



HOLY MARY INSTITUTE OF TECHNOLOGY & SCIENCE

Bogaram(V), Keesara(M), Medchal(Dist.), Hyderabad, Telangana State-501301

TECH - SAVVY

THE NEWSLETTER

Dec-Feb, 2017-18

Department of Computer Science & Engineering

The Department of Computer Science & Engineering was established in the year 2001. It has intake capacity of 120 students. All the laboratories are well established with state of the art equipment. The department has highly qualified and experienced faculty and technical staff. An innovative teaching and learning process is implemented in imparting quality education to the students, which includes conduct of workshops, seminars, industrial tours, expert lectures and various extracurricular activities.



Dr. P. BHASKARA REDDY
B.E (ECE), M.Tech., Ph.D., F.I.S.E.E., MISTE, MCSI, MIETE, MEMCE.
Director & Professor, Dept. of ECE

Dear All, Technical Education is the backbone of every nation and is the stepping-stone for a country to move into the niche of a developed nation. Creating better human beings' is our motto and we can do that when we are able to mould our students to be good human beings with values, which are embedded for life. The main focus of the Institution is to empower students with sound knowledge, wisdom, experience and training both at the academic level of Engineering and in the highly competitive global industrial market. We must believe that success is inevitable where these exist- Foresightedness, Hard work and Discipline. You are assured that you will be proud of yourself as a confident and successful technocrat after Four years at HMGI. Once again, we wish all our students and faculty a successful and rewarding career.



Dr. RAJASEKHARAI AH K.M.
HOD-CSE

It gives me immense pleasure to lead the department of Computer Science & Engineering. The aim of the department is to provide high quality education along with training the students with all the new advancements in the computers field. I congratulate the team of faculty members and the students for their brilliant and original efforts. I wish all the students and faculty a great academic career.

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From the Editorial Board

Positive thinking is like exercising a muscle. Only it gives you a mental workout. The more you use it, the better you will be at it. It is not possible to think positive all of the time, but you want the majority of your thoughts to reflect good and happy things.

People may not think positive because they might not know the right tools to use for becoming a positive person. Some things that will help you be positive are: coping skills, building up encouragement, changing your thoughts by developing good habits, surrounding yourself with positive people, and being spiritual.

Real positive thinking works by implementing coping skills. Here are some of mine. Pray, think positive thoughts, write poetry and letters, read the Bible, draw or color, listen to music, socialize, sleep, and take walks. Something any of us could try: hold on to the good in life, reflect on what God has done for you, think of funny movie lines, sing a happy song in your head, or go to your happy place.

Build up encouragement in your heart that you can store so God can bring it to your mind when you need it most. If the economy goes into a recession and you suffer a loss, you will have things stored up that you can draw on when you need to. Encouragement is like free checks that you can cash in anytime you want. You could either have a journal, scrapbook, binder, or something you can look at and remember when you need that extra boost of encouragement. You never know when catastrophes might strike next. People's lives are constantly being uprooted by family problems, weather disasters, you name it. The reason why it is important to have encouragement that you can live off of until you fill your love tank again.

Changing your thoughts by developing good habits is important. Some things can become an obsession. Frodo Baggins in the "Lord of the Rings" became obsessed with the ring and the longer he had it the harder it became to resist it. It is easier to break a habit when you first notice it, instead of waiting years and years to stop. People like my grandma who smoke find it hard to break the habit.

Department of Computer Science & Engineering

Christmas Celebration's



Holy Mary Group of Institutions celebrated Christmas on 22nd December 2017.



Christmas celebrated with very ease and peace, all other department faculty involved in doing prayer songs and other stage performance representing divinity of lord Jesus Christ.



Traditional Day



On 29/12/2017, Traditional day celebrated in Holy Mary Institute of Technology and Science. On this occasion Dr, Vara Prasad Reddy, Chairman, Mrs. Sharada Reddy, Secretary of HMGI attended the celebration of Traditional Day with their gracious presence everyone overwhelmed and had lots of fun.



