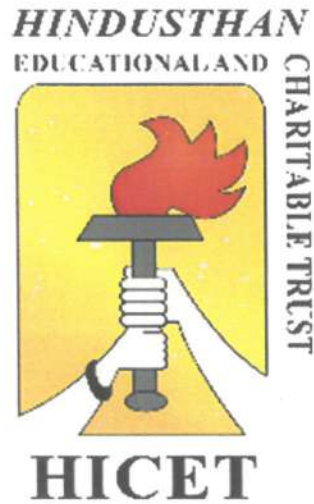


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***CENTRE FOR FACULTY DEVELOPMENT***  
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**CENTRE FOR FACULTY DEVELOPMENT  
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**Faculty Development Programme**

**Schedule of Events (2019 - 2020)**

<b>Date</b>	<b>Topic / Session</b>	<b>Resource Person</b>	<b>Participants</b>
12.07.2019 to 13.07.2019	CSIR Sponsored National Level Seminar on "Power of Big Data in Cyber Security: Contemporary Research Methods"	<b>Mr Sujith Kumar I.P.S</b> Superintendent of Police Coimbatore.	All Faculty Members
2.8.19 & 3.8.19	Business Analytics Using R"	<b>Mr. ArunKumar Pillai</b> Marketing Analytics	All Faculty Members
05.09.2019 to 06.09.2019	CSIR Sponsored National Level Seminar on "Application of wireless communication using 3D IC Technology"	<b>Dr S Manoj Kumar</b> Professor & Head Department of IT	All Faculty Members
04.11.2019 - 17.11.2019.	AICTE sponsored two week National Level Faculty Development Program on "Deep Learning in Bio-Medical Applications for IOT	<b>Dr N S Gopi</b> NIT Trichy	All Faculty Members
19.12.2019 - 20.12.2019	CSIR Sponsored Two days national level seminar on Exploration on Deep Learning in Biomedical Informatics	<b>DR.L.JUBAIR AHAMED</b> Professor Department of ECE Sri Eshwar College of Engineering	All Faculty Members
19.01.2020 - 20.01.2020	CSIR Sponsored Two days national level seminar on "Home automation and smart security based on IoT"	<b>Dr. C. Arvind</b> Professor Department of ECE Karpagam College of Engineering Coimbatore.	All Faculty Members



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**Report for Power of Big Data in Cyber Security: Contemporary Research Methods organized / participated**

Name of the Faculty : Dr Rajeshwari	
Department : Electronics and Communication Engineering	Designation : Professor
Name of the Event : Power of Big Data in Cyber Security: Contemporary Research Methods	
Level : International / National / State / Regional / Industry / University / College Level	
Venue : PG Seminar Hall	
No. of Days : 2 Days	Dates : 12 <sup>th</sup> and 13 <sup>th</sup> July 2019
Funded by : IIT / CSIR / DST / DRD / INSCVT / R SSB / MO / JI / INS / Management	
No. of Participants : 120 ✓	Registration charges (if any) : --
Name and Designation of Resource Person(s) : Mr Sujith Kumar IPS Superintendent Coimbatore	
Outcome : Able to find the nuances of Big Data. Research Fields available in the area of big data in cyber security was a good exposure to faculties.	
Remarks and Feedback on the Event : Participants found the session very interesting and informative.	
Plan of Implementing in HiCET (if any) : -	

  
CFD Coordinator  
**Dr. A.R. JAYASUDHA**  
Professor & Head

Department of Computer Applications  
Hindusthan College of Engineering & Technology





Principal

Hindusthan College of Engineering & Technology  
**COIMBATORE - 641 032**

**CENTRE FOR FACULTY DEVELOPMENT**

**POWER OF BIG DATA IN CYBER  
SECURITY**

**Mr Sujith Kumar I P S  
Superintendent  
Coimbatore**



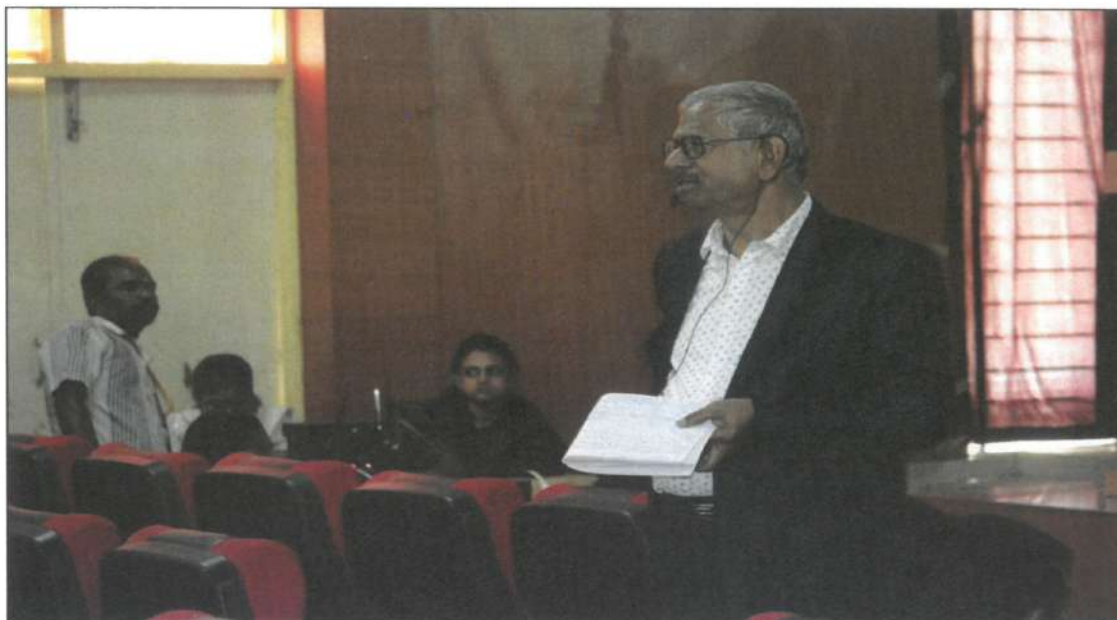
**Date: 12 July 2019**

**Venue: PG Seminar Hall**

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**In God We trust, All  
others bring DATA**

