



(Accredited by NBA of AICTE & NAAC of UGC)

Department of Information Technology

M.Tech - Computer Networks and Information Security (CNIS)

Minutes of the Second Board of Studies Committee (for CNIS) Meeting held at the Department of Information Technology, GNITS (for Women):

- The Board of Studies Committee of the M.Tech(CNIS), GNITS, Hyderabad, has been instituted with effect from 10-08-2021 (for a period of 3 years), with the following members:
 1. Dr. I.Ravi Prakash Reddy, Professor & Head, GNITS, HYD. - BoS Chairman
 2. Dr. G Vijaya Kumari, Professor, CSE, JNTUH, HYD. - University Nominee
 3. Dr.P.Krishna Reddy, Professor, IIITH, HYD. - Subject Expert
 4. Dr. Chakravaty Bhagvati, Professor, SCIS, UOH. - Subject Expert
 5. Dr. Raghavendra Kune, Scientist "AF", ADRIN, HYD. - Industry Member
 6. Dr. S.Ramacharan, Professor, IT, GNITS, HYD. - Internal Member
 7. Dr. Ch.Anitha, Professor, IT, GNITS, HYD. - Internal Member
 8. Mr.B.V.Prasad Babu, Assoc. Professor, IT, GNITS, HYD. - Internal Member
 9. Mr. C.Sudhakar Reddy, Assoc. Professor, IT, GNITS, HYD. - Internal Member
 10. Dr. V. Supriya, Assoc. Professor, IT, GNITS, HYD. - Internal Member
 11. Dr. S Prabavathy, Assoc. Professor, IT, GNITS, HYD. - Internal Member
 12. Dr. A Vijaya Krishna, Asst. Professor, IT, GNITS, HYD. - Internal Member
 13. Dr. Susmitha Mandal, Asst. Professor, IDRBT, HYD. - Alumnae Member
- The Second BoS meeting of the M.Tech(CNIS) was held on 24-09-2022, at the IT Department, CC-3 Lab, GNITS, Hyderabad.

Minutes of the Second BoS Meeting of CNIS:

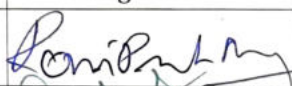



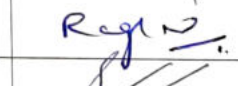
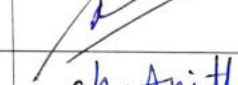
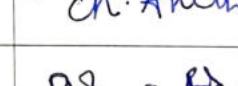
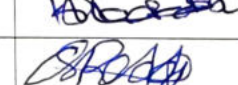
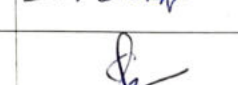
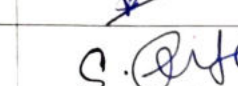

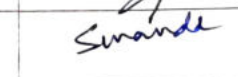

- 1) Dr. I.Ravi Prakash Reddy, BoS Chair, extended a cordial welcome to all the members of the BoS Committee, for the Second BoS Meeting of M.Tech(CNIS) (after attaining the UGC Autonomous Status in April 2018), and introduced all the members.
- 2) After lengthy deliberations and progressive discussions, all the Members of the BoS for M.Tech(CNIS) have unanimously approved the following -
 - a) The Academic Regulations for M.Tech. Programme (with 68 Credits) in IT Department (GNITS-2022 PG Academic Regulations) with CNIS specialization, as per contents enclosed.
 - b) The Two Year 4 Semester PG Degree Course Structure for M.Tech. Programme in IT Department - with Computer Networks & Information Security (CNIS) specialization, with a total of 68 Credits, as per contents enclosed.
 - c) The Course Contents and Syllabi of all the Courses/Subjects of the 4 Semester M.Tech. Programme in IT with CNIS specializations, as per details enclosed.
- 3) As per suggestions of BoS committee, the following changes were made in the CNIS Course Structure.
 - a) Adhoc and Sensor Networks offered as PSE-1 is replaced with Distributed Systems.

- b) Cyber Security offered as PSE-2 is replaced with Malware Analysis. As Cyber Security and Information Security both are important courses, Cyber Security was decided to be offered as PSE-4.
- c) Biometrics offered as PSE-3 is replaced with Digital Forensics.
- d) Minor changes were made in the following course contents.
- Mathematical Foundations of Cryptography
 - Information Security
 - Web and Database Security
 - Blockchain Technology
- 4) The BoS Committee formally authorized the BoS Chair of M.Tech(CNIS), to include any minor modifications or corrections needed for the PG Course Structures and Academic Regulations (2022) at later dates, if approved and recommended by the IT Department Advisory Committee.
- 5) The BoS Committee formally authorized the BoS Chair of M.Tech(CNIS), to suggest the Panel of Question Paper Setters, Examiners and Evaluators required for all the Subjects/Courses offered by IT Department, and for those listed in the M.Tech(CNIS) Course Structure (2022).

