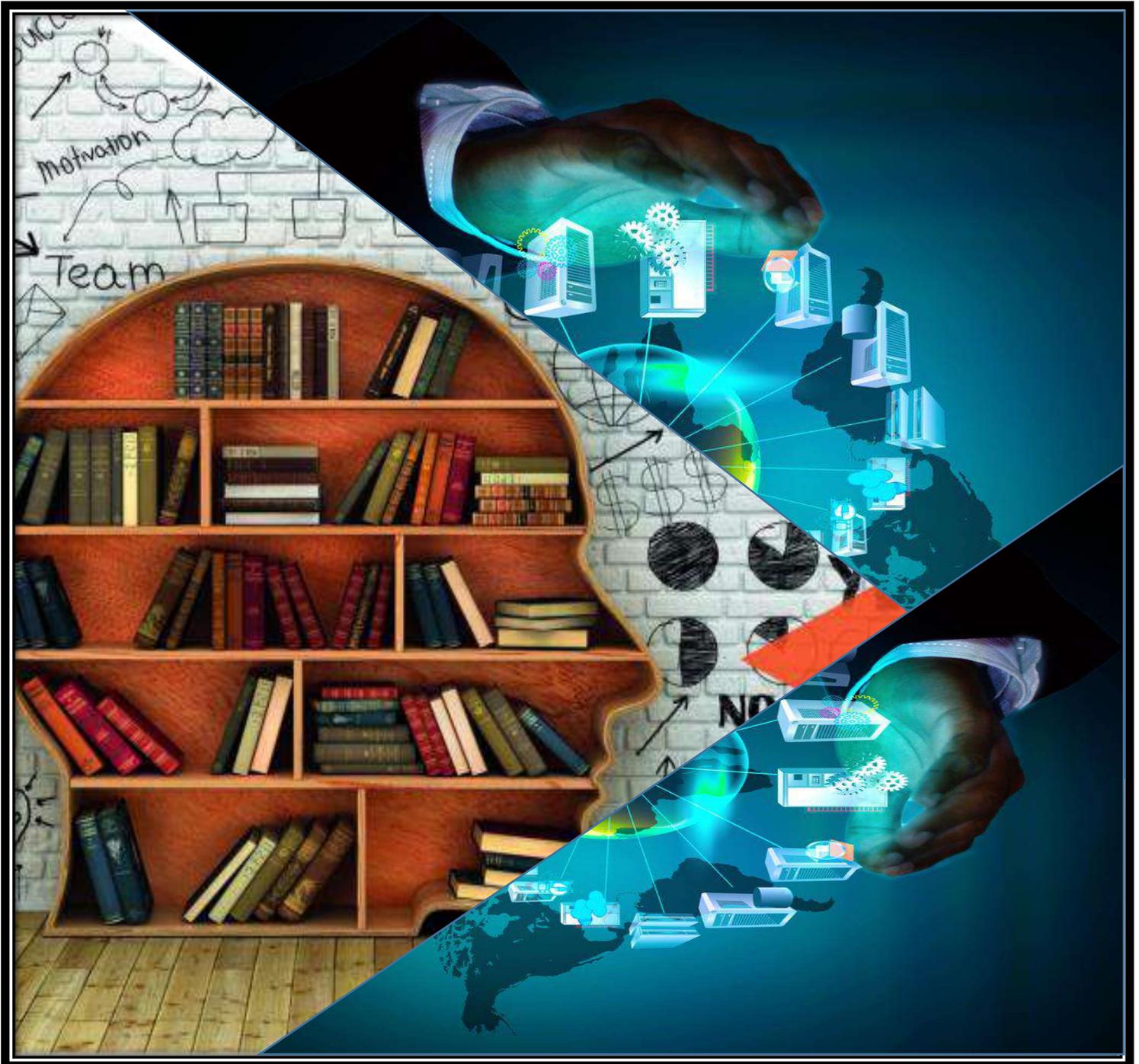


INFOSPARK

VOLUME 1, ISSUE 1, JULY - DEC - 2019

Departmental Newsletter

Department of Information Science and Engineering



A.J. Institute of Engineering & Technology

(A Unit of Laxmi Memorial Educational Trust ®)

(Approved by AICTE, New Delhi, Affiliated to Visvesaraya Technological University, Belagavi)

CHIEF PATRONS



Dr. A. J. Shetty
President



Mrs. Sharada J. Shetty
Director



Mr. Prashanth Shetty
Vice President



Mrs. Ashritha P Shetty
Director



Dr. Prashanth Marla K.
Director



Dr. Amitha P Marla
Director



Mr. Ranga B Shetty
Director



Mrs. Vinutha R Shetty
Director

PATRONS



Dr. Shantharama Rai C
Principal



Dr. Nagesh H R
Vice Principal

Department of Information Science and Engineering

ABOUT THE DEPARTMENT

Department of Information Science and Engineering was established in the year 2016 with the establishment of AJIET, Mangaluru. The department is offering bachelor of engineering programme in Information Science & Engineering with an intake of 60 with excellent infrastructure. The department has well-qualified dedicated teaching and non-teaching staff with well-equipped laboratories to fulfil the academic needs of the students.