Photographs of Event – 2 Nos:





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**CENTRE FOR FACULTY DEVELOPMENT  
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**CENTRE FOR FACULTY DEVELOPMENT**

**POWER OF BIG DATA IN CYBER  
SECURITY**

**Mr Sujith Kumar I P S  
Superintendent  
Coimbatore**



**Date: 12 July 2019**  
**Venue: PG Seminar Hall**

---

**In God We trust, All  
others bring DATA**

**HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**COIMBATORE – 641 032**  
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**(CFD)**

**Date: 12.07.2019 & 13.07.2019**

**Chief Guest : Mr SujithKumar I.P.S, Superintendent of Police, Coimbatore.**

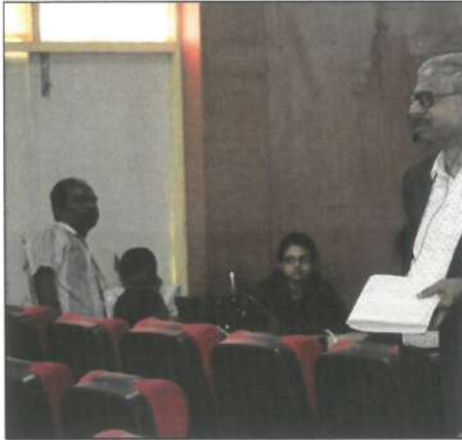
A two days CSIR Sponsored National Level Seminar on 'Power of Big data in Cyber Security : Contemporary Research Methods ' was successfully conducted by the Centre for Faculty Development on 12<sup>th</sup> and 13<sup>th</sup> July 2019.

Dr.B.Ramadoss, Professor Department of Computer Applications, NIT Trichy, inaugurated the seminar at 09.45 am on the first day. Dr.P.Vijayalakshmi, Associate Professor Department of Electronics and Communication Engineering started the inauguration ceremony with a prayer song followed by a welcome address. Dr. S.Annadurai, Advisor, Hindusthan Group of Institutions delivered the inaugural address, and Dr.T.Kannadasan, Principal, Hindusthan College of Engineering and Technology delivered the Presidential address.



Centre for Faculty Development, Hindusthan College of Engineering and Technology, Coimbatore





The first session of the seminar was 'Security, Privacy and Trust in cloud Computing and Security tools for Social Networks' which was delivered by Dr.B.Ramadoss. He started with Introduction to Overview, Threats ,Security Privacy ,Trust and Needs of Cloud Computing followed by losses of control in the cloud which was an eye opening session for the participants.

The second day started blissfully by Dr.Nandhini Manokaran , Department of Computer Science , Government Arts College , Udumalpet. She handled the session



very interactively making the participants to involve on the title 'Online user behavior tracking – Challenges & defenses .' which includes types of tracking, Web Beacons/bugs, Browser/device fingerprinting ,sniffing and also many real time examples etc., which is useful for this young generation.

The next speaker for the day was Mr.N.Ravichandran, Consultant, Cyber security services, Coimbatore. He started session with cyber risk assessment followed by Real application security risk, organizations security controls.





The last session of the seminar was delivered by Dr.T.Gireesh Kumar, Associate Professor, TIFAC Corein Cyber Security, Amrita Vishwa Vidyapeetham, Coimbatore. He explained about the Cyber Security Risks and Mitigation which includes Cyber Security issuescontinued

with cyber attacks and session was ended up with solution cyber security risks and attacks and it was an eye-opening session for the young minds.



Finally, the seminar ended up with Valedictory ceremony with a special vote of gratitude by the organizing Secretary Mrs.T.Nivethitha, Assistant Professor, Department of Electronics and Communication Engineering followed by the National Anthem.





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**College of Engineering and Technology,**  
**Othakkalmandapam post, Coimbatore 641 032.**

**Report for Business Analytics using R organized / participated**

Name of the Faculty : Dr Samuel	
Department : Master of Business Administration	Designation : Professor
Name of the Event : Business Analytics using R	
Level : <del>International</del> National <del>State</del> <del>Regional</del> <del>Industry</del> <del>University</del> <del>College Level</del>	
Venue : PG Block, MBA Lab	
No. of Days : 1 Day	Dates : 2/8/2019 to 3/8/2019
Funded by : -- <del>UGC</del> <del>CSIR</del> <del>ISI</del> <del>ISIR</del> <del>ICNS</del> <del>SI</del> <del>ICSSR</del> <del>NCERT</del> <del>INS A Management</del>	
No. of Participants : 59 ✓	Registration charges (if any) : --
Name and Designation of Resource Person(s) : Mr Arun Kumar Pillai	
Outcome : Participants were exposed to the analytics part of business and learnt effectively usage of R programming Language.	
Remarks and Feedback on the Event : Participants found the session worth attending and are happy about the promptness of the questions answered.	
Plan of Implementing in HiCET (if any) : --	

