor & Head - Staff Affairs

Staff Coordinator
Mr. S. Srinivasan M.A., M.P.
Assistant Professor

EMAIL
ieeeeee@stjosephs.ac.in

Student Coordinators
| ELANCHEZHIVAN R J | POOJASREE K | DHARANI V | ABIKITHA R | NANDI YARDHAN REDDY R | NIVAS M |

*For Admissions: visit www.stjosephs.ac.in / www.stjosephstechnology.ac.in or contact: :01 99401 04881 / :01 99401 04882

PIC: IEEE event poster

The IEEE Power Electronics Society of St. Joseph's College of Engineering Conducted “Bomb squad”, a nontechnical team based guessing game on Oct 7th, 2022 on behalf of the IEEE Day celebration. This event consists of teams of five members. Each member was given 5 clues about possible bomb locations and the participants need to interact and discuss with each other to figure out the locations. This event helped in networking of participants since the team members were chosen randomly on the location. The event took place in the smart room of EEE department, from 01.40 Pm to 02.50Pm. E certificates were also given to all the participants as a part of motivation

16.

PIC: IEEE event poster

The IEEE Power Electronics Society of St. Joseph's College of Engineering Conducted “Artlingg”, a poster designing contest on Oct 13th, 2022 on behalf of the IEEE Day celebration. This event consists of teams of two members. An introductory session on Canva and other photo editing tools were given to the participants. Later each team received a separate Canva link to create the poster on the Theme of IEEE Day. This event was helpful for the participants to gain more experience in Canva designing, this event was exclusively planned for current second years to enhance them for upcoming events. E certificates were also given to all the participants as a part of motivation

17.

PIC: IEEE event poster

IEEE SJCE SBC organized a intimate plantit under IEEE Robotics and Automation Society for college students to build their practical knowledge in the field of Robotics. The event was conducted on google form. There were about 25 students participated in it and got benefited. The event was useful to the participants in knowing about words related to Robots through logo picture. As we naturally remember visual cues better than words, the participants would have gained more knowledge. Merit certificates are distributed to the top 3 winners and E-certificates are provided for all the participants. Student Coordinators Abina S, Abinaya M, keerthana S, Sunitha K, Nithin Joel J, Gokul kumar M, Aparnaa M and Viknesh.G,S coordinated the event with Mr. R. Sreekanth, IEEE SB Counselor.

18.

PIC: IEEE event poster

The IEEE Power Electronics Society of St. Joseph's College of Engineering Conducted a quiz named “Quizzly bears”, on Oct 8th, 2022 on the occasion of IEEE DAY. The topics for the quiz were Electric Vehicle, High voltage applications and Solar. 20 participants have attended the quiz. The concepts were really encouraging and helped students. E certificates were sent to all the participants and best responses were awarded appreciation certificates.

19.

PIC: IEEE event poster

The IEEE SJCE SB Maanavar Mandram of St Joseph’s College of Engineering conducted an online poem event “Kavi Kalai’22”. The topic of the event is Iyarkai. Over 20 participants attended the event and all of them were provided with a participation E-Certificate. The winners were awarded with the winners Certificate. The student coordinators for this event were Mani Sha. N, Jayashruthi R.V, AkshayaKrishnen, Amirtha Varshini. M and Godson S V Noble.

20.

St. JOSEPH'S COLLEGE OF ENGINEERING
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IEEE திணம் காளன்மட்டத்தின் சார்பாக
மின் மற்றும் மின்னணு பெற்றறிப்பியல் துறை
உடன் இணைந்து
IEEE SJCE SB மாணவர் மற்றும்
பெருமைபட்டன் வழங்கும்
கலை களஞ்சியம்
— ஒரு வினாடி வினா நிகழ்வு —

தேதி : 07.10.2022 | நேரம் : 5:00 pm - 6:00 pm
தலைப்பு : தமிழ் இலக்கியம்
இணைப்பு: <https://bit.ly/கலைகளஞ்சியம்>
--பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் --

Chief Patron
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.
Chairman, St. Joseph's Group of Institutions

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Mr. B. Shashi Sekar Executive Director, St. Joseph's Group of Institutions
Dr. Vaddi Seshagiri Rao H.E., M.A., Ph.D. Principal, St. Joseph's College of Engineering

Convenor Dr. C. Sree Kumar M.Sc., M.Tech., Ph.D. Dean Academics, St. Joseph's College of Engineering
SBC Advisor Dr. Jayarama Pradeep M.E., Ph.D. Professor & Head - LAB Affairs
Staff Coordinator Mr. R. Sreekanth M.L., Ph.D. Assistant Professor

Student Coordinators
Mani Sha N | Jayasruthi R V | AkshayaKrishnen | Amirtha Varshini M | Godson S V Noble

*For Admissions: visit www.stjosephs.ac.in / www.stjosephstechnology.ac.in or contact: +91 99401 04881 / +91 99401 04882

PIC: IEEE event poster

The IEEE SJCE SB Maanavar Mandram of St Joseph's College of Engineering conducted an online quiz event "Kalai Kalanjyam". The topic of the event is Thamizhin Inimaiyum Valamaiyum. Over 25 participants attended the event and all of them were provided with a participation E-Certificate. The winners were awarded with the winners The student coordinators for this event were Mani Sha. N, Jayashruthi R.V, AkshayaKrishnen, Amirtha Varshini. M and Godson S V Noble.