The major goal of the department is to produce highly knowledgeable, competent and resourceful young engineers who can excel in their respective profession.

HOD's Message



Department of Information Science and Engineering has made tremendous progress in all areas of academic, non-academic, placement. It has taken every step to empower the students with necessary knowledge, skill and the attitude. The associations, clubs and study groups have promoted the interest and engagement of students as well as faculties. Students have shown noticeable achievements in academics, co-curricular activities and extra-curricular activities.

The "InfoSpark" Department newsletter highlights the activities and achievements of the Department in the last academic year 2019-20. I am sure that readers will be delighted to know the achievements of the Department.

EDITORS TEAM

Chief Editor

*Dr. Nagesh H R
Professor & Head
Editor*

*Mrs. Sharanya P S
Assistant Professor*



Technology, like art, is a soaring exercise of the human imagination.



DEPARTMENT VISION

To be a center of excellence in Information Science & Engineering education, research and training to meet the growing needs of the industry and society.



DEPARTMENT MISSION

To impart theoretical and practical knowledge through the concepts and technologies in Information Science and Engineering. To foster research, collaboration and higher education with premier institutions and industries. Promote innovation and entrepreneurship to fulfill the needs of the society and industry.

PROGRAM EDUCATION OUTCOMES

PEO1: Analyse, design and implement solutions to the real-world problems in the field of Information Science and Engineering with multidisciplinary setup.

PEO2: Keep abreast with the technology, innovation and pursue higher education with high standards of social and professional ethics

PEO3: Develop professional and entrepreneurship skills to work effectively as an individual and in a team to meet the ever-changing goals of the organization

PROGRAM SPECIFIC OUTCOMES (PSO's)

PSO1: Design, implement and maintain the information systems that fulfill the current needs of the industry and society

PSO2: Apply computational theory, storage and networking concepts to solve the day to day problems of the world

PROGRAM OUTCOMES (PO's)

Engineering knowledge : Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

Problem Analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural science and engineering sciences.

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.

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.

Modern tool usage: Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations

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

Environment sustainability: Understand the impact of the professional engineering solutions in the societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

Individual and team work: Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.

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

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.

Lifelong learning: recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broader context of technological change.

BRANCH INAUGURAL CEREMONY

ENIGMA, A student association Dept. Of CSE and ISE

The Dept. Of ISE and CSE jointly conducted branch inaugural ceremony of ENIGMA, the student association on 7th August 2019 at 2:00 PM in Seminar hall-3.

Mr Abhijith Shetty, Vice President Delivery, Juego Studio Private Limited, Bangalore, Miami, London, Jeddah, Dubai was chief guest of the function. For the formal function the resource persons along with Principal Dr Shantharama Rai C, HOD of CSE, Dr Antony, HOD of ISE, Dr Nagesh HR, staff co-ordinators Mr Nithin K Heraje, Mr Gurudev S along with president of Enigma Mr Chiranthan were seated on the dais.

The list of activities conducted by Enigma Association in the year 2018-19 and the activities to be conducted in the year 2019-20 was summarized. The Academic Toppers and achievers from ISE dept. were felicitated by the guest of honor Mr Abhijith Shetty and Principal Dr Shantharam Rai C. Mr Abhijith Shetty, he addressed the gathering and encouraged the students with his words. Followed Principal and HOD's addressed the students and encouraged to utilize the ENIGMA platform in a best manner. As a part of informal function dances, singing and games were conducted.



TECHNICAL TALK On

TOPIC: Future of IOT And Data Analytics for Indian Scenario

The Dept. Of ISE conducted Technical talk on “Future of IOT and Data Analytics for Indian Scenario” by ENIGMA student association on 3rd September, 2019 in Seminar Hall-1.

