



A.C.S. COLLEGE OF ENGINEERING

#207, KAMBIPURA, MYSURU ROAD, BENGALURU - 74

(Affiliated to VTU, Belagavi, Recognized by the Govt. of Karnataka, Approved by AICTE, New Delhi)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

NEWSLETTER

VOLUME : 6

ACADEMIC YEAR : 2020-21



CHIEF PATRONS

Dr. A.C. SHANMUGAM, B.A. LLB, FIMSA, FRCPS(Glasgow, UK)
Chairman, Rajarajeswari Group of Institutions

A.C.S. ARUNKUMAR, B.Tech(Hons), LMISTE, MIET.(UK), LMCSI.,
Vice Chairman, Rajarajeswari Group of Institutions

PATRONS

Dr. S. VIJAYANAND, Ph.D
Executive Director, Rajarajeswari Group of Institutions

Sri. C. N. SEETHARAM, IAS (Retd.)
CEO, Rajarajeswari Group of Institutions

Dr. S. JEYABALAN, Ph.D
Special Officer, Rajarajeswari Group of Institutions

Dr. M. S. MURALI, Ph. D.
Principal, ACS College of Engineering

HEAD OF THE DEPARTMENT

Dr. Bharathi Gururaj
Associate Professor & Head, Department of ECE

EDITOR

Mr. Prajith Nair
Assistant Professor, Department of ECE

ABOUT ECE DEPARTMENT

The Department started in 2009 with an intake of 60. The Department offers UG and PhD programmes. The department of Electronics and Communication Engineering is accredited by NBA and NAAC with 'A' grade. The Department has an outstanding track record and has consistently intended to create Electronics & Communication Engineering graduates of exceptional quality and caliber. The Department has highly qualified, experienced and committed faculty members. The Department is self-sustained with state of Art laboratories, software and volumes of books. The department imparts Quality Education in Electronics and Communication Engineering through focus on Fundamentals, Research, and Innovation. The main objective of conducting various events is to fill the gap between industry and academics and to transfer Knowledge by imparting quality training (Both theory and Hands on) to our students. All the major activities will be handled by industry experts from top companies only.

VISION

Impart quality education to create world class technocrats and entrepreneurs with new ideas and innovations to meet industry expectations through advanced research.

MISSION

- To develop and deliver quality academic programmes in emerging and innovative field of Engineering to empower the students to meet Industry Standards.
- To build student community with high ethical standards to undertake R&D in thrust areas of national and international needs.
- To create centre of Excellence by establishing the incubation centres to meet global research challenges.

COURSES OFFERED

B.E – ELECTRONICS & COMMUNICATION ENGINEERING

FUNDING FROM AICTE:

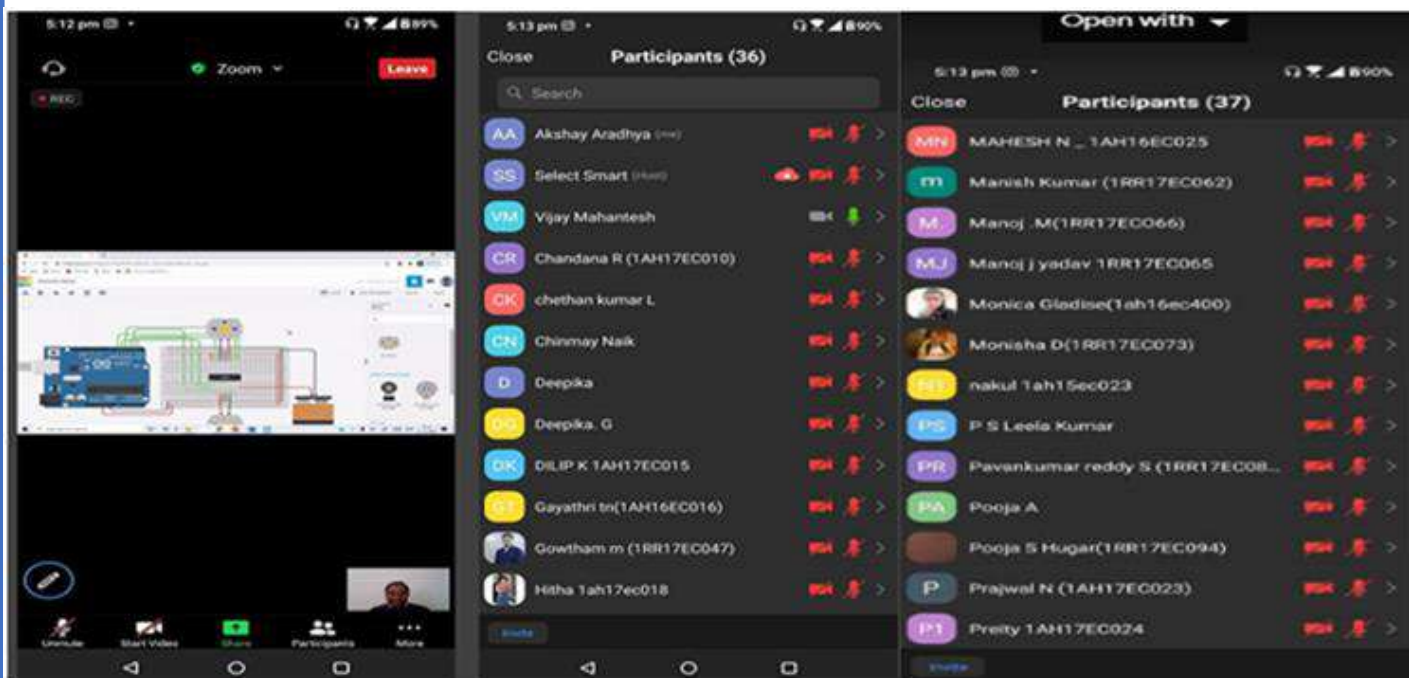
The Six day online Short Term Training Programme (STTP) on “**Industry 4.0**” was sponsored by AICTE and was conducted by the Department of Electronics and Communication Engineering of ACS College of Engineering ,Bengaluru. Around 400 + faculty members had attended the same in four phases between 19th October 2020 and 12th December 2020.

