



MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)
(An UGC Autonomous Institution, Affiliated to JNTUH, Hyderabad Accredited 2nd time by NAAC
with 'A' Grade & NBA and Recipient of World Bank Assistance under TEQIP--II S.C. 1.1)
Maisammaguda (H), Medchal-Malkajgiri District, Secunderabad,
Telangana State – 500100
www.mrec.ac.in

Department of Computer Science and Engineering

CIRCULAR

Date: 25/06/2016

All the students are hereby informed that Value Added Course on “**Information Security**” is being organized by the **Computer Science and Engineering** department on dated **4th July 2016 to 8th Aug 2016**. The resource person for the course is **Mr. Subajith Jayadev, CISCO Academy** “

Students are advised to register their names to the programme coordinator “**Mr. P. Venkateshwara Rao Asst Professor, CSE**”, on or before **01/07/2016** and utilize this opportunity to enhance their skills by attending the programme.

The detailed schedule of the programme will be displayed in the notice board.


Head of the Department

Copy to:

- 1) Circulation in Students classroom
- 2) All HOD's
- 3) Notice Boards
- 4) PA to principal for filing.

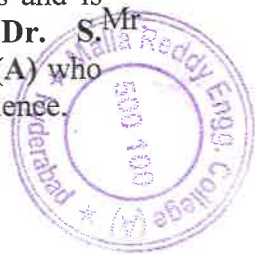


Ravind
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500100

About the Institution

Malla Reddy Engineering College (Autonomous) is one of the reputed engineering colleges in Hyderabad, Telangana. MREC (A) is part of Malla Reddy Group of Institutions (MRGI), founded by Sri. Ch. Malla Reddy, currently Hon'ble Minister, Labor and Employment, Factories, Women and Child Welfare and Skill Development, Govt. of Telangana State. The college is situated in a serene, lush green environment in Maisammaguda, Gundlapochampally, Medchal (M), Medchal-Malkajgiri District Telangana- 500100.

The college was established in 2002 and is an autonomous institution approved by UGC and affiliated to JNTUH. The college is re-accredited by NAAC with 'A' Grade (II Cycle) and was conferred autonomous status by JNTUH in 2011 and by UGC in 2014 for a period of 6 years. Our eligible UG and PG programs received NBA accreditation and some of them received reaccreditation too. The college caters to wide ranging aspirations and goals of student communities by offering new courses in UG courses provides PG courses and MBA along with programs in various streams of Engineering & Technology and Management. It boasts of world-class infrastructure and well-equipped laboratories in all departments and is skillfully and smartly guided by **Dr. S. Mr. Sudhakara Reddy, Principal, MREC (A)** who have a rich teaching and industrial experience.



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Malla Reddy Engineering College
Maisammaguda, Dhulapally,
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Advisory Committee

Chief Patrons: Sri. Ch. Malla Reddy
Founder Chairman
Malla Reddy Group of Institutions

Patrons: Sri.Ch. Mahender Reddy
Secretary, MRGI
Dr.Ch.Bhadra Reddy
President, MRGI

Co-Patrons: Dr.S. Sudhakara Reddy
Principal, MREC (A)

Convener: Dr. R. P. Ram Kumar
HOD CSE

Coordinator: Mr. P. Venkateshwar Rao
Assistant Professor, CSE

Resource Person: Shubhajit Jagadev,
Head, Cisco Academy Support Center

Organizing Committee:

Dr. R P Ramkumar, Professor, CSE

Dr. S. Dhanalakshmi, Professor, CSE

Mr. Sanjeeva Polepaka, Associate Professor, CSE

Mr. P.V.Ramana Murthy, Assistant Professor, CSE

Ms. S. Sandhya Ran, Assistant Professor, CSE

Mr.Md. Inayathulla, Assistant Professor, CSE

Mr.A.Lakshman, Assistant Professor, CSE

Mr.Yarava Rakesh Kumar, Assistant Professor, CSE

Mrs.G. Vamshi Krishna, Assistant Professor, CSE



*A One-Week Skill development Course
(Value added Course)*

On

"INFORMATION SECURITY"

(4th July 2016 to 8th August, 2016)

(4:30 p.m. to 5:30 p.m.)



Organized by

Department of

**Computer Science and Engineering
MALLA REDDY ENGINEERING COLLEGE**

(AUTONOMOUS) MAIN CAMPUS

An UGC Autonomous Institution, Approved by
AICTE & Affiliated to JNTUH-Hyderabad
Reaccredited by NAAC with 'A' Grade (II Cycle)
Maisammaguda (H), Gundlapochampally (V),
Medchal (M), Medchal - Malkajgiri District
Telangana - 500100, India.

