



Sri Indu Institute of Engineering & Technology

Recognized Under 2(f) of UGC Act 1956

Approved by AICTE, New Delhi
Affiliated to JNTUH, Hyderabad.

COURSE FILE

ON

CLOUD COMPUTING

Course Code - CS714PE

IV B.Tech I-SEMESTER

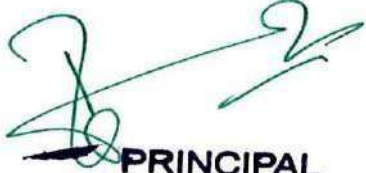
A.Y.:2022-2023

Prepared by

Mrs.MANMADHA

Assistant Professor

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SRI INDU INSTITUTE OF ENGG & TECH.
Sheriguda(V), Ibrahimpatnam(M), R.R.Dist-501 10.


PRINCIPAL
Sri Indu Institute of Engineering & Tech.
Sheriguda(VIII), Ibrahimpatnam
R.R. Dist. Telangana-501 510.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

| | |
|-----------------------------|------------------------------------|
| Academic Year | 2022-2023 |
| Course Title | CLOUD COMPUTING |
| Course Code | CS714PE |
| Programme | B.Tech |
| Year & Semester | IV year I-semester |
| Branch & Section | CSE-A |
| Regulation | R18 |
| Course Faculty | Mrs.K.Manmadha Assistant Professor |

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

INSTITUTE VISION AND MISSION

Vision:

To become a premier institute of academic excellence by providing the world class education that transforms individuals into high intellectuals, by evolving them as empathetic and responsible citizens through continuous improvement.

Mission:


IM1: To offer outcome-based education and enhancement of technical and practical skills.

IM2: To continuous assess of teaching-learning process through institute-industry collaboration..

IM3: To be a centre of excellence for innovative and emerging fields in technology development with state-of-art facilities to faculty and students fraternity.

IM4: To create an enterprising environment to ensure culture, ethics and social responsibility among the stakeholders

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DEPARTMENT VISION AND MISSION

Vision:

To become a prominent knowledge hub for learners, strive for educational excellence with innovative and industrial techniques so as to meet the global needs.

Mission:

- DM1 :** To provide ambience that enhances innovations, problem solving skills, leadership qualities, decision making, team-spirit and ethical responsibilities.
- DM2 :** To impart quality education with professional and personal ethics, so as to meet the challenging technological needs of the industry and society.
- DM3 :** To provide academic infrastructure and develop linkage with the world class organizations to strengthen industry-academia relationships for learners.
- DM4 :** To provide and strengthen new concepts of research in the thrust area of Computer Science and Engineering to reach the needs of Government and Society.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROGRAM EDUCATIONAL OBJECTIVES

- PEO1:** To develop trained graduates with strong academic and technical skills of modern computer science and engineering.
- PEO2:** To promote trained graduates with leadership qualities and the ability to solve real time problems using current techniques and tools in interdisciplinary environment.
- PEO3:** To motivate the graduates towards lifelong learning through continuing education and professional development.

PROGRAM SPECIFIC OUTCOMES

- PSO1 : Professional Skills:** To implement computer programs of varying complexity in the areas related to Web Design, Cloud Computing, Network Security and Artificial Intelligence.
- PSO2: Problem-Solving Skills:** To develop quality products using open ended programming environment.

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PROGRAMME OUTCOMES (POs)

- PO1: Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2: Problem analysis:** Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3: Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO4: Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5: Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- PO6: The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- PO7: Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9: Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10: Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO11: Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- PO12: Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B Tech. in COMPUTER SCIENCE AND ENGINEERING

COURSE STRUCTURE & SYLLABUS (R18)

Applicable From 2018-19 Admitted Batch

IV YEAR I SEMESTER

| S. No. | Course Code | Course Title | L | T | P | Credits |
|--------|-------------|---|-----------|----------|-----------|-----------|
| 1 | CS701PC | Cryptography & Network Security | 3 | 0 | 0 | 3 |
| 2 | CS702PC | Data Mining | 2 | 0 | 0 | 2 |
| 3 | | Professional Elective -IV | 3 | 0 | 0 | 3 |
| 4 | | Professional Elective -V | 3 | 0 | 0 | 3 |
| 5 | | Open Elective - II | 3 | 0 | 0 | 3 |
| 6 | CS703PC | Cryptography & Network Security Lab | 0 | 0 | 2 | 1 |
| 7 | CS704PC | Industrial Oriented Mini Project/ Summer Internship | 0 | 0 | 0 | 2* |
| 8 | CS705PC | Seminar | 0 | 0 | 2 | 1 |
| 9 | CS706PC | Project Stage - I | 0 | 0 | 6 | 3 |
| | | Total Credits | 14 | 0 | 10 | 21 |

