



DADIINSTITUTE OF ENGINEERING & TECHNOLOGY (AN AUTONOMOUS INSTITUTE)

(Approved by A.I.C.T.E., & Permanently Affiliated to JNTU GV, Vizianagaram)

NAAC Accredited with 'A' Grade and Inclusion u/s2 (f) &12(B) of UGC Act

An ISO9001:2015, ISO 14001:2015 & ISO45001:2018 Certified Institute.

NH-16, Anakapalle-531002, Visakhapatnam, A.P.

Mobile: +919963694444, Website: www.diet.edu.in, E-mail: info@diet.edu.in



BOARD OF STUDIES

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE: Computer Science & Engineering

FORMATION AND FUNCTIONS OF BOARD OF STUDIES

The Board of Studies is a statutory body that reports to the Academic Council through the Concerned Dean. Each Academic Department shall have a Board of Studies. All academic matters like Introduction of a new Academic Programme, Revision of a programme / course, review of academic rules shall be handled by the board of studies.

Composition of Board of Studies:

1. Head of the Department concerned (Chairman).
2. The entire faculty of each specialization.
3. Two subject experts from outside the Parent University to be nominated by the Academic Council.
4. One expert to be nominated by the Vice-Chancellor from a panel of six recommended by the college Principal.
5. One representative from industry/corporate sector/allied area relating to placement.
6. One postgraduate meritorious alumnus to be nominated by the principal.

The Chairman, Board of Studies, may with the approval of the principal of the college: Co-opt (a) Experts from outside the college whenever special courses of studies are to be formulated.

(b) Other members of staff of the same faculty.

Term: The term of the nominated members shall be three years.

Meetings:

- (a) The Board of Studies shall meet at least twice a year.
- (b) A notice of at least 5 days shall be given for a meeting of the Board of studies along with the agenda prepared with the approval of the Chairman, Board of Studies.
- (c) Every meeting shall be presided over by the Chairman of the Board of Studies.
- (d) Secretary shall finalize the Minutes of the proceedings as soon as possible after the meeting.
- (e) Decisions at the meeting shall be taken by a simple majority and shall come into force only after the approval of the Academic Council. However the proposals shall be recommended by the concerned Dean to the Academic Council.

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS)**Board of Studies: Computer Science & Engineering**

S.No.	Name of the Person	Designation	Category	Status of the person	Affiliation
1	Dr.K.Sujatha, Hod	Professor, Hod CSE	Education	Chair person (HOD)	DIET, Anakapalle
2	Dr. K Amarendra	Associate Professor	Education	Member Faculty	DIET, Anakapalle
3	Dr. M. Srinivasa Rao	Associate Professor	Education	Member Faculty	DIET, Anakapalle
4	Mrs.M.Sharmil a	Assistant Professor, Dy Hod	Education	Member Faculty	DIET, Anakapalle
5	Mr. Ch Nagabhushana Rao	Associate Professor	Education	Member Faculty	DIET, Anakapalle
6	Mrs. K Srilakshmi	Associate Professor	Education	Member Faculty	DIET, Anakapalle
7	Mr.Ch.Dinesh	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
8	Mrs. D. Geetanjali	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
9	Mrs. K. U. V. Padma	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
10	Mr.Ch. S. K. V. R Naidu	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
11	Mr.K.Mohan Rao	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
12	Mrs.P.Sowjanya a	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
13	Mrs. T. Santhoshi Lakshmi	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
14	Mrs.P.Neeraja	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
15	Mrs. P. Sreedevi	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
16	Mrs.J.Bhavani	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
17	Mr.P.Uday Bhaskar	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
18	Mrs. M. Vijaya Lakshmi	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
19	Mrs.G.Mutyala mma	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
20	Mrs.B.Renuka	Assistant Professor	Education	Member Faculty	DIET, Anakapalle

21	Mrs.J.Dhana Lakshmi	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
22	Mrs. V.Manasa	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
23	Mrs.K.Visala	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
24	Mrs.T.Sujatha	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
25	Mrs. B.G. Poornima Himakethan	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
26	Mr. N.S. Prasad	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
27	Mrs. S .Manasa	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
28	Mrs.Velamuri .Manasa	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
29	Mrs.A.Revathi	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
30	Mrs. P. Madhavi Latha	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
31	Mrs.P.V S Soujanya	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
32	Mrs.S.Venkata Lakshmi	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
33	Mrs. D. Sharmila Ganga Devi	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
34	Mrs. B Dhana Lakshmi	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
35	Mrs. P. Kumidini Devi	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
36	Mrs. Ch. L. Sowmitri	Assistant Professor	Education	Member Faculty	DIET, Anakapalle
37	Mrs. S. Pushpa	Lecturer	Education	Member Faculty	DIET, Anakapalle
38	Mrs. Ch Gunna Lakshmi	Lecturer	Education	Member Faculty	DIET, Anakapalle
39	Ms. Tabassum	Lecturer	Education	Member Faculty	DIET, Anakapalle
40	Ms B Reecha	Lecturer	Education	Member Faculty	DIET, Anakapalle
41	Ms K Satyavathi	Lecturer	Education	Member Faculty	DIET, Anakapalle
42	Prof. D. Rajya Lakshmi	Professor	Education	Member -Faculty (Nominated by the Vice Chancellor)	JNTU GV

43	Dr S. Jhansi Rani	Associate Professor	Education	Member-Faculty (outside the college nominated by Academic council)	Dept of CS & SE, Andhra University, Visakhapatnam
44	Prof. P.V. Nageswara Rao	Professor	Education	Member-Faculty (outside the college nominated by Academic council)	Dept. of CSE, Gandhi Institute of Technology & Management (GITAM) University, Visakhapatnam
45	Sri C. Uday Kumar	Sr. Manager	Industry	Representative from industry/corporate sector/allied areas relating to placements	IT&ERP Dept. Visakhapatnam Steel Plant, Visakhapatnam
46	Mrs. Nalam Prathyusha	Sr. System Engineer	Software	Alumni	Infosys private Ltd.