  
 CFD Coordinator  
**Dr. A.R. JAYASUDHA**  
 Professor & Head

  
 Principal  
**PRINCIPAL**  
 Hindusthan College of Engineering & Technology  
**COIMBATORE - 641 032**

Department of Computer Applications  
 Hindusthan College of Engineering & Technology



Copy of the Event Brochure / Invitation:

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Pulimedu, Chennai - 600 092, Tamil Nadu, India

**DEPARTMENT OF MANAGEMENT SCIENCES**

**Faculty Development Programme  
on**

**"BUSINESS ANALYTICS USING R"**

Date : 2<sup>nd</sup> & 3<sup>rd</sup> August 2019

Resource person  
**Mr. Arun Kumar Pillai**

Faculty Coordinator  
**Mrs. V. Kanimozhi**  
Assistant professor  
9894793391

**Dr. K. Samuvel**  
Director-MBA

Programme  
fee  
₹ 500/-

Time : 09:30 am - 05:00 pm  
Venue : PG BLOCK - COMPUTER LAB

Limited entries only on First come First serve basis.,  
Register using the link: <http://bit.ly/2N1CoqY>

Photographs of Event – 2 Nos:





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**CENTRE FOR FACULTY DEVELOPMENT  
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Accredited With 'A' Grade by NAAC & NBA  
Address: Hindusthan Charitable Trust, Coimbatore-641 032.

**DEPARTMENT OF MANAGEMENT SCIENCES**

*Faculty Development Programme*  
*on*

**"BUSINESS ANALYTICS USING R"**

Date : 2<sup>nd</sup> & 3<sup>rd</sup> August 2019

Resource person  
**Mr. Arun Kumar Pillai**

**Faculty Coordinator**  
**Mrs. V. Kanimozhi**  
Assistant professor  
9894793391

**Dr. K. Samuvel**  
Director-MBA

Time : 09:30 am - 05:00 pm  
Venue : PG BLOCK - COMPUTER LAB

Limited entries only on First come First serve basis.,  
Register using the link: <https://bit.ly/2HJCoqY>

**HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY**

**COIMBATORE – 641 032**

**CENTRE FOR FACULTY DEVELOPMENT**  
**(*CFD*)**

**2<sup>nd</sup> & 3<sup>rd</sup> August 2019 Day 1**

9.30 am	-	Registration
9.40 am		Data Science & R Introduction
11.15 am		R Implementation & R Data Structures
11.20 am		Tea Break
11.40 am		(Session Resumes) R Interfaces & Descriptive Statistics using R
1.15 pm		Lunch Break
2.15 pm		Introduction of Hypothesis Testing Inferential Statistics using R
		Data Visualization using R
3.15 pm		Correlation Analysis using R

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**(*CFD*)**

**2<sup>nd</sup> & 3<sup>rd</sup> August 2019 Day 2**

9.30 am	-	Registration
9.40 am		Data Science & R Introduction
11.15 am		R Implementation & R Data Structures
11.20 am		Tea Break (Session Resumes)
11.40 am		R Interfaces & Descriptive Statistics using R
1.15 pm		Lunch Break
2.15 pm		Introduction of Hypothesis Testing Inferential Statistics using R
		Data Visualization using R
3.15 pm		Correlation Analysis using R



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**Date: 02.08.2019 & 03.09.2019**

**Chief Guest : Mr Arun Kumar Pillai**

A Faculty development programme on Business Analytics was conducted by Centre for Faculty Development Programme. Mr Arun Kumar Pillai lighted the lamp and addressed the gathering.

Mr Arun Kumar Pillai has ample years of experience in Marketing Analytics and in designing product based solutions to business problems. He is experienced in statistical coding languages like R, Big data tools and SAS.



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The Speaker made the participants aware of what R language is and its usage. He told them that Business Analytics With R or commonly known as 'R Programming Language

is an open-source programming language and a software environment designed by and for statisticians. It is basically used for statistical computations and high-end graphics.



Faculties were made aware that One common use of R for business analytics is building custom data collection, clustering, and analytical models. Instead of opting for a pre-made approach, R data analysis allows companies to create statistics engines that can provide better, more relevant insights due to more precise data collection and storage.





# HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

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## DEPARTMENT OF MANAGEMENT SCIENCES

FDP ON "BUSINESS ANALYTICS USING R"

DATE : 2<sup>nd</sup> & 3<sup>rd</sup> AUGUST 2019



The programme coordinator delivered the Vote of Thanks and the programme was successfully completed by saluting the Nation with National Anthem.

Centre for Faculty Development, Hindusthan College of Engineering and Technology, Coimbatore






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**Report for APPLICATION OF WIRELESS DATA COMMUNICATION USING 3D IC TECHNOLOGY organized / participated**