Registration Form

Name of the Participant :-----

Branch & Year :-----

Name of Institution:-----

Address for Communication:-----

Mobile Number:-----

E-Mail ID:-----

DECLARATION:

The information furnished above is true to the best of my Knowledge.

Place:

Date:

Signature of Applicant



About the Department

The Department of CSE was started in the year 2005 with a vision of imparting high-quality education to suite the global standards in Computer science and Engineering. The department has got highly qualified & committed faculty members supported by dedicated technical staff.

The department has its own library and sophisticated laboratories not only to suite curriculum requirements but also to serve research needs such as Computer Networks, Data Mining, Software Engineering, Image processing & Cloud Computing. Workshops, software simulation etc. The department formed CSI and ISTE student branch for the benefit of students and faculty by conducting technical Conferences, workshops, FDPs and Guest lectures.

Overview of the Programme

The **INFORMATION SECURITY** course enables the students to understand the main concepts of Security services and Attacks, categorize various Conventional Encryption Algorithms, compare various algorithms and fundamental ideas of public-key cryptography, illustrate various E-Mail privacy techniques and infer web security and intrusion detection systems. recognizes basic skills in installing, supporting, and troubleshooting wired and/or wireless networks.

The **INFORMATION SECURITY** certification validates your skills and knowledge in knowing how to reduce the risk of data breaches and attacks in IT systems. Applying security controls to prevent unauthorized access to sensitive information.

Objectives of the Programme

During the **Information security** course, administered by the undersigned instructor, the student was able to proficiently:

- Understand and describe what are clean and corrupted systems, protecting personal data and protecting computer networks.
- Understand and describe key terms and concepts in cyber law, intellectual property and cyber crimes, trade marks and domain theft.
- Understand the principles of web security.
- Develop an understanding of security policies (such as confidentiality, integrity and availability), as well as protocols to implement such policies.
- Understanding of cryptography, how it has evolved, and some key encryption techniques used to day.

Topics to be covered

- Main concepts of Security services and Attacks,
- Conventional Encryption Principles,
- Cryptographic principles,
- IP & web security.

Certificate

After successful completion of the course the certificates shall be issued to the participants.

Outcome of the program,

On completion of this course, participants will be able to equip with all the skills required to match their expectations.

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VAC INFORMATION SECURITY SYLLABUS

1. **Security Attacks** - Security Attacks (Interruption, Interception, Modification and Fabrication), Security Services (Confidentiality, Authentication, Integrity, Non-repudiation, access Control and Availability)
2. **Security Mechanisms** - A model for Internetwork security, Internet Standards and RFCs, Buffer overflow & format string vulnerabilities, TCP session hijacking, ARP attacks, route table modification, UDP hijacking and man-in-the-middle attacks.
3. **Conventional Encryption Principles** - Conventional Encryption Principles, Conventional encryption algorithms, cipher block modes of operation, location of encryption devices.
4. **Key Distribution** - key distribution Approaches of Message Authentication, Secure Hash Functions and HMAC.
5. **Cryptographic Techniques** - Public key cryptography principles, public key cryptography algorithms, digital signatures, digital Certificates.
6. **Key Management** - Certificate Authority and key management Kerberos, X.509 Directory Authentication Service.
7. **Email Privacy** - Pretty Good Privacy (PGP) Characteristics of PGP, Cryptographic Keys and Key rings, PGP Message Generation.
8. **S/MIME** - S/MIME, MIME Types and Subtypes, Cryptographic algorithms in S/MIME.
9. **IP Security** - IP Security Overview, IP Security Architecture, Authentication Header, Encapsulating Security Payload, Combining Security Associations and Key Management.
10. **Web Security** - Web Security Requirements, Secure Socket Layer (SSL) and Transport Layer Security (TLS), Secure Electronic Transaction (SET), Basic concepts of SNMP, SNMPv1 Community facility and SNMPv3. Intruders, Viruses and related threats, Firewall Design principles, Trusted Systems, Intrusion Detection Systems.