Board of Studies: Computer Science & Engineering

Alumni Identity Proof



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9963993229 principal@diet.edu.in www.diet.edu.in

NH-16, Anakapalle – 531002, Visakhapatnam, A.P.

Dr.R.Vaikunta Rao, M.Tech., Ph.D.
Principal

Lr.No.DIET (A)/BOS-CSE/2024-25/01

Dt.03-07-2024

To
Dr. D Rajya Lakshmi,
Professor & Director Evaluation,
JNTU-GV CEV (A),
Vizianagaram.

Respected Madam,

Sub: DIET (A) - Constitution of Board of Studies (BOS) - Submission of proceedings for nomination of a member - Welcome to first BOS meeting request – Reg.

Ref: Proc.No. JNTU-GV/BOS Members Nomination/DIET (A)/2023-24 dated 14-12-2023

With reference to the proceedings cited above, the Hon'ble Vice Chancellor is pleased to nominate you as a member in newly constituted Board of Studies in the Department of Computer Science & Engineering, Dadi Institute of Engineering & Technology (Autonomous), Anakapalle w.e.f. the A.Y 2024-25 until further orders. In this regard, we heartily welcome to you to Department BOS meetings which shall be scheduled at least once every six months.

It is to inform you that the first BOS meeting for UG & PG - CSE is scheduled to be conducted on 08-07-2024 in hybrid mode at DIET campus, Anakapalle. Agenda is to approve the DR23 Syllabus and to discuss other matters with the permission of chair.

In this regard, we trust that you are the right person to contribute your valuable suggestion in revising the Curriculum & Syllabus based on the industrial requirement and latest technology prevailing in Computer Science & Engineering which can help the student's community to shape themselves for their bright future.

The Board of Studies shall recommend the following to the Academic Council:

- Courses of studies;
- Measures for the improvement of the standards of teaching and research;
- Any other academic matter.



PRINCIPAL

(Dr. R. Vaikunta Rao)
DADI INSTITUTE OF
ENGINEERING & TECHNOLOGY
ANAKAPALLE - 531 002



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Dr.R.Vaikunta Rao, M.Tech., Ph.D.

Principal

Lr.No.DIET (A)/BOS-CSE/2024-25/02

DT: 03/07/2024

To

Dr. S. Jhansi Rani,
Associate Professor,
Computer Science and Systems Engineering,
Andhra University,
Visakhapatnam.

Respected Madam,

Sub: Welcome to Second BOS meeting request – Reg.

Ref: Proc.No. JNTU-GV/BOS Members Nomination/DIET (A)/2023-24 dated 14-12-2023

With reference to the proceedings cited above, we request your kind presence for II Board of Studies meeting in the Department of Computer Science and Engineering, Dadi Institute of Engineering & Technology (Autonomous), Anakapalle for the A.Y 2024-25.

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Principal

Lr.No.DIET (A)/BOS-CSE/2024-25/02

DT: 03/07/2024

To
Dr. P.V. Nageswara Rao
Professor
Department of CSE
Gandhi Institute of Technology and Management
Visakhapatnam

Respected Sir,

Sub: Welcome to Second BOS meeting request – Reg.

Ref: Proc.No. JNTU-GV/BOS Members Nomination/DIET (A)/2023-24 dated 14-12-2023

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- Any other academic matter.



R. Vaikunta Rao
3/7/24

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Dr.R.Vaikunta Rao, M.Tech., Ph.D.

Principal

Lr.No.DIET (A)/BOS-CSE/2024-25/02

DT: 03/07/2024

To
Mr. C. Uday Kumar
Sr. Manager
IT&ERP Dept.
Visakhapatnam Steel Plant, Visakhapatnam

Respected Sir,

Sub: Welcome to Second BOS meeting request – Reg.

Ref: Proc.No. JNTU-GV/BOS Members Nomination/DIET (A)/2023-24 dated 14-12-2023

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Dr.R.Vaikunta Rao, M.Tech., Ph.D.

Principal

Lr.No.DIET (A)/BOS-CSE/2024-25/02

DT: 03/07/2024

To

Mrs. Nalam Prathyusha
Senior System Engineer
Infosys Private limited
Hyderabad

Respected Madam,

Sub: Welcome to Second BOS meeting request – Reg.