Name of the Faculty : Dr Rajeshwari	
Department : ECE	Designation : Professor
Name of the Event : National Level Seminar on Application Of Wireless Data Communication Using 3d IC Technology	
Level : International / <b>National</b> / State / Regional / Industry / University / College Level	
Venue : CSE Seminar Hall	
No. of Days : 2 Days	Dates : 5 <sup>th</sup> and 6 <sup>th</sup> September 2019
Funded by : IGC <b>CSIR</b> / DST / DSIR / NSRF / ICSSR / NCFE / ANSA / Management	
No. of Participants : 86 ✓	Registration charges (if any) : ---
Name and Designation of Resource Person(s) : Dr S Manoj Kumar, Professor ECE, Karpagam College of Engineering, Coimbatore. Dr P T Vanathi, Professor ECE, PSG College of Technology, Coimbatore. Dr H Managalam, Professor ECE, Sri Ramakrishna Institute of Technology, Coimbatore. Dr A KishoreKumar, Associate Professor ECE, Hindusthan college of Engineering and Technology.	
Outcome : Identify the need for wireless data communication and applications. Identify the research opportunities in 3D IC technology Next Revolution in semiconductor & Packaging Technologies. Challenges in 3D IC technology and possible solutions. Interconnect technology - Through Silicon Via.	
Remarks and Feedback on the Event :  Entire sessions were attended by faculties and it very informative and interesting.	
Plan of Implementing in HiCET (if any) : --	

  
 CFD Coordinator  
**Dr. A.R. JAYASUDHA**  
 Professor & Head  
 Department of Computer Applications  
 Hindusthan College of Engineering & Technology



  
 Principal  
**PRINCIPAL**  
 Hindusthan College of Engineering & Technology,  
**COIMBATORE - 641 032**

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**National Level  
Seminar on  
APPLICATION OF  
WIRELESS DATA  
COMMUNICATION  
USING 3D IC  
TECHNOLOGY**

---

**Seminar**

**HINDUSTHAN**



Photographs of Event – 2 Nos:



Photographs of Event – 2 Nos:





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**CENTRE FOR FACULTY DEVELOPMENT  
(*CFD*)**

**National Level  
Seminar on  
APPLICATION OF  
WIRELESS DATA  
COMMUNICATION  
USING 3D IC  
TECHNOLOGY**

**Seminar**



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COIMBATORE – 641 032**

**CENTRE FOR FACULTY DEVELOPMENT  
(*CFD*)**

**Date: 05.09.2019 & 06.09.2019**

**Chief Guest : Dr Manoj Kumar, Professor & Head, Department of IT.**

A two days CSIR Sponsored National Level Seminar on “APPLICATION OF WIRELESS DATA COMMUNICATION USING 3D IC TECHNOLOGY” was successfully conducted by the Centre for Faculty Development in Hindusthan College of Engineering and Technology, Coimbatore on 5th and 6th of September, 2019.

The inauguration ceremony started with Dr.S.Annadurai, Advisor, Hindusthan Group of Institutions, Coimbatore, Dr.T.Kannadasan, Principal, Hindusthan College



of Engineering and Technology, Dr.P.Rajeswari, Professor and Head, Department of Electronics and Communication Engineering and Dr.K.Kalaiselvi, Associate Professor, Department of Electronics and Communication Engineering, and Ms.B.Ambika, Assistant Professor, Department of Electronics and Communication Engineering, at 09.45 am on the first day.

Centre for Faculty Development, Hindusthan College of Engineering and Technology, Coimbatore





Dr.K.Kalaiselvi started the inauguration ceremony with a prayer song followed by welcome address. Dr.S.Annadurai, gave the inaugural address, and Dr.T.Kannadasan, gave Presidential address



Then the first session of the seminar is "Introduction Wireless Data Communication" was delivered by Dr.S.Manoj Kumar, Professor and Head, Department of Information Technology, Karpagam College of Engineering, Coimbatore.

He started with Introduction to wireless communication and wireless data communication and Networks, the need for wireless communication Networks, various wireless communication network applications and services.



The post lunch II and III sessions "Introduction to 3D IC Technology and Opportunities in 3D IC Technology" were handled by Dr.P.T.Vanathi, Professor, Department of Electronics and Communication Engineering, PSG college of Technology, Coimbatore.

Centre for Faculty Development, Hindusthan College of Engineering and Technology, Coimbatore



**HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY  
COIMBATORE – 641 032**

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**04 to 17 November 2019**

- 9.30 am - **Registration**
- 9.40 am **Bio Medical Image Processing and Research Issues**  
Dr N S Gopi, NIT Trichy
- 11.15 am **Bio Medical Image Processing employing MATLAB**  
Dr R Lavanaya,  
Assistant Professor, Amrita Vishwa Vidyapeetham,  
Coimbatore
- 11.20 am **Tea Break**
- 11.40 am **Deep learning Model Selection**  
Dr U S Raghupathy  
Professor & Head, E&I  
Kongu Engineering College.
- 1.15 pm **Lunch Break**
- 2.15 pm **Case Study on Deep Learning Technology on Oology**  
Dr. S.J.K. Jagadeesh Kumar  
Vice Principal, HICET
- 3.15 pm **Power Aware IoT**  
Dr Manikandan,  
Rajalakshmi Engineering College, Chennai
- 4.00 pm **Applications of IoT in Health Care**  
Dr. Banu, Professor,  
PSG College of Technology, Coimbatore.