21.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ANZURES SOUL
A Flummoxing Event

WINNERS WILL BE PROVIDED A HARDCOPY CERTIFICATE

1:00pm-3:00pm

FOR 3rd YEARS
on 29th SEPTEMBER 2022

REGISTER HERE:
<https://forms.gle/SbK6Ww1kveqJqT87>

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Dr. T.V. Narmadha M.E., Ph.D. Professor & Head - LAB Affairs
Dr. A. Chandra Sekar M.E., Ph.D. Dean Research, St. Joseph's College of Engineering
Dr. V. Vallinayagam M.Sc., Ph.D. Dean Student Affairs, St. Joseph's College of Engineering

Coordinators
Mr. R. Clanthirayan M.Tech., Ph.D. Assistant Professor
Ms. S. P. Vedavalli M.L., Ph.D. Assistant Professor

Student Coordinators
HARISHKUMAR.K THEJA THANUJ.S.R DHIVANESH.P MUKUNTHASLR AMIRTHA VARSHINI.M
RANJANLS ABINAYA PRIYA.R.A VISHNU PRIYAS HARRY JAKINS KAVIYA.P SIVA MALAVAN.E.S RAMYA.R

*For Admissions: visit www.stjosephs.ac.in / www.stjosephstechnology.ac.in or contact: +91 99401 04881 / +91 99401 04882

PIC: SAC event poster

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) social awareness organized an art event 'ANZURES SOUL' on 29th September 2022. This exclusive event started at 1.00 pm with all the members of our club. The event started exploring the hidden talent of our Students and they were honoured with certificates for their outstanding contributions during the Event. The event continued with the enthusiasm of our students. The program ended with a photo session.

22.



PIC: SAC event poster

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) social awareness organized an art event “ZEST WAR” on 20th October 2022. This exclusive event started at 10.200 pm with all the members of our club. The event started exploring the hidden talent of our Students and they were honoured with certificates for their outstanding contributions during the Event. The event continued with the enthusiasm of our students. The program ended with a photo session.

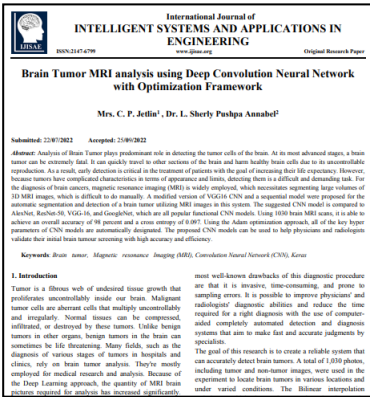

23.



PIC: IEEE event poster

IEEE IAS SJCE conducted a debate event “HAZZLE”. In this event, about 20 participated to witness the offline debate event. E-Certificates were distributed to the students who had participated in the event. This event indeed helped the participants to overcome the stage fear and express their thoughts on the given topic. The winner was Jamuna.U and the runner was Aruthra.S. Student Coordinators were the IAS team.



DEPARTMENT OF INFORMATION TECHNOLOGY

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
1	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">  </div> <p style="text-align: center;">Co-author: L. Sherly Pushpa Annabel published a paper in Scopus Indexed Journal</p>	<p style="text-align: center;">Staff Publication</p> <p>C. P. Jetlin, L. Sherly Pushpa Annabel, “Brain Tumor MRI analysis using Deep Convolution Neural Network with Optimization Framework”, International Journal of Intelligent Systems And Applications In Engineering, Vol. 10, No. 3, pp. 52–56, ISSN:2147-679921, Sep 2022. (Indexed in Scopus).</p> <p>Abstract: Analysis of Brain Tumor plays predominant role in detecting the tumor cells of the brain. At its most advanced stages, a brain tumor can be extremely fatal. It can quickly travel to other sections of the brain and harm healthy brain cells due to its uncontrollable reproduction. As a result, early detection is critical in the treatment of patients with the goal of increasing their life expectancy. However, because tumors have complicated characteristics in terms of appearance and limits, detecting them is a difficult and demanding task. For the diagnosis of brain cancers, magnetic resonance imaging (MRI) is widely employed, which necessitates segmenting large volumes of 3D MRI images, which is difficult to do manually. A modified version of VGG16 CNN and a sequential model were proposed for the automatic segmentation and detection of a brain tumor utilizing MRI images in this system. The suggested CNN model is compared to AlexNet, ResNet-50, VGG-16, and GoogleNet, which are all popular functional CNN models. Using 1030 brain MRI scans, it is able to achieve an overall accuracy of 98 percent and a cross entropy of 0.097. Using the Adam optimization approach, all of the key hyper parameters of CNN models are automatically designated. The proposed CNN models can be used to help physicians and radiologists validate their initial brain tumour screening with high accuracy and efficiency.</p>
2	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">  </div> <p style="text-align: center;">Dr A Tamizhselvi published a patent</p>	<p style="text-align: center;">Patent</p> <p>Title of the invention : Designing a Smart Firewall System to Alert the Antivirus Application Installed on a Gadget to Protect Against the Hazards of Computer Virus</p> <p>Name of Inventor :</p> <ol style="list-style-type: none"> 1. Dr. Amit Sharma 2. Kalpana Devi S 3. K.Pratyusha 4. Dr A Tamizhselvi 5. Dr Shueb Ali Khan 6. Rishi Kumar Sharma 7. Dr. Naveen Kumar CG 8. Dr B Gayathri 9. Udayakumar N 10. Dr T Ravichandran 11. Dr.A.Sasi Kumar 12. ohd Esa <p>Patent Number: 202211053206 Date of filing of Application : 17/09/2022 Publication Date: 07/10/2022</p>

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Sl. No.	Title	Detail						
1	Publication	S.No	Faculty Name	Date	Title	Name of the conference	Type	Link
		1.	Mr. Sankaran D	18-10-2022	Skin Melanoma Segmentation using VGG-UNet with Adam/SGD Optimizer: A Study	2022 Third International Conference on Intelligent Computing Instrumentation and Control Technologies (ICICT)	IEEE Conference	https://ieeexplore.ieee.org/document/9917848
		2.	Mrs. Angel Sujitha	18-10-2022	Glioma/Glioblastoma Detection in Brain MRI using Pre-trained Deep-Learning Scheme	2022 Third International Conference on Intelligent Computing Instrumentation and Control Technologies (ICICT)	IEEE Conference	https://ieeexplore.ieee.org/abstract/document/9917904