Ref: Proc.No. JNTU-GV/BOS Members Nomination/DIET (A)/2023-24 dated 14-12-2023

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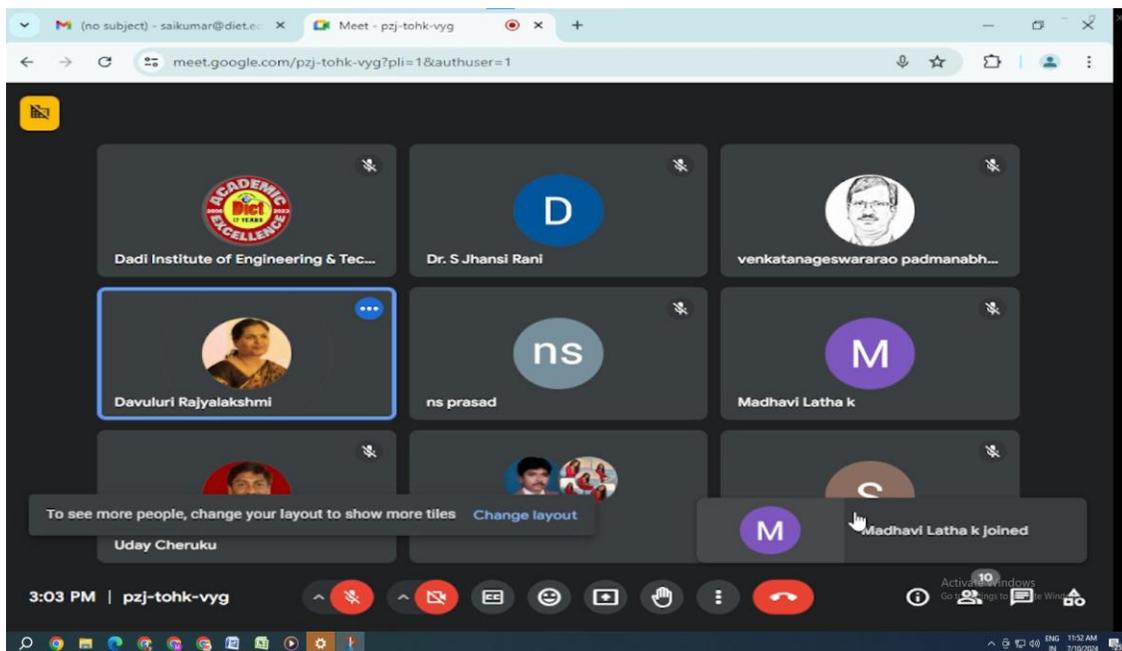
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MINUTES OF BOARD OF STUDIES IN THE FACULTY OF
COMPUTER SCIENCE & ENGINEERING

Minutes of Board of studies in the faculty of Computer Science & Engineering, as per the orders of the Principal L r. No. DIET (A)/BOS-CSE/2024-25/01 Dated: 03.07.2024 the board of studies meeting is held on 08.07.2024 and discussed the course structure and detailed syllabus for II Year B. Tech and M.Tech (Computer Science & Engineering) courses and I Year B.C.A and M.C.A Courses.

Chairperson of BOS, Dr. K. Sujatha, welcomed all the external members and introduced internal BOS members to them. The meeting began with a presentation CSE Department credentials and then presentation of the curriculum of DR23 Computer Science & Engineering by chair for II B.Tech, I M.Tech for both odd and even semester's. She then presented the syllabus of the all Computer Science subjects in III & IV semesters for both UG & PG prepared by internal BOS members. Then the meeting proceeded with the presentation of B.C.A and M.C.A. course structure and syllabus.





Media Player

(no subject) saikumar@di... Meet - pzj-tohk-vyg

meet.google.com/pzj-tohk-vyg?pli=1&authuser=1

Dadi Institute of Engineering & Technology - DIET (Presenting)

The screenshot shows a Google Meet interface. The main window displays a presentation slide with the following content:

Exercise - 8

- a) Write a JAVA program that import and use the user defined packages
- b) Without writing any code, build a GUI that display text in label and image in an Image View (use JavaFX)
- c) Build a Tip Calculator app using several JavaFX components and learn how to respond to user interactions with the GUI

Exercise - 9

- a) Write a JAVA program for handling mouse events
- b) Write a JAVA program for handling Keyboard events

Exercise - 10

- a) Write a JAVA program that allows user to draw lines, rectangles and ovals.
- b) Write a Java Program for Button click Message using Swings.

References Books:

1. P. J. Deitel, H. M. Deitel, "Java for Programmers", Pearson Education, PHI, 4th Edition, 2007.
2. P. Radha Krishna, "Object Oriented Programming through Java", Universities Press, 2nd Edition, 2007
3. Bruce Eckel, "Thinking in Java", Pearson Education, 4th Edition, 2006.
4. Sachin Malhotra, Saurabh Chaudhary, "Programming in Java", Oxford University Press, 5th Edition, 2010.

Online Learning Resources:

<https://java-ittd.vit/>

00551

3:16 PM | pzj-tohk-vyg

2024-07-08 14:52:46

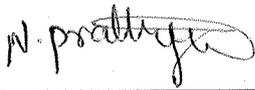
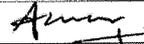
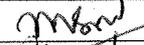
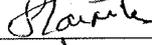
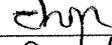
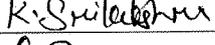
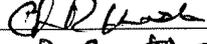
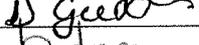
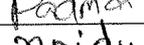
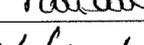
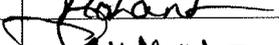
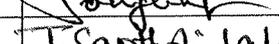
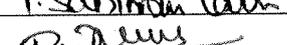
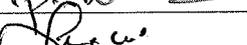
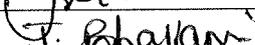
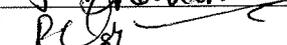
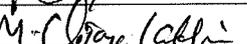
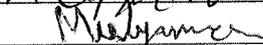
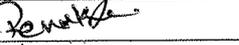
049:53

Activate Windows
Go to Settings to activate Windows.

ENG 12:06 PM
IN 7/10/2024

The interface also shows a sidebar with a video thumbnail for "Dadi Institute of Engineering & Technology" and a list of participants including "11 others" and "SAI KUMAR I".