Centre for Faculty Development, Hindusthan College of Engineering and Technology, Coimbatore





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**College of Engineering and Technology,**  
**Othakkalmandapam post, Coimbatore 641 032.**

**Report for Deep Learning in Bio-Medical Applications for IoT organized / participated**

Name of the Faculty : Dr P Rajeshwari	
Department : ECE	Designation : Professor
Name of the Event : Deep Learning in Bio-Medical Applications for IoT	
Level : International / <b>National</b> / State / Regional / Industry / University / College Level	
Venue : CSE Seminar Hall	
No. of Days : 2 Weeks	Dates : 04 <sup>th</sup> till 17 <sup>th</sup> November 2019
Funded by : <b>AICTE</b> / UGC / CSIR / DST / DSIR / FNSCSI / ICSSR / NCTERT / INSA Management	
No. of Participants : 69	Registration charges (if any) : --
<p>Name and Designation of Resource Person(s) :</p> <p>Dr.N.S.GopiNIT, Trichy</p> <p>Dr.R.Lavanya, Assistant Professor, Amrita VishwaVidyapeetham, Coimbatore</p> <p>Dr.U.S.Raghupathy, Prof and Head, E&amp;I, Kongu Engineering College</p> <p>Dr. S.J.K. Jagadeesh Kumar Vice Principal, HICET Pantech Technologies, Coimbatore</p> <p>Dr.S.Shankar, Prof and Head, CSE, HICET,</p> <p>Mr. Rajesh, Buzz Tech Training Institute, Coimbatore.</p> <p>Dr.Manikandan, Rajalakshmi Engineering College, Chennai.</p> <p>Dr.Banu, Professor, PSG College of Technology, Coimbatore.</p>	
<p>Outcome :</p> <ul style="list-style-type: none"> <li>To understand different tools for image processing in biomedical field.</li> <li>To know the latest image processing techniques available in the real time application.</li> </ul>	

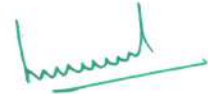


Remarks and Feedback on the Event :  
Participants found the session lengthy but informative and useful.

Plan of Implementing in HiCET (if any) : -

  
CFD Coordinator

**Dr. A.R. JAYASUDHA**  
Associate Professor / Head  
Department of Computer Applications  
Hindusthan College of Engineering and Technology  
Coimbatore - 641032.



Principal

PRINCIPAL

Hindusthan College of Engineering & Tech.  
COIMBATORE - 641 032



Copy of the Event Brochure / Invitation:

**AICTE SPONSORED 2 WEEK FDP  
ON  
DEEP LEARNING IN BIO-MEDICAL  
APPLICATIONS FOR IoT  
04<sup>th</sup> to 17<sup>th</sup> NOVEMBER 2019**

**CHIEF PATRONS**  
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 Chairman  
 Smt. T.R.K. Sarasuwathi Khannaiyann  
 Secretary  
 Er. K. Priya Satish Prabu  
 Joint Secretary  
 Hindusthan Educational Institutions

**PATRONS**  
 Dr. S. Annadurai  
 Advisor  
 Dr. T. Kannadasan  
 Principal  
 Dr. S.J.K. Jagadeesh Kumar  
 Vice Principal  
 Dr. PN. Magudewaran  
 Dean Academics

**CHAIRMAN**  
 Dr. P. Rajeswari,  
 Professor & Head  
 Dept. of Electronics and Communication  
 Engineering

**CONVENERS**  
 Mr. B. Veerasamy  
 Associate Professor/Department of ECE  
 Ph. 9751702400  
 Mr. P. Suresh Kumar  
 Assistant Professor/Department of ECE  
 Ph. 9944382829  
 E-Mail ID: fdpechicet@gmail.com

**AICTE SPONSORED  
2 WEEK FDP  
ON  
DEEP LEARNING IN BIO-MEDICAL  
APPLICATIONS FOR IoT  
04<sup>th</sup> to 17<sup>th</sup> NOVEMBER 2019**



*Organized by*  
**DEPARTMENT OF ELECTRONICS &  
COMMUNICATION ENGINEERING**  
 in association with  
**AICTE**  
**HINDUSTHAN COLLEGE OF  
ENGINEERING AND TECHNOLOGY**  
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 Chennai. Accredited by NBA (CSE, ECE, EEE, IT, MECH)  
 Accredited with 'A' Grade by NAAC  
 Othakkalmandapam, Coimbatore - 641 032  
 Ph. 0422-2930216 Fax: 0422-2611833  
 E-Mail: hcert@hindusthan.net | Website: www.hindusthan.net/hcert

**Registration Form**

Name : \_\_\_\_\_  
 Designation : \_\_\_\_\_  
 Branch : \_\_\_\_\_  
 Qualification : \_\_\_\_\_  
 Institution / Industry : \_\_\_\_\_  
 Address : \_\_\_\_\_  
 Mobile No. : \_\_\_\_\_  
 Email ID : \_\_\_\_\_  
 Accommodation Required: Yes / No \_\_\_\_\_

The details furnished above are true to the best of my knowledge. I agree to abide by the rules and regulations governing the course. If selected, I shall attend the course for the entire duration.

Signature of the applicant \_\_\_\_\_

**Declaration**

Dr./Mr./Mrs. \_\_\_\_\_  
 is an employee of our institution and is sponsored to attend the AICTE sponsored FDP conducted by Hindusthan College of Engineering and Technology, Coimbatore from 04/11/2019 to 17/11/2019.

Place : \_\_\_\_\_  
 Date : / / 2019 \_\_\_\_\_

Signature of Authority with seal \_\_\_\_\_

**ABOUT THE COLLEGE**

Hindusthan College of Engineering and Technology, an institution of academic excellence, was founded in the year 2000 by Hindusthan Educational and Charitable Trust, under the leadership of Thiru T.S.R.Khannaiyann, Chairman and Thirumathi K. Sarasuwathi Khannaiyann, Secretary.

Hindusthan College of Engineering and Technology is an AICTE approved institution, affiliated to Anna University and ISO 9001:2000 certified by TUV. The institution has been accredited by NBA and with A Grade by NAAC. The HICET campus with all the facilities is spread over 120 acres and is located on the Coimbatore to Pollachi road and is about 12kms away from Coimbatore Railway Junction. The Institution is well known for its high education standards with excellent infrastructure, faculty, progressive outlook, high academic standards and record performance.