Dr. Kavitha Sooda, Associate Professor, Dept. of CSE, B.M.S. College of Engineering, Bangalore, gave an invited talk on ‘Future of IoT and Data Analytics for Indian Scenario’ to the students of CSE & ISE. In her 2 hours of talk, she shared her research knowledge on how the Indian IOT scenario research is going on, Identifying the stakeholders of IOT in India ,

Some case studies on Academic research projects of IOT ,IOT applications & its challenges in Indian Agriculture. She also shared her views about smart-farming & Future of IOT in Indian Agriculture. Technical talk gave a lot of insight to the students of CSE and ISE. They were educated about becoming better smart engineers for the betterment of the society through IOT. Along with Principal Dr. Shantharama Rai C, HOD of CSE, Dr Antony, HOD of ISE, Dr. Nagesh HR & All HOD’s and staff members of different departments were present for the talk.



WORKSHOP ON JAVA APPLICATION DEVELOPMENT

Resource Person: Faculties of ISE and CSE Dept, AJIET

The Departments of Computer Science and Information Science and Engineering jointly organized a 3 day hands on workshop on “Java Application Development” on 23rd, 24th , and 26th September 2019.

The inaugural function of the workshop was held on 23rd September at 9.00 am in Seminar Hall 1. Dr. Shantharama Rai C, Principal-AJIET, Dr. Nagesh H R HOD of ISE and Dr. Antony PJ HOD of CSE along with staff and participants of the workshop were present during the inaugural function. The faculties of ISE and CSE dept namely, Mrs. Shilpa Shetty, Mrs. Sharanya P S, Mrs. Sharon C DSouza, Mr. Nithin Heraje , Mr. Pradeep Kumar , Mrs. Aparna Shetty were the resource persons for the workshop.

The hands-on session covering installation of java jdk and setting environment variables, control statements, object class of java, programming sessions on java inheritance, polymorphism, encapsulation, abstraction, Applet programming, exception handling, collections and building a simple java application.

The valedictory session was held on 26th September at 4.15 PM in Web Technology laboratory. Dr.Nagesh H R, HOD - ISE addressed the gathering and spoke on the initiatives needed to excel in IT industry, Mr. Basappa Kodada, Assistant Professor - CSE spoke on the importance of staying tuned to the recent advancement in IT technologies.



WORKSHOP ON ANDROID APPLICATION DEVELOPMENT

Resource Person: Mr. Chetan S P

The Departments of Computer Science and Information Science and Engineering jointly organized a 3 day hands on workshop on “Android Application Development” on 23rd, 24th , and 26th September 2019.

Mr. Chetan S P, Team Leader at Lemonaid Software Technologies Pvt Ltd was the resource person. The inaugural function of the workshop was held on 23rd September at 9.00 am in Seminar Hall 1. Dr. Shantharama Rai C, Principal-AJIET, Dr. Nagesh H R HOD of ISE and Dr. Antony PJ HOD of CSE along with staff and participants of the workshop were present during the inaugural function.

The hands-on session started with day 1 covering various Mobile Apps development frameworks, installation of the Android Machine on individual workstation by the participants, and creating the first android application. Day 2 had sessions on building UI, advanced UI, different styles and themes in android. Day 3 had sessions on data storage, multimedia, sensors, telephony, and camera related programming.



HANDS-ON WORKSHOP ON MACHINE LEARNING

Resource Person: Mr. Sachin Kumar S and Mr. Vaishnav

The department of ISE organized a three-day hands-on workshop on machine learning. The workshop was conducted from 16th to 18th September 2019. Mr. Sachin Kumar S and Mr Vaishnav, Data Science Consultants from Konzepts Data Innovation Labs Pvt Ltd, Thiruvananthapuram were the resource persons.

The inaugural function of workshop held on 16th September 2019. Mr. Sachin Kumar S, in his inaugural address, highlighted the opportunities in IT industry, need of learning and implementing machine learning algorithms.

In first session, scopes of Machine learning in IT industry and in government sectors are elaborated. The second session started with hands-on session, the weka tool was introduced to the learners.

On second and third day various algorithms are discussed in machine learning and implemented some algorithms using jupyter notebook tool.



TALK ON HOW TO USE NPTEL ONLINE RESOURCES

Resource Person: Faculty of ISE, AJIET Mangalore

A Talk & Demo on “How to Use NPTEL online ” was organized by Department of IS&E in Class Room - 207, from 03:00 PM to 5:00 PM. Conducted by Mr. Gurudev S Hiremath, Asst Prof, ISE Dept AJIET Manglore

This Activity was done with respect to preparing Students for current Industry expectations. In his session the information regarding NPTEL online course, GATE PREPARATION, NPTEL Industry Associate & NPTEL Internship were given.