DEPARTMENT OF MECHANICAL ENGINEERING

Sl No	Name of the Activity	Remarks
1	<p>Guest Lecture for II year Students:</p> 	<ul style="list-style-type: none"> ➤ Guest lecture on “Digital Marketing” has been organized for II-year students on 18.10.2022. The importance of Digital Marketing has been explained to the students.
2	<p>Guest Lecture for III year Students:</p> 	<ul style="list-style-type: none"> ➤ Guest lecture on “Digital Marketing” has been organized for III year students on 19.10.2022. The importance of Digital Marketing has been explained to the students.

3



Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)



This certificate is awarded to
GANESH M
for successfully completing the course



Laser Based Manufacturing

with a consolidated score of **84** %

Online Assignments	23.75/25	Proctored Exam	60/75
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Total number of candidates certified in this course: **340**

Aug-Oct 2022
(8 week course)

Prof. T. V. Bharat
Head, Centre for Educational Technology
NPTEL Coordinator, IIT Guwahati



Indian Institute of Technology Guwahati



Roll No: NPTEL22ME92564471429


To validate the certificate



No. of credits recommended: 2 or 3

- Dr.N.Arunkumar completed NPTEL Online Certification course on “LASER BASED MANUFACTURING” During the period of Aug to OCT 2022.
- Dr.M.Arun completed NPTEL Online Certification course on “LASER BASED MANUFACTURING” During the period of Aug to OCT 2022
- Mr.M.Ganesh completed NPTEL Online Certification course on “LASER BASED MANUFACTURING” During the period of Aug to OCT 2022

DEPARTMENT OF MATHEMATICS

Events	Remarks																																																						
FDP/Workshop/Conference																																																							
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">S.No</th> <th style="width: 25%;">Name of the Staff</th> <th style="width: 25%;">Program Title</th> <th style="width: 10%;">National/ International</th> <th style="width: 15%;">Organized by</th> <th style="width: 20%;">Date</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Dr.V.Vallinayagam</td> <td rowspan="9" style="text-align: center;">Recent Research Area and its application in Mathematics</td> <td rowspan="9" style="text-align: center;">National</td> <td rowspan="9" style="text-align: center;">Vel Tech Multi Tech</td> <td rowspan="9" style="text-align: center;">6 days 10-10-2022 to 15-10-2022</td> </tr> <tr><td>2</td><td>Mr.K.S.Sudhakhar</td></tr> <tr><td>3</td><td>Dr.G.Venkat Narayanan</td></tr> <tr><td>4</td><td>Ms. B. Shoba</td></tr> <tr><td>5</td><td>Mr.S.Manikanda Prabhu</td></tr> <tr><td>6</td><td>Dr.N. Jose Parvin Praveena</td></tr> <tr><td>7</td><td>Dr.P. Agilan</td></tr> <tr><td>8</td><td>Dr.K.Juliet Raja</td></tr> <tr><td>9</td><td>Mr, Chellamani</td></tr> <tr> <td>1</td> <td>Dr.K. Sasikala</td> <td rowspan="8" style="text-align: center;">Mathematical methods and its applications</td> <td rowspan="8" style="text-align: center;">National</td> <td rowspan="8" style="text-align: center;">NPTEL- AICTE IIT MADRAS</td> <td rowspan="8" style="text-align: center;">1 ½ Week 25-07-2022 to 14-10-2022</td> </tr> <tr><td>2</td><td>Dr. G.Purushothaman</td></tr> <tr><td>3</td><td>Dr.G. Venkat Narayanan</td></tr> <tr><td>4</td><td>Ms.B. Shoba</td></tr> <tr><td>5</td><td>Ms.D. Arivkkodi</td></tr> <tr><td>6</td><td>Mr. S. M. Balaji</td></tr> <tr><td>7</td><td>Dr.N. Jose Parvin Praveena</td></tr> <tr><td>8</td><td>Dr. P.Agilan</td></tr> <tr> <td>9</td> <td>Mr.C. Sankar</td> <td style="text-align: center;">Matrix Computation and its Applications</td> <td style="text-align: center;">National</td> <td style="text-align: center;">NPTEL- AICTE IIT MADRAS</td> <td style="text-align: center;">1 ½ Week 25-07-2022 to 14-10-2022</td> </tr> </tbody> </table>	S.No	Name of the Staff	Program Title	National/ International	Organized by	Date	1	Dr.V.Vallinayagam	Recent Research Area and its application in Mathematics	National	Vel Tech Multi Tech	6 days 10-10-2022 to 15-10-2022	2	Mr.K.S.Sudhakhar	3	Dr.G.Venkat Narayanan	4	Ms. B. Shoba	5	Mr.S.Manikanda Prabhu	6	Dr.N. Jose Parvin Praveena	7	Dr.P. Agilan	8	Dr.K.Juliet Raja	9	Mr, Chellamani	1	Dr.K. Sasikala	Mathematical methods and its applications	National	NPTEL- AICTE IIT MADRAS	1 ½ Week 25-07-2022 to 14-10-2022	2	Dr. G.Purushothaman	3	Dr.G. Venkat Narayanan	4	Ms.B. Shoba	5	Ms.D. Arivkkodi	6	Mr. S. M. Balaji	7	Dr.N. Jose Parvin Praveena	8	Dr. P.Agilan	9	Mr.C. Sankar	Matrix Computation and its Applications	National	NPTEL- AICTE IIT MADRAS	1 ½ Week 25-07-2022 to 14-10-2022
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Awards/Prize won by staff	Nine Faculties written online exam in NPTEL -AICTE , Program conducted by IIT Madaras. Two of them received ELITE Silver and remaining persons received ELITE Certificate. Dr.G. Purushothaman is topper in the course all over India.																																																						
Publications(only published) details	1. K.S.Sudhakhar , Novel Therapeutic Activity and its Chemical Constituents of Alocasia Species: A Review, YMER, Vol 21, Issue No. 10, Pp No. 634-642, October 2022, SCOPUS, DOI: http://ymerdigital.com/uploads/YMER211082.pdf																																																						

DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
1	Collabarative Quality initiatives with other institutions	<p><u>AICTE-Swayam Translation</u></p> <p>1. Dr. S.M. Prakash acted as NPTEL translator for the course “Chemical Reaction Engineering - I” offered by AICTE-SWAYAM portal and completed the work on 30.10.22 .</p>
4	FDP/Workshop/Conference	<p>1. Dr. N.R. Rajagopalan, Dr. S.M. Prakash, Dr. S. Rama, Dr. K. Jayamoorthy, Dr. P. Saravanan, Dr. N. Punitha, Dr. V. Swarnalatha, attended International webinar on “Advanced Materials for Armour Applications” conducted by “Bharath Institute of Engineering and Technology, Chennai” on 01.10.22</p> <p>2. Dr. P. Krishnan attended 7 days “International Faculty Development Program on Aerospace” conducted by “SRM University, Kattankolathur, Chennai.” held from 15.10.22 to 21.10.22.</p> <p>3. Dr. S.M. Prakash, attended International webinar on “Effective Teaching: Insights from Education Psychology” conducted by “Bharath Institute of Engineering and Technology, Chennai” on 15.10.22</p> <p>4. Dr. A. Uma Devi, Dr. N.R. Rajagopalan, Dr. S.M. Prakash, Dr. B. Subash, Dr. S. Rama, Dr. P. Saravanan, Ms. J. Sharmila, Ms. S. Savitha, Dr. V. Swarnalatha, Dr. K. Jayamoorthy, Dr. N. Puitha, attended 5 days “International online Faculty Development Program on Quality of Teaching in Higher Educational Institutions” conducted by “Easwari Engineering College, Chennai” held from 17.10.22 to 21.10.22.</p> <p>5. Dr. S. Suresh, Dr. B. Subash, Dr. S.M. Prakash, Dr. S. Rama, Dr. N. Punitha, Dr. V. Swarnalatha, Ms. J. Sharmila, Ms. S. Savitha attended International webinar on “Chemical Science for Sustainability” conducted by “Gonzaga College of Arts and Science for Women, Krishnagiri” on 19.10.22</p> <p>6. Dr. S. Kiruba, Dr. S. Rama attended National online FDP on “Current trends in Materials applications” conducted by “Malla Reddy Institute of Engineering and Technology, Secunderabad” held from 27.10.22 to 28.10.22</p>
9	Awards/Prize won by students / Staff	<p><u>Best Paper award:</u></p> <p>1. Ms. A. Mahalakshmi is awarded with best paper presentation award for her paper titled “Anticancer applications of cadmium selenium quantum dots synthesized using aqueous extract of waste orange peel” presented in “3rd International Conference on Applications of Natural compounds, Nanomaterials, Oncolytics in Cancer Biology and Biotechnology (ICANNOCB-22)”, conducted by “B.S.Abdur Rahman Cresent Institute of</p>

		Science & Technology ,Chennai” between 27.10.22 and 28.10.22.
11	Publications(only published) details	<p><u>Patent Publication</u></p> <ol style="list-style-type: none"> 1. Dr. P. Saravanan, Dr. A. Uma Devi published a patent titled “Removal of dyes from wastewater using nonconventional biomass based sorbents” in the journal issue 40/2022 dated 07.10.22. 2. Dr. V. Nandini Devi, Dr. V. Swarnalatha, Dr. N.R. Rajagopalan, Ms. J. Sharmila published a patent titled “: Hydro- chemical assessment of environmental status of surface and ground water in mine areas” in the journal issue 41/2022 dated 14.10.22. 3. Dr. N. Punitha, Dr. A. Arulmozhi, Dr. S. Rama published a patent titled “DI With Nanotechnology approach to the effect of topical creams for treating blood cancer nodes” in the journal issue 41/2022 dated 14.10.22.
13	Other activities(if any)	<p>Department of Science conducted the following online events for school students:</p> <ol style="list-style-type: none"> 1) Brilliant brushes – 11.10.22 2) Bug of debug – 12.10.22 3) Brain teasers – 13.10.22 4) Treasure Hunt – 14.10.22 5) Speak with Science – 22.10.22 6) Chemistry at home – 21.10.22

DEPARTMENT OF MBA

EVENTS ORGANISED (FENESTRA 2022)



FENESTRA 2022 is the National level symposium for management students organized by Department of MBA, St Joseph's College of Engineering on October 8th 2022. The symposium provided a platform to many management students to showcase their skill and prove their managerial skills. Around 50 teams from 20 colleges participated in FENESTRA 2K22. This gave our students an experience to conduct events, coordinate as a team and work cordially with each other. Management games like Best managers, Adzap, Business quiz, OMG gave students a platform to showcase their skills. The Faculty coordinators were Dr. Sundari. R and Mr. Surenthran David P. The student coordinators were Ms. Pooja.K, Mr Harsha Vardhan.B, and Mr. Sri Balaji.S.

