OSMANIA UNIVERSITY

No.196/Stat./Acad/2022   Dated: March 2, 2022

To
The Principal,
University College of Engineering,
Osmania University.

Sub:- Osmania University: Revised Almanac of M.E./M.Tech. I Semester, B.E. III, V &
VII Semester Semesters & M.E. (All Branches) III Semester, B.E. I Semester for
the AY 2021-2022 -Approval – Communicated – Reg.

Ref:- Your Letter No. 297/DFE/2021/M.E/almanac dated: January 27, 2022.

***

Sir/Madam,

I am desired to communicate the approval of the University for the following M.E./M.Tech. I Semester, B.E. III, V & VII Semester Semesters & M.E. (All Branches) III Semester, B.E. I Semester for the academic year 2021-2022:

M.E./M.Tech. I Semester

1	Commencement of Classes (Offline mode)	22.11.2021
2	CIE (internal Test)-1	27.12.2021 to 29.12.2021
3	Display of CIE-1 Marks	03.01.2022
4	CIE (internal Test)-2	01.02.2022 to 05.02.2022
5	Last Date of Instruction	19.02.2022
6	Display of Total Sessional Marks	23.02.2022
7	Submission of Attendance to OU Exam Branch	22.02.2022
8	Submission of Sessional Marks to OU Exam Branch	26.02.2022
9	Commencement of Theory Examinations(SEE)	28.02.2022

B.E. III, V & VII Semester Semesters & M.E. (All Branches) III Semester

1	Commencement of Classes (Offline mode)	08.11.2021
2	CIE (internal Test)-1	13.12.2021 to 16.12.2021
3	Display of CIE-1 Marks	27.12.2021
4	CIE (internal Test)-2	01.02.2022 to 05.02.2022
5	Last Date of Instruction	05.02.2022
6	Display of Total Sessional Marks	08.02.2022
7	Submission of Attendance to OU Exam Branch	07.02.2022
8	Submission of Sessional Marks to OU Exam Branch	10.02.2022
9	Commencement of Theory Examinations(SEE)	13.02.2022
10	SEE practical examinations after the completion of theory SEE	

B.E. I Semester

1	Induction Programme (2 Weeks)	29.11.2021 to 10.12.2021
2	Commencement of Classes (Offline mode)	13.12.2021
3	CIE (internal Test)-1	01.02.2022 to 05.02.2022
4	Display of CIE-1 Marks	14.02.2022
5	CIE (internal Test)-2	03.03.2022 to 05.03.2022
6	Last Date of Instruction	11.03.2022
7	Display of Total Sessional Marks	16.03.2022
8	Submission of Attendance to OU Exam Branch	15.03.2022
9	Submission of Sessional Marks to OU Exam Branch	21.03.2022
10	Commencement of Theory Examinations(SEE)	28.03.2022
11	Practical Examination	After the completion of theory SEE

This is for your information

Yours Sincerely,

DEPUTY REGISTRAR
(Academic)

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Academic Calendar for I SEM of A.Y-2021-22

S. No	Date	Day	Event
1.	08-11-2021	Monday	Commencement of Class Work
2.	19-11-2021	Friday	Guru Nanak Jayanthi
3.	22/11/2021	Monday	**Completion of Unit 1**
4.	03/12/2021	Friday	**Comp2letion of Unit 2**
5.	First Week of December	Any Working Day	**Seminar on Career Guidance**
6.	13-12-2021 to 16-12-2021	Monday to Thursday	Continuous Internal Evaluation - I (CIE)
7.	Forth Week of December	Any Working Day	**Awareness Session about UPSC exam**
8.	22/12/2021	Wednesday	**Completion of Unit 3**
9.	25-12-2021	Saturday	Christmas
10.	26-12-2021	Sunday	Boxing Day
11.	Last Week of December	Any Working Day	**Interaction Session with Alumni Students**
12.	01-01-2022	Saturday	New year
13.	05/01/2022	Wednesday	**Completion of Unit 4**
14.	12-01-2022 to 15-02-2022	Wednesday to Saturday	**Pongal Holidays**
15.	25/01/2022	Tuesday	**Completion of Unit 5**
16.	26/01/2022	Wednesday	Republic Day
17.	02-02-2022 to 05-02-2022	Wednesday to Saturday	Continuous Internal Evaluation - II (CIE)
18.	05-02-2022	Saturday	Last date of Instruction
19.	10-02-2022	Tuesday	Display of Sessional Marks on or Before
20.	14-02-2022	Monday	Commencement of Theory Examinations
21.	14-03-2022	Monday	**Commencement of II SEM Class Work**

H.O.D
HEAD-Mechanical Engineering Department
Methodist College of Engg & Tech
King Koti, Hyderabad-500 001

CSE , AI&DS Programmes 2021-2022 Faculty Subject Preference Form(I Sem , III Sem , V Sem ,VII Sem)

Dear All

Greetings

All the faculties are hereby informed to fill the odd semester subject preference form ASAP
.

The curriculum followed for various semesters are as follows :
I Sem - CSE , AI & DS -Autonomous
III Sem - CSE , AI & DS - AICTE(New)
V sem & VIII Sem - CSE - AICTE

Regards
Dr P Lavanya
HOD-CSE

hodcse@methodist.edu.in Switch accounts

*Required

Email *

Your email address

Name *

Your answer

Phone no *

Your answer

Willing to continue next Semester *

○ Yes

○ No

Total Experience *

Your answer

Experience in Methodist *

Your answer

Subjects taught Previously *

Your answer

○ Programming for Problem Solving(Theory + Lab)

Option - II *

☐ Data structures and Algorithms(Theory + Lab)

☐ Discrete Mathematics(Theory)

☐ OOP using JAVA(Theory + Lab)

☐ Adv.Computer Skills(Lab)

Option - III *

☐ Software Engineering(Theory+Lab)

☐ Operting Systems(Theory+Lab)

☐ Automata Language &Computation(Theory)

Option - IV *

☐ Information Security(Theory)

☐ Datascience Using R(Theory+Lab)

☐ Distributed Systems(Theory+Lab)