**ABOUT THE DEPARTMENT  
VISION OF THE DEPARTMENT**

To evolve as a Centre of Excellence in Electronics and Communication Engineering, to cater the global industrial needs.

**MISSION OF THE DEPARTMENT**

- To expand frontiers of knowledge through the provision of inspiring learning environment.
- To develop the intellectual skills towards employability by fostering innovation and creativity in learning.
- To provide a quality system for wholesome learning to achieve progress and prosperity in life along with moral values.

The Department of Electronics and Communication Engineering came into existence in the year 2000. Ever since its inception, it has been splendid in providing dynamic and quality engineers to the society. The department has UG programme in Electronics & Communication Engineering and PG programmes in Communication Systems and ECE offering high class technical education to the students. Our department has MoU with Intel® in the field of IoT.

**ABOUT THE FDP**

The importance of medical imaging includes early detection, diagnosis, and treatment of diseases. The medical image interpretation has mostly been performed by human but, due to large variations in pathology and potential fatigue of human experts began to benefit from computer-assisted interventions. The advances in computational medical image analysis, is been improved with the help of Deep learning techniques. Internet of Things (IoT) can connects people, to create new services and medical applications to achieve common objectives of diagnosis. Thus the concept of Deep learning and IoT can create wonders in the medical field. Hence, we are conducting a Faculty Development Programme on "Deep Learning in Bio-Medical Applications for IoT".

**OBJECTIVES OF THE FDP**

The key objective of the FDP isto create awareness among the teaching group and to induce active research in this area on "Deep Learning in Bio-Medical Applications for IoT".

**TOPICS COVERED**

- Biomedical image processing & Research Issues
- Biomedical Image processing employing MATLAB
- Introduction to Machine learning, Why Deep learning is necessary?
- Deep learning model selection
- Case study on Deep Learning in oncology
- Hands-on session on IoT
- Applications of IoT in healthcare
- Power-aware IoT
- Research issues in embedded system for IoT
- Security, Privacy and Trust in IoT data platforms

**RESOURCE PERSON**

Sessions will be handled by experts from various leading Academic Institutions, Industries and hospitals.

**ELIGIBILITY**

This training program is open to the Academicians, Research scholars of various disciplines who are interereted in deep learning and machine learning for biomedical applications.

**REGISTRATION**

- There is No Registration Fee.
- Register in the Google Form <https://forms.gle/yqz3qvhP9UP2eNr8>.
- Selection will be made on the First come First serve basis.
- Selected Candidates will be intimated through e-mail only.
- If selected, Candidates should attend the training program in full period.
- Tea and Lunch will be provided for the registered participant.
- TA: II class train ticket to and fro will be provided for the participants.
- Accommodation may be provided on demand for outstation candidates in the College hostels, subject to availability.
- Certificates will be issued to the participants, who attend the program.
- Participant should submit the filled-in registration form (forwarded by the Head of the Institution) to the address provided either through courier or mail, on or before 28.10.2019.
- Soft copy of the filled in Application can also be emailed to fdpechicet@gmail.com.

No. of participants are restricted to 50 members.

**Important Dates :**

- Submission of application : 28.10.19
- Intimation of selection : 30.10.19
- Confirmation by participants : 01.11.19



Photographs of Event – 2 Nos:



**HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**COIMBATORE – 641 032**  
**CENTRE FOR FACULTY DEVELOPMENT**  
**(*CFD*)**

**Date: 04.11.2019 & 17.11.2019**

**Chief Guest : Dr N S Gopi, National Institute of Technology, Trichy.**

A two weeks Faculty Development Programme on Deep Learning in Bio-Medical Applications for IoT was successfully conducted by the Centre for Faculty Development in Hindusthan College of Engineering and Technology, Coimbatore on 04<sup>th</sup> to 17<sup>th</sup> of November, 2019.



The Chief guest inaugurated the session and gave introduction to Deep learning in Bio-Medical Applications for internet of things. He told that during the acquisition of medical images, medical images in the most imaging modalities typically suffer from one or more of the challenges regarding low resolution (in the spatial and spectral domains), high level of noise, low contrast, geometric deformations etc.,

Centre for Faculty Development, Hindusthan College of Engineering and Technology, Coimbatore





Dr S Raghupathy, told the participants that However, any given model has several limitations depending on the data distribution. None of them can be entirely accurate since they are just estimations. These limitations are popularly known by the name of bias and variance.

Dr Manikandan told that resampling methods, as the name suggests, are simple techniques of rearranging data samples to inspect if the model performs well on data samples that it has not been trained on. In other words, resampling helps us understand if the model will generalize well.

Dr Bhanu asserted that IoT devices tagged with sensors are used for tracking real time location of medical equipment like wheelchairs, defibrillators, nebulizers, oxygen pumps and other monitoring equipment. Deployment of medical staff at different locations can also be analyzed real time.

Dr SK Jagdeesh Kumar reiterated that the main uses of technology in the health sector include Mobile health (applications used in detecting or preventing health issues) Health information technology (electronic medical records, electronic prescribing) Precision medicine (customised health care based on genetic information)

Dr E Mala / Siemen research Professor, PSG Institute of Technology & Applied Research, Coimbatore told the participants that the main uses of technology in the health sector include: Mobile health (applications used in detecting or preventing health issues) Health information technology (electronic medical records, electronic prescribing) Precision medicine (customised health care based on genetic information)

At the end of the second day, faculties gave their feedback and most of them found the programme very knowledgeable and informative. The Coordinator delivered the thank note and the programme came to end with National Anthem.