FACULTY ACHIEVEMENTS

Dr. Prasanna Kumar and Dr. Bharathi Gururaj obtained Ph.D. degree from VTU, Belagavi adding feather in the crown for our Department. Around 25+ publications have been published from our dept from past one year.

ONLINE INTERSHIP PROGRAMME:

Dept of ECE in collaboration with “Clever Bit solutions”, Bangalore along with (CTDS) Centre for Test and Data Science conducted Online Internship Programme on “**Internet of things and Home automation using Embedded systems**” for our ECE students from 7/9/2020 to 1/10/2020. 40 hours of virtual internship programme (VIP) was conducted successfully. Our VII semester students attended the same from 5pm to 7.30 pm .Certificates were issued for all the students who attended the same.



BEST PRACTICES IN DEPT OF ECE

- Academic Excellence Through Experienced Faculty Members.
- Hands On Experience In Laboratories Using “Best State Of Art Laboratories” .
- Sharing The Knowledge And Wisdom From Experts Using “Webinars” Through “Center For Test and Data Science (Ctds), RRGi and through Department Webinars, Seminars ,Technical Talks.
- Industrial Visits & Innovation Labs
- Industry Connect With “FICE & INTEL” Along With MOU’s with Companies.
- Spoken Tutorials In Collaboration With “IIT BOMBAY” .
- Best Corporate Training Using “Workshops And Placement /Training Activities” .
- R& D Center With Paper Publications (In SCI & WOS) from both Faculty Members and Students.
- National And International Conferences/Inter Collegiate Faculty Development Programme
- Nptel Courses
- Mentoring/ Parents Teachers Meet/
- Women’s Day Celebration

LABORATORY DETAILS



**ELECTRONICS DEVICES AND INSTRUMENTATION
LABORATORY-18ECL37**



Digital System Design Laboratory-18ECL38



Microcontroller Laboratory-18ECL47



Analog Circuits Laboratory -18ECL48



DSP Lab-17ECL57



HDL Lab-17ECL58



Embedded Controller Lab -17ECL67



Advanced Communication Lab-17ECL76



VLSI LAB-17ECL77

STUDENTS PARTICIPATION



National level SMART HACKATHON PARTICIPATION



**ECE students
Participation at
“ National
Engineering College
Startup
Entrepreneurship
Summit” ,**



**“BEST PAPER AWARD”
to Chandan Gowda of
VIth sem ECE on Smart
Helmet**

STUDENTS OUTREACH PROGRAMS-AICTE ACTIVITY



ROLL OF HONOURS

USN	STUDENT NAME	Marks obtained	Percentage
1AH17EC013	CHETHAN KUMAR L	632	79
1AH16EC034 1AH16EC015	POOJA B R & DEVIKA S	629	90
1AH15EC038	SOUNDARYA C D	620	88.5
1AH14EC010	HEMA B	655	87.3
1AH13EC026	RAMYA B	628	84
1AH12EC014	LAKSHMI S	642	86
1AH11EC002	AMARASHREE P	535	71.88
1AH10EC001	ABHILASHA C P	671	89.04
1AH09EC001	AMULYA S	599	80

PLACEMENTS OF ECE STUDENTS

2020-2021

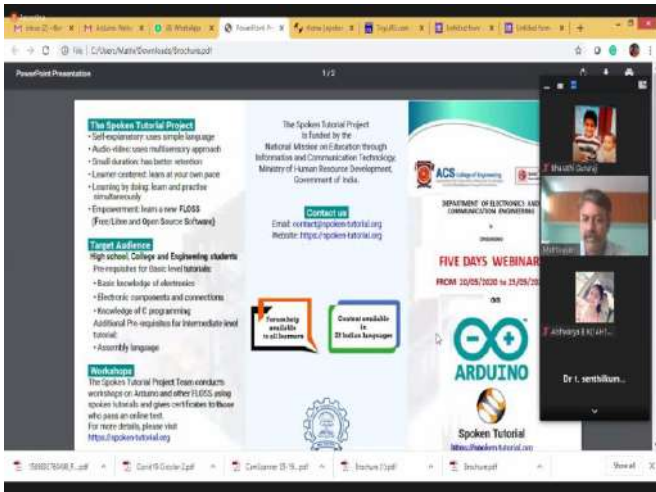
Name	USN	Discipline	YOP	Employer Name & Their Website
Abhinav Anand	1AH17EC001	ECE	2021	GOVERNMENT SECTOR, BIHAR
Akshay Aradhya.M	1AH17EC004	ECE	2021	TESSOLVE
Ashwini.M	1AH17EC006	ECE	2021	Electrono Solutions
Athira.K	1AH17EC007	ECE	2021	Cognizant
Brinda.V	1AH17EC009	ECE	2021	HIGHER STUDIES-RMIT
Chandana.R	1AH17EC010	ECE	2021	Pentagon Space Pvt Ltd
Chandan Gowda.K R	1AH17EC011	ECE	2021	Electrono Solutions AVIN SYSTMS PVT LTD
Chethan Kumar.B	1AH17EC012	ECE	2021	VALIANT COMMUNICATIONS
Chethan Kumar.L	1AH17EC013	ECE	2021	TESSOLVE
Dilip.K	1AH17EC015	ECE	2021	GSAS MICROSYSTEM
Dinesh.M	1AH17EC016	ECE	2021	Revtech
Drupad.N	1AH17EC017	ECE	2021	TCS
Hitha Suresh	1AH17EC018	ECE	2021	BOSCH
Jeshwanth. Y R	1AH17EC019	ECE	2021	WIPRO
Kala.N.S.	1AH17EC020	ECE	2021	FUJITSU
Prajwal.N	1AH17EC023	ECE	2021	TCS , WIPRO
Samarth Kulkarni	1AH17EC027	ECE	2021	EDGATE Technologies
Sarwesh	1AH17EC028	ECE	2021	HCL Technologies
Shreyas. D K	1AH17EC030	ECE	2021	MainTec, Accenture
Vidya.M	1AH17EC032	ECE	2021	Electrono Solutions
Lithin K Dani	1AH15EC017	ECE	2021	FIRSTSOURCE
Ravikumar K	1AH15EC029	ECE	2021	MainTec
Monica Gladise k	1AH16EC400	ECE	2021	ENTERPRENEUR-AROGYAVAAYU ENTERPRISES
Prajwal C N	1AH16EC035	ECE	2021	BRIGHT CHAMPS
Madhumitha B	1AH16EC024	ECE	2021	ROYAL WEB DESIGN