Members Attended

S.No	Name of the member	Signature
1	Dr.K.Sujatha, HoD -CSE, Dadi Institute of Engineering & Technology	
2	Prof. D. Rajya Lakshmi, Professor of CSE & DE, JNTU-GV, Vizianagaram	
3	Dr S. Jhansi Rani, Associate Professor, Dept of CS & SE, Andhra University, Visakhapatnam	
4	Prof. P.V. Nageswara Rao, Professor, Dept. of CSE, Gandhi Institute of Technology & Management (GITAM) University, Visakhapatnam	
5	Sri.C. Uday Kumar's. Manager,IT&ERP Dept. Visakhapatnam Steel Plant, Visakhapatnam	
6	Mrs. Nalam Prathyusha, Sr. System Engineer, Infosys private Ltd.	
7	Dr. K. Amarendra	
8	Dr. M. Srinivasa Rao	
9	Mrs.M.Sharmila	
10	Mr. Ch. Nagabhushana Rao	
11	Mrs. K. Srilakshmi	
12	Mr.Ch.Dinesh	
13	Mrs. D. Geetanjali	
14	Mrs. K. U. V. Padma	
15	Mr.Ch. S. K. V. R Naidu	
16	Mr.K.Mohan Rao	
17	Mrs.P.Sowjanya	
18	Mrs. T. Santhoshi Lakshmi	
19	Mrs.P.Neeraja	
20	Mrs. P. Sreedevi	
21	Mrs.J.Bhavani	
22	Mr.P.Uday Bhaskar	
23	Mrs. M. Vijaya Lakshmi	
24	Mrs.G.Mutyalamma	
25	Mrs.B.Renuka	
26	Mrs.J.Dhana Lakshmi	

27	Mrs. V. Manasa	V. Manasa
28	Mrs. K. Visala	Visala
29	Mrs. T. Sujatha	T. Sujatha
30	Mrs. B.G. Poornima Himakethan	B. G. Poornima
31	Mr. N.S. Prasad	N. S. Prasad
32	Mrs. S. Manasa	S. Manasa
33	Mrs. Velamuri .Manasa	J. Manasa
34	Mrs. A. Revathi	A. Revathi
35	Mrs. P. Madhavi Latha	P. Madhavi
36	Mrs. P. V S Soujanya	P. V S Soujanya
37	Mrs. S. Venkata Lakshmi	S. Venkata
38	Mrs. D. Sharmila Ganga Devi	D. Sharmila
39	Mrs. B Dhana Lakshmi	B. Dhana
40	Mrs. P. Kumidini Devi	P. Kumidini
41	Mrs. Ch. L. Sowmitri	Ch. L. Sowmitri
42	Mrs. S. Pushpa	S. Pushpa
43	Mrs. Ch Gunna Lakshmi	Ch. Gunna
44	Ms. Tabassum	Tabassum
45	Ms B Reecha	B. Reecha
46	Ms K Satyavathi	K. Satyavathi

Agenda:

To approve the curriculum and syllabus of the II B.Tech, II M.Tech odd and even semester's Semester for Computer Science & Engineering course structure DR 23 and also approve I B.C.A & I M.C.A odd and even semester's for DR24 course structure & syllabi.

Points Discussed :

1. Discussed the proposed course structure and finalized the course structure and syllabus for II B.Tech and II M.Tech. for both odd and even semester's w.e.f. 2024-25 onwards. Proposed to include two additional Lab Programs in Object Oriented Programming through JAVA to syllabus prescribed by JNTUGV.
2. Discussed the proposed course structure for I B.C.A & I M.C.A for both odd and even semester's w.e.f. 2024-25 onwards.
3. Discussed about choosing electives from different pools.

Resolutions:

After thorough discussions, the following points have been resolved unanimously.

1. The Board authorized BOS Chairperson to approve the syllabus without further modifications in the framed course structure and syllabi for II B.Tech. & II M.Tech. (2024-2025) DR23 regulation.
2. The Board authorized BOS Chairperson to approve the syllabus without further modifications in the framed course structure and syllabi for I M.C.A & I B.C.A. (2024-2025) DR24 regulation.
3. The Board authorized to approve to include trending subjects in third and final years in Electives.



BOS Chairperson

COURSE STRUCTURE AND SYLLABUS

For PG –DR23

M. TECH. -COMPUTER SCIENCE & ENGINEERING

(Applicable for batches admitted from 2023-2024)



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

ANAKAPALLE-531002, Andhra Pradesh, India

III SEMESTER

S. No	Course Code	Course Component	Courses	L	T	P	C
1		PE	Program Elective-5 1. Deep Learning 2. Social Network Analysis 3. MOOCs-1 (NPTEL/SWAYAM) 12 Weeks Program related to the programme which is not listed in the course structure	3	0	0	3
	DR23MCSP5A						
	DR23MCSP5B						
	DR23MCSP5C						
2		OE	Open Elective 1. MOOCs- 2 (NPTEL/SWAYAM) - Any 12 Week Course on Engineering/ Management/ Mathematics offered by other than parent department 2. Course offered by other departments in the college	3	0	0	3
3	DR23MCSD31	PJ	Dissertation-I/ Industrial Project #	0	0	20	10
Total Credits							16

#Students going for Industrial Project / Thesis will complete these courses through MOOCs

IV SEMESTER

S.No	Course Code	Course Component	Courses	L	T	P	C
1	DR23MCSD41	PJ	Dissertation-II	0	0	32	16
Total Credits							16

Open Electives offered by the Department of CSE

1. Python Programming (DR23MCSO31)
2. Principles of Cyber Security (DR23MCSO32)
3. Internet of Things (DR23MCSO33)
4. Machine Learning (DR23MCSO34)
5. Digital forensics (DR23MCSO35)
6. Next Generation Databases (DR23MCSO36)

II Year – I Semester		L	T	P	C
		3	0	0	3
Deep Learning (DR23MCSP5A)					

Course Objectives:

At the end of the course, the students will be expected to:

- Learn deep learning methods for working with sequential data,
- Learn deep recurrent and memory networks,
- Learn deep Turing machines,
- Apply such deep learning mechanisms to various learning problems.
- Know the open issues in deep learning, and have a grasp of the current research directions.

Course Outcomes:

After the completion of the course, student will be able to

- Demonstrate the basic concepts fundamental learning techniques and layers.
- Discuss the Neural Network training, various random models.
- Explain different types of deep learning network models.
- Classify the Probabilistic Neural Networks.
- Implement tools on Deep Learning techniques.