Makar Sankranti Festival Celebrations



Makar Sankranti festival celebrated on 12th Jan 2018 with all rituals, Dr P Bhaskara Reddy, Director of Holy Mary Group of Institutions participated in festival celebrations along with other department HODs, teaching and non-teaching and students.



Rangoli competition and Kite Flying



On the eve of Makar Sankranti rangoli competition and kite flying conducted, all years different department student participated and had great fun with colorful festival celebration



Republic Day



On 26th Jan Republic day celebrated with great zeal and enthusiasm by paying tribute to Dr. Br. Ambedkar, Jawaharlal Nehru, and Mahatma Gandhiji.



Technical Zone



On 31st Jan, **Techno Flair** conducted on campus drive in HITS campus for final year B.tech students, **Dr. P Bhaskara Reddy** addressed the students about the technology and motivated students to participate and get experienced about how to get prepared for soft skills in corresponding area of interest and could crack the interviews.



Following are the list of CSE students shortlisted in “**Techno Flair**” campus drive

TANGELLAPALLY PRATIBHA	14C91A05A7	CSE	TECHNOFLAIR
M.PRATHYUSHA	14C91A0554	CSE	TECHNOFLAIR
BH.AMRUTHA VARSHINI	14C91A0511	CSE	TECHNOFLAIR

Karvy:

On Feb 2nd 2018, campus drive conducted for final the year B.Tech students from all branches; from CSE 13 students have been shortlisted, following the list of shortlisted students.

K.HARICHANDANA	14C91A0546	CSE	HITS
K.ARCHANA GOUD	14C91A0544	CSE	HITS
K.KEERTHI	14C91A0549	CSE	HITS
M.VYSHNAVI	14C91A0559	CSE	HITS
T.AISHWARYA	14QH1A0542	CSE	HITS
CH.VAMSHI YADAV	14QH1A0509	CSE	HITS
Y.DIVYA	14QH1A0544	CSE	HITS
KRITHIKA YADAV	14C91A05B9	CSE	HITS
VINAYA	14C91A05A5	CSE	HITS
P.PRIYANKA	14C91A0577	CSE	HITS
G.MADHAVI	14C91A0535	CSE	HITS
D.MOUNIKA	14C91A0581	CSE	HITS
MD.SHAHID AFRIDI	14C91A0558	CSE	HITS



On 9th Feb 2018, **Qspider** conducted campus drive for final year B.tech students in HITS campus



Following are the list of students shortlisted in

Qspider conducted on 9th Feb 2018, in HITS

SHAIK SHAGHUFTA	14C91A05A0	CSE	QSPIDERS
D.BEULA RANI	14C91A0523	CSE	QSPIDERS
A.SAI TEJA	14C91A0593	CSE	QSPIDERS
G.RAMAKANTH	14C91A0536	CSE	QSPIDERS
P.SUSRAVYA	14C91A0573	CSE	QSPIDERS
N.SAI KUMAR	14C91A0566	CSE	QSPIDERS

campus

IBeON Infotech :on campus drive conducted on 15th Feb 2018, in HITS campus.



1	M.SAI KIRAN	14C91A0555	CSE
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The above mentioned student shortlisted in campus drive conducted by IBeON Infotech



Sports News

SAKSHI ARENA ONE YOUTH FEST SAKSHI TOWERS Road No 1 Banjara hills VOLLEY BALL TEAM organized on 27/12/18

Following is the list of students participated from cse department in volley ball and hold Runners up for volley ball tournament



- | |
|---------------------------|
| 1. P Venkat Sainath - CSE |
| 2. P Rahul - CSE |
| 3. M Srikar - CSE |

ACE Engineering College Inter college cultural & Sports Fest Edulabad,(V) Ghatkesar(M) VOLLEY BALL TEAM organized from 28-12-2017 To 30-12-2017

- | |
|---------------------------|
| 1. P Venkat Sainath - CSE |
| 2. P Rahul - CSE |
| 3. M Srikar - CSE |

The above-mentioned list of students participated in volleyball tournament from CSE department organized by ACE engineering College Inter College cultural & Sports fest.