LIST OF EVENTS CONDUCTED DURING 2020- 2021-ODD

Sl. No	Date	Details of The Events	Title of the Events	Name of the Speaker	Faculty in charge
1	1/09/2020	Orientation Program	Orientation Program	Dr. H B Bhuvaneshwari	Dr. H B Bhuvaneshwari
2	21/09/2020	National education policy	Webinar on “National Education Policy”	Shiksha Parv,Ministry of Education, New Delhi	Dr. A M Prasanna kumar
3	22/09/2020	National education policy	Webinar on “National Education Policy”	Dr. MANJUNATH B C ,PRINCIPAL,NEW HORIZON COLLEGE OF ENGINEERING,BANGALORE	
4	9/11/2020	Webinar	Introduction to Industry 4.0 & its human application	Mr. Jagadeesh Maiya, VP & Head engineering APAC, Endurance Group	Mr. Prajith Prakash Nair
5	9/11/2020	Webinar	Digital Transformation & its Impact in industries	Mr. Yash, Global Technical Marketing Leader, Aruba & HP Enterprise Company	Mr. Prajith Prakash Nair
6	11/11/2020	Webinar	Opportunities for ECE students in Pharma & Health Care	Dr. M A Kumar Principal Advanced Engineering Group Infosys	Mr. Prajith Prakash Nair
7	12/11/2020	Webinar	Introduction to Data Validation & Analytics	Mr. Kalyan B Ram CEO, Electrono Solution	Mr. Prajith Prakash Nair
8	13/11/2020	Webinar	Introduction to IOT in Manufacturing Industries	Mr. Lux Rao Director, NTT Data	Mr. Prajith Prakash Nair
9	14/11/2020	Webinar	Recent trends in AR & BR in Manufacturing Industries	Mr. Sreekanta Aaradya Chief experts I 4.0, Robert Bosch Engineering	Mr. Prajith Prakash Nair
10	23/11/2020	Webinar	Introduction to Industry 4.0 & its human application	Mr. Jagadeesh Maiya, VP & Head engineering APAC, Endurance Group	Mr. Prajith Prakash Nair
11	23/11/2020	Webinar	Digital Transformation & its Impact in industries	Mr. Yash, Global Technical Marketing Leader, Aruba & HP Enterprise Company	Mr. Prajith Prakash Nair
12	24/11/2020	Webinar	Applications of Industry 4.0 in Education Sector	Mr. Anish Pandari Director, Electrono Solutions	Mr. Prajith Prakash Nair
13	25/11/2020	Webinar	Opportunities for ECE students in Pharma & Health Care	Dr. M A Kumar Principal Advanced Engineering Group Infosys	Mr. Prajith Prakash Nair
14	26/11/2020	Webinar	Introduction to IOT in Manufacturing Industries	Mr. Lux Rao Director, NTT Data	Mr. Prajith Prakash Nair

LIST OF EVENTS CONDUCTED DURING 2020- 2021-EVEN

Sl. No	Date	Details of The Events	Title of the Events	Name of the Speaker	Faculty in charge	Remarks
1	5/4/2021	STTP	STTP			
2	26/3/2021 TO 3/4/2021	7 days soft skill programs	Soft skills program	ICT Academy	Ashwini A M	ECE STUDENT S
3	1/05/2021	PARENT TEACHERS MEETING FOR ALL THREE SEMESTER		STAKE HOLDERS	CLASS TEACHERS	Parents and staff
4	18/05/2021	WEBINAR ON MAGIC OF SWITCH WORDS AND HEALING	WEBINAR ON MAGIC OF SWITCH WORDS AND HEALING	Mrs. Deepa Rani Shekar Founder Director Transform Life Program	DR .HBB	ECE STUDENT S
5	3/06/2021	WEBINAR ON E- MOBILITY	WEBINAR ON E- MOBILITY	1) Mr.Arpit Chauhan ,CEO Erkey Motors 2) Mr.Ashhar AhmeD Skill Director , Skill Shark	Prajith Nair	
6	5/6/2021	WEBINAR ON 3D PRINTING TECHNOLOGY	WEBINAR ON 3D PRINTING TECHNOLOGY	Dr.Raghaveendra K Associate Professor CIIRC , Jyothy Institute of Technology		
7	5/6/2021	WEBINAR ON CAMPUS TO CORPORATE	WEBINAR ON CAMPUS TO CORPORATE	Ms.Rajashree Rao Head of all innovation hub and partnerships,R2 data labs, Rolls Royce India Pvt. Ltd..		
8	11/6/2021	WEBINAR ON CAREER PLANNING FOR FUTURE ENGINEERS	WEBINAR ON CAREER PLANNING FOR FUTURE ENGINEERS	Mr. SUPREETH Y S Facebook India ambassador HackerEarth Ambassador Co Founder and CEO , Tequered Labs		