Profession Elective - I *

○ Artificial Intelligence

○ Advanced Computer Architecture

○ Image Processing

Head of the Department
Department of CSE
Methodist Coll

Profession Elective-II *

○ Web Technologies

○ Embedded Systems

○ Graph Theory

○ Data Analytics

Profession Elective - III *

○ Block Chain Technologies

○ Information Retrieval Systems

○ Soft Computing

○ Computer Graphics

Open Elective-I

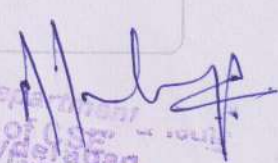○ Data Science and Data Analytics

○ Cyber Security

Research Area / Project Domain *

Your answer

Project Work Co coordinators *

Choose ▼

CISCO Courses

◯ Python

◯ IOT

◯ CCNA Module 1 + Module 2

◯ Cyber Security

◯ Linux
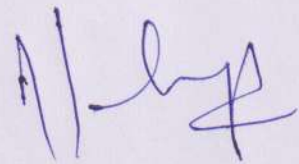
Submit   Clear form

Google Forms

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CSE , AI&DS 2021-2022 Summary of Faculty   Subject Preference Details(I Sem , III Sem , V Sem ,VII Sem)

Email address	Name	Phone no	Subjects taught Previously	Option - 1	Option - II	Option - III	Option - IV	Profession Elective - I	Profession Elective- II	Profession Elective - III	Open Elective-I
lavanya.post@gmail.com	Dr.Lavanya Pamulaparty	8985042735	OS,ML,PPS, Java,DS,ALC, IRS	Programming for Problem Solving(Theory + Lab)	OOP using JAVA(Theory + Lab)	Operting Systems(Theory+Lab)	Datascience Using R(Theory+Lab)	Artificial Intelligence	Data Analytics	Information Retrieval Systems	Data Science and Data Analytics
pravinthumukunta@gmail.com	T PRAVEEN KUMAR	9885456186	DS, DM, JAVA, DAA, DBMS, PPS , AI	Programming for Problem Solving(Theory + Lab)	Data structures and Algorithms(Theory + Lab)	Operting Systems(Theory+Lab)	Datascience Using R(Theory+Lab)	Artificial Intelligence	Data Analytics	Information Retrieval Systems	Data Science and Data Analytics
rsd.sandeep@gmail.com	Er Sandeep Ravikanti	8074330471			Adv.Computer Skills(Lab)	Software Engineering(Theory+ Lab)	Information Security(Theory)	Advanced Computer Architecture	Web Technologies	Block Chain Technologies	Cyber Security
malekaanjum786@gmail.com	Maleka Anjum	636294110	Nill		Data structures and Algorithms(Theory + Lab)	Operting Systems(Theory+Lab)	Information Security(Theory)	Artificial Intelligence	Web Technologies	Block Chain Technologies	
mkrishnamurty@gmail.com	M Krishnamurty	9441427954	AI, SE, ML, CC		Adv.Computer Skills(Lab)	Software Engineering(Theory+ Lab)	Information Security(Theory)	Artificial Intelligence	Data Analytics	Soft Computing	
aruna0949@gmail.com	Aruna Mailavaram	+917093863977	Data Analytics, I oT		Adv.Computer Skills(Lab)	Software Engineering(Theory+ Lab)	Datascience Using R(Theory+Lab)	Advanced Computer Architecture	Data Analytics	Information Retrieval Systems	Data Science and Data Analytics
Shaziyajabeen@gmail.com	Shaziya jabeen	+919640076786	Os.daa, Cn, c++.		Data structures and Algorithms(Theory + Lab)	Operting Systems(Theory+Lab)	Information Security(Theory)	Advanced Computer Architecture	Web Technologies	Information Retrieval Systems	Cyber Security
vasavibvs@gmail.com	VASAVI SRAVANTHI BALUSA	08500088390	DBMS, R Programming, Web Technologies, Linux Programming, Cloud computing, c, Java		Adv.Computer Skills(Lab)	Automata Language &Computation(Theory)	Datascience Using R(Theory+Lab)	Artificial Intelligence	Web Technologies	Block Chain Technologies	
deepthijayam@gmail.com	Deepthi Joshi	8019485585	Software Engineering, UML, Data Mining		Adv.Computer Skills(Lab)	Software Engineering(Theory+ Lab)	Information Security(Theory)	Artificial Intelligence	Data Analytics	Soft Computing	
j.soumya25@gmail.com	J.SOWMYA	9133402803	CO, DCCN, Cryptography of Computer Networks, Cloud computing		OOP using JAVA(Theory + Lab)	Software Engineering(Theory+ Lab)	Information Security(Theory)	Artificial Intelligence	Web Technologies	Block Chain Technologies	Cyber Security
shruthi.sk2011@gmail.com	Dr.Shruthi SK	9640438111	Mobile Application Development,PPS,Software Testing Methodology,DBMS,C and Data structures,OOPs		OOP using JAVA(Theory + Lab)	Operting Systems(Theory+Lab)	Information Security(Theory)	Artificial Intelligence	Data Analytics	Information Retrieval Systems	Cyber Security
saritha760@gmail.com	G.Saritha	7893221209	Information security,computer networks,distributed systems,operating systems,software engineering,artificial intelligence.		Data structures and Algorithms(Theory + Lab)	Software Engineering(Theory+ Lab)	Information Security(Theory)	Artificial Intelligence	Data Analytics	Soft Computing	Cyber Security
adeprajesh@gmail.com	ADEPU RAJESH	9177996499	PPS (Programming for Problem Solving)	Programming for Problem Solving(Theory + Lab)	OOP using JAVA(Theory + Lab)	Operting Systems(Theory+Lab)	Information Security(Theory)	Artificial Intelligence	Data Analytics	Information Retrieval Systems	Data Science and Data Analytics
unnati.khanapurkar@gmail.com	UNNATI KHANAPURKAR	09652683857	CN, ALC,PPS,DISCRETE MATHS, CO, COMPILER CONSTRUCTION, CG, EMBEDDED SYSTEM,NETWORK SECURITY, OOPS USING JAVA,LST		OOP using JAVA(Theory + Lab)	Automata Language &Computation(Theory)	Information Security(Theory)	Artificial Intelligence	Graph Theory	Computer Graphics	Cyber Security