UNIT I:

Introduction: Various paradigms of learning problems, Perspectives and Issues in deep learning framework, review of fundamental learning techniques. Feed forward neural network: Artificial Neural Network, activation function, multi-layer neural network.

UNIT II:

Training Neural Network: Risk minimization, loss function, back propagation, regularization, model selection, and optimization.

Conditional Random Fields: Linear chain, partition function, Markov network, Belief propagation, Training CRFs, Hidden Markov Model, Entropy.

UNIT III:

Deep Learning: Deep Feed Forward network, regularizations, training deep models, dropouts, Convolution Neural Network, Recurrent Neural Network, and Deep Belief Network.

UNIT IV:

Probabilistic Neural Network: Hopfield Net, Boltzmann machine, RBMs, Sigmoid net, Auto encoders.

UNIT V:

Applications: Object recognition, sparse coding, computer vision, natural language processing. Introduction to Deep Learning Tools: Caffe, Theano, Torch.

Text Books:

1. Goodfellow, I., Bengio, Y., and Courville, A., Deep Learning, MIT Press, 2016..
2. Bishop, C. ,M., Pattern Recognition and Machine Learning, Springer, 2006.

Reference Books:

1. Artificial Neural Networks, Yegnanarayana, B., PHI Learning Pvt. Ltd, 2009.
2. Matrix Computations, Golub, G.,H., and Van Loan,C.,F, JHU Press,2013.
3. Neural Networks: A Classroom Approach, Satish Kumar, Tata McGraw-Hill Education, 2004.

II Year-I Semester		L	T	P	C
		3	0	0	3
Social Network Analysis (DR23MCSP5B)					

Course Objectives:

The learning objective of the course Social Network Analysis is to provide students with essential knowledge of network analysis applicable to real world data, with examples from today’s most popular social networks.

Course Outcomes:

After the completion of the course, student will be able to

- Demonstrate social network analysis and measures.
- Analyze random graph models and navigate social networks data
- Apply the network topology and Visualization tools.
- Analyze the experiment with small world models and clustering models.
- Compare the application driven virtual communities from social network Structure.

UNIT I:

Social Network Analysis: Preliminaries and definitions, Erdos Number Project, Centrality measures, Balance and Homophily.

UNIT II:

Random graph models: Random graphs and alternative models, Models of network growth, Navigation in social Networks, Cohesive subgroups, Multidimensional Scaling, Structural equivalence, roles and positions.

UNIT III:

Network topology and diffusion, Contagion in Networks, Complex contagion, Percolation and information, Navigation in Networks Revisited.

UNIT IV:

Small world experiments, small world models, origins of small world, Heavy tails, Small Diameter, Clustering of connectivity, The ErdosRenyi Model, Clustering Models.

UNIT V:

Network structure -Important vertices and page rank algorithm, towards rational dynamics in networks, basics of game theory, Coloring and consensus, biased voting, network formation games, network structure and equilibrium, behavioral experiments, Spatial and agent-based models.

Text Books:

1. S. Wasserman and K. Faust. Social Network Analysis: Methods and Applications (Cambridge, Cambridge University Press, 1994)
2. D. Easley and J. Kleinberg, Networks, Crowds and Markets: Reasoning about a highly connected world-2010

Reference Books:

Social Network Analysis: Methods and Applications (Structural Analysis in the Social Sciences) by Stanley Wasserman, Katherine Faust, 1994.

II Year-I Semester		L	T	P	C
		3	0	0	3
Python Programming(DR23MCSO31)					

Course Objectives:

- To acquire programming skills in core Python.
- To acquire Object Oriented Skills in Python.
- To develop the skill of designing Graphical user Interfaces in Python.
- To develop the ability to write database applications in Python.

Course Outcomes (COs):

At the end of the course, student will be able to

- Understand and comprehend the basics of python programming.
- Demonstrate the principles of structured programming and be able to describe, design, implement, and test structured programs using currently accepted methodology.
- Explain the use of the built-in data structures list, sets, tuples and dictionary.
- Make use of functions and its applications.
- Identify real-world applications using oops, files and exception handling provided by python.

UNIT I:

Introduction: History of Python, Need of Python Programming, Applications Basics of Python Programming Using the REPL(Shell), Running Python Scripts, Variables, Assignment, Keywords, Input- Output, Indentation.

UNIT II:

Types, Operators and Expressions: Types - Integers, Strings, Booleans; Operators- Arithmetic Operators, Comparison (Relational) Operators, Assignment Operators, Logical Operators, Bitwise

Operators, Membership Operators, Identity Operators, Expressions and order of evaluations Control Flow- if, if-elif-else, for, while, break, continue, pass

UNIT III:

Data Structures-Lists-Operations, Slicing, Methods, Tuples, Sets, Dictionaries, Sequences, Comprehensions.

UNIT IV:

Functions - Defining Functions, Calling Functions, Passing Arguments, Keyword Arguments, Default Arguments, Variable-length arguments, Anonymous Functions, Fruitful Functions (Function Returning Values), Scope of the Variables in a Function - Global and Local Variables, Modules: Creating modules, import statement, from. Import statement, name spacing, Python packages, Introduction to PIP, Installing Packages via PIP, Using Python Packages

UNIT V:

Object Oriented Programming OOP in Python: Classes, 'self variable', Methods, Constructor Method, Inheritance, Overriding Methods, Data hiding, Error and Exceptions: Difference between an error and Exception, Handling Exception, try except block, Raising Exceptions, User defined Exceptions, Brief Tour of the Standard Library - Operating System Interface - String Pattern Matching, Mathematics, Internet Access, Dates and Times, Data Compression, Multithreading, GUI Programming, Turtle Graphics, Testing: Why testing is required ?, Basic concepts of testing, Unit testing in Python, Writing Test cases, Running Tests.

