



ADHIYAMAAN
COLLEGE OF ENGINEERING
AUTONOMOUS

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**DEPARTMENT OF INFORMATION
TECHNOLOGY**

DEPARTMENT OF INFORMATION TECHNOLOGY

DEPARTMENT AT GLANCE

The Department of Information Technology has been an active and effective part of Adhiyamaan Educational Research Institutions (AERI) for more than a decade. Right from its inception of the year 2001, the department has been offering well - built infrastructural facilities with different computer platforms for grooming professional students to meet the incessant demands of the IT Industries. The Department strives to produce eminent professional tuned to the real time working environment. The department has vibrant and dynamic community of faculty and students and their varied achievements has made the department one of the best in the campus. The faculty team takes creative and committed measures to bring passion, enthusiasm to create quality professionals. The department provides best infrastructure and educational resources for students.

The curriculum is well defined to cater to the needs of both society and industry. The learner during their four-year under graduate course would gain a comprehensive and extensive understanding of the various nuances of Information Technology. Apart from curriculum, various programmes are organized to deepen the students' understanding of various IT relevant concepts, and also courses aimed at kindling the students' independent thinking and creativity in relevance with the discipline. The Students are closely assisted by the faculty.

The Department has faculty members specialized in Wireless Networks, Data mining, Soft Computing, Network Security, Cyber Security, Big Data Analytics, Image Processing, Cloud Computing and Mobile Computing. The Department takes pride in the large number of faculty engaged in research activities.

The Department is committed to build young professionals with a strong sense of intellectual curiosity, leadership skills, ethics and integrity, as they enter the workforce. The Department conducts a continuous and rigorous placement development programme that shapes every learner to be an employable and industry ready individual at the end of four years. At present the department holds a phenomenal placement record of more than 80%.

BEST PRACTICES

1. Outcome Based Education (OBE) and Rigorous learner-centric teaching helped in improving the evaluation of teaching learning process.
2. Classroom teaching is based on a lesson plan formulated at the beginning of a semester.
3. Teaching as per lesson plan interspersed with three assessment exams helps to continuously monitor learning outcomes
4. Computer assisted E learning is practiced for teaching, which enables to cover the syllabus in time, the virtual models can be demonstrated and animations of processes which are difficult to explain with blackboard and chalk
5. Assignments on current trends for learning of latest techniques and effective understanding of theory are given to the students
6. Seminars/Webinars in content beyond syllabus & Hands on experience workshops are conducted
7. Students are encouraged to undergo in-plant training and internships during their semester vacations.
8. Personality development training programs are conducted in third and final year so as to equip them for placement.
9. Guidance is given for competitive exams such as GATE, GRE, etc.
10. Consistent mentoring of the students and tracking slow learners and involving in parents' meetings
11. Value added courses/frequent guest lectures/invited talks by the practitioners are arranged to give more exposure on real time challenges and industrial practices.

SALIENT FEATURES

- Dedicated and well-qualified faculty.
- Spacious class rooms with projector.
- Well Equipped Laboratories with the state of art IT infrastructure
- Air-conditioned seminar hall and library.
- 1000 Mbps lease line internet connectivity
- Tutor -ward system for regular interaction with students to address their difficulties
- Students are encouraged to participate in activities like paper presentation, technical quiz, software debugging, sports, NSS and cultural activities.

DEPARTMENT VISION

To become a globally recognized centre of excellence in the field of Information Technology, providing technology excellence that advances learning, teaching, research to produce budding IT professionals, researchers, innovators and entrepreneurs

DEPARTMENT MISSION

M1: To produce competent IT professionals with the potential of Programming and Problem solving skills.

M2: To facilitate the students to work with modern tools, inventive technologies and innovative research capabilities.

M3: To build leadership abilities by inculcating the spirit of ethical values.

PEOS

- I. Our graduates will be able to analyze and solve computing problems by applying the principles of Mathematics, Science, Information Technology and Engineering.
- II. Our graduates will be globally competent to use recent Information Technologies to design quality Software systems that are economically feasible and socially acceptable through their innovations.
- III. Our graduate will excel in their career or higher education by acquiring communication and Interpersonal skills to work in team effectively and ethically by engaging in life-long learning.

POS

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PSOs

1. Professional Skills: Ability to identify, analyze, design, develop, test and manage complex software and information management systems.
2. Web Designing Skills: Possess knowledge on software design process using open ended programming and use the web designing skill to e skills to establish IT enable solutions for the societal needs.
3. Successful Career and Entrepreneurship: Capable of adapting to new technologies and constantly upgrade the skills with an attitude towards lifelong learning.

MESSAGE FROM HOD DESK

I am happy to inform that our pride rests in the yearly newsletter – TECHQUEST 2021-2022 which Highlights the academic and non-academic activities of both faculty and students of the department. Computer is an essence of today's world, and we strive to bring out the hidden talents from our students and also make them ready to face the outside world.