Centre for Faculty Development, Hindusthan College of Engineering and Technology, Coimbatore







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Centre for Faculty Development, Hindusthan College of Engineering and Technology, Coimbatore





**Hindusthan**  
**College of Engineering and Technology,**  
**Othakkalmandapam post, Coimbatore 641 032.**

**Report for Exploration on Deep Learning in Bio-Medical Informatics organized / participated**

Name of the Faculty : Dr.A.Kishore Kumar & Mr M.Mohankumar	
Department : ECE	Designation : Associate Professors
Name of the Event : National Level Seminar	
Level : International / <b>National</b> / State / Regional / Industry / University / College Level	
Venue : Kuruji Hall, Hicet	
No. of Days : 2 Days	Dates : 19 <sup>th</sup> and 20 <sup>th</sup> December 2019
Funded by : <b>AICTE</b> / UGC / CSIR / DST / DSIR / TNSCF / ICSSR / NCFRT / INSA / Management	
No. of Participants : 90	Registration charges (if any) : --
Name and Designation of Resource Person(s) :  <b>1)DR.L.JUBAIR AHAMED</b> Professor, Department of ECE Sri Eshwar College of Engineering,CBE-202  <b>2) Dr. P.VIJAYALAKSHMI</b> Professor, Department of ECE HICET, CBE-32  <b>3)Dr. M.KARPAGAM</b> Professor Department of EIE,HICET, CBE-32  <b>4) Dr. K.GEETHA</b> Professor& Dean, Department of EEE JCT College of Engineering and Technology, CBE-105  <b>5)Dr.R.SABITHA</b> Professor, Department of ECEHICET, CBE-32  <b>Dr. P. RAJESWARI</b> Professor & Head, Department of ECE, HICET, CBE-32	
Outcome : <ul style="list-style-type: none"> <li>● Identify the need for Deep Learning in Biomedical informatics</li> <li>● Identify the research opportunities in Deep Learning in Biomedicalinformatics.</li> <li>● Challenges in Deep Learning in Health informatics and possible solutions. Applications of Deep Learning in Biomedical informatics.</li> </ul>	



Remarks and Feedback on the Event :

- Good
- Informative

Plan of Implementing in HiCET (if any) : -

  
CFD Coordinator

**Dr. A.R. JAYASUDHA**  
Associate Professor / Head  
Department of Computer Applications  
Hindusthan College of Engineering and Technology  
Coimbatore - 641032.





Principal  
PRINCIPAL

Hindusthan College of Engineering & Technology  
COIMBATORE - 641 032

**HINDUSTHAN COLLEGE OF ENGINEERING  
AND TECHNOLOGY**

(An Autonomous Institution)

Approved by AICTE, Affiliated to Anna University, Chennai, Accredited by  
NBA, Accredited with 'A' Grade by NAAC, Othakkalmandapam,  
Coimbatore-32.



**DEPARTMENT OF  
ELECTRONICS AND COMMUNICATION ENGINEERING**  
*Cordially invite you for the inauguration of*



**Two-Days National level Seminar on  
EXPLORATION ON DEEP LEARNING IN  
BIOMEDICAL INFORMATICS**

**Sponsored By  
Council of Scientific and Industrial Research(CSIR)**

**Chief Guest  
Dr.L.Jubair Ahmed  
Professor-ECE  
Sri Eshwar College of Engineering, Coimbatore**

**Dr.S.Annadurai  
Advisor**

**Dr.T.Kannadasan  
Principal**

**Dr.S.J.K.Jagadeesh Kumar  
Vice-Principal**

**Dr.P.Rajeswari  
HOD/ECE**

**ALL ARE CORDIALLY INVITED  
DATE: 19<sup>th</sup> December 2019 at 10.00AM  
VENUE: PG SEMINAR HALL**

**Convenors  
Dr.A.Kishore Kumar  
Mr.M.Mohan Kumar**



Photographs of Event – 2 Nos:



Copy of the Participation/Issue Certificate:



**HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**COIMBATORE – 641 032**  
**CENTRE FOR FACULTY DEVELOPMENT**  
**(*CFD*)**

**Date: 19.11.2019 to 20.11.2019**

**Chief Guest : Dr N S Gopi, National Institute of Technology, Trichy.**

A two days Faculty Development Programme on Explorations on Deep Learning in Bio Medical Informatics was successfully conducted by the Centre for Faculty Development in Hindusthan College of Engineering and Technology, Coimbatore on 19<sup>th</sup> and 20<sup>th</sup> of December, 2019.



Dr Jubail Ahamed, inaugurated the session and delivered the opening talk. He told the Participants the need for deep learning in Biomedical Informatics.

Dr M Karpagam, Professor of Electronics and Instrumentation Engineering, spoke about the research opportunities in deep learning in BioMedical informatics. She said that Biomedical informatics uses big data and new ways of presenting it, together with traditional scientific research, to reach across medical disciplines to provide clinical insights, uncover disease, treatment and response patterns and point to new lines of scientific and medical inquiry.

Dr R Sabihta, Professor of Electronics and Communication Engineering, spoke about the challenges in deep learning in health informatics and possible solution. She told that Patient reluctance is another major challenge in implementing AI in healthcare. For example, at the beginning of the Covid-19 pandemic, patients were not comfortable with online check up.