VALUE ADDED COURSE:



Department of MBA conducted a value added course on Managerial Communication from 19thOctober to 22ndOctober2022. This course was conducted by Corpversity, which provides world class customized managerial communication programmes that help young adults crack into high quality jobs, placements and higher education opportunities. This course helps students to understand the scope of communication and learn its importance and implication strategies. The objective is to acquaint the students with the basic concepts of communication that is useful in developing skills to become successful managers in their professional career.

Value added course on Managerial
Communication by Corpversity

SEMINAR ATTENDED BY FACULTY:



The following faculty members have participated in the International Faculty Development Program on “Quality of Teaching in Higher Educational Institution” organised by Department of Management Studies, Easwari Engineering College, Chennai in association with “Infrastructure University, Kuala Lumpur” from 17.10.2022 to 21.10.2022.

Faculty Members Participated:

1. Dr.Jayasree Krishnan
2. Dr.Jawahar Rani
3. Dr.S.Ajit
4. Dr.S.P.Karuppaiah
5. Dr.M.Manikandan



PATENTS APPLIED / PUBLISHED / GRANTED:

(12) PATENT APPLICATION PUBLICATION (31) Application No:202241030693 A
 (10) INDIA (22) Date of filing of Application : 11/07/2022 (43) Publication Date : 23/07/2022

(54) Title of the invention: **AN INTEGRATED HUMAN-AI PARADIGM THROUGH ORGANISATIONAL AGILITY AND SUSTAINABLE PERFORMANCE.**

(71) Name of Applicant: **Dr. S. Ajith**
 (81) Inventor: **Dr. S. Ajith**
 (51) International Classification: **G06Q 10/00**
 (52) Priority Date: **11/07/2022**
 (53) Filing Date: **11/07/2022**
 (54) Title of the invention: **AN INTEGRATED HUMAN-AI PARADIGM THROUGH ORGANISATIONAL AGILITY AND SUSTAINABLE PERFORMANCE.**
 (57) Abstract: **Organisations are facing significant challenges related to market, internationalisation, regulatory restrictions and hence competition, especially during the COVID-19 crisis. This climate requires change and to make a positive impact and effectively in this world, we need to identify the innovation of today only on what matters to business tomorrow (4R) practices. Thus, we propose a Framework integrating artificial intelligence, and machine learning to enhance organisational agility, thus make robust responses to major external uncertainties.**
 (72) Inventor: **Dr. S. Ajith**
 (73) Assignee: **Dr. S. Ajith**
 (74) Agent: **Dr. S. Ajith**

The Patent Office Journal No. 29/2022 Dated 23/07/2022 45924

(12) PATENT APPLICATION PUBLICATION (31) Application No:202241080783 A
 (10) INDIA (22) Date of filing of Application : 26/10/2022 (43) Publication Date : 26/10/2022

(54) Title of the invention: **AN OVERVIEW OF EXPLORING THE POTENTIAL OF ARTIFICIAL INTELLIGENCE APPROACHES ON DIGITAL MARKETING**

(71) Name of Applicant: **Dr. S. Ajith**
 (81) Inventor: **Dr. S. Ajith**
 (51) International Classification: **G06Q 10/00**
 (52) Priority Date: **26/10/2022**
 (53) Filing Date: **26/10/2022**
 (54) Title of the invention: **AN OVERVIEW OF EXPLORING THE POTENTIAL OF ARTIFICIAL INTELLIGENCE APPROACHES ON DIGITAL MARKETING**
 (57) Abstract: **Organisations are facing significant challenges related to market, internationalisation, regulatory restrictions and hence competition, especially during the COVID-19 crisis. This climate requires change and to make a positive impact and effectively in this world, we need to identify the innovation of today only on what matters to business tomorrow (4R) practices. Thus, we propose a Framework integrating artificial intelligence, and machine learning to enhance organisational agility, thus make robust responses to major external uncertainties.**
 (72) Inventor: **Dr. S. Ajith**
 (73) Assignee: **Dr. S. Ajith**
 (74) Agent: **Dr. S. Ajith**

The Patent Office Journal No. 43/2022 Dated 26/10/2022 68974

FACULY CERTIFICATION COURCES:

6. Mr.S.Arvinth
7. Dr.R.Karthick
8. Dr.K.Sampath
9. Dr.Angelin S.Kiruba
10. Dr.S.Poovizhi
11. Dr.U.Madhanrajan
12. Dr.N.Madhumithaa
13. Dr.R. Monisha
14. Dr.R.Bharathi
15. Dr.L. Rajeshkumar
16. Dr.A. Sathish

Patent Published:

Title of the Invention: An Integrated Human – AI paradigm through organisational agility and sustainable performance.

Inventor 04: Dr.K.Sampath

Patent Published:

Title of the Invention: An Overview of exploring the potential of artificial intelligence approaches on Digital Marketing.

Inventors:

1. Dr.Jayasree Krishnan
2. Dr.Jawahar Rani K
3. Dr. Sundari R
4. Dr. Ajit S
5. Dr.S.P.Karuppaiah
6. Mr.Surenthran David
7. Ms. Jebakerupa Roslin

Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
LEKSHMI R S
for successfully completing the course

Strategic Management for Competitive Advantage

with a consolidated score of **67** %

Online Assignments	20/25	Proctored Exam	46.5/75
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Total number of candidates certified in this course: **227**

Jul-Oct 2022
(12 week course)

Indian Institute of Technology Kharagpur

Prof. Debjani Chakrabarti
Coordinator, NPTEL
IIT Kharagpur

swayam

Roll No: NPTEL22MGB8564470976 To validate the certificate No. of credits recommended: 3 or 4

Dr.Lekshmi R S successfully completed the 12 weeks NPTEL online certification course on “Strategic Management for Competitive Advantage” from July – October 2022.