Text Books:

1. Fundamentals of Python First Programs, Kenneth. A. Lambert, Cengage
2. Introduction to Programming Using Python, Y. Daniel Liang, Pearson

Reference Books:

1. Introduction to Python Programming, Gowrishankar.S, Veena A, CRC Press
2. Think Python, Allen Downey, Green Tea Press
3. Core Python Programming, W. Chun, Pearson

II Year-I Semester		L	T	P	C
		3	0	0	3
Principles of Cyber Security(DR23MCSO32)					

Course Objectives:

- To learn threats and risks within context of the cyber security architecture.
- Student should learn and Identify security tools and hardening techniques.
- To learn types of incidents including categories, responses and timelines for response.

Course Outcomes:

At the end of the course, student will be able to

- Apply cyber security architecture principles.
- Describe risk management processes and practices.
- Appraise cyber security incidents to apply appropriate response
- Distinguish system and application security threats and vulnerabilities.
- Identify security tools and hardening techniques

UNIT I:

Introduction to Cyber security- Cyber security objectives, Cyber security roles, Differences between Information Security & Cyber security, Cyber security Principles-Confidentiality, integrity, & availability Authentication & non- repudiation.

UNIT II:

Information Security (IS) within Lifecycle Management-Lifecycle management landscape, Security architecture processes, Security architecture tools, Intermediate lifecycle management concepts, Risks & Vulnerabilities-Basics of risk management, Operational threat environments, Classes of attacks.

UNIT III:

Incident Response- Incident categories, Incident response Incident recovery, and Operational security protection: Digital and data assets, ports and protocols, Protection technologies, Identity and access Management, configuration management.

UNIT IV:

Threat Detection and Evaluation (DE): Monitoring- Vulnerability Management, Security Logs and Alerts, Monitoring Tools and Appliances. Analysis- Network traffic Analysis, packet capture and analysis

UNIT V:

Introduction to backdoor System and security-Introduction to metasploit, Backdoor, demilitarized zone(DMZ),Digital Signature, Brief study on Hardening of operating system.

Text Books:

1. NASSCOM: Security Analyst Student Hand Book Dec 2015.
2. Information Security Management Principles Updated Edition by David Alexander, Amanda Finch, David Sutton ,Published by BCS, June 2013.

Reference Books:

CSX- cyber security fundamentals 2 nd edition, Published by ISACA, Cyber security, Network Security, Data Governance Security.

II Year-I Semester		L	T	P	C
		3	0	0	3
Internet of Things(DR23MCSO33)					

Course Objectives:

After the completion of the course, student will be able to

- Summarize on the term 'internet of things' in different contexts.
- Analyze various protocols for IoT.
- Design a PoC of an IoT system using Raspberry Pi/Arduino • Apply data analytics and use cloud offerings related to IoT.
- Analyze applications of IoT in real time scenario

UNIT I:

FUNDAMENTALS OF IoT: Evolution of Internet of Things, Enabling Technologies, IoT Architectures, oneM2M, IoT World Forum (IoTWF) and Alternative IoT models, Simplified IoT Architecture and Core IoT Functional Stack, Fog, Edge and Cloud in IoT, Functional blocks of an IoT ecosystem, Sensors, Actuators, Smart Objects and Connecting Smart Objects.

UNIT II:

IoT PROTOCOLS: IT Access Technologies: Physical and MAC layers, topology and Security of IEEE 802.15.4, 802.15.4g, 802.15.4e, 1901.2a, 802.11ah and Lora WAN, Network Layer: IP versions, Constrained Nodes and Constrained Networks, Optimizing IP for IoT: From 6LoWPAN to 6Lo, Routing over Low Power and Lossy Networks, Application Transport Methods: Supervisory Control and Data Acquisition, Application Layer Protocols: CoAP and MQTT.

UNIT III:

DESIGN AND DEVELOPMENT: Design Methodology, Embedded computing logic, Microcontroller, System on Chips, IoT system building blocks, Arduino, Board details, IDE programming, Raspberry Pi, Interfaces and Raspberry Pi with Python Programming.

UNIT IV:

DATA ANALYTICS AND SUPPORTING SERVICES: Structured Vs Unstructured Data and Data in Motion Vs Data in Rest, Role of Machine Learning – No SQL Databases, Hadoop Ecosystem, Apache Kafka, Apache Spark, Edge Streaming Analytics and Network Analytics, Xively Cloud for IoT, Python Web Application Framework, Django, AWS for IoT, System Management with NETCONF-YANG.

UNIT V:

CASE STUDIES/INDUSTRIAL APPLICATIONS: Cisco IoT system, IBM Watson IoT platform, Manufacturing, Converged Plant wide Ethernet Model (CPwE), Power Utility Industry, Grid Blocks Reference Model, Smart and Connected Cities: Layered architecture, Smart Lighting, Smart Parking Architecture and Smart Traffic Control.

Text Books:

1.IoT Fundamentals: Networking Technologies, Protocols and Use Cases for Internet of Things, David Hanes, Gonzalo Salgueiro, Patrick Grossetete, Rob Barton and Jerome Henry, Cisco Press, 2017

Reference Books:

1. Internet of Things – A hands-on approach, Arshdeep Bahga, Vijay Madisetti, Universities Press, 2015
2. The Internet of Things – Key applications and Protocols, Olivier Hersent, David Boswarthick, Omar Elloumi and Wiley, 2012 (for Unit 2).
3. “From Machine-to-Machine to the Internet of Things – Introduction to a New Age of Intelligence”, Jan Ho” ller, Vlasios Tsiatsis, Catherine Mulligan, Stamatis, Karnouskos, Stefan Avesand. David Boyle and Elsevier, 2014.
4. Architecting the Internet of Things, Dieter Uckelmann, Mark Harrison, Michahelles and Florian (Eds), Springer, 2011.
5. Recipes to Begin, Expand, and Enhance Your Projects, 2nd Edition, Michael Margolis, Arduino Cookbook and O’Reilly Media, 2011.