SAKSHI ARENA ONE YOUTH FEST SAKSHI TOWERS Road No 1 Banjara hills organized CRICKET TEAM From 27-12-2017 to 9/1/2018

Following are the list of students participated in cricket team from CSE department of Holy Mary Group of Institute Technology & Science

1. A Naveen Kumar - CSE
2. A Anil - CSE

Anurag Group of Institutions Aushapur(V), Ghatkesar(M) conducted Sports Bout-2K17 CRICKET TEAM From 3/1/2018 to 6/1/2018

Following is the list of students participated from all other branches of Holy Mary Group of Institute Technology & Science

- | |
|-----------------------------|
| 1. A Naveen kumar - CSE |
| 2. T Ramu - ECE |
| 3. P Saicharan - ECE |
| 4. P Vinod kumar - ECE |
| 5. P Saikumar - ECE |
| 6. Vamshi - ECE |
| 7. D Jagadish - EEE |
| 8. Surendar - Civil |
| 9. A Anil - CSE |
| 10. Suraj gosh - ECE |
| 11. P Sathish reddy - Mech |
| 12. N Akhilesh reddy - Mech |
| 13. P Saikumar patel - Mech |
| 14. B Saiprasad - Mech |
| 15. Md Shaji - Civil |

Anurag Group of Institutions Aushapur(V), Ghatkesar(M) conducted Sports Bout-2K17 VOLLEY BALL From 5/1/2018 to 6/1/2018

Following are the list of students participated from all other branches of Holy Mary Group of Institute Technology & Science

- | | |
|---------------------------|--------------------|
| 1. Sourav kumar - ECE | 9. K Raman - EEE |
| 2. D Ravi - Mech | 10. P Rahul - CSE |
| 3. P Kondal Reddy - Mech | 11. M Srikar - CSE |
| 4. D Jagadish - EEE | 12. Ramesh - Mech |
| 5. Ch Bikshapathi - Mech | |
| 6. P Venkat Sainath - CSE | |
| 7. B Vijaykanth - Mech | |
| 8. N Shivakumar - EEE | |

Anurag Group of Institutions Aushapur(V), Ghatkesar(M) conducted Sports Bout-2K17 FOOT BALL From 5/1/2018 to 6/1/2018

Following are the list of students participated from all other branches of Holy Mary Group of Institute Technology & Science

1. Disangso pul - Civil
2. Atholum kri - Civil
3. Keken rallen - Civil
4. Taru muri - Civil
5. Tacha sorang - Civil
6. Tadar nai - Civil
7. Taram rigam - Civil
8. Sumam shrastha - CSE
9. Yemlong chaba - Civil
10. Henloi. Labenth - Civil
11. Shiningstar. K - Civil
12. Abdul nafih.v.k - Mining
13. Mirshad ali - Mining
14. Mohan keertan - CSE
15. Bornfobrth.s mawdoh -Civil

SAKSHI ARENA ONE YOUTH FEST SAKSHI TOWERS Road No 1 Banjara hills FOOT BALL TEAM Organised event from 7/1/2018 to 8/1/2018

Following are the list of **FOOT BALL RUNNERS** students from all other branches of Holy Mary Group of Institute Technology & Science

1. Disangso pul - Civil
2. Atholum kri - Civil
3. Keken rallen - Civil
4. Taru muri - Civil
5. Tacha sorang - Civil
6. Tadar nai - Civil
7. Taram rigam - Civil
8. Sumam shrastha - CSE
9. Yemlong chaba - Civil
10. Henloi. Labenth - Civil
11. Shiningstar. K - Civil
12. Abdul nafih.v.k - Mining
13. Mirshad ali - Mining
14. Mohan keertan - CSE
15. Bornfobrth.s mawdoh -Civil