FACULTY AS RESOURCE PERSONS:

SPEAKERS AT SRM, RAMAPURAM CAMPUS, CHENNAI.



Dr. S. AJIT

Dr. S. Ajit BE, MBA, M. Phil., Ph.D. has 20 years of teaching experience, published many articles in international journals, had been a reviewer for many international journals, had been a resource person for FDP in reputed colleges across India. Has published two fiction books in Amazon Kindle.



Mr. P. SURENTHRAN DAVID

Mr.P.Surenthran David, Assistant Professor in the Department of MBA, St. Joseph's College of Engineering. He has teaching experience of nine years and industry experience of six years. He has worked as a programmer Analyst in Cognizant Technology Solutions and as a Business Development Executive in L&T Infotech. He has completed his MBA from SRM School of Management with specialization in Finance and Marketing. His interests are Security Analysis and Portfolio Management and Business Analytics.

WORKSHOP SCHEDULE

DAY	DATE	INAUGURAL	FACULTY
DAY 1 (MONDAY)	19/09/2022	SPEX INTRODUCTION, DATA ENTRY, HYPOTHESIS FRAMING	Dr. S. AJIT
DAY 2 (TUESDAY)	20/09/2022	CHI-SQUARE TEST AND ALL T TEST	Mr. P. SURENTHRAN DAVID
DAY 3 (WEDNESDAY)	21/09/2022	CORRELATION AND REGRESSION	Mr. P. SURENTHRAN DAVID
DAY 4 (THURSDAY)	22/09/2022	FACTOR ANALYSIS AND CLUSTER ANALYSIS	Dr. S. AJIT
DAY 5 (FRIDAY)	23/09/2022	SEM MODEL TESTING USING AMOS	Dr. S. AJIT

Dr. C. Sundar
Dean
(Management Studies)

Dr. R. Arulmoli
HOD-MBA

Conveners
Dr. S. Lakshmi
Dr. P. Lekha

Contact the Organizers
 Dr. Lakshmi S, Asst Professor, Finance / +91 99620 16201
 Dr. P. Lekha, Asst Professor, Marketing / +91 98459 26736

Any queries can be made at
 lakshmi@srmist.edu.in
 lekha@srmist.edu.in

srmmmpgmt.studies
fsh.srmmp.edu.in/school-of-management
FOR ADMISSION ENQUIRIES 1800 102 1525

Dr.S.Ajit and Mr.P.Surenthran David acted as Resource Persons for Workshop on “Basic Research Tools” from 19 & 23rd September, 2022 organised by College of Management, SRM Institute of Science and Technology, Ramapuram, Chennai.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

1. Events Organized:

The following events have been organized and conducted in the month of September and October 2022

i)IETE Event: X-ByteZ



The poster features the St. Joseph's College of Engineering logo on the left and a 28th anniversary badge on the right. The central text reads: "You Choose, We Do It", "St. JOSEPH'S COLLEGE OF ENGINEERING (An Autonomous Institution)", "St. Joseph's Group of Institutions", "Jeppiaar Educational Trust", "OMR, CHENNAI-119", and "★ Since 1994 ★". A green shield contains the date "08 OCT 2022". The IETE logo is in the center, with the text "SCAN TO REGISTER:" and a QR code to its right. Below the IETE logo, it says "DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS • INDIA". The main title "X-BYTEZ" is in large, bold, red and blue letters. At the bottom, it provides the registration link: "LINK: [HTTPS://FORMS.GLE/ECATHJ9JFY2LTMFK9](https://forms.gle/ECATHJ9JFY2LTMFK9)", the venue "ECE DEPARTMENT", and the time "TIME ~ 9:30 AM".

Report

The Department of Electronics and Communication Engineering, St. Joseph's College of Engineering in association with the IETE Student Forum ISF conducted the event "X-ByteZ" on 8th of October 2022. X-ByteZ is a quiz-like event based on Digital Electronics and VLSI conducted as part of our national level symposium.

A total of 25 teams participated from various colleges in and around Chennai. Each team had 1-3 members. The event was conducted in 2 rounds.

The first round consisted of 20 MCQ questions and 5 fill in the blank type questions. The participants were given an ample time of 45 minutes to complete the first round. Each question was awarded 1 point

The top 6 teams were shortlisted for the second round (final round). This round consisted of 4 Digital design question out of which 2 had to be answered. The participants, after answering the questions, were given laptops to simulate the circuits that they designed. The teams had 1 hour to complete the same. Each question was awarded 15 points.

The participants interacted well with the organizers during the event. They showed their creative and innovative ways to answer.

Out of the 6 finalists, 3 teams were selected as the winners based on the sum of their first and second round scores.

The Winners of the event were presented with

Certificates of Appreciation and cash prizes.
 A cash prize of Rs 1500/- was awarded to the 1st place team,
 A cash prize of Rs 1000/- was awarded to the 2nd place team and
 A cash prize of Rs 500/- was awarded to the 3rd place team.

ii)IETE Event:TechnoFest

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St. JOSEPH'S COLLEGE OF ENGINEERING
 (An Autonomous Institution)
 ST. JOSEPH'S GROUP OF INSTITUTIONS
 JEPPIAAR EDUCATIONAL TRUST
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 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
 IN ASSOCIATION WITH

IETE STUDENTS' FORUM- ISF
 (INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS)

TECHNOFEST
 "A Mini Project Competition"

VENUE : ECE LAB
DATE : 17th OCT'22
TIME - 9:40 TO 11 AM

CHIEF PATRON
Dr. B. BABU MANOHARAN M.A., M.B.A, Ph.D
 CHAIRMAN, St. JOSEPH'S GROUP OF INSTITUTIONS

PATRONS

Mrs. S. Jessie Priya M.Com
 Managing Director, St. Joseph's Group of Institutions