Email	Name	Phone	Subjects									
sowjanyayk6data@gmail.com	Mrs B Sowjanya	9948125333	CN,PPS,OOP USING JAVA,OS, LST,IRS,WEB TECHNOLOGY,		OOP using JAVA(Theory + Lab)	Operting Systems(Theory+Lab)	Information Security(Theory)	Artificial Intelligence	Web Technologies	Computer Graphics	Cyber Security
rajshekardeva@gmail.com	Rajashekar D	09491827322	ML, lrs, dm, data science, sqat, cn, oosd, dc, dbms, wt, cpps,		Adv.Computer Skills(Lab)	Software Engineering(Theory+ Lab)	Datascience Using R(Theory+Lab)	Artificial Intelligence	Data Analytics	Information Retrieval Systems	Data Science and Data Analytics
sharada.mangipudi07@gmail.com	Dr. M Sharada	9912106100	PPS,DBMS,CN,MC,D M	Programming for Problem Solving(Theory + Lab)	OOP using JAVA(Theory + Lab)	Operting Systems(Theory+Lab)	Information Security(Theory), Datascience Using R(Theory+Lab)	Artificial Intelligence	Data Analytics	Block Chain Technologies	
pvrcseit@gmail.com	P V RAMANAIAH	9010201236	C,CPP,PL,OOP USING JAVA,DS,DBMS,DAA ,ALC,PYTHON,		Adv.Computer Skills(Lab)	Automata Language &Computation(Theory)	Information Security(Theory)	Image Processing	Data Analytics	Soft Computing	
hemanth.sandapaga@gmail.com	S V HEMANTH	8087901888	CN,SE,C,OOM,OS,D BMS,Python	Programming for Problem Solving(Theory + Lab)	OOP using JAVA(Theory + Lab)	Software Engineering(Theory+ Lab), Operting Systems(Theory+Lab)	Information Security(Theory), Datascience Using R(Theory+Lab)	Image Processing	Data Analytics	Soft Computing	Data Science and Data Analytics
drvuppu@gmail.com	Dr Vuppu Padmakar	09963351922	CC DS Discreet structure pps pl DBMS		Discrete Mathematics(Theory)	Software Engineering(Theory+ Lab)	Information Security(Theory)	Advanced Computer Architecture	Embedded Systems	Information Retrieval Systems	
rajesh.adluri532@gmail.com	A Rajesh	9963430986	Design & Analysis of Algorithms, Discrete Mathematics, Compiler Construction & Programming for Problem Solving		OOP using JAVA(Theory + Lab)	Automata Language &Computation(Theory)	Information Security(Theory)	Image Processing	Graph Theory	Block Chain Technologies	

Department of Computer Science and Engineering
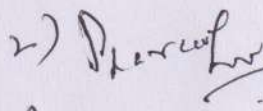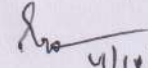
Date:-04-10-2021

Circular

All the faculties are hereby informed there will be a all staff meeting 05-10-2021 in R&D lab from 2:30PM to 3:30PM. I request everyone to attend it without fail. The following is the agenda of the meeting.
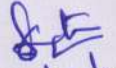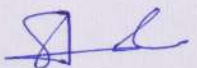
Agenda:

1. Subject Allocation
2. Coordinators Allocation
3. Value added Courses Discussion
4. Lab-Incharge allocation
5. Non-Teaching Lab staff Subject Allocation
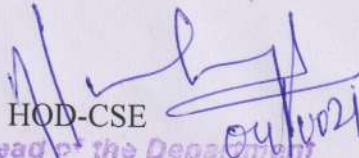6. Any other discussion with the permission of the undersigned

HOD-CSE

Head of the Department
Department of CSE
Methodist College of Engg & Tech
Abids, Hyderabad.

1). Unnati K   04/10/21

2) Bhavana   4/10/2021

3] Sandeep   4/10/21

4) Cp. Savitha   4/10/21
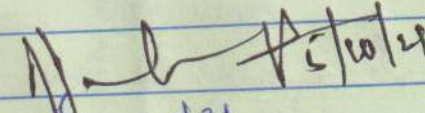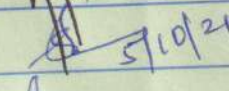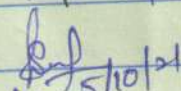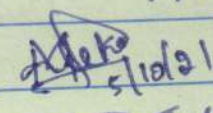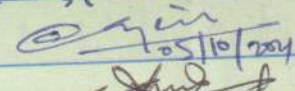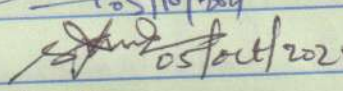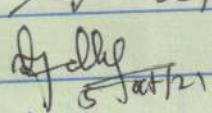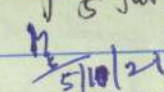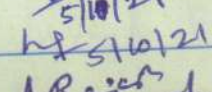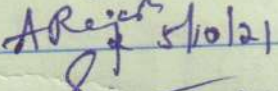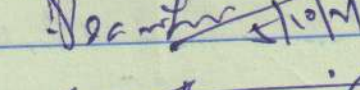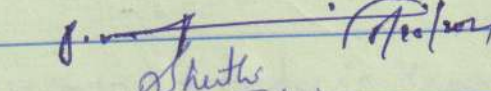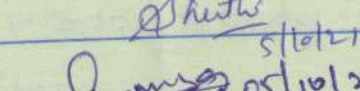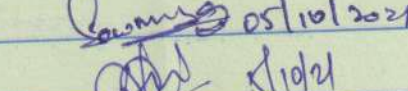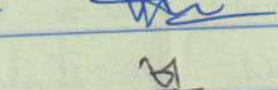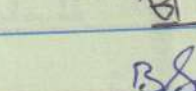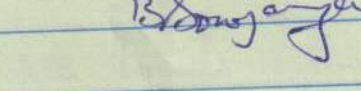
5) Dn. Syed Azahad   4/10/21
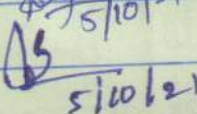
Department Meeting

A department level meeting was held to discuss subject and for next semester [odd semester 21-22] at 2:30 PM in R&D lab [E block - lab VI]

Members:

1. Dr. P Lavanya —
2. Dr. M. Sharada — 5/10/21
3. B. Vasavi Sravanthi — 5/10/21
4. Shaziya Jabeen — 5/10/21

5. Maleka Anjum — 5/10/21
6. ADEPU RAJESH — 05/10/2021
7. S. Sunil Kumar — 05/oct/2021
8. G. Mahendhar — 5/oct/21
9. M. Krishnamurty — 5/10/21
10. Dr. V. Padmakar — 5/10/21
11. Mr. A. Rajesh — 5/10/21
12. Sandeep — 5/10/21
13. T. Praveen Kumar — 5/10/21
14. P.v. Ramanaiah — 5/10/2021
15. Dr. Shruthi SK — 5/10/21
16. J. Soumya — 05/10/2021
17. Deepthi Joshi — 5/10/21
18. M. Aruna —
19. Unnati K —
20. B Sowjanya —

Agenda of the meeting

1. Subject allocation for Odd Semester for A.Y 2021-22.
for CSE and AIDS branches.
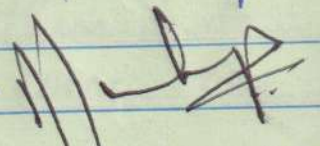
① Subject Allocation
② Co-ordinators Allocation
③ Value Added Courses Discussion
④ Assesment Committee will be giving the Submission deadlines
⑤ Mentoring cell.
⑥ Lab-Incharge Allocation
⑦ Non-Teaching Lab Staff Subject Allocation
⑧ Any other discussion With the Permission of the Undersigned.

→ HOD madam Asked to do Certification for Student & faculties
Under Value added Courses like Spoken Tutorial and CISCO

② CCNA module 1&2 Should be Started and in
II nd year and Devnet Program in III rd Year
③ Lab Programmers were assigned with Lab Subject
④ Coordinator were Motivated and Assigned duties
Time Table → Mr. T Praveen Kumar / T. Sowmya.

⑤ Course files of 2021-2022 Academic Year Should be
Submitted to Criteria II.

⑥ HOD Madam Asked to Use ICT tools for Teaching.
⑦ Mentoring with Students and were discussed & Some points
were Highlighted.
① Communication With Parents / Students.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DATE:08-11-2021

S. No	Faculty name	Subjects	Work load	Coordinators/ In charges
1.	Dr. P. Lavanya Prof. & HOD	DSRVII SEM-A-5 DSR LAB-VII SEM A-6	11	1. HOD
2.	Dr M Sharadha varalakshmi Professor	OS-B: 5 OS LAB: 4 PPS: 4	13	1.Finance 2.Grievances Cell Coordinator 3.IQAC 4. Mentor
3.	Dr. V. Padmakar Asoc. Prof.	DM-A: 5 DIS-B: 5 DIS LAB- 8	18	1. Mentor.
4.	Mr A Rajesh Asoc. Prof.	DIS-A : 5 ALC-B :5 DIS LAB : 8	18	1. Exam Branch 2. Mentor
5.	Mr. T. Praveen Kumar Asst. Prof	DSRVII SEM-B-5 DSR LAB-VII SEM B-6 PW-A: 2 PW-B: 3	16	1. Digital learning Platform 2. Mentor. 3. Professional Society
6.	Mr. D. Raja Shekar Asst. Prof.	JAVA-4 BC/IRS-4 JAVA LAB-4 ACS LAB-4	16	1. Department Assessments Committee Member. 2. Mentor.
7.	Er. Sandeep R Asst. Prof.	SE-A : 5 SE LAB: 4 DSA LAB: 4 MP : 4	17	1. Member of Website . 2. Coordinator of Alumni Cell. 3. Mentor. 4. Professional Society
8.	Mr. Uday Kumar Asst. Prof.	PPS LAB(CSE) - 8 PPS LAB(AI & DS) - 8	16	1. Mentor

CSE STAFF WORKLOAD (2021-22 ODD SEMESTER)

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DATE:08-11-2021

9.	Mrs. B. Sowjanya Asst. Prof.	JAVA-5 JAVA LAB-4 JAVA LAB(AI&DS)-4 MP-4	17	1. Coordinator of Library Cell. 2. Member of Student Welfare Cell. Cultural Activities. 3. Mentor. 4. Department Assessments Committee Member
10.	Mr. P.V. Ramanaiah Asst. Prof.	DSA: 4 DSA LAB-4 PW: 10	18	1. Time Table 2. Mentor
11.	Mrs. G.Saritha Asst. Prof.	DSA-B: 5 AI-B: 4 DSA LAB : 8	17	1.Electrical&Network cell 2. Mentor
12.	Mrs. Unnati K. Asst. Prof.	JAVA-B: 5 JAVA LAB-8 DM-4	17	5. Professional Society 6. Labs 3. Mentor. 4. CISCO
13.	Mr. Krishnamurthy Asst. Prof	ACS LAB-4 DA-4 MP-8	16	1. Member of Student Counseling & Mentoring Cell. 2. IEDC 3. Mentor.
14.	Mrs C. Sravanthi Asst. Prof.	JAVA LAB-8 DSR LAB-VII SEM B-12	20	1. Mentor.
15.	Mrs J.Sowmya Asst. Prof	DM-4 DSR-6 PPS-4 PPS LAB- 4	18	2. Mentor 2. Time Table
16.	Dr S K Shruthi Asst. Prof	IS-10 JAVA LAB-4 CISCO-2	16	1. Placement Coordinator(TPO) 2. Press
17.	Mrs Deepthi joshi Asst. Prof.	SE-5 AI-5 SE LAB-4	14	1.Admission cell
18.	Mrs Vasavi Sravanthi Asst. Prof.	ALC-4 SE LAB-4 PPS-4 PPS LAB- 4	16	1.Exam Branch
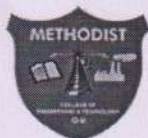
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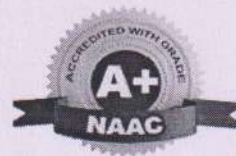
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DATE:08-11-2021