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Maisammaguda (H), Medchal-Malkajgiri District,
Telangana State – 500100

Department: CSE

**Course Name:
INFORMATION
SECURITY**

Date:04/07/2016-08/08/2016

Value Added Courses
List of Students enrolled and completed

Sl.No	Roll No	Name of the students	Year/Semester
1	14J41A0501	Atluri Pranay Chowadary	III/I
2	14J41A0502	Alla Shanith	III/I
3	14J41A0503	A Venkateshwar Rao	III/I
4	14J41A0504	Aluri Mahendar Reddy	III/I
5	14J41A0505	Boppidi Madhuri Reddy	III/I
6	14J41A0506	B Maghana Anand	III/I
7	14J41A0507	B Navya Prathyusha	III/I
8	14J41A0508	Bukke Kesava Sai Krishna Naik	III/I
9	14J41A0509	Ch Niyanth Reddy	III/I
10	14J41A0510	Chiruvolu Revanth Rumar	III/I
11	14J41A0511	Ch Vijay Kanth Reddy	III/I
12	14J41A0512	Chakalaparam Raman Deevana	III/I
13	14J41A0513	D Hemanth	III/I
14	14J41A0514	Dasari Jagadeesh	III/I
15	14J41A0515	D Sushmita Priya	III/I
16	14J41A0516	Deverasetti Saikiran	III/I
17	14J41A0517	Dhanush Kodi Ranga Rajan	III/I
18	14J41A0518	Dodda Bhuvaneshwari	III/I
19	14J41A0519	Duddu Vaishavi	III/I
20	14J41A0520	Eppa Sai Deepak	III/I
21	14J41A0521	Gaddam Abhiram Goud	III/I
22	14J41A0522	Goukarla Prasanna Kumar	III/I
23	14J41A0523	Illuri Satyageethika	III/I
24	14J41A0524	Jupally Hari Priya	III/I
25	14J41A0525	Japa Sadhana	III/I
26	14J41A0526	Katragadda Jagadeswar	III/I
27	14J41A0527	Kundur Srinitha	III/I
28	14J41A0528	Kunna Srujan Kumar	III/I
29	14J41A0529	Kethepalli Vineetha	III/I
30	14J41A0530	Kotaru Yeswanth	III/I
31	14J41A0531	Kanaji Sushma	III/I
32	14J41A0532	Kanne Sai Teja	III/I



Round
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33	14J41A0533	Kanneboyina Monika	III/I
34	14J41A0534	Kemshetty Sarika	III/I
35	14J41A0535	Kommula Prem Kumar	III/I
36	14J41A0536	Lingala Srikanth	III/I
37	14J41A0537	Macharla Indu	III/I
38	14J41A0538	Mohammad Haseeb Ul Shoaib	III/I
39	14J41A0539	Molugumati Sathvik	III/I
40	14J41A0540	Nerella Rajashekar Reddy	III/I
41	14J41A0541	N Saikrishna	III/I
42	14J41A0542	Puchakayala Akhila	III/I
43	14J41A0543	P Raghava Vamshidhar Reddy	III/I
44	14J41A0544	Pathloth Praveen Nayak	III/I
45	14J41A0545	Pooja Agarwal	III/I
46	14J41A0546	Ramya Shree Tatikonda	III/I
47	14J41A0547	Srigiri Nihal	III/I
48	14J41A0548	S Prem	III/I



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VAC-Information Security- Summary

10.08.2016

The field of information security has grown and evolved significantly in recent years. It offers many areas for specialization, including securing networks and allied infrastructure, securing applications and databases, security testing, information systems auditing, business continuity planning, electronic record discovery, and digital forensics. Information security professionals are very stable in their employment. As of 2013 more than 80 percent of professionals had no change in employer or employment over a period of a year, and the number of professionals is projected to continuously grow more than 11 percent annually from 2014 to 2019.

Keeping this in view the Department of Computer Science and Engineering has chosen this value-added course to boost employment and career opportunities to the students. This course on Information Security is conducted from 4th July to 10th Aug 2016 after class work for 30+ hours. The speaker being very experienced covered the important topics as well as real time examples in an interesting manner. Since the subject is quite relevant to the day-to-day digital life the students have shown lot of interest.

Some of the topics covered are:

- identifying information and related assets, plus potential threats, vulnerabilities, and impacts;
- evaluating the risks;
- deciding how to address or treat the risks i.e. to avoid, mitigate, share or accept them;
- where risk mitigation is required, selecting or designing appropriate security controls and implementing them;
- monitoring the activities, making adjustments as necessary to address any issues, changes and improvement opportunities.

He speaker talked on Information Security from the industrial view point. He specified about security measures like authentication, authorization, access control and also the research areas in this field which includes strong authentication, increased security analysis in complex networks and role based access controls.

- Also focused on various security standards and regulations followed in various IT industries including TCS. He gave a brief account on ISO 27001 standard which covers security through 11 domains. He emphasized on the threats, vulnerabilities and risk involved in an Information Security Management Systems
- It was an interesting and interactive session where the real time cyber crime activities were discussed. The case studies were: 1) Mumbai girl steals US source code, 2) Data: Lost, Stolen or Strayed and 3) Setting up a Cyber Cafe. Various domains violated in these case studies were identified and discussed.
- It concluded with his valuable speech on the potential areas in Cyber Security and possible developments in the future. The Coordinator of the course has been very active and worked hard to conduct it smoothly. Certificates are given to eligible students in the end.