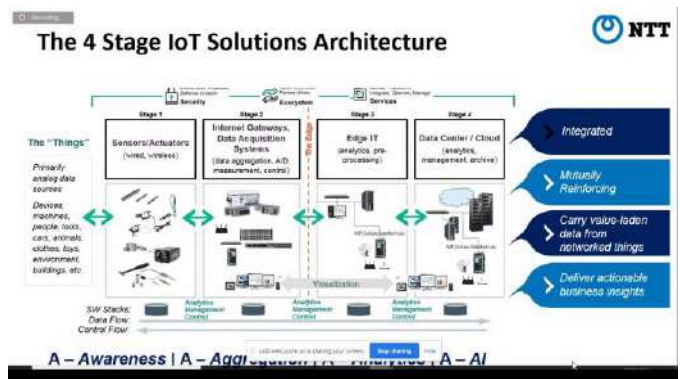
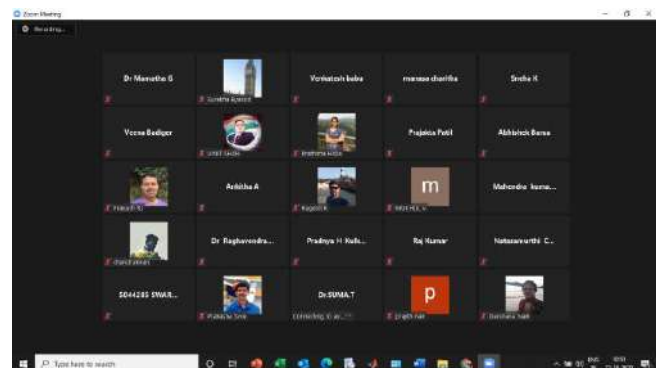


5 days “Student Development Programme” on Arduino in collaboration with IIT Bombay from 20/5/2020 to 25/05/2020



Mr. Nisarg Nirmal Kumar delivered the talk on Modern day Automobiles Electromechatronics”

Webinar on 3D Printing



Webinar

Webinar on IoT by Mr.Lux rao,NTT Data

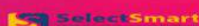
Dr Karthik Seemakurthy
Ph. D (IIT Madras), Research
Scientist, TCS Research &
Innovative Labs



WEBINAR

Python Programming for Image Processing and Computer Vision Session 2

Zoom Meeting ID : 870 5947 9315
Password : 017238
11 am on Saturday, May 23, 2020
First 500 students logging in thro Zoom will get an
opportunity to interact with the speaker directly.
The session will be aired LIVE on Youtube for
the benefit of all other students.



WEBINAR

VLSI FRONT END



Mrs Priya Ananthakrishnan
Corporate Technical
Trainer



Zoom ID : 829 5755 4454
Password : 044207
2 pm, Saturday May 23, 2020

First 500 students logging in
thro Zoom will get an
opportunity to interact with the
speaker directly. The session will
be aired LIVE on Youtube for the
benefit of all other students.

HIGHER EDUCATION OPPORTUNITIES IN UNITED KINGDOM

Date: 26-April-2020 | Time: 2pm to 3pm | Platform: Zoom

CONDUCTED BY



Dr. Nakkeeran
Program Lead, EEE,
University of Aberdeen
United Kingdom

TOPICS COVERED

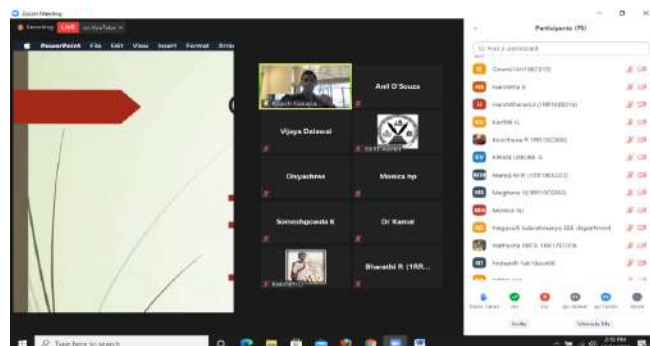
Why Higher Education
Recommended Higher Education Streams
Higher Education Opportunities
Recent Trends
Demand of the current industry



Students login via <http://college.selectsmart.net> and get access to
Updated Webinar Contents | Online Assessment | Certification Details
If you have any queries, email us to info@selectsmart.net



Meeting ID: 984 8457 2590
Password: 067418



ACS
College of Engineering

Institutions Innovation Council Organises

Workshop on IoT Based Rapid Prototyping

INTERNET of THINGS

Zoom Id: 8634386115
Password: rrbi

Date: 17/03/2021, 10:30AM

Organizing Committee

Mr.A.Krishna Kumar, Convener - ACSIIC	Dr.G.Ramanan, President - ACSIIC	Dr.P.Theerthamalal, Vice President - ACSIIC	Dr.M.S.Murali, Head of Institution
--	-------------------------------------	--	---------------------------------------

ACS
College of Engineering

ACS Institution Innovation Council Organises

National Level Workshop on "IPR & IP Management for Startups"

Resource Person
Mr. O. Prasad Rao
Deputy Controller of
Patents and Designs
Patents office
Chennai

Registration Link: <https://forms.gle/BjNFRLnMapk3jnk96>
Date: 27/03/2021 Time: 10am to 12.30pm

Organizing Committee

Mr.A.Krishna Kumar, Convener - ACSIIC	Dr.G.Ramanan, President - ACSIIC	Dr.P.Theerthamalal, Vice President - ACSIIC	Dr.M.S.Murali, Head of Institution
--	-------------------------------------	--	---------------------------------------

ACS
College of Engineering

Institutions Innovation Council organises

Workshop on How to plan for Startup - Legal and Ethical steps

Date: 17th Apr 2021 Time: 10:30am

Resource person
Dr. G.Vinoth, M.S., Ph.D, (USA)
CEO & Chief Start up Designer
Pongu ventures Pvt Ltd