Dr. THILAGAVATHY M.E., Ph.D.,
PROFESSOR & HEAD
DEPARTMENT OF INFORMATION TECHNOLOGY
ADHIYAMAAN COLLEGE OF ENGINEERING

MESSAGE FROM EDITOR

On behalf of the Information Technology department at Adhiyamaan College, it is with great pleasure that we present this newsletter, spotlighting the latest developments and remarkable accomplishments of both our students and faculty. We trust that this newsletter will offer you valuable insights into the remarkable achievements of our IT department members.



Mr.R.REGIN M.E., (Ph.D)

ASSISTANT PROFESSOR

DEPARTMENT OF INFORMATION TECHNOLOGY


ADHIYAMAAN COLLEGE OF ENGINEERING

SEMINAR/WEBINAR

A number of seminars and workshops from various Industrial Experts in the field were organized by our IT department for in-depth understanding of the recent trends.

S. No	Event Photo	Name of the Event	Date	Resource Person and Organization
1		NS-3 Network Simulator	27.05.2020	Dr.K.Kumar, Associate Professor/CSE Govt. College of Tech Coimbatore.
2		Block Chain Technology – Everything You Need To Know	28.5.2020	Mr.G.Vivek, Content Creator, Nextazy Sol.Pvt Ltd.
3		Web Development using Magento	29.5.2020	Mr Yuvaraj &MS Punitha,Weboware Technology, Bangalore
4		Artificial Intelligence for Employee Attribution	29.5.2020	Mr.Naveen Kumar Assistant Professor, Sona College of Tech,Salem.

S.No	Event Photo	Name of the Event	Date	Resource Person and Organization
5		Webinar on “Deep Learning and its Algorithms”	01.06.2020	Mr.A.Naveenkumar, Junior Research Fellow/IT, Sona College of Technology, Salem
6		Webinar on “R from data science perspective”	03.06.2020	Ms.Anirudha Selvarajan, Data Scientist.
7		Webinar on “Data Analytics Engineering And Science”	04.06.2020	Ms.Sneha Baskaran, Data Scientist , Indium Software.
8		Webinar on “API & Web Services Boot Camp”	5.6.2020	Mr.J.Venkatesh, Assistant System Engineer , TCS-Chennai.
9		Webinar on “Data Warehousing and Bi in Real World”	06.06.2020	Mr.Kathiravan BI Developer , Zeneca India

S.No	Event Photo	Name of the Event	Date	Resource Person and Organization
10		Webinar on “Monga DB & Its Curd Operation”	06.06.2020	Mr.Vasantha Kumar, Associate Consultant, Infosys.
11		Webinar on “Deep Learning and its Application”	10.06.2020	Dr Vanitha, HOD/CSE , E.G.S Pillai College, Nagapattinam.
12		Webinar on “Digital Collaboration Tools Of Vuca World”	14.07.2020	Mr.K.C.Rohit , DWBI Consultant
13		Webinar on “Connect Anything & Anywhere With IBM Integration Bus”	27.7.2020	Dr.P.Srinivasa babu , IT Manager Sherwin Willam Company.

FACULTY ACHIEVEMENTS

JOURNAL PUBLICATIONS

Our faculty's research publications are the cornerstone of our academic excellence, advancing knowledge and shaping the future of IT education.

1. Dr.D.Thilagavathy(Apr 2021), “Deduplication for Confidential Data using Cloud storage With Public Cloud Auditing”, International Research journal of Engineering and technology (IRJET)
Vol. 8 Issue 4 pp.3032-3034
2. Dr.D.Thilagavathy(Apr 2021), “Deduplication for Confidential Data using Cloud storage With Public Cloud Auditing”, International Research journal of Engineering and technology (IRJET)
Vol. 11 Issue 4 pp.310-319
3. S Sivanantham, SR Dhinagar, P Kawin, J Amarnath(Aug 2020),” Hybrid Approach Using Machine Learning Techniques in Credit Card Fraud Detection” , Advances in Smart System Technologies,Publisher Springer-Singapore,pp 243-251
4. S Sivanantham, (Apr 2021 Predicting Flight Arrival and Departure Time With Error Calculation Using Machine learning” , International journal of Innovative research in technology, pp Vol. 7 Issue 11
5. S.SathishKumar,A.Prathap,T.Rajadurai,M.Raviputhra,M.Sathish(Aug2020),“PENIOT-netration Testing Tool for Internet of Things”,International journal of Science and Engineering Research,ISSN: 3221-5687,Vol.8,Issue.8,pp
6. Sathishkumar S, Devi Priya R, Karthika K (Jan 2021),” Big Data Analytics in Cloud Platform “ Book Chapter Challenges and Opportunities for the Convergence of IoT, Big Data, and Cloud Computing,Vol.10,pp
7. Sathishkumar “Location tracking and health Monitoring System for Solidier’s Using Internet of Things (IOT)”, International Research journal of Engineering and technology (IRJET), Apr 2021 Vol 8 Issue 4 Pp1695-1699