19.	Ms.Mariya Anjum Asst. Prof	BC-4 ACS LAB-8	12	1. Mentor.
20.	Mrs Shaziya Jabeena Asst. Prof.	DSA-5 DM-B:5 DSA LAB-8	18	1.Professional Society – CSI .
21.	Ms. A. Lalitha Asst. Prof.	ACS LAB-8 DSA LAB-4 SE LAB-8	20	1. Mentor.
22.	Dr. Syed Azahad	OS-A-5 CS-OE2-4 OS LAB-8	17	Electrical&Network cell
23.	Mr. Shaik Rasool	WT-4 SE LAB-4 PPS-4 PPS LAB- 4	16	Placement Coordinator(TPO)

HOD-CSE

Head of the Department
Department of CSE
Methodist College of Engg & Tech
Abids, Hyderabad.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Faculty Individual Time Table

Faculty Name: Dr. Shruthi(16)   **A.Y: 2021 - 2022**   **Semester: VII**   **W. E. F. 08 – 11– 2021**

Period/ Day	1	2	3	12:30 – 01:15	4	5	6	7
	9:30 – 10:30	10:30 – 11:30	11:30 – 12:30		01:15 – 02:15	02:15 – 03:15	03:15 – 04:15	04:15 – 05:00
Monday			IS-B		IS-A	IS-A		
Tuesday	IS-B	IS-B			IS-A			
Wednesday				LUNCH	IS-B	JAVA-B2		
Thursday	IS-A			BREAK		CISCO		
Friday		JAVA-B1					IS-B	
Saturday	IS-A							

S. NO	COURSE CODE	COURSE NAME	CLASS	Additional Responsibilities
1	PC 701 CS	IS – Information Security	VII Semester BE CSE – A,B	1. Placement Coordinator 2. Prem

Faculty
Dept. of Computer Science
Methodist College of Engg. & Tech.
ling Koti, Hyderabad.

Head of Department
Head of the Department
Department of CSE
Methodist College of Engg. & Tech.
Abids, Hyderabad.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE DESCRIPTION FILE

Academic Year & Semester	2021-2022
Course Code	PC 701 CS
Course Title	INFORMATION SECURITY
Curriculum Regulation	AICTE
Semester	VII
Course Instructor	Dr.Shruthi SK, Assistant Professor, CSE Department

I. PREREQUISITE(S):

Level	Credits	Semester	Prerequisites
UG	3	7	--

II. SCHEME OF INSTRUCTIONS

Lectures	Tutorials	Practicals	Credits
3	-	-	3

III. SCHEME OF EVALUATION & GRADING

S. No	Component	Duration	Maximum Marks
	Continuous Internal Evaluation (CIE)		
1.	Internal Examination – I	60 minutes	20
2.	Internal Examination - II	60 minutes	20
	Average of the two internal exams		20
3.	Assignments	-	5
4.	Quizzes	-	5
	CIE (Total)		30
5.	**Semester End Examination** (University Examination)	3 hours	70
		TOTAL	100

Marks Range	85-100	70 to < 85	60 to < 70	55 to < 60	50 to < 55	40 to < 50	< 40	Absent
Grade	S	A	B	C	D	E	F	Ab
Grade Point	10	9	8	7	6	5	0	

Course Code	Course Title						Core / Elective
PC 701 CS	**Information Security**						**Core**
Prerequisite	Contact Hours per Week				CIE	SEE	Credits
	L	T	D	P			
-	3	1	-	-	30	70	3

Course Objectives
- ➢ To learn legal and technical issues in building secure informationsystems
- ➢ To provide an understanding of networksecurity
- ➢ To expose the students to security standards andpractices

Course Outcomes
After completing this course, the student will be able to
1. Describe the steps in Security Systems development life cycle(SecSDLC)
2. Understand the common threats and attack to informationsystems
3. Understand the legal and ethical issues of informationtechnology
4. Identify security needs using risk management and choose the appropriate risk control strategy based on businessneeds
5. Use the basic knowledge of security frameworks in preparing security blue print for theorganization
6. Usage of reactive solutions, network perimeter solution tools such as firewalls, host solutions such as antivirus software and Intrusion Detection techniques and knowledge of ethical hackingtools
7. Use ethical hacking tools to study attack patterns and cryptography and secure communication protocols
8. Understandthetechnicalandnon-technicalaspectsofsecurityprojectimplementationand accreditation

UNIT-I
Introduction: History, Critical Characteristics of Information, NSTISSC Security Model, Components of an Information System, Securing the Components, Balancing Security and Access,
The SDLC, The Security SDLC.
Need for Security: Business Needs, Threats, Attacks, and Secure Software Development

UNIT-II
Legal, Ethical and Professional Issues: Law and ethics in Information Security, Relevant U.S. Laws, International Laws and Legal Bodies, Ethics and Information Security.
Risk Management: Overview, Risk Identification, Risk Assessment, Risk Control Strategies, selecting a Risk Control Strategy, Quantitative versus Qualitative Risk Control Practices, Risk Management Discussion Points, Recommended Risk Control Practices.

UNIT-III
Planning for Security: Security policy, Standards and Practices, Security Blue Print, Security Education, Continuity strategies.
Security Technology: Firewalls and VPNs: Physical Design, Firewalls, Protecting Remote connections.

UNIT-IV
Security Technology: Intrusion Detection, Access Control, and other Security Tools: Intrusion Detection and Prevention Systems-Scanning, and Analysis Tools- Access Control Devices.
Cryptography: Foundations of Cryptology, Cipher methods, Cryptographic Algorithms, Cryptographic Tools, Protocols for Secure Communications, Attacks on Cryptosystems

UNIT-V

Implementing Information Security: Information security project management, Technical topics of implementation, Non-Technical Aspects of implementation, Security Certification and Accreditation.
Information Security Maintenance: Security management models, Maintenance model
Short case studies in Cryptography and Security: Secure Multi party calculation, Virtual Elections, Single Sign On, Secure Inter Branch Payment transactions, Cross site scripting vulnerability **(Book 2)**

Suggested Readings:
Prescribed Books

1. Michael E Whitman and Herbert J Mattord, *Principles of Information Security*, Cengage Learning, 6 th Edition 2018
2. Atulkhate, Cruptographu and Network Security" 4 th edition , Tata McGraw Hill . 2019

Reference Books:

3. Nina Godbole, "Information Systems Security: Security Management, Metrics, Frameworks and Best Practices" Second Edition, WILEY 2017
4. Gupta Sarika, "Information and Cyber Security", Khanna Publishing House, Delhi
5. V.K. Pachghare, "Cryptography and Information Security", PHI Learning