Number of New Courses Introduced	Number of Courses Modified (Modified content >=20%)	Number of deleted courses
9	6	5

(wrt GNITS-CNIS-R18)

Signatures of the Members Present:

S.No.	Name & Designation	Member Category	Signature
1.	Dr. I.Ravi Prakash Reddy, Professor & Head, IT, GNITS, HYD.	BoS Chair	
2.	Dr. G Vijaya Kumari, Professor, CSE, JNTUH, HYD.	University Nominee	
3.	Dr.P.Krishna Reddy, Professor, IIITH, HYD.	Subject Expert	
4.	Dr. Chakravaty Bhagvati, Professor, SCIS, UOH.	Subject Expert	
5.	Dr. Raghavendra Kune, Scientist "SE", ADRIN, HYD.	Industry Member	
6.	Dr. S.Ramacharan, Professor, IT, GNITS, HYD.	Internal Member	
7.	Dr. Ch.Anitha, Professor, IT, GNITS, HYD.	Internal Member	
8.	Mr.B.V.Prasad Babu, Assoc. Professor, IT, GNITS, HYD.	Internal Member	
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12.	Dr. A. Vijaya Krishna, Asst. Professor, CST, GNITS, HYD.	Internal Member	
13.	Dr. Susmitha Mandal, Asst. Professor, IDRBT, HYD.	Alumnae Member	

Department of Information Technology

M.Tech(CNIS)

S. No.	Broad Course Classification	Course Group/ Category	Courses Description	Credits
1)	Core Courses (CoC)	PC - Professional Core	Includes Core subjects related to the Parent Department/ Branch of Engg.	18
2)	Elective Courses (ElC)	PSE – Program Specific Elective	Includes Elective subjects related to the Parent Department/ Branch of Engg.	15
3)		OE - Open Elective	Elective Courses which include subjects from other technical and/or Emerging Areas	3
4)	Project Related Courses	PW - Project Work	M.Tech. Project or PG Project or PG Major Project (Phase-I and Phase-II)	26
		Mini-Project (MP)	Mini-Project over 1 semester duration	2
		Seminar	Seminar based on core contents related to the Parent Department/ Branch of Engg. in identified specialization	2
5)	Prescribed Course	AICTE Model Curriculum 2018	Research Methodology & IPR	2
6)	Audit Courses	AC – as per AICTE Model Curriculum 2018	Inclusive of AICTE Suggested List	No Credits
Total Credits for PGDP (For the Specializations Listed)				68

M. Tech CNIS

Syllabus Comparison GNITS-R22 with GNR-18

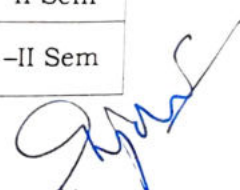
Number of New Courses Introduced	Number of Courses Modified (Modified content $\geq 20\%$)	Number of deleted courses
9	6	5

List of New Courses:

S.No	Subject Name	Year and Sem
1	Program Specific Elective 1 <ul style="list-style-type: none"> • Wireless Networks Mobile Computing • Distributed Systems 	I Year –I Sem
2	Seminar - 1	I Year –I Sem
3	Soft Computing	I Year –II Sem
4	Program Specific Elective 3 <ul style="list-style-type: none"> • Secure Software Engineering • Cloud Security 	I Year – II Sem
5	Program Specific Elective 4 <ul style="list-style-type: none"> • Internet of Things and Security • Web and Database Security 	I Year – II Sem
6	Program Specific Elective 4 Lab <ul style="list-style-type: none"> • Internet of Things and Security Lab • Web and Database Security Lab • Cyber Security Lab 	I Year – II Sem
7	Seminar - 2	I Year – II Sem
8	Program Specific Elective 5 <ul style="list-style-type: none"> • Block chain Technology • Intrusion Detection and Prevention Systems • Ethics and Laws of Cyber Security 	II Year – I sem
9	Project Management and Planning(OE)	II Year – I sem

List of Modified Courses (Modified content $\geq 20\%$)

S.No	Subject Name	Year and Sem
1	Mathematical Foundations of Cryptography	I Year –I Sem
2	Disaster Management	I Year –I Sem
3	Program Specific Elective 4 Cyber Security	I Year –II Sem
4	Advanced Algorithms	I Year –II Sem
5	Advanced Algorithms Lab	I Year –II Sem
6	Business Analytics(OE) Cost management of Engineering Projects(OE)	II Year –II Sem



List of deleted courses

S.No	Subject Name	Year and Sem
1	Program Specific Elective 1 • Computer Networking • Network Programming	I Year -I Sem
2	Program Specific Elective 2 • Intrusion Detection • Information Theory & Coding	I Year -I Sem
3	Lab - Program Specific Elective 1 • Computer Networking • Network Programming • TCP/IP Internetworking	I Year -I Sem
4	Program Specific Elective 3 • Cloud Computing • Storage Area Networks • Distributed Databases	I Year - II Sem
5	Program Specific Elective 5 • Wireless Networks • Network Security Standards and Applications Evaluation	II Year-I Sem



BoS Chair