Samskruti Sports Fest Kondapur(V), Ghatkesar(M) VOLLEY BALL TEAM conducted VOLLEY BALL

tournament from 19-1-2018 to 19-1-2018

Following are the list of **VOLLEY BALL RUNNERS** students from all other branches of Holy Mary Group of Institute Technology & Science

1. Sourav kumar - ECE
2. D Ravi - Mech
3. P Kondal Reddy - Mech
4. D Jagadish - EEE
5. Ch Bikshapathi - Mech
6. P Venkat Sainath - CSE
7. B Vijaykanth - Mech
8. N Shivakumar - EEE
9. K Raman - EEE
10. P Rahul - CSE
11. M Srikar - CSE
12. Ramesh - Mech



Samskruti Sports Fest Kondapur(V), Ghatkesar(M) CRICKET TEAM conducted VOLLEY BALL tournament from **19-1-2018 to 22-1-2018**

Following are the list of **CRICKET TEAM** participant students from all other branches of Holy Mary Group of Institute Technology & Science

1. A Naveen Kumar - CSE
2. T Ramu - ECE
3. P Saicharan - ECE
4. P Vinod kumar - ECE
5. P Saikumar - ECE
6. Vamshi - ECE
7. D Jagadish - EEE
8. Surendar - Civil
9. A Anil - CSE
10. Suraj gosh - ECE
11. P Sathish reddy - Mech
12. N Akhilesh reddy - Mech
13. P Saikumar patel - Mech
14. B Saiprasad - Mech
15. Md Shaji - Civil

Vignan`s Institute of Management & Technology for Women Kondapur(V), Ghatkesar(M) prajwalan 2K18 conducted KHOKHO WOMEN GAME from 1/2/2018 to 3/2/2018

Following are the list of **KHOKHO TEAM** participant students from all other branches of Holy Mary Group of Institute Technology & Science

1. Deepika - EEE
2. Sahana - EEE
3. Sushma - EEE
4. K Akhila - ECE
5. Sahithi - CSE
6. Saiswetha - Civil
7. Saiprudvika - ECE
8. Satrika - ECE
9. Lavanya - CSE
10. Sudheera - ECE
11. Roopn - ECE
12. Sindhuja - ECE

Vignan`s Institute of Management & Technology for Women Kondapur(V), Ghatkesar(M) prajwalan 2K18 organized CRICKET WOMEN TEAM from 1/2/2018 to 3/2/2018

Following are the list of **CRICKET TEAM** participant students from all other branches of Holy Mary Group of Institute Technology & Science

1. V Stencystanley - ECE
2. E Niharika Reddy - ECE
3. S Sirisha - ECE
4. P Sandhya - ECE
5. Sahithi - CSE
6. SM Shiky - ECE
7. Ch Ramya - ECE
8. S Bhavana - ECE
9. B Manasa Reddy - ECE
10. T Lasya Lavanya - ECE
11. K Sahithi - CSE
12. Sindhuja - ECE
13. Deepika - EEE
14. Sahana - EEE
15. Saiswetha - Civil

Vignan`s Institute of Management & Technology for Women Kondapur(V), Ghatkesar(M) prajwalan 2K18 organized CHESS WOMEN from 1/2/2018 to 3/2/2018

Following are the list of **CHESS WOMEN RUNNERS** participant students from all other branches of Holy Mary Group of Institute Technology & Science.

1. S Sirisha - ECE
2. K Anushkala Sinha - CSE

Vignan`s Institute of Management & Technology for Women Kondapur(V), Ghatkesar(M) prajwalan 2K18 organized CHESS WOMEN from 1/2/2018 to 3/2/2018

Following are the list of **CARROM MEN RUNNERS** participant students from all other branches of Holy Mary Group of Institute Technology & Science.