Zoom meeting Id: 863 438 6115
Passcode: rrbi

Organizing Committee

Mr.A.Krishna Kumar, Convener - ACSIIC	Dr.G.Ramanan, President - ACSIIC	Dr.P.Theerthamalal, Vice President - ACSIIC	Dr.M.S.Murali, Head of Institution
--	-------------------------------------	--	---------------------------------------

FACULTY MEMBERS PUBLICATION DETAILS

Journals & Conference Details 2019-21

Sl. No	Name of the faculty	Title of the paper	Title of the journal, Publisher name & details	National / International	Indexed Scopus / Web of Science
Conference Details					
1	Dr.H.B. Bhuvaneswari	Arduino Energy Consumption Sensing System with LabVIEW User Interface”	Intelligent Systems Conference (IntelliSys) ,RRCE conference Jan 2020	International Conference	Scopus
2.		Design and Modeling of a large deflection Micro cantilever using rectangular SCR	Francis Xavier Engineering College Tamilnadu,27-29 November 2019.	International Conference	Scopus
1	Dr. Bharathi Gururaj	Design of Modified CERSA Generator for the Improved Array Factor Behaviour of Fractal Array Antennas using SCILAB	Sri Shakthi Institute of Engineering and Technology 27-29 th January 2021	International Conference on Computer Communication and Informatics (ICCCI)	IEEE
1	Mr.Prajith Prakash Nair	Rapid Low Power Voltage Level Shifter Utilizing Regulated Cross Coupled Pull Up Network	Sri Shakthi Institute of Engineering and Technology 27-29 th January 2021	International Conference on Computer Communication and Informatics (ICCCI)	IEEE

FACULTY MEMBERS PUBLICATION DETAILS

Journal Details					
1	Dr.H.B. Bhuvaneshwari	“Arduino Energy Consumption Sensing System with LabVIEW User Interface”	Test Engineering and Management Page No. 23052 – 23060, Vol 83, May- June 2020.	International	SCI JOURNAL
2		” Geometric optimization for High Deflection Cantilever”	paper communicated to <i>Australian Journal of Electrical Engineering</i> , 2020.		
3					
1	Dr. A. M. Prasanna Kumar	Noise Cancellation Employing Adaptive Digital Filters for Mobile Applications	Indonesian Journal of Electrical Engineering and Informatics (IJEI) Vol 8, Issue -1, pp. 112-122, Mar-2020, ISSN: 2089-3272, Impact Factor : 1.59, Q2 ranking, H-Index – 4	International	Scopus
2		ANNHBPAA Based Noise Cancellation Employing Adaptive Digital Filters for Mobile Applications	Springer unpaid Journal Institute Engineering 10 th May 2021	Springer	

FACULTY MEMBERS PUBLICATION DETAILS

1	Dr. Bharathi Gururaj	Channel encoding system for transmitting image over wireless network	International Journal of Electrical and Computer Engineering (IJECE) Vol. 10, No. 5, pp. 4655~4662, ISSN: 2088-8708, October 2020,	International	Scopus&Web of Science Emerging SCI
2		FPGA Implementation of Low Power High Speed BTED Algorithm for 8-Bit Error Correction in Cryptography System.	“International Journal of Emerging Trends in engineering Research”, volume 8. No.7, pp 3893-3897, July 2020		
3		Design and Development of Low Power BTED Cryptography Algorithm on FPGA	International Journal of Advanced Trends in Computer Science and Engineering, Volume 9, No.4, pp 4359-4362, July – August 2020		
4		Study and analysis of BTED error correction codes for cryptography applications	International Journal of Advanced Trends in Computer Science and Engineering, Sept. 2020, 9(5), pp. 8938–8942		
1	Dr. Anitha S	Low complexity and efficient implementation of wimax interleaver in transmitter	Proceedings of International Conference on Intelligent Computing, Information and Control Systems-2020 https://link.springer.com/book/10.1007/978-981-15-8443-5 pp 441-447.	International	SPRINGER
2		POST COVID - 19 ERA SPORTS IN NEW DIMENSION HEALTH AND FITNESS ISSUES	Approved UGC Care Vol. 7, issue 27, July to September Pg. Nos. 215-223 2020 ISSN-2348 -2397	National	UGC care
1	Mr. Prajith Prakash Nair	AN EFFICIENT ANALYSIS OF ANOMALOUS CHANGES IN MRI IMAGES USING TUNED GABOR FILTERS	International Journal of Modern Education and Computer Science	International	Scopus

Funding Details for the year 2020-21

Sl. No	Name of the faculty	Title of the Project	Agency Name	Amount	Status
1	Dr.H.B. Bhuvaneswari	Short Term Training program on “Industry 4.0”	AICTE	3,96,000	Completed
2	Dr.M.Mathivanan	EEG Signal Analysis for Detecting Drowsiness of the Driver	Foundation of Advancement of Education and Research, Bangalore	5,000/-	Completed
3	Dr.H.B. Bhuvaneswari	Industrial Boiler using IOT	VTU	5000/-	Completed
4	Mr.Harish L	Social Distancing Detection and Monitoring Using YOLO V3	VTU	5000/-	Completed

FUNDING FROM AICTE

THE SIX DAY ONLINE SHORT TERM TRAINING PROGRAMME (STTP) ON “**INDUSTRY 4.0**” WAS SPONSORED BY AICTE AND WAS CONDUCTED BY THE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING OF ACS COLLEGE OF ENGINEERING ,BENGALURU. AROUND 400 + FACULTY MEMBERS HAD ATTENDED THE SAME IN FOUR PHASES BETWEEN 19TH OCTOBER 2020 AND 12TH DECEMBER 2020.