- ✚ An average person normally blinks 20 times a minute, but when using a computer, he/she blinks only 7 times a minute.
- ✚ A 50 PB hard drive could hold the entire written works of mankind, from the beginning of recorded history, in all languages.
- ✚ The QWERTY keyboard was originally designed to slow you down -on a typical work day, a typists' fingers will “travel” about 12.6 miles.
- ✚ CAPTCHA- “Completely Automatic Public Turning Test to Tell Computers and Humans Apart”



WORKSHOP ON VIRTUAL LABS

Resource Person: *Faculties of ISE, AJIET Mangalore*

A workshop on Virtual labs at AJIET Mangaluru is organized for the first semester students Information Science Engineering (D section) of AJ Institute of Engineering and Technology on 09-12-2019 by Mr Rakesh M R, Asst. Prof ISE Dept and Mr John Prakash Veigas Asst. Prof ISE Dept.

Total 59 student members are participated in this event. Resource persons given hands-on demonstration of the virtual lab. The following experiments are demonstrated in the lab: Introduction on VLabs, V-Lab simulation, computer programming lab, Basic Electronics Lab



The first Apple logo isn't what you would think !!!



Delivery drones start making deliveries in the next two years.

Congratulations to Class Toppers



Mr Athish Rai
SEM:6
SGPA:8.04



Ms. Shreya Ganesh Shetty
SEM:6
SGPA:7.88



Ms Yajna J
SEM:4
SGPA:8.59



Archana Rashmi
SEM:4
SGPA:8.15



PAVITHRA
SEM:2
SGPA:9.2



ZUBAIDA SHAIMA
SEM:2
SGPA:9.1



PAVITHRA KARANTH
SEM:2
SGPA:9.1

Activate Windows
Go to Settings to activate

DOMAIN GROUPS IN THE DEPARTMENT

Domain Name	Domain Co-Ordinator	Domain Members
Computer Hardware and Networking	Dr Nagesh H R	Mr Rakesh M R, Ms Sushma
Data Storage and Processing	Mr John Prakash Veigas	Mr Gurudev Shastri H, Mrs Bincy Joseph
Computational Theory and Programming	Mr Gurudev Shastri H	Mrs Shilpa Shetty, Mr John Prakash
Software System Design	Mrs Vinitha Pais	Mrs Sharanya P S, Ms Sushma
Allied Engineering and Management	Mrs Shilpa Shetty	Mrs Vinitha Pais, Mrs Bincy Joseph

FACULTY PUBLICATION DETAILS

Faculty Name	Journal		Conference	
	National	International	National	International
Dr. Nagesh H.R	1	20	14	33
Mr. John P Veigas		9	1	4
Mr.Rakesh M R		10	1	
Mr. Gurudeva Shastri Hiremath			5	
Mrs. Sharanya P S		4	1	2
Mrs. Bincy Joseph		2		
Mrs.Shilpa Shetty		1		
Mrs. vineetha Pais		4	1	
Ms. Sushma	1	1		1

FACULTY ACHIEVEMENTS

SI No	Faculty Name	Interaction with outside world
1	Dr. Nagesh H. R	<ul style="list-style-type: none"> Participated as Judge for Jnanasangama-2019, A National Level student conference on 11th May 2019 organized by vivekananda college of Engineering and Technology, Puttur. Participated as External Judge for the track Big Data Analytics and Technology in International Conference on Advanced IT Engineering and Management Organized by AIMIT in association with Computer Society of India(CSI), Indian Society for Technical Education(ISTE), Iconic IT Professional Societ (IIPS), ICT Academy & Wadhvani Foundation International on 15th 16th November 2018 at AIMIT Campus Beerli Mangalore. Delivered a technical talk on “Security Issues in Wireless Sensor Networks: Current Research and Challenges”, organized by KVGCE, Sullia on 02.11.2018 Participated as Cheif Guest and Inaugurated “Pre- Placement Skill Enhancement Workshop” on 22nd October 2018 at AJIM Mangalore. Delivered a talk on “Future Trends in Data, Communication, Networking & Security” in VISTA Technical week 22nd -27th October 2018, organized by NMAMIT, Nitte on 24.10.2018.
2	Mr. John Prakash Veigas	<ul style="list-style-type: none"> Has Participated in 7-days FDP-SI during 18 -24 June 2019 at Sahyadri College of Engineering and Maagement, Mangaluru Organized by AICTE. Has Participated in 3-days FDP-SI during 14 -16 May 2019 at MITE Mangaluru Organized by AICTE.
3	Mrs. Vineetha Pais	<ul style="list-style-type: none"> Participated in Seven days workshop on " Mchine Learning and its application" at NMAMIT,Nitte. From 23rd to 28 th jan 2017
4	Mr Gurudev S H	<ul style="list-style-type: none"> Participated in 3-days National Level Research Workshop held from 23rd-25th January 2019, Organized by SJB Institute of Technology Bangalore.
5	Mrs. Shilpa Shetty	<ul style="list-style-type: none"> Participated in three day workshop on “Cloud Computing using Windows Azure at Infosys Limited, Mangalore
9	Mr. Rakesh M R	<ul style="list-style-type: none"> Participated in two days faculty development program on universal human values at A J institute of engineering and technology from 26 and 27 July 2018 Participated in workshop on virtual lab at NITK surathkal on 11/10/2019
10	Mrs. Bincy Joseph	<ul style="list-style-type: none"> Participated in faculty development program on “Big Data” at St. Joseph’s Engineering College, Mangalore from 17th to 19th January 2019
11	Mrs. Sharanya P S	<ul style="list-style-type: none"> Completed AICTE-NPTEL organized 12 weeks Online Certification Course on “Software Engineering” from July-Oct 2018. Participated in 5 days Faculty Enablement Program (FEP) on “Internet of Things at Infosys Campus Connect at NMAM Institute of Technology, Nitte
12	Ms. Sushma	<ul style="list-style-type: none"> Participated in 3- Days FDP on :Big Data” held from 17TH – 19TH January 2019 at St. Joseph Engineering College, Mangalore