1. B Vishal - CSE
2. Himanshu choudhary - CSE
3.V Saikanth Chary - CSE
4.T Chandrashekar - CSE
5. Anshal Kumar - CSE
6.Apoornath - CSE
7.A Ramakrishna - CSE
8.V Sai Adhithya

MR CET Dhulapally, Kompally Sports Blitz - 2K18 VOLLEY BALL TEAM conducted game from 2/2/2018 to 3/2/2018

Following are the list of **VOLLEY BALL RUNNERS** participant students from all other branches of Holy Mary Group of Institute Technology & Science.

1. Sourav kumar - ECE
2. D Ravi - Mech
3. P Kondal Reddy - Mech
4. D Jagadish - EEE
5. Ch Bikshapathi - Mech
6. P Venkat Sainath - CSE
7. B Vijaykanth - Mech
8. N Shivakumar - EEE
9. K Raman - EEE
10. P Rahul - CSE
11. M Srikar - CSE
12. Ramesh - Mech

MR CET Dhulapally, Kompally Sports Blitz - 2K18 FOOT BALL TEAM conducted game from 2/2/2018 to 3/2/2018

Following are the list of **FOOT BALL RUNNERS** participant students from all other branches of Holy Mary Group of Institute Technology & Science.

1. Disangso pul - Civil	8. Sumam shrastra - CSE
2. Atholum kri - Civil	9. Yemlong chaba - Civil
3. Keken rallen - Civil	10. Henloi. Labenth - Civil
4. Taru muri - Civil	11. Shiningstar. K - Civil
5. Tacha sorang - Civil	12. Abdul nafih.v.k - Mining
6. Tadar nai - Civil	13. Mirshad ali - Mining
7. Taram rigam - Civil	14. Mohan keertan - CSE
	15. Bornfobrth.s mawdoh -Civil

Thirumala Eng. College Bogaram(V), Keesara(M), Medchal(Dist.) State level Sports meet & Technical Symposium 2k18 organized **VOLLEY BALL TEAM** From 19/2/2018 to 20/2/2018

Following are the list of **VOLLEY BALL RUNNERS** participant students from all other branches of Holy Mary Group of Institute Technology & Science

1. Sourav kumar - ECE
2. D Ravi - Mech
3. P Kondal Reddy - Mech
4. D Jagadish - EEE
5. Ch Bikshapathi - Mech
6. P Venkat Sainath - CSE
7. B Vijaykanth - Mech
8. N Shivakumar - EEE
9. K Raman - EEE
10. P Rahul - CSE
11. M Srikar - CSE
12. Ramesh - Mech

Thirumala Eng. College Bogaram(V), Keesara(M), Medchal(Dist.) State level Sports meet & Technical Symposium 2k18 organized **CRICKET TEAM** From 19/2/2018 to 20/2/2018

Following are the list of **CRICKET TEAM** participant students from all other branches of Holy Mary Group of Institute Technology & Science

1. A Naveen kumar - CSE
2. T Ramu - ECE
3. P Saicharan - ECE
4. P Vinod kumar - ECE
5. P Saikumar - ECE
6. Vamshi - ECE
7. D Jagadish - EEE
8. Surendar - Civil
9. A Anil - CSE
10. Suraj gosh - ECE
11. P Sathish reddy - Mech
12. N Akhilesh reddy - Mech
13. P Saikumar patel - Mech
14. B Saiprasad - Mech
15. Md Shaji - Civil

Thirumala Eng. College Bogaram(V), Keesara(M), Medchal(Dist.) State level Sports meet & Technical Symposium 2k18 organized KABADI TEAM

From 19/2/2018 to 20/2/2018

Following are the list of **KABADI TEAM** participant students from all other branches of Holy Mary Group of Institute Technology & Science

1. B Suresh - EEE
2. D Karthik - EEE
3. K Siddhartha - EEE
4. J Ramesh - MECH
5. S Jawaharlal - MECH
6. P Rajeshekar - MECH
7. Yaswanth - ECE
8. Sai Kumar - ECE
9. Mohan Rao - ECE
10. Sravan Kumar - EEE
11. A Naveen Kumar - CSE
12. A Surrender - CIVIL

Aurora`s Engineering Collge Yadadri Bhuvanagiri KHEL State Level Sports Event VOLLEY BALL TEAM organized from 21/02/2018 to 24/02/2018.