Centre for Faculty Development, Hindusthan College of Engineering and Technology, Coimbatore





**Hindusthan**  
**College of Engineering and Technology,**  
**Othakkalmandapam post, Coimbatore 641 032.**

**Report for Home Automation and Smart Security using Internet of Things organized / participated**

Name of the Faculty : Mr M. Mohankumar & Mr. J. Satheesh Kumar	
Department : ECE	Designation : Associate Professor
Name of the Event : NATIONAL LEVEL SEMINAR	
Level : International / <b>National</b> / State / Regional / Industry / University / College Level	
Venue : CSE Seminar Hall, HICET	
No. of Days : 2 Days	Dates : 9/01/2020 TO 10/01/2020
Funded by : <b>AICTE</b> / UGC / CSIR / DST / DSIR / TNSCST / ICSSR / NCERT / INSA / Management	
No. of Participants : 90	Registration charges (if any) : --
Name and Designation of Resource Person(s) :	
1) <b>Dr. C. Arvind, Professor</b> , Department of ECE, Karpagam College of Engineering, Coimbatore.	
2) <b>Dr.K.Kalaiselvi, Associate Professor</b> , Department of ECE, HICET	
3) <b>Dr.A.Kishorekumar, Associate Professor</b> Department of ECE, HICET	
4) <b>Dr.R.Sabitha Professor</b> , Department of ECE, HICET	
5) <b>Dr.P.Vijayalakshmi, Professor</b> , Department of ECE, HICET	
6) <b>Mr.P.Suresh Kumar, Assistant Professor</b> , Department of ECE, HICET	
Outcome :	
<ul style="list-style-type: none"> <li>• Evolution of the IoT, Application and concepts.</li> <li>• IoT Overview, Prospects &amp; challenges in Automation Industries.</li> <li>• Home Automation and security issues in IoT.</li> <li>• Applications of IoT in Healthcare Applications.</li> </ul>	
Remarks and Feedback on the Event :	
<ul style="list-style-type: none"> <li>• Good</li> <li>• Informative</li> </ul>	
Plan of Implementing in HICET (if any) : -	
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">               CED Coordinator         </div> <div style="text-align: center;">               Principal         </div> </div>	



**Dr. A.R. JAYASUDHA**  
 Associate Professor / Head  
 Department of Computer Applications  
 Hindusthan College of Engineering and Technology  
 Coimbatore - 641032.

**PRINCIPAL**  
 Hindusthan College of Engineering & Technology  
**COIMBATORE - 641 032**  
 Page 1 of 3



Copy of the Event Brochure / Invitation:

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Coimbatore-32.



DEPARTMENT OF  
ELECTRONICS AND COMMUNICATION ENGINEERING  
*Cordially invite you for the inauguration of*



Two-Days National level Seminar on

**HOME AUTOMATION AND SMART SECURITY  
USING INTERNET OF THINGS**

Sponsored By

Council of Scientific and Industrial Research (CSIR)

Chief Guest

Dr. C. Arvind,  
Professor,

Karpagam College of Engineering, Coimbatore

Dr.S.Annadurai  
Advisor

Dr.T.Kannadasan  
Principal

Dr.S.J.K.Jagadeesh Kumar  
Vice-Principal

Dr.P.Rajeswari  
HOD/ECE

*ALL ARE CORDIALLY INVITED*

DATE: 9<sup>th</sup> January 2020 at 10.00AM

VENUE: CSE SEMINAR HALL

Conveners

Mr.M.Mohan Kumar  
Mr.J.Satheesh Kumar



Photographs of Event – 2 Nos:





**Hindusthan**  
**College of Engineering and Technology,**  
**Coimbatore 641 032.**

**CENTRE FOR FACULTY DEVELOPMENT**  
**(CFD)**

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**DATE: 9<sup>th</sup> January 2020 at 10.00AM**

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Conveners

Mr.M.Mohan Kumar  
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**HINDUSTHAN COLLEGE OF ENGINEERING AND  
TECHNOLOGY**  
**COIMBATORE – 641 032**  
**CENTRE FOR FACULTY DEVELOPMENT**  
**(CFD)**

**Date: 09.01.2020 & 10.01.2020**

**Chief Guest : Dr C Aravind, Karpagam College of Engineering , Coimbatore.**

A two days Faculty Development Programme on Home Automation and Smart Security using Internet of Things was successfully conducted by the Centre for Faculty Development in Hindusthan College of Engineering and Technology, Coimbatore on 09<sup>th</sup> and 10<sup>th</sup> of January, 2020.



Dr C Arvind, addressed the gathering after inauguration. He spoke about Evolution of Internet of Things applications and concepts.

He gave examples of home automation such as Home Security - The key driver behind smart and secure homes is IoT

Activity Trackers - Smart home security cameras provide alerts and peace of mind

Industrial Security and Safety, Augmented Reality Glasses.

Dr A Kishorekumar, Associate Professor gave IoT Overview, Prospects and Challenges in automation Industries. He said that a lack of common software interfaces, standard data formats, and common connectivity protocols are complicating things in IoT-land. For industries, this means that 40% of the total economic value of the Industrial IoT will remain locked because different systems cannot work together.



Centre for Faculty Development, Hindusthan College of Engineering and Technology, Coimbatore



Mr P Suresh Kumar, Assistant Professor of Department of ECE, Home automation and security issues in IoT. He said that Insecure IoT devices generate data and provide cyber attackers with ample space to target personal information. This could potentially end up in identity theft and fraudulent transactions.