Mr. B. Shashi Sekar M.sc
 Executive Director, St. Joseph's Group of Institutions

Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D
 Principal, St. Joseph's College of Engineering

Dr. V. Vallinayagam M.Sc, M.Phil, Ph.D
 Dean (Student Affairs)

Dr. A. Chandra Sekar M.E, Ph.D
 Dean (Research)

Dr. G. Sreekumar M.Sc, M.Tech, Ph.D
 Dean (Academics)

CONVENORS

Dr. B. Victoria Jancee M.E, Ph.D
 HOD-Staff Affairs

Dr. S. Aghalya M.E, Ph.D
 HOD-Student Affairs

Dr. P. Ezhilarasi M.E, Ph.D
 HOD-Lab Affairs

IETE CO ORDINATORS

Dr. Shirley Selvan M.E, Ph.D
 Associate Professor

Dr. D. Lakshmi M.E, Ph.D
 Associate Professor

ISF OFFICE BEARERS

Anand E - Chairman
 Rubeshwaran A - Vice Chairman
 Sameeksha S A - Secretary
 Sai Priyadarshini J - Treasurer

The Department of Electronics and Communication Engineering, St. Joseph's College of Engineering in association with the IETE Student Forum ISF conducted the event "TECHNOFEST" on 17th of October 2022. TECHNOFEST is a mini project event which was conducted for both IETE and Non IETE members.

A total of 10 teams from all years had participated. The event was conducted for about two hours, from 10:00 am to 12:00 pm.

Dr. I. Johnsi Stella, Mrs. P. Elaveni and Dr. P. Latha from the department of Electronics and Communication Engineering were the chief judges of the event. The participants were highly enthusiastic and confident in explaining their project work and demo.

Participants presented their models and ideas on various topics such as Signal/image processing, Human brain interface, Embedded systems, IoT based applications, Biomedical engineering applications and Wireless sensor-based projects.

Each team was given a time limit of 5 to 10 minutes to give their presentation. The judges had evaluated the projects on a 10-point scale.

The Winners and runners of the event were presented with Certificates of Appreciation and cash prizes.

A cash prize of Rs 750/- was awarded to the winners,

A cash prize of Rs 500/- was awarded to the first runner-up and,

A cash prize of Rs 400/- was awarded to the second runner-up.

iii)IEEE Event :

The members of the Institute of Electrical and Electronics Engineers Student Chapter (IEEE) from St. Joseph's College of Engineering was successful in conducting an event in the National Level Technical Symposium 'JETSIGNUM 2K22' on behalf of the ECE department.



iv)IEEE Event : ENROLLMENT DRIVE 2022-2023

Report

The event was held to discover young, talented and aspiring minds to cope with the change and overcome the current and future challenges of our industries and beyond. Participants were invited from leading technological and management institutes. It was open to all colleges in and around Tamil Nadu. The event was held on October 8th 2022, within the college premises. Totally 170 students from various colleges registered for the event in which around 150 students participated. There were around 30 teams, each team comprising of 3 to 4 members.

The event CODEX was held in two rounds. The prelims round had a set of coding questions with medium level of difficulty. Around 10 teams were qualified for the finale. The final round was a bit harder and all the participants cracked them enthusiastically. Two of the faculty members were honoured as the judge. The fastest coders were declared the winners by the judge.

The Volunteers from the IEEE Student Chapter took over the entire mentoring session with the guidance of the IEEE office bearers. The event was made a grand success with the help of the management, staff members, office bearers and the IEEE Student Chapter volunteers. The winners were consolidated with Amazon vouchers. The first prize was awarded with an amazon voucher of 500 rupees. The second prize was given Amazon voucher of 250 rupees and the third prize was given Amazon voucher of 125 rupees. Merit certificates were awarded to all the winners.

Report



“ENROLLMENT DRIVE 2022-2023” was organized by the department of ELECTRONICS AND COMMUNICATIONS ENGINEERING in association with **Institute of Electrical and Electronics Engineers (IEEE)**. The drive gave the opportunities of joining the IEEE STUDENT BRANCH CHAPTER which was specially meant for the IInd year students of ECE dept from **St. Joseph’s College of Engineering**.

The total details about IEEE, its societies and its opportunities were explained. The events, webinars, conferences and Hackathons held so far by IEEE were elaborated successfully. The members of the IEEE made sure that the students were aware about the societies in ECE department. Lectures were given on COMMUNICATIONS SOCIETY, ELECTRON DEVICES SOCIETY, BROADCAST TECHNOLOGY SOCIETY, ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY, ANTENNA PROPAGATION SOCIETY, INDUSTRIAL ELECTRONICS SOCIETY.

The freshers were given details about the IEEE website, its accessibility, easy approachment of research papers and were provided with the benefits of attending international conferences. Totally more than 130 freshers from the IInd year ECE department of St. Joseph’s College of Engineering participated. The full Enrollment Drive was under the monitor of Dr.Venkatesan.K, the Co-Ordinator of IEEE Student Branch Chapter and was organized by the team of Office bearers.

Small quizzes were also conducted and there was active participation among the students. The newbies were encouraged to join the upcoming events of IEEE STUDENT CHAPTER. The best thing about the event was that more than 80 students showed interest in taking



the IEEE membership.

V) OPTICA Event: QUAD SQUAD

Report

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 Since 1994

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

in association with
 OPTICA STUDENT CHAPTER

PROUDLY PRESENTS

OPTICA
 Advancing Optics and Photonics Worldwide

Scan to Register

DATE
 08th
 OCTOBER
 2022

JET SIGNUM
 2K22

QUAD SQUAD

Link - <https://forms.gle/NconqwU29Af49ZVk9>

A fun filled technical event on behalf of the National Level Smposium “JETSIGNUM” was conducted for the students of Electronics and Communication Engineering on the title “QUAD SQUAD”. It was organized by the Department of ECE in association with the **OPTICA** student chapter on **08.10.2022**. The event started with a welcome address and the rules and regulations for the event were instructed. Around 80 students i.e 22 teams participated from different colleges and got benefited. There were totally 5 rounds in this event.