Following are the list of **VOLLEY BALL TEAM** participant students from all other branches of Holy Mary Group of Institute Technology & Science.

1. Sourav kumar - ECE
2. D Ravi - Mech
3. P Kondal Reddy - Mech
4. D Jagadish - EEE
5. Ch Bikshapathi - Mech
6. P Venkat Sainath - CSE
7. B Vijaykanth - Mech
8. N Shivakumar - EEE
9. K Raman - EEE
10. P Rahul - CSE
11. M Srikar - CSE
12. Ramesh - Mech

Aurora`s Engineering Collge Yadadri Bhuvanagiri KHEL State Level Sports Event CRICKET TEAM organized from 21/02/2018 to 24/02/2018.

Following are the list of **CRICKET TEAM** participant students from all other branches of Holy Mary Group of Institute Technology & Science.

1. A Naveen kumar - CSE
2. T Ramu - ECE
3. P Saicharan - ECE
4. P Vinod kumar - ECE
5. P Saikumar - ECE
6. Vamshi - ECE
7. D Jagadish - EEE
8. Surendar - Civil
9. A Anil - CSE
10. Suraj gosh - ECE
11. P Sathish reddy - Mech
12. N Akhilesh reddy - Mech
13. P Saikumar patel - Mech
14. B Saiprasad - Mech
15. Md Shaji - Civil

Vignana Bharathi Institute of Technology Aushapur(V), Ghatkesar(M) JNTUH D Zone

Conducted **CRICKET TEAM** tournament from 23/2/2018 to 3/3/2018, Following are the list of **CRICKET TEAM** participant students from all other branches of Holy Mary Group of Institute Technology & Science.

1. A Naveen kumar - CSE
2. T Ramu - ECE
3. P Saicharan - ECE
4. P Vinod kumar - ECE
5. P Saikumar - ECE
6. Vamshi - ECE
7. D Jagadish - EEE
8. Surendar - Civil
9. A Anil - CSE
10. Suraj gosh - ECE
11. P Sathish reddy - Mech
12. N Akhilesh reddy - Mech
13. P Saikumar patel - Mech
14. B Saiprasad - Mech
15. Md Shaji - Civil



Technovanza-2k18

Technical event conducted in CSE department by the name “**Technovanza**” in HITS campus organized for two days from 23/01/18 to 24/01/18 venue seminar hall



The HOD CSE department addressing the students on the occasion of Technical event and sharing some of his experiences, memories, and motivating students to come forward participate in many more future upcoming events. Hence enhance their capability, skills and it helps the students to improve their confidence level.

In this two days technical event, the list of events which were organized are as follows

1. Technical Paper presentation
2. Group Discussion
3. Technical Quiz
4. Project Exhibition



Respected Director Dr. P. Bhaskara Reddy Inaugurated the event with deep Prajwalan.



Social Activities

National service scheme

University level special camp programme organized by holy Mary institute of technology & science from 29-01-2018 to 03-02-2018 in adopted village Bogaram, Keesara Mandal, Medchal dist. 55 volunteers participated from various departments in this camp.