CHIEF PATRON

Dr. A. C. Shanmugam,
B.A.LLB, FMSA, FRCPS (Glasgow, UK)
Founder Chancellor & Chairman,
Raja Rajeswari Group of Institutions

CO-PATRON

Dr. A. C. S. Arun Kumar,
B.Tech (Hons), LMISTE, MIET, (UK), LMCSI,
President, Raja Rajeswari Group of Institutions

PATRONS

Dr. S. Vijayanand, M.Tech., Ph.D.,
Executive Director, RRG
Sri. C.N. Seetharam, IAS (Retd.),
Chief Executive Officer, RRG
Prof. Dr. S. Jaya Balan, M.E., MBA, Ph.D.,
Special Officer, RRG
Dr. T.R. Gopalakrishnan Nair, Ph.D.,
Rector, RRG

CHIEF CONVENER

Dr. M.S. Murali, Ph.D.,
Principal, ACSCE

PROGRAMME COORDINATOR

Dr. H.S. Shrivastava,
Professor & Head, ECE, ACSCE

ORGANIZING TEAM

Dr. A.M. Prasanna Kumar,
Professor, ECE, ACSCE
Mrs. Bharathi Gururaj,
Assistant Professor, ECE, ACSCE
Mr. Nagesh, H.B.,
Assistant Professor, ECE, ACSCE
Mrs. Vijaya Dalawa,
Assistant Professor, ECE, ACSCE
Mr. Prajit Prakash Nair,
Assistant Professor, ECE ACSCE

WHO CAN ATTEND

Faculty members from AICTE approved institutions and
Industry Persons (limited to 4 only)

REGISTRATION

No registration fee. The total seats are limited to 40 and
the participants will be selected on First Come First Serve
basis. "E-Certificates" will be issued to the registered
participants upon successful completion of the
programme.

HOW TO APPLY

The interested participants can register at
<https://forms.gle/yhX33SKMPRV4fxS9>

on or before 14th Oct 2020. The selected participants will
be intimated on or before 16th Oct 2020.

PLATFORMS



**For any Clarifications / Registrations
Please contact**

Prof. Bharathi Gururaj

Mob: 9980095899

Email id: bharathigururaj@gmail.com

Prof. Prajit Prakash Nair

Mob: 7994559958

Email id: ppnair86@gmail.com



ACS COLLEGE OF ENGINEERING

#02, Kamdipura, Mysore Road, Bangalore-74
Approved by AICTE, New Delhi, affiliated to VTU, Belagavi and approved by Govt. of Karnataka
Website: www.acscoe.edu.in



6 Days Short Term Training Programme on INDUSTRY 4.0-Fourth Industrial Revolution

19th to 24th October 2020

Sponsored by



Organized by

**DEPARTMENT
OF**

ELECTRONICS AND COMMUNICATION ENGINEERING



ABOUT ACSCE

ACS College of Engineering (ACSCE) was established in
2009, under the banner of Mookambigai Educational and
Charitable Trust which was founded by
Dr. A.C. Shanmugam. ACSCE is approved by AICTE
New Delhi, Government of Karnataka, and affiliated to
VTU Belagavi. Happy to inform that we are NAAC
accredited with 'A' grade for all programs and NBA
accredited for our program. The institute offers UG, PG &
Ph.D Courses in all major fields of Engineering. The
institute is also actively engaged in heading Various
Research Projects and other Development Activities
which is supported by Branches like Aeronautical
Engineering, Aerospace Engineering, Bio-Medical
Engineering, Civil Engineering, Computer Science and
Engineering, Electronics and Communication
Engineering and Mechanical Engineering.

ABOUT ECE DEPARTMENT

The Department was started in 2009 with an intake of 60.
The Department offers UG, PG and Ph.D programmes.
The Department of Electronics and Communication
Engineering is accredited by NBA and NAAC with 'A'
grade. The Department has an outstanding track record
and has consistently intended to create Electronics &
Communication Engineering graduates of exceptional
quality and caliber. The Department has highly qualified,
experienced and committed faculty members. The
Department is self-sustained with State of Art
laboratories, software and volumes of books.

ABOUT THE STTP

Fourth Industrial revolution -Industry 4.0 is a blend of
advanced analytics, Big Data, Robotics & Automation,
Artificial Intelligence, Internet of Things and Process
Digitization. Industry 4.0 plays an important role in
manufacturing and engineering sectors, automotive and
process industries, as well as the electronics and

electrical systems along with information and
communications industries. A Technology that aims on
interconnectivity, automation, machine learning, and real-
time monitoring among the machines and processes.

The fourth industrial revolution plays an important role in
making long-term manufacturing efficiency possible. The
industrial sector is required to produce ever larger
quantities using fewer raw materials and less energy.
Industry 4.0 will help companies create efficient
manufacturing processes with increased production,
energy and resource efficiency. The fourth industrial
revolution has been characterized by the increasing
digitization and interconnection of products, value chains
and business models.



Digitization is finding its way into horizontal as well as
vertical value chains to an equal extent. Digitization and
greater connectivity in process organisation may permit
areas of work to be rationalised and may yield gains in
productivity. The intelligent analysis and integrated use of
data for controlling purposes also reduces the rejection
rate in production.

OBJECTIVE OF STTP

The main objective of conducting STTP is to fill the gap
between industry and academics and to transfer
knowledge by imparting quality training (Both theory and
Hands-on) to participants. The course will be handled by
industry experts from top companies.

RESOURCE PERSONS

- ❖ **Jagadeesh Maiya**, President - Engineering
Endurance International Group, Bangalore.
- ❖ **Mr. Yash N N**, Global Technical Marketing
Leader, Anubaa Hewlett Packard Enterprise Company.
- ❖ **Mr. Kalyan Ram B**, CEO, Electrono Solutions.
- ❖ **Dr. M.A. Kumar**, Industry Principal, Infosys.
- ❖ **Mr. Malikarjun Sharma**, Chief IT Architect, Electrono
Solutions.
- ❖ **Mr. Lux Rao**, Senior Director & Head - Solutions, NTT
India
- ❖ **Mr. Anish Pandari**, Product Development Head,
Electrono Solutions
- ❖ **Mr. Snehanth Baradhyay**, Chief Expert, Robert Bosch
Engineering & Business Solutions Pvt. Ltd., Bangalore.
- ❖ **S. Arun Kumar**, Research Director, Electrono
Solutions.