II Year-I Semester		L	T	P	C
		3	0	0	3
Machine Learning(DR23MCSO34)					

Course Objectives:

Machine Learning course will

- Develop an appreciation for what is involved in learning from data.
- Demonstrate a wide variety of learning algorithms.
- Demonstrate how to apply a variety of learning algorithms to data.
- Demonstrate how to perform evaluation of learning algorithms and model selection.

Course Outcomes:

After the completion of the course, student will be able to

- Domain Knowledge for Productive use of Machine Learning and Diversity of Data. Demonstrate on Supervised and Computational Learning
- Analyze on Statistics in learning techniques and Logistic Regression Illustrate on Support Vector Machines and Perceptron Algorithm
- Design a Multilayer Perceptron Networks and classification of decision tree

UNIT-I:

Introduction-Towards Intelligent Machines, Well posed Problems, Example of Applications in diverse fields, Data Representation, Domain Knowledge for Productive use of Machine Learning, Diversity of Data: Structured / Unstructured, Forms of Learning, Machine Learning and Data Mining, Basic Linear Algebra in Machine Learning Techniques.

UNIT-II:

Supervised Learning- Rationale and Basics: Learning from Observations, Bias and Why Learning Works: Computational Learning Theory, Occam's Razor Principle and Overfitting Avoidance Heuristic Search in inductive Learning, Estimating Generalization Errors, Metrics for assessing regression, Metrics for assessing classification.

UNIT-III:

Statistical Learning- Machine Learning and Inferential Statistical Analysis, Descriptive Statistics in learning techniques, Bayesian Reasoning: A probabilistic approach to inference,

K-Nearest Neighbor Classifier. Discriminant functions and regression functions, Linear Regression with Least Square Error Criterion, Logistic Regression for Classification Tasks, Fisher's Linear Discriminant and Thresholding for Classification, Minimum Description Length Principle.

UNIT IV:

Support Vector Machines (SVM)- Introduction, Linear Discriminant Functions for Binary Classification, Perceptron Algorithm, Large Margin Classifier for linearly separable data, Linear Soft Margin Classifier for Overlapping Classes, Kernel Induced Feature Spaces, Nonlinear Classifier, Regression by Support vector Machines.

Learning with Neural Networks: Towards Cognitive Machine, Neuron Models, Network Architectures, Perceptrons, Linear neuron and the Widrow-Hoff Learning Rule, The error correction delta rule.

UNIT V:

Multilayer Perceptron Networks and error back propagation algorithm, Radial Basis Functions Networks. Decision Tree Learning: Introduction, Example of classification decision tree, measures of impurity for evaluating splits in decision trees, ID3, C4.5, and CART decision trees, pruning the tree, strengths and weakness of decision tree approach.

Text books:

Applied Machine Learning, 1st edition M.Gopal, Mc Graw Hill Education, 2018

References:

1. Kevin Murphy, Machine Learning: A Probabilistic Perspective, MIT Press, 2012
2. Trevor Hastie, Robert Tibshirani, Jerome Friedman, The Elements of Statistical Learning, Springer 2009 (freely available online)
3. Christopher Bishop, Pattern Recognition and Machine Learning, Springer, 2007.

II Year-I Semester		L	T	P	C
		3	0	0	3
Digital Forensics(DR23MCSO35)					

Course Objective:

- Provides an in-depth study of the rapidly changing and fascinating field of computer
- Combines both the technical expertise and the knowledge required to investigate, detect and prevent digital crimes.
- Knowledge on digital forensics legislations, digital crime, forensics processes and procedures, data acquisition and validation, e-discovery tools
- E-evidence collection and preservation, investigating operating systems and file systems, network forensics, art of steganography and mobile device forensics

Course Outcomes:

After completion of course, students would be

- Understand relevant legislation and codes of ethics
- Computer forensics and digital detective and various processes, policies and procedures
- E-discovery, guidelines and standards, E-evidence, tools and environment.
- Email and web forensics and network forensics

UNIT I:

Digital Forensics Science: Forensics science, computer forensics, and digital forensics, Computer Crime: Criminalistics as it relates to the investigative process, analysis of cyber-criminalistics area, holistic approach to cyber-forensics.

UNIT II:

Cyber Crime Scene Analysis: Discuss the various court orders etc., methods to search and seizure electronic evidence, retrieved and un-retrieved communications, Discuss the importance of understanding what court documents would be required for a criminal investigation.

UNIT III:

Evidence Management & Presentation: Create and manage shared folders using operating system, importance of the forensic mindset, define the workload of law enforcement, Explain what the normal case would look like, Define who should be notified of a crime, parts of gathering evidence, Define and apply probable cause.

UNIT IV:

Computer Forensics: Prepare a case, Begin an investigation, Understand computer forensics workstations and software, Conduct an investigation, Complete a case, Critique a case,
Network Forensics: open-source security tools for network forensic analysis, requirements for preservation of network data.

UNIT V:

Mobile Forensics: mobile forensics techniques, mobile forensics tools.
Legal Aspects of Digital Forensics: IT Act 2000, amendment of IT Act 2008, Recent trends in mobile forensic technique and methods to search and seizure electronic evidence.

Text Book:

1. John Sammons, 2e, The Basics of Digital Forensics, Elsevier, 2014

Reference Books:

1. Digital Forensics: The Fascinating world of digital evidences, 1st Edition, Nilakshi Jain, Dhananjay R. kalbande, wiley- 2016

II Year-I Semester		L	T	P	C
		3	0	0	3
Next Generation Databases (DR23MCSO36)					

Course Objectives:

- To explore the concepts of NoSQL Databases.
- To understand and use columnar and distributed database patterns.
- To learn to use various Data models for a variety of databases.