STUDENTS ACHIEVEMENTS

Sem	Student Name	Event	Prizes
6th	Deepthi Vibha	Debate Competitopn at Srinivas college of engineering	2nd place
4th	Chandan S Gunaga	Science exhibition state level	1st prize
4th	Chandan S Gunaga	Science exhibition national level	National wipro award
4th	Chandan S Gunaga	quize tv program that(chandan channel)	state level, 3rd prize
4th	Chandan S Gunaga	cubiz cube, CEC fest	2nd prize
4th	Ramya	Essay writing, District level	2nd prize
4th	Ramya	Science exhibition District level	3rd prize
4th	Ramya	Rangoli District level	3rd prize
4th	Meghashree	govindas college, Face painting	1st prize
4th	Chaithra	dance, gurupura	2nd prize
4th	Dhanush Shetty	Karate, Inter state	1st prize
4th	Meghashree	Rangoli, St aloysius	3rd prize
4th	Megha Jose	Quiz, International Level	Participated
4th	Krithi	Solo singing, Sub district	1st prize
4th	Shreedevi	Banttara sanga, Skit	1st prize
4th	Shreedevi	Banttara sanga, dance	2nd prize
4th	Reshma	Esaay and speech, District level	1st prize
4th	Pratheeksha shetty	yoga, District level	1st prize
4th	Prajna	social science	2nd prize
4th	Nihal C	Chess	3rd prize
4th	Pavithra	Folk dance, State level	2nd prize
4th	Chaithra	dance, gurupura	1st prize
4th	Chaithra	Monoacting SM Kushe	1st prize

EXAMINATION RESULTUS

EVEN & ODD SEMESTER EXAMINATION RESULTS - ACADEMIC YEAR 2018-19

ODD SEMESTER

Jan - June - 2019

Semester	Total		
	Appeared	Passed	Percentage
I Sem	65	54	83
III Sem	21	15	71
V Sem	13	13	100
VII Sem	-	-	-

EVEN SEMESTER

July - Dec - 2019

Semester	Total		
	Appeared	Passed	Percentage
II Sem	65	50	77
IV Sem	21	18	86
VII Sem	13	13	100
VIII Sem	-	-	-

Department of Information Science and Engineering

Major goal of the department

- ✦ To produce highly knowledgeable, competent and resourceful young engineers who can excel in their respective profession.
- ✦ To be a center of excellence in Information Science & Engineering education, research and training to meet the growing needs of the industry and society.
- ✦ To impart theoretical and practical knowledge through the concepts and technologies in Information Science and Engineering.
- ✦ To foster research, collaboration and higher education with premier institutions and industries.
- ✦ Promote innovation and entrepreneurship to fulfill the needs of the society and industry.

Features of the Department

- ❖ Smart Classrooms
- ❖ Well-equipped Laboratory with great software support
- ❖ Soft skill training programs
- ❖ Real time projects and exposure to industry
- ❖ Excellent teaching staffs with adopting innovativeness to excel in the academics
- ❖ Skilled supporting staff with good experience
- ❖ Effective syllabus coverage
- ❖ Faculty prepared study material
- ❖ Consistently achieving excellent results in all the semesters





DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING



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