The first round was called as the prelims. In this round a technical quiz was conducted where each team was given question paper in two sets, set-A and set-B alternatively. Each team had 30 minutes to complete the paper and submit. Most of the questions were MCQ and others were fill in the blanks. The participants found the questions more innovative and trickier to solve. From this round only 6 teams were selected for the second round. All the 6 teams were present in the next 4 rounds. These rounds were points based and the team with the highest point won the event.

- FIRST ROUND: TRAGEDY REASONING**
- SECOND ROUND: WHISPER CHALLENGE**
- THIRD ROUND: HAWKEYE**
- FOURTH ROUND: GREEN SCREEN**

The team with the highest points overall had won the event. The entire event was monitored by Dr.B.Vasudevan, Co-Ordinator of Optica student chapter. The event was a total success and a great experience to the participants as well as to the organizers. Everyone had lot of fun in the event and learnt something new.

2. Courses/Workshop Attended by Faculty:

The following staff member have completed in the month of October at National Level

S. No	Name of the Staff	Title of the Course	NPTEL/Coursera/Udemy	Duration	Date of Completion
1.	D.Lakshmi	Mathematical Aspects of Biomedical Electronic System Design	NPTEL – Course by IISc - Bangalore	12 weeks	29.10.22
2.	Mrs.E.Malarvizhi	Powering IoT using ARDUINO RASPBERRY Pi	Madras Institute of Technology , Anna University, Chennai-44	5 Days	19.09.2022 to 23.09.2022
3.	Dr. S.Vinayagapriya	Recent Tools and Technologies for Data Science and Artificial Intelligence	Online	7 Days	19.9.2022 to 26.9.2022
4.	Dr. G. Sivagurunathan	Development of Artificial Intelligence and Data Science in developing Electrical Engineering Application	NIT Warangal, Online	2 Weeks	04-08-22 to 17-08-22
5.	Venkatesan.K	FDP on Amazon Web Services	Online	6 Days	22.08.2022 to 27.08.2022

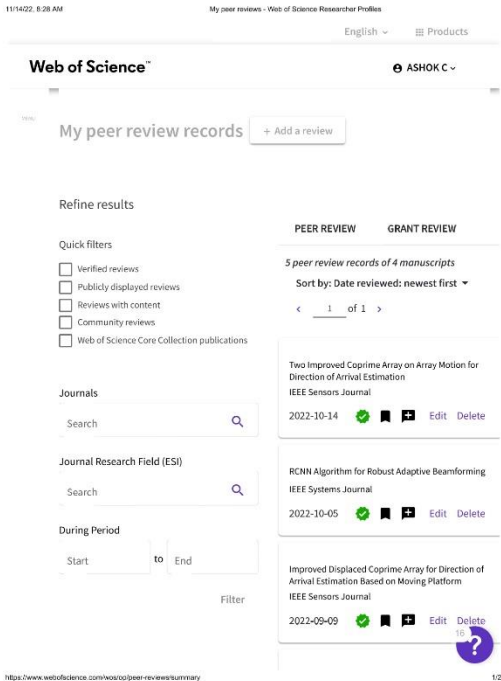
3. Publications:

The following staff member have published the research papers during October in Conference at International Level

S. No	Name of the Author	Paper Title	Name of the Conference	Publication Details	Date of Publication
1.	Dr. R. Niruban	Analysis of Various Toxic Gas Levels Using 5G ML-IoT for Air Quality Monitoring and Forecasting	IOT with Smart Systems, ICTIS 2022 Conference Proceedings, Springer Book Smart innovation, systems and technologies	Scopus (Yet to be Indexed)	October 2022

4. Faculty Recognized as a Reviewer:

The following staff member have been certified as a reviewer

S.No.	Name of the Staff	Journal Details	Review Details
1.	Mr. C. Ashok	IEEE Sensors Journals IEEE Systems Journals	 <p>11/14/22, 8:28 AM My peer reviews - Web of Science Researcher Profiles English Products</p> <p>Web of Science™ ASHOK C</p> <p>My peer review records + Add a review</p> <p>Refine results</p> <p>Quick filters</p> <ul style="list-style-type: none"> <input type="checkbox"/> Verified reviews <input type="checkbox"/> Publicly displayed reviews <input type="checkbox"/> Reviews with content <input type="checkbox"/> Community reviews <input type="checkbox"/> Web of Science Core Collection publications <p>Journals</p> <p>Search</p> <p>Journal Research Field (ESI)</p> <p>Search</p> <p>During Period</p> <p>Start to End</p> <p>Filter</p> <p>PEER REVIEW GRANT REVIEW</p> <p>5 peer review records of 4 manuscripts</p> <p>Sort by: Date reviewed: newest first</p> <p>< 1 of 1 ></p> <p>Two Improved Coprime Array on Array Motion for Direction of Arrival Estimation IEEE Sensors Journal 2022-10-14 [Status] [Icons] Edit Delete</p> <p>RCNN Algorithm for Robust Adaptive Beamforming IEEE Systems Journal 2022-10-05 [Status] [Icons] Edit Delete</p> <p>Improved Displaced Coprime Array for Direction of Arrival Estimation Based on Moving Platform IEEE Sensors Journal 2022-09-09 [Status] [Icons] Edit Delete</p> <p>https://www.webofscience.com/woa/ot/peer-review/summary 1/2</p>