TOPIC OF THE SESSIONS (Theory & Hands on Sessions)

- ❖ Challenges of implementing 4.0 mainly from social
and Organizational Perspective.
- ❖ Human Challenges for making a smooth transition to
4.0 & beyond.
- ❖ Digital Transformation 3.0 to 4.0.
 - a) Introduction to Industry 4.0.
 - b) Digital Transformation from Industry 3.0 to 4.0.
 - c) Challenges and Digital Solution of Industry 4.0, 2.0, 3.0.
 - d) Summary of Industry 4.0, Practical Use cases 4.0
and beyond.
- ❖ Need for Industry 4.0, Industry 4.0 Adoption across
Various Sectors.
- ❖ Industry 4.0 and Opportunities in Health care.
- ❖ Data Validation & Analytics.
- ❖ Industry 4.0 across 3 domains:
 - a) "The Origin" - Evolution of Industry to its current
state of 4.0.
 - b) "The Applicability" - Application of technology in the
Industry - Use cases.
 - c) "Keeping it Real" - Experiential knowledge with real
life case studies.
- ❖ Key trending technologies and their cases for Industry
4.0 - AR/VR, 5G, Blockchain, etc.
- ❖ Along with Hands on session using Cloud software
central (four afternoons sessions).

Zoom Meeting

Recording...

Speaker View

Participants (29)

Find a participant

Grid of participants:

- Anish Pandari
- prajith nair
- Bhujangswari H B
- Dr Sneha
- Vijaya Dalawai
- hb nagesh MURTHY
- Somesh Singh
- VINIT SHAH
- Murali Seetharam
- Prakasha
- Agadeesh Marja
- Anand h
- Suryanarayana...
- Dr Rangalah
- Prakash Rj
- Connecting to au...
- S Arun kumar
- Dr Ramanan G
- Prathima Holla
- Gayathri tn
- Raj Kumar
- Nibu Babu
- Ragesh Kumar
- Ankitha Arun
- Venkatesh babu

Unmute Start Video Security Participants Chat Share Screen Pause/Stop Recording Reactions End

Type here to search

ENG 10:18 19-10-2020

Zoom Meeting

Recording...


Participants (28)

Find a participant

Grid of participants:

- prajith nair (Host, me)
- Anish Pandari
- Abhishek Barua
- Admin
- Anand h
- Bapugowda C m
- chandrakiran
- chandrakiran-07* 1AH15EC008
- Dr H B Bhuvanewari
- gayatri joshi
- GIT Mech
- hb nagesh MURTHY
- Malikarjuna
- Prajith Nair

Smart Factory: Areas of Focus



Unmute Start Video Security Participants Chat Share Screen Pause/Stop Recording Reactions End

Type here to search

ENG 11:41 20-10-2020

DETAILS OF SDP FOR 2021

The Spoken Tutorial Project

- Self-explanatory: uses simple language
- Audio-video: uses multisensory approach
- Small duration: has better retention
- Learner-centered: learn at your own pace
- Learning by doing: learn and practise simultaneously
- Empowerment: learn a new FLOSS (Free/Libre and Open Source Software)

Target Group

- Android App developers
- Programmers
- Software Developers

Workshops

The Spoken Tutorial Project Team conducts workshops on Android app using kotlin and other FLOSS using spoken tutorials and gives certificates to those who pass an online test.

For more details, please visit
<https://spoken-tutorial.org>

Forum

We have developed a beginner friendly Forum to answer specific questions pertaining to any part of a particular tutorial.
For more details, please visit
<https://forums.spoken-tutorial.org>

The Spoken Tutorial Project
is funded by the
National Mission on Education through
Information and Communication Technology,
Ministry of Human Resource Development,
Government of India.

Contact us

Email: contact@spoken-tutorial.org
Website: <https://spoken-tutorial.org>



Spoken Tutorial by IIT Bombay is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License.

All trademarks within this document belong to their legitimate owners.