IV. SYLLABUS

Unit	Syllabus Description	Target Hours
I	**Introduction:** History, Critical Characteristics of Information, NSTISSC Security Model, Components of an Information System, Securing the Components, Balancing Security and Access, The SDLC, **The Security SDLC. Need for Security:** Business Needs, Threats, Attacks, and Secure Software Development	12
II	**Legal, Ethical and Professional Issues:** Law and ethics in Information Security, Relevant U.S. Laws, International Laws and Legal Bodies, Ethics and Information Security. **Risk Management:** Overview, Risk Identification, Risk Assessment, Risk Control Strategies, selecting a Risk Control Strategy, Quantitative versus Qualitative Risk Control Practices, Risk Management Discussion Points, and Recommended Risk Control Practices.	12
III	**Planning for Security:** Security policy, Standards and Practices, Security Blue Print, Security Education, Continuity strategies. **Security Technology:** Firewalls and VPNs, Physical Design, Firewalls, Protecting Remote connections.	10
IV	**Security Technology:** Intrusion Detection, Access Control, and other Security Tools: Intrusion Detection and Prevention Systems-Scanning, and Analysis Tools- Access Control Devices. **Cryptography:** Foundations of Cryptology, Cipher methods, Cryptographic Algorithms, Cryptographic Tools, Protocols for Secure Communications, Attacks on Cryptosystems	8
V	**Implementing Information Security:** Information security project management, Technical topics of implementation, Non-Technical Aspects of implementation, Security Certification and Accreditation. **Information Security Maintenance:** Security management models, Maintenance model **Short case studies in Cryptography and Security:** Secure Multi party calculation, Virtual Elections, Single Sign On, Secure Inter Branch Payment transactions, Cross site scripting vulnerability (Book 2)	8
	Total	
		48

SuggestedReading:

1. Michael E Whitman and Herbert J Mattord, Principles of Information Security, Cengage Learning, 6 th Edition 2018
2. Atulkhate, Cruptography and Network Security" 4th edition, Tata McGraw Hill, 2019 Brian W.
3. Nina Godbole, "Information Systems Security: Security Management, Metrics, Frameworks and Best Practices" Second Edition, WILEY 2017
4. Gupta Sarika, "Information and Cyber Security", Khanna Publishing House, Delhi
5. V.K. Pachghare, "Cryptography and Information Security", PHI Learning

V.   E – RESOURCES

1. https://www.tutorialspoint.com/information-security
2. https://www.geeksforgeeks.org/what-is-information-security/
3. https://www.information-security.com

V. COURSE OBJECTIVES:

Course Overview: In this course students learn basics of information security, in both management aspect and technical aspect. Students understand of various types of security incidents and attacks, and learn methods to prevent detect and react incidents and attacks. Students will also learn basics of application of cryptography which are one of the key technologies to implement security functions.

The objectives of this course are to impart to the following to the students:

- To learn legal and technical issues in building secure informationsystems
- To provide an understanding of networksecurity
- To expose the students to security standards andpractices

VI. COURSE OUTCOMES

After completing this course the student will be able to:

CO No.	Course Outcome	Taxonomy Level
PC701CS.1	Demonstrate the importance of IS ,role of IS professionals and various phases involved in Sec SDLC	Remembering
PC701CS.2	Understand the common threats and attacks of Information Security	Understanding
PC701CS.3	Identify security needs using risk management and choose the appropriate risk control strategy based on business needs.	Analyzing
PC701CS.4	Usage of reactive solutions, network perimeter solution tools such as firewalls, host solutions such as antivirus software and Intrusion Detection techniques	Understanding
PC701CS.5	Develop an understanding of security policies (such as authentication , integrity and confidentiality), as well as protocols to implement such policies in the form of message exchanges	Applying
PC701CS.6	Understand the technical and non-technical aspects of security project implementation and accreditation.	Analyzing

VII. MAPPING OF COs WITH POs & PSOs

Correlation Level: High – 3; Medium – 2; Low – 1

PO / CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
PC701 CS.1	2	3	1	1	3	3	3		1		2	-	2	1	2
PC701 CS.2		1	1	2	2	1	2			1			3	-	2
PC701 CS.3	3	2	2			2	2				1	-	3	-	
PC701 CS.4	3	1	2	2	3	2	2		1			-	2	1	
PC701 CS.5	3		2	2		2	2	2	1	1	1	-	3	2	1
PC701 CS.6		2	2	2	3	2	2								
PC701 CS	2.7	1.8	1.6	1.8	2.7	2	2.1	1	1	1	1.3	-	2.6	1.3	1.6

Gaps identified based on the mapping:

1. The syllabus covers theory, concepts and framework related to engineering knowledge. The Program Outcomes 3,6to12 are not directly addressed.

Plan of Action / Corrective measures:

1) Teaching the software quality concepts through ppts and virtual learning sites, will help in using modern ICT tools in learning the subject effectively. The following websites are provided for the students to watch and learn. This addresses PO3

https://www.information-security.com

https://www.tutorialspoint.com/information security/index.htm

2) Teaching of professional ethics can be integrated in the course by encourage to students to do the assignments and quizzes honestly and to teach them to report the experimental observation without manipulation.

3) Team work and technical communication is encouraged by giving the student group assignments and group tasks to solve a complex problem in parts.

Revised Mapping closing the gaps:

PO / CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
PC701 CS.1	3	2	3	1	2	2	2					-	2	1	1
PC701 CS.2	3	3	1	2	3	3	2	3		3			3	-	3
PC701 CS.3	3	3			3	2	2				3	-	3	-	
PC701 CS.4	3	1	3	3	3	2	3		3		3	-	2	3	
PC701 CS.5	3	3	2	2	3	3	3	1	2	2	1	-	3	2	1
PC701 CS.6	2	2	2	3	3	3	2	2	2	2			3		
PC701 CS	2.8	2.3	2.2	2.2	2.8	2.5	2.3	1	2.3	2.3	2.3	-	2.6	2	1.6

CO-PO/PSO mapping Justification

Mapped POs& PSOs (Direct):   PO1, PO2, PO3, PO4,.