8. Karthika K, Devi Priya R, Sathishkumar S (Jan 2021),” Big Data Issues: Gathering, Governance, GDPR, Security, and Privacy”,Book Chapter Challenges and Opportunities for the Convergence of IoT, Big Data, and Cloud Computing,Vol 8.pp-1-9.
9. K. Karthika,M.Agilan,R.Vignesh,R.Vinith Priyan(July 2020),”Analyse and Detection of Diabetic Retinopathy using image processing and Machine Learning”, International Journal of Scientific Research in Engineering and Management,ISSN:2582-3930,Vol.04,Issue.07,pp-1-6.
10. K. Karthika,S.Jagadesan,S,Jagan,N.K.Madhinilavan,K.Naveen Kumar(Aug 2020),”Enabling Authorized Encrypted Search for Secure Cloud Computing”, International Journal of Scientific Research in Engineering and Management, ISSN:2582-3930,Vol.04,Issue.08,pp-1-7.
11. R.Regin (June 2020), “A novel clustering technique to stop congestion occur vehicular ad-hoc networks using node density based on received signal strength”, Peer-to-Peer Networking and Applications , Springer,ISSN:2582-3930,Vol.4,Issue.08,pp-1-6
12. R.Regin (Aug 2020), “Aggressive Forward infinite Dimensional Entangled State Pair with Reputation Based Weighted Hub Selection To packet Loss Avoidance”, International Journal of intelligence and Sustainable Computing, ISSN: 2582-3930, Vol.4, Issue.08, pp-1-6

STUDENT ACHIEVEMENTS

Our students enthusiastically engaged in a variety of co-curricular activities and received certificates.

S. No	Name of the Student	Name of the Symposium / Workshop / Conference	Date of Publication / participation	Organized by	Awards
1	S. Kiruba	Webinar on Process Handling in OS	27/05/2021	Bharath Institute of Higher Education and Research, Chennai	Participated
2	V. Mercy	Webinar on Career Opportunities for Electronics Engineering	19/06/2020	ACE	Participated
3	U.Akshya	Webinar on Career Opportunities for Electronics Engineering	19/06/2020	ACE	Participated
4	K.Janani	Webinar on Career Opportunities for Electronics Engineering	19/06/2020	ACE	Participated
5	G.Ramya	Webinar on Career Opportunities for Electronics Engineering	19/06/2020	ACE	Participated
6	G.Kavya	Webinar on Career Opportunities for Electronics Engineering	19/06/2020	ACE	Participated
7	V. Mercy	Webinar on Defence Service after Engineering	16/06/2020	ACE	Participated
8	K.Janani	Webinar on Defence Service after Engineering	16/06/2020	ACE	Participated
9	V. Sangeeth Dhanapal	Webinar on Health Awareness and Immunity building	13/06/2020	ACE	Participated
10	V.Mercy	Webinar on Health Awareness and Immunity building	13/06/2020	ACE	Participated

S. No	Name of the Student	Name of the Symposium / Workshop / Conference	Date of Publication / participation	Organized by	Awards
11	K.Janani	Webinar on Health Awareness and Immunity building	13/06/2020	ACE	Participated
12	G. Kavya	Webinar on Health Awareness and Immunity building	13/06/2020	ACE	Participated
13	G.Kavya	Webinar on Data warehousing and BI in real world	06/06/2020	ACE	Participated
14	F.Neha Tabbassum	Webinar on Data warehousing and BI in real world	06/06/2020	ACE	Participated
15	V. Sangeeth Dhanapal	Webinar on Data warehousing and BI in real world	06/06/2020	ACE	Participated
16	K.Janani	Webinar on Data warehousing and BI in real world	06/06/2020	ACE	Participated
17	K.Janani	Webinar on Robotics process automation	06/06/2020	Jerusalem College of Engineering, Chennai	Participated
18	K.Janani	Webinar on API and web service bootcamp	05/06/2020	ACE	Participated
19	G.Kavya	Webinar on Data Analytics, Engineering and science	04/06/2020	ACE	Participated
20	G.Ramya	Webinar on Data Analytics, Engineering and science	04/06/2020	ACE	Participated

S. No	Name of the Student	Name of the Symposium / Workshop / Conference	Date of Publication / participation	Organized by	Awards
21	K.Janani	Webinar on Data Analytics, Engineering and science	04/06/2020	ACE	Participated
22	K.Janani	Webinar on R from data science perspective	03/06/2020	ACE	Participated
23	G.Kavya	Webinar on R from data science perspective	03/06/2020	ACE	Participated
24	V. Mercy	Webinar on R from data science perspective	03/06/2020	ACE	Participated
25	U.Akshya	Webinar on R from data science perspective	03/06/2020	ACE	Participated
26	K.Janani	Webinar on Deep Learning and its Algorithms	01/06/2020	ACE	Participated
27	K.Janani	Webinar on Web development	29/05/2020	ACE	Participated
28	Ramya Gajendran	Webinar on Web development	29/05/2020	ACE	Participated
29	G.Kavya	Webinar on NS3 Network Simulator	27/05/2020	ACE	Participated
30	U.Akshya	Webinar on NS3 Network Simulator	27/05/2020	ACE	Participated