Spoken Tutorial

<https://spoken-tutorial.org>



Scan the QR code to
visit Spoken Tutorial website

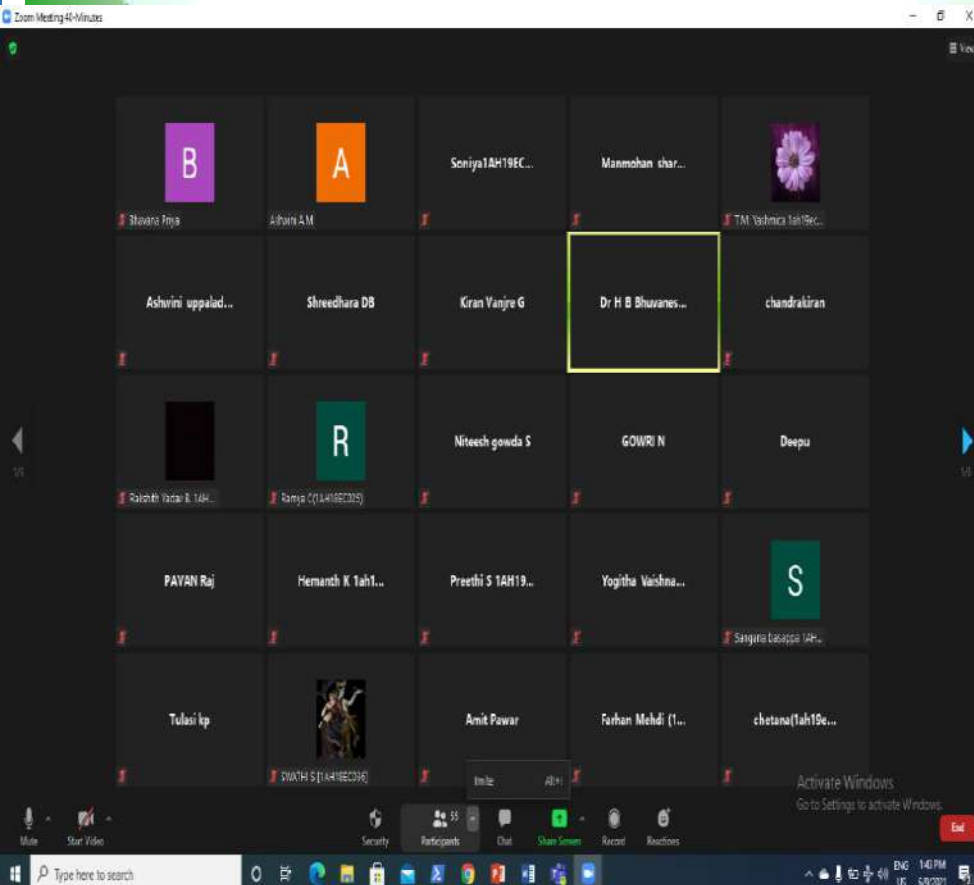


Android app using kotlin

National Mission on Education through
Information and Communication
Technology
(NMEICT)
www.sakshat.ac.in

Funded by MHRD, Government of India.

Information
about SDP
on Aurdino
and Python
conveyed to
students of
4th sem and
6th sem
respectively
on
09/06/2021



LIST OF PROJECT AND PROJECT BATCHES FOR THE YEAR 2020-2021

SL.NO	PROJECT AREA	USN	BATCH MEMBERS	GUIDE NAME
1	Social Distancing Detection and Monitoring Using YOLO V3	1AH16EC035	Prajwal C N	Mr.Harish L
2		1AH16EC008	Manoj B M	
3		1AH16EC046	Yashpal Gowda H V	
4	Crop Yield Prediction Using Machine Learning	1AH17EC002	Aditya Swaroop.S	Mrs.Ashwini.A
5		1AH17EC007	Athira.K	
6		1AH17EC019	Jeshwanth.Y.R	
7		1AH16EC025	Mahesh.N	
8	Industrial Boiler using IOT	1AH17EC011	Chandan Gowda.K R	Dr. H B Bhuvaneswari
9		1AH17EC014	Deepika.G	
10		1AH17EC032	Vidya.M	
11		1AH17EC027	Samarth Kulkarni	
12	Prevention of Piracy Using IR Transmitter and Stegnography Technique	1AH17EC018	Hitha Suresh	Dr. Bharathi Gururaj
13		1AH17EC016	Dinesh.M	
14		1AH16EC035	Prajwal N	
15		1AH17EC033	Vinaykumar N Pattar	
16	Advanced Bank Locker Security System	1AH17EC010	Chandana.R	Mr. Nagesh H B
17		1AH16EC017	Gayithri H H	
18		1AH17EC020	Kala.N.S.	
19		1AH17EC024	Preity.T	
20	Intelligent Packaging Solution for safe and secure delivery	1AH17EC004	Akshay Aradhya.M	Mrs. Vijaya Dalwai
21		1AH17EC006	Ashwini.M	
22		1AH17EC012	Chethan Kumar.B	
23		1AH14EC027	Samatha	

LIST OF PROJECT AND PROJECT BATCHES FOR THE YEAR 2020-2021

24	Fuel Efficient Waste Management method using Graph Theory	1AH17EC009	Brinda.V	Mr. Prajith Prakash Nair
25		1AH16EC033	Pavithra P C	
26		1AH15EC034	Sathyashree G	
		1AH15EC002	Anindith P	
28	IOT Based Green House System with Leaf Disease Detection	1AH15EC009	Chinmaya Naik	Mr.Prajith Prakash Nair
29		1AH15EC017	Lithin K Dani	
30		1AH15EC029	Ravikumar K	
31		1AH15EC023	Nakul H	
32	Smart Electronic Voting Machine	1AH17EC008	Bharath kumar P	Mr. Nagesh H B
33		1AH17EC015	Dilip K	
34		1AH17EC017	Drupad N	
35		1AH17EC022	Monish D	
36	Smart ambulance for Health Monitoring and Traffic Control System Using IOT	1AH17EC013	Chethan Kumar.L	Mrs. Vijaya Dalwai
37		1AH17EC030	Shreyas. D K	
38		1AH17EC028	Sarwesh	
39		1AH17EC001	Abhinav Anand	
40	Smart Black Box for Automobiles	1AH16EC016	Gayathri T N	Dr. Bharathi Gururaj
41		1AH16EC400	Monica Gladise k	
42		1AH16EC039	Suraksha N	
43		1AH16EC024	Madhumitha B	

Scholars pursuing Ph.D under ACS Research Centre

Sl.no	Research Guide	Research Centre	Name of the Scholar	Topic of the Research	Year of Registration
1.	Ms. Manasa Charitha	ACS Research Centre, Dept of ECE, ACSCE	Dr. H.B. Bhuvaneshwari	Communication Systems	2017
2.	Ms. H.R. Niveditha	ACS Research Centre, Dept of ECE, ACSCE	Dr. S. Anitha	Biomedical Engineering	2017
3.	Mr. S.CH. Vijaya Bhaskar			Image Processing	2017
4.	Mrs. P. Vanajakshi	VTU Research Centre, Dept of CSE, ACSCE	Dr. M. Mathivanan	Speech Recognition	2016

VTU RESEARCH GUIDESHIP DETAIL

S.No	Guide Name	Number of Scholars
1	Dr. H.B. Bhuvaneshwari	01
2	Dr. S. Anitha	02
3	Dr. M. Mathivanan	07



A.C.S. COLLEGE OF ENGINEERING
Kambipura, Mysore Road, Bangalore – 560 074