DAY-1

DATE: 29-01-2018



Cleaning of Rooms and preparations for dinner on day one in camp



Cultural performances on day one by HITS NSS Volunteers

DAY-2

DATE: 30-01-2018

Students participating in yoga and intellectual session
Preparations of dinner and Transit Walk photos



Intellectual session by Mr. Uma Shankar NSS Student cell coordinator, JNTUH



DAY-3**DATE: 30-01-2018**

Students participating in Parade and Swaccha Bharath activities



Intellectual session by Prof B.K Reddy garu



Camp fire and cultural programs in the camp

**DAY-4****DATE: 01-02-2018**

Haritha Haram Program by NSS Volunteers in special camp



IOCL Campaign program on SAVE FUEL

DAY-5

DATE: 02-02-2018



Students participating in Yoga and meditation



Serving food to MLA Shri Malipeddi Sudheer Reddy garu and village elders



NSS Volunteers school teaching in Bogaram zilla parishad high school
Survey, food for school children and meeting of PO with sarpanch and upasarpanch

DAY-6
DATE: 03-02-2018



HITS staff felicitating School head master and upasarpansh of Bogaram Village



Flash mop played on music mashup by all B.Tech students very enthusiastically , organized by Saakshi media channel in HITS campus.



Vision

To be more competitive, socially responsible and knowledgeable Computer Engineers who can cater the needs of the industry.

Mission

M1: To make the students strong in fundamental concepts, analytical capabilities and strong in problem Solving skills.

M2: To hone up the learning process through advanced skills in computer science and engineering that can result in integration and research results.

M3: To equip the students ready with enhanced employability skills and to make them capable of starting their own startups

Program Educational Objective

PEO 1: Engineering ethos: To provide the knowledge of computer science Engineering concepts and equip students with the proficiency of mathematical foundations along algorithmic principles to solve competent problems.

PEO 2: Ethics & Attitudes: To sensitize students towards social and economical commitments to allocate professional ethics of moral community services in order to protect the environment.

PEO 3: Leadership: To give expose the students emerging technologies and give adequate training by providing opportunities to work as a team on multidisciplinary projects with effective communication skills and leadership qualities.

PEO 4: Engagement: To promote life-long Self-Learning abilities to make the students remain professionally effective in the society.

PEO 5: Versatility & Diversity: To build up skills to analyze the requirements of the computer science and Engineering to understand the technical specification to take-up a successful career in the companies and establish startups

POs and PSOs of Department

PO-1 (a) An ability to apply knowledge of mathematics, computing and engineering fundamentals to computer science & engineering.

PO-2 (b) An ability to identify problems, analyze and define computing requirements appropriate to its solution.

PO-3 (c) An ability to design, implement and evaluate a computer based model to meet needs with safe, social environmental considerations.

PO-4 (d) An ability to conduct investigations, interpret data and provide conclusions in investigating complex problems related to computer science & engineering.

PO-5 (e) An ability to create, select and use appropriate techniques, skills, and modern IT tools necessary for computing practice with an understanding of limitations.

PO-6 (f) An ability to apply reasoning to assess societal, safety and legal issues and the consequent responsibilities relevant to professional engineering practice.

PO-7 (g) An ability to understand the impact of professional engineering solutions in environmental contexts and the need for sustainable development.

PO-8(h) An understanding of professional, ethical, legal, security, social issues and responsibilities.

PO-9 (i) An ability to work on multidisciplinary tasks individually or as a member in teams.

PO-10 (j) An ability to communicate effectively on complex engineering activities with a range of audience.

PO-11 (k) An ability to manage projects by demonstrating knowledge and understanding of the engineering and project management principles in multidisciplinary environments.

PO-12 (l) A recognition of the need for and an ability to engage in life-long learning.

POs and PSOs of Department

Program Specific Outcomes (PSO's)

PSO-1 (m) **Foundations of Programming and Software Development:** To apply variety of programming languages paradigms, software engineering principles for developing quality software for scientific and business applications.

PSO-2 (n) **Entrepreneurship and Leadership:** To adapt emerging Information and Communication Technologies (ICT) in establishing startup and enterprise.