Professional Elective - IV

| | |
|---------|--------------------------|
| S713PE | Artificial Intelligence |
| CS714PE | Cloud Computing |
| CS715PE | Ad-hoc & Sensor Networks |

CS714PE: CLOUD COMPUTING (Professional Elective - IV)

**IV Year B.Tech. CSE I –Sem
3003**

L T P C

Pre-requisites:

1. A course on “Computer Networks”
2. A course on “Operating Systems”
3. A course on “Distributed Systems”

Course Objectives:

This course provides an insight into cloud computing

Topics covered include- distributed system models, different cloud service models, service-oriented architectures, cloud programming and software environments, resource management.

Course Outcomes:

Ability to understand various service delivery models of a cloud computing architecture. Ability to understand the ways in which the cloud can be programmed and deployed.
Understanding cloud service providers.

UNIT - I

Computing Paradigms: High-Performance Computing, Parallel Computing, Distributed Computing, Cluster Computing, Grid Computing, Cloud Computing, Bio computing, Mobile Computing, Quantum Computing, Optical Computing, Nano computing.

UNIT - II

Cloud Computing Fundamentals: Motivation for Cloud Computing, The Need for Cloud Computing, Defining Cloud Computing, Definition of Cloud computing, Cloud Computing Is a Service, Cloud Computing Is a Platform, Principles of Cloud computing, Five Essential Characteristics, Four Cloud Deployment Models

UNIT - III

Cloud Computing Architecture and Management: Cloud architecture, Layer, Anatomy of the Cloud, Network Connectivity in Cloud Computing, Applications, on the Cloud, Managing the Cloud, Managing the Cloud Infrastructure Managing the Cloud application, Migrating Application to Cloud, Phases of Cloud Migration Approaches for Cloud Migration.

UNIT - IV

Cloud Service Models: Infrastructure as a Service, Characteristics of IaaS. Suitability of IaaS, Pros and Cons of IaaS, Summary of IaaS Providers, Platform as a Service, Characteristics of PaaS, Suitability of PaaS, Pros and Cons of PaaS, Summary of PaaS Providers, Software as a Service, Characteristics of SaaS, Suitability of SaaS, Pros and Cons of SaaS,

Summary of SaaS Providers, Other Cloud Service Models.

UNIT V

Cloud Service Providers: EMC, EMC IT, Captiva Cloud Toolkit, Google, Cloud Platform, Cloud Storage, Google Cloud Connect, Google Cloud Print, Google App Engine, Amazon Web Services, Amazon Elastic Compute Cloud, Amazon Simple Storage Service, Amazon Simple Queue ,service, Microsoft, Windows Azure, Microsoft Assessment and Planning Toolkit, SharePoint, IBM, Cloud Models, IBM Smart Cloud, SAP Labs, SAP HANA Cloud Platform, Virtualization Services Provided by SAP, Sales force, Sales Cloud, Service Cloud: Knowledge as a Service, Rack space, VMware, Manjrasoft, Aneka Platform

TEXT BOOK:

1. Essentials of cloud Computing: K. Chandrasekhran, CRC press, 2014

REFERENCE BOOKS:

1. Cloud Computing: Principles and Paradigms by Rajkumar Buyya, James Broberg and Andrzej M. Goscinski, Wiley, 2011.
2. Distributed and Cloud Computing, Kai Hwang, Geoffery C. Fox, Jack J. Dongarra, Elsevier, 2012.
3. Cloud Security and Privacy: An Enterprise Perspective on Risks and Compliance, Tim Mather, Subra Kumaraswamy, Shahed Latif, O'Reilly, SPD, rp 2011.