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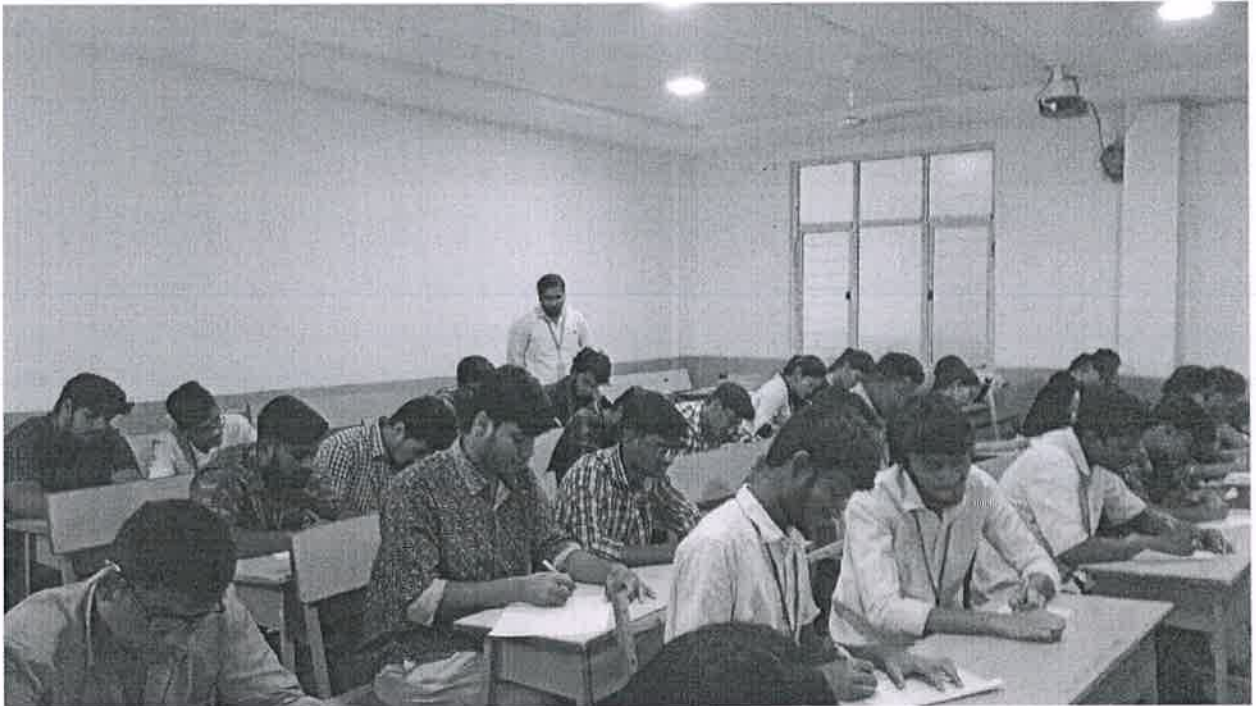
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms. Aluri Mahendar Reddy bearing Roll No. 14J41A0504 has successfully completed Certificate / Value Added Course / Workshop in INFORMATION SECURITY conducted by the Department of Computer Science and Engineering from 04th July 2016 to 08 August 2016.

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CERTIFICATE OF COMPLETION

This is to certify that **D Hemanth** bearing Roll No. 14J41A0513 has successfully completed Certificate / Value Added Course / Workshop in INFORMATION SECURITY conducted by the Department of Computer Science and Engineering from 04th July 2016 to 08 August 2016.


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CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms. D Sushmita Priya bearing Roll No. 14J41A0515 has successfully completed Certificate / Value Added Course / Workshop in INFORMATION SECURITY conducted by the Department of Computer Science and Engineering from 04th July 2016 to 08 August 2016.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms. Molugumati Sathvik bearing Roll No. 14J41A0539 has successfully completed Certificate / Value Added Course / Workshop in INFORMATION SECURITY conducted by the Department of Computer Science and Engineering from 04th July 2016 to 08 August 2016.

COORDINATOR



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CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms. Srigiri Nihal bearing Roll No. 14J41A0547 has successfully completed Certificate / Value Added Course / Workshop in INFORMATION SECURITY conducted by the Department of Computer Science and Engineering from 04th July 2016 to 08 August 2016.


COORDINATOR




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