Course Outcomes:

Students will be able to:

- Explore the relationship between Big Data and NoSQL databases
- Work with NoSQL databases to analyze the big data for useful business applications.
- Work with different data models to suit various data representation and storage needs.

UNIT I:

Database Revolutions- System Architecture- Relational Database- Database Design Data Storage- Transaction Management- Data warehouse and Data Mining- Information Retrieval.

UNIT II:

Big Data Revolution- CAP Theorem- Birth of NoSQL- Document Database—XML Databases- JSON Document Databases- Graph Databases.

UNIT III:

Column Databases— Data Warehousing Schemes- Columnar Alternative- Sybase IQ- C Store and Vertica- Column Database Architectures- SSD and In-Memory Databases— In Memory Databases- Berkeley Analytics Data Stack and Spark.

UNIT IV:

Distributed Database Patterns— Distributed Relational Databases- Non-relational Distributed Databases- MongoDB - Sharing and Replication- HBase- Cassandra Consistency Models— Types of Consistency- Consistency MongoDB- HBase Consistency- Cassandra Consistency.

UNIT V:

Data Models and Storage- SQL- NoSQL APIs- Return SQL- Advance Databases— PostgreSQL- Riak- CouchDB- NEO4J- Redis- Future Databases— Revolution Revisited Counter revolutionaries- Oracle HQ- Other Convergent Databases- Disruptive Database Technologies.

Text Books:

1. "Next Generation Databases", 1st Edition, Guy Harrison, A press, 2015.

References Books:

1. Database System Concepts", Sixth Edition, Abraham Silberschatz, Henry F. Korth, S. Sudarshan, McGrawHill, 2010.
2. "Seven Databases in Seven Weeks", Eric Redmond, Jim R Wilson, LLC. 2012.
3. "NoSQL for Mere Mortals", Dan Sullivan, Addison-Wesley, 2015.
4. "NoSQL for Dummies ", Adam Fowler, John Wiley & Sons, 2015.

II Year-II Semester		L	T	P	C
		0	0	32	16
(DISSERTATION) DISSERTATION PHASE – I AND PHASE – II (DR23MCSD31 & DR23MCSD41)					

Syllabus Contents:

The dissertation / project topic should be selected / chosen to ensure the satisfaction of the urgent need to establish a direct link between education, national development and productivity and thus reduce the gap between the world of work and the world of study. The dissertation should have the following

- Relevance to social needs of society
- Relevance to value addition to existing facilities in the institute
- Relevance to industry need
- Problems of national importance
- Research and development in various domain The student should complete the following:
- Literature survey Problem Definition
- Motivation for study and Objectives
- Preliminary design / feasibility / modular approaches
- Implementation and Verification
- Report and presentation

The dissertation stage II is based on a report prepared by the students on dissertation allotted to them.

It may be based on:

- Experimental verification / Proof of concept.
- Design, fabrication, testing of Communication System.
- The viva-voce examination will be based on the above report and work.

Guidelines for Dissertation Phase – I and II at M. Tech. (Electronics):

- As per the AICTE directives, the dissertation is a yearlong activity, to be carried out and evaluated in two phases i.e. Phase – I: July to December and Phase – II: January to June.

- The dissertation may be carried out preferably in-house i.e. department's laboratories and centers OR in industry allotted through department's T & P coordinator.
- After multiple interactions with guide and based on comprehensive literature survey, the student shall identify the domain and define dissertation objectives. The referred literature should preferably include IEEE/IET/IETE/Springer/Science Direct/ACM journals in the areas of Computing and Processing (Hardware and Software), Circuits-Devices and Systems, Communication-Networking and Security, Robotics and Control Systems, Signal Processing and Analysis and any other related domain. In case of Industry sponsored projects, the relevant application notes, white papers, product catalogues should be referred and reported.
- Student is expected to detail out specifications, methodology, resources required, critical issues involved in design and implementation and phase wise work distribution, and submit the proposal within a month from the date of registration.
- Phase – I deliverables: A document report comprising of summary of literature survey, detailed objectives, project specifications, paper and/or computer aided design, proof of concept/functionality, part results, A record of continuous progress.
- Phase – I evaluation: A committee comprising of guides of respective specialization shall assess the progress/performance of the student based on report, presentation and Q &A. In case of unsatisfactory performance, committee may recommend repeating the Phase-I work.
- During phase – II, student is expected to exert on design, development and testing of the proposed work as per the schedule. Accomplished results/contributions/innovations should be published in terms of research papers in reputed journals and reviewed focused conferences OR IP/Patents.
- Phase – II deliverables: A dissertation report as per the specified format, developed system in the form of hardware and/or software, a record of continuous progress.
- Phase – II evaluation: Guide along with appointed external examiner shall assess the progress/performance of the student based on report, presentation

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS)
ANAKAPALLE-531002, VISAKHAPATNAM, Andhra Pradesh, India
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

- Phase – II deliverables: A dissertation report as per the specified format, developed system in the form of hardware and/or software, a record of continuous progress.
- Phase – II evaluation: Guide along with appointed external examiner shall assess the progress/performance of the student based on report, presentation and Q &A. In case of unsatisfactory performance, committee may recommend for extension or repeating the work Course Outcomes:
At the end of this course, students will be able to
 1. Ability to synthesize knowledge and skills previously gained and applied to an in-depth study and execution of new technical problem.
 2. Capable to select from different methodologies, methods and forms of analysis to produce a suitable research design, and justify their design.
 3. Ability to present the findings of their technical solution in a written report.
 4. Presenting the work in International/ National conference or reputed journals

M. S. Ch
(Dr. K. S. Ch) 8/7/25
Head of the Department
Computer Science & Engg
Dadi Institute of Engg. & Tech
Anakapalle-531002