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

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 Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510
 Website: <https://siiet.ac.in/>

COURSE OUTCOMES

Course: CLOUD COMPUTING (C413)

Class: IV CSE-A

After completing this course the student will be able to:

| Course Outcomes | Description | Bloom's Taxonomy Levels |
|-----------------|--|-------------------------|
| C413.1 | Understand the concepts of computing paradigms | Understand |
| C413.2 | Ability to understand the concepts of cloud Computing and Deployment Models | Understand |
| C413.3 | Ability to understand various service of a network Connectivity and managing cloud. | Analyzing |
| C413.4 | Understanding cloud service providers. | Understand |
| C413.5 | Understand the concepts of real time applications. | Apply |
| C413.6 | Understand the Cloud platforms in industry such as Amazon web services, Google AppEngine, Microsoft Azure and Cloud scientific applications. | Understand |

Mapping of course outcomes with program outcomes:

| Course Outcomes | Program Outcomes | | | | | | | | | | | | | |
|-----------------|------------------|-----|-----|-----------|-----|-----|-----|-------|-----|------|------|------|------|------|
| | High -3 | | | Medium -2 | | | | Low-1 | | | | | | |
| CO | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
| C413.1 | 3 | 1 | 1 | 2 | - | - | - | - | - | - | - | - | 1 | - |
| C413.2 | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - |
| C413.3 | 3 | 3 | 2 | - | - | - | - | - | - | - | - | 1 | - | - |
| C413.4 | 3 | - | 2 | - | - | - | - | - | - | - | - | - | - | - |
| C413.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C413.6 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - |
| C413 | 3 | 2 | 1.5 | 2 | | | | | | | | 1 | 1 | - |



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CO – PO / PSO Mapping Justification

Course: CLOUD COMPUTING (C413)

Class: IV B.Tech – I SEM – A – Sec

PROGRAMME OUTCOMES (Pos):

PO1 Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2 Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO12 Life-long learning: Recognize the need for, and have the preparation and ability to Engage in independent and life-long learning in the broadest context of technological

| | |
|-------------|--|
| PSO1 | Professional Skills: The ability to implement computer programs of varying complexity in the areas related to web design, cloud computing and networking. |
|-------------|--|

C413.1 Understand the concepts of computing paradigms(Understand)

| | Justification |
|------------|--|
| PO1 | Slightly mapped as students will be able to understand the principles of the cloud computing and virtualization |
| PO2 | Slightly mapped as students will be able to identify working principles of cloud. |
| PO3 | Moderately mapped as students can use the concepts of cloud computing and virtualization for cloud solutions.. |
| PO4 | knowledge and research methods |
| PO4 | Slightly mapped as students can apply the concepts of cloud computing and virtualization in continuing professional development. |

C413.2 Ability to understand the concept of Computing and Deployment Models .
(Understand)

| | Justification |
|------------|--|
| PO1 | Slightly mapped as students will be able to understand the Cloud computing architecture. |
| PO2 | Slightly mapped as students will be able to identify the services of Aneka cloud computing platform |
| PO3 | Moderately mapped as students can use the concepts of Aneka cloud computing platform for cloud solutions |

C413.3Ability to understand various service of a network Connectivity and managing cloud.
(Analyzing)

| | Justification |
|-------------|---|
| PO1 | Slightly mapped as students will be able to understand the Thread and Task based cloud application models |
| PO2 | Slightly mapped as students will be able to identify the services of Thread and Task-based cloud application models |
| PO3 | Moderately mapped as students can use the concepts of Thread and Task based application models in developing cloud applications |
| PO12 | Slightly mapped as students can apply the concepts of Thread and Task based application cloud models in continuing professional development |

C413.4 Understanding cloud service providers.. (Understand)

| | Justification |
|------------|---|
| PO1 | Slightly mapped as students will be able to understand the Map-Reduce programming. |
| PO3 | Moderately mapped as students can use the concepts of Data intensive computing developing Data intensive applications |

C413.5 Understand the concepts of real time applications (Apply)

| | Justification |
|------------|---|
| PO1 | Slightly mapped as students will be able to understand, Google App Engine, Microsoft Azure and Cloud scientific applications. |

C413.6 Understand the Cloud platforms in industry such as a Amazon web services (Understand)

| | Justification |
|-------------|---|
| P012 | Slightly mapped as students can apply the concepts of Amazon web services, Google AppEngine and Microsoft Azure in continuing professional development. |

JAWAHARLAL NEERU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2022-23

B. Tech./B. Pharm. IV YEAR I & II SEMESTERS

I SEM

| S. No | Description | Duration | |
|-------|---|------------|----------------------|
| | | From | To |
| 1 | Commencement of I Semester classwork | 29.08.2022 | |
| 2 | 1 st Spell of Instructions (including Dussehra Recess) | 29.08.2022 | 31.10.2022 (9 Weeks) |
| 3 | Dussehra Recess | 03.10.2022