Mapped POs& PSOs (Corrective measures): PO5,PO6,PO7, PO8, P09, PO10,PO11

Course outcomes:

PC701CS.1 Demonstrate the importance of IS ,role of IS professionals and various phases involved in Sec SDLC(**Remembering**)

	Mapping Level	Justification
PO1	3	Definitions of all types of testing types,such as white box,black box are foundational principles of Software verification and validation and directly contribute to engineering knowledge.
PO2	2	The above definitions are directly supportive in understanding the problem analysis.
PO3	3	Encouraging learning of basic concepts through ICT teaching-Learning resources
PO4	1	Practical approach to teach concepts in learning process
PO5	2	Group assignments and tasks
PO6	2	Group assignments and mutual presentations

PC701CS.2 Understand the common threats and attacks of Information Security(**Understanding**)

	Mapping Level	Justification
PO1	2	Understanding the Establishmentof SQA are all directly related to engineering knowledge and needs understanding of fundamental quality methods and principles.
PO2	1	Directly supportive for problem analysis
PO3	1	Encouraging learning from ICT learning tools and useful videos
PO4	2	Indirect but practical approach to teach honesty in learning process
PO5	2	Group assignments and tasks

	Mapping Level	Justification
PO6	1	Group assignments and mutual presentations

PC701CS.3 Identify security needs using risk management and choose the appropriate risk control strategy based on business needs**(Analyzing)**

	Mapping Level	Justification
PO1	3	Applying the quality assurance metrics to evaluate quality for various types of softwares - This is directly enhancing engineering knowledge for problem solving.
PO2	2	The above is directly supportive in understanding the problem analysis of quality assurance.
PO5	1	Encouraging learning from ICT material and videos
PO6	1	Indirect but practical approach to teach honesty in learning process
PO7	1	Group assignments and tasks

PC701CS.4 Usage of reactive solutions, network perimeter solution tools such as firewalls, host solutions such as antivirus software and Intrusion Detection techniques (**Understanding**)

	Mapping Level	Justification
PO2	3	Directly contributing to engineering knowledge and analyzing to make appropriate choice of testing methods in engineering applications
PO3	3	Directly dealing with enhancing problem analysis skills
PO4	1	Directly supportive in designing of structural members based on analysis and suitable interpretation of the available data.
PO5	1	Forms foundation principles to solve complex problems.
PO6	1	Encouraging learning from ICT material and educational videos & animations

PC701CS.5 Develop an understanding of security policies (such as authentication , integrity and confidentiality), as well as protocols to implement such policies in the form of message exchanges

	Mapping Level	Justification
PO1	3	Directly enhancing engineering knowledge
PO2	3	Directly dealing with enhancing problem analysis skills
PO3	2	Encourages comparison of testing techniques used..
PO4	2	Involves interpretation skills from comparison of engineering data.
PO5	1	Encouraging learning from ICT material and educational videos & animations
PO6	1	Indirect but practical approach to teach honesty in learning process
PO9	1	Group assignments and tasks
PO10	1	Group assignments and mutual presentations

PC701CS.6 Understand the technical and non-technical aspects of security project implementation and accreditation.

	Mapping Level	Justification
PO1	3	Directly enhancing engineering knowledge but analyses and appropriate graphical representation of the engineering data.
PO2	3	Directly dealing with enhancing problem analysis skills
PO3	2	Essential pre-requisite in designing of structural members based on analysis and

		suitable interpretation of the available data.
PO4	2	Form foundation principles to solve complex problems in real life.
PO5	1	Encouraging learning from ICT material and educational videos & animations
PO8	1	Indirect but practical approach to teach honesty in learning process
PO9	1	Group assignments and tasks

VIII. TEACHING-LEARNING METHODOLOGY ADOPTED

1. Chalk and Talk

2. PPTs, Animations and Videos for illustrations

3. Learning by doing

4. Collaborative Learning (Think Pair Share)

5. Group Assignment – Project

IX. METHOD OF ASSESSMENT OFCOs and POs:

COs	Relevant POs	Mode of Assessment
PC701CS .1- PC701CS .5	PO1: ENGINEERING KNOWLEDGE PO2: PROBLEM ANALYSIS PO3: DESIGN/ DEVELOPMENT OF SOLUTIONS PO4: CONDUCT INVESTIGATION ON COMPLEX PROBLEMS PSO1: PROFESSIONAL COMPETENCE	Assignments, Quizzes, Internal Examinations and External Examination result
PC701CS .1- PC701CS .5	PO5: MODERN TOOL USAGE	Exercises to learn through ICT tools and internet websites, Usage of Excel worksheets for problem solving
PC701CS .1- PC701CS .5	PO8: ETHICS	Assignments, Quizzes
PC701CS .1- PC701CS .5	PO9: IINDIVIDUAL AND TEAM WORK PO10: COMMUNICATION	Group Assignments, Writing skills in documenting assignments, Presentations

X.   LESSON PLAN:

The course plan is meant as a guideline. There may probably be changes.

S. No.	Unit	Topic	No. of Periods	Cumulative periods
1	I	• Introduction : History Software Quality Assurance Characteristics of information, NSTISSC Security model, Components of an information system,	4	4
2		• Securing the components, balancing security and access, The SDLC, The security SDLC	4	8
3		• Need for security: Business needs • Threats, Attacks-secure software development	7	15
4	IIA	• Legal, Ethical and Professional Issues: Law and ethics in information security, relevant U.S laws – international laws and legal bodies	1	16
5		• relevant U.S laws – international laws and legal bodies	5	21
6		• Ethics and information security	1	22
7	IIB	• Risk Management: Overview, Risk Identification, risk assessment, risk control strategies	1	23
8		• Selecting a risk control strategy	3	24
9		• Quantitative versus qualitative risk control practices • Risk management discussion points • Recommended risk control practices.	1	25
10	IIIA	• Planning for security: Security policy	1	26
11		• Standards and practices • Security blue print • Security education	3	29
12		• Continuity strategies	1	30
13	IIIB	• Security Technology: Firewalls and VPNs: Physical design • firewalls	2	32
14		• Protecting remote connections	1	33
15	IV	• Security Technology: Intrusion detection, Access control and other security tools: Intrusion detection and prevention systems	3	36
16		• Scanning and analysis tools, Access control devices	2	38
17		• Cryptography: Foundations of cryptograph, cipher methods, cryptographic algorithms.	2	40

S. No.	Unit	Topic	No. of Periods	Cumulative periods
18		• Cryptographic tools, Protocols for secure communications, Attacks on cryptosystems	1	41
31	V	• Implementing Information security: Information security project management, technical topics of implementation, non-technical aspects of implementation. • Security certification and accreditation.	3	44
32		• Security and Personnel: Positioning and staffing security function, Employment policies and practices, internal control strategies • Information security Maintenance: Security management models. The maintenance model, Digital forensics.	4	48
41		**TOTAL**		48

Prepared by: Dr.Shruthi SK, Asst. Professor, CSE

Signature:

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
Class Time – Table

Class: VII Semester BE CSE – A   2021 – 2022 Semester: VII   W. E. F:08 – 11 – 2021   LH: E-209

	I 9:30 –10:30	II 10:30 – 11:30	III 11:30 – 12:30	12:30 – 01:15	IV 01:15 – 02:15	V 02:15 – 03:15	VI 03:15 – 04:15	VII 04:15 – 05:00
MON	DIS	DSR	DSR	L U N C H	IS	IS	OE – II	INTERNET
TUE	DSR - A2 / DIS - A1 LAB				IS	OE – II	OE – II	SPORTS
WED	PW				DSR	DIS	DIS	MAKEUP
THU	IS	DSR	DIS		DSR - A1 / DIS - A2 LAB			MENTOR
FRI	OE – II	DSR	DIS		SUMMER INTERNSHIP			REMEDIAL
SAT	IS	PW			CISCO			LIBRARY

*(T) – Tutorial Concern Faculty

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
PC 701 CS	IS – Information Security	Dr. Shruthi Sk	PC 751 CS	DSR LAB - Data ScienceUsing R Lab	Dr. P. Lavanya / Mrs. J. Sowmya
PC 702 CS	DSR – Data Science Using R Programming	Dr. P. Lavanya	PC 752 CS	DIS LAB – Distributed Systems Lab	Mr. A. Rajesh
PC 703 CS	DIS – Distributed Systems	Mr. A. Rajesh	PW 761 CS	PW – I – Project Work – I	Mr. P.V. Ramanaiah / Mr. T. Praveen Kumar
OE 775 ME	ER (OE – II) – Enterpreneurship	Dr. D. Uday Kumar	SI 762 CS	Summer Internship	Dr. M. SharadaVara Lakshmi
				CISCO	Mrs. J. Sowmya

Class Coordinator:Mr. A. Rajesh

Class In – Charge
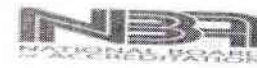Dept. of Computer Science
Methodist College of Engg. & Tech.
Sing Koti, Hyderabad.

Time Table Coordinator
Dept. of Computer Science
Methodist College of Engg. & Tech.
Sing Koti, Hyderabad.

Head of the Department
Department of CSE
Methodist College of Engg. & Tech.
Abids, Hyderabad.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
Class Time – Table

Class: VII Semester BE CSE – B
2021 – 2022 Semester: VII
W. E. F:08 – 11 – 2021
LH: E-205

	I 9:30 – 10:30	II 10:30 – 11:30	III 11:30 – 12:30	12:30 – 01:15	IV 01:15 – 02:15	V 02:15 – 03:15	VI 03:15 – 04:15	VII 04:15 – 05:00
MON	DSR	OE – II	IS		DSR - B1 / DIS - B2 LAB			INTERNET
TUE	IS	IS	OE – II	L U N C H	DSR – B2 / DIS – B1 LAB			SPORTS
WED	PW				OE – II	DIS	DIS	MAKEUP
THU	OE – II	DSR	DSR		IS	CISCO		MENTOR
FRI	DSR	DSR	OE – II		DIS	DIS	IS	REMEDIAL
SAT	DIS	PW			SUMMER INTERNSHIP			LIBRARY

*(T) – Tutorial Concern Faculty

Course Code	Course Name	Name of the Faculty	Course Code	Course Name	Name of the Faculty
PC 701 CS	IS – Information Security	Dr. Shruthi Sk	PC 751 CS	DSR LAB - Data ScienceUsing R Lab	Mr. T. Praveen Kumar /Mrs. Unnati Mohan Khanapurkar
PC 702 CS	DSR – Data Science Using R Programming	Mr. T. Praveen Kumar	PC 752 CS	DIS LAB – Distributed Systems Lab	Mr. A. Rajesh
PC 703 CS	DIS – Distributed Systems	Mr. A. Rajesh	PW 761 CS	PW – I – Project Work – I	Mr. T. Praveen Kumar / Mr. P.V. Ramanaiah
OE 775 ME	ER (OE – II) – Enterpreneurship	Dr. D. Uday Kumar	SI 762 CS	Summer Internship	Mr. D. Rajashekar
				CISCO	Dr. Shruthi Sk

Class Coordinator:Dr.V. Padmakar

Class In – Charge

Time Table Coordinator

Head of the Department

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College Code: 1607

Status of Syllabus Completion before CIE-I/II

Class/Semester: IV   Section: A   Department: CSE

Class Coordinator Name: Mr. R Sandeep   Syllabus Status as on: 24/8/21

Sl. No.	Course/ Subject	Name of Faculty	Total No. of classes taken till date	Unit & % of Completed	No. of Classes required to complete the remaining Units	No. of extra classes required (excluding scheduled classes)	Remarks
1	Effective Technical communication in English	Mrs A Jayashree	25	3 Units completed	8+5	Nil	Jai
2	Finance and Accounting	Mrs A Bruindavani	24	3.8 units	05+7	Nil	By
3	M. III	Mr T Joseph	33	3.8 units 4 Ending	7+2	3	GL
4	Signals and System	Mr M Ramesh	32	3.7 units completed	06+4	2	ap
5	OOP using Java	Dr P Lavanya	47	4/5 unit (5 total)	20	20	100
6	Computer Organization	Mr R Sandeep	9	9			
7	Data base Management Systems	Dr Sharada	22	4 Units Completed	06	Nil	A
8							

Class Co-ordinator

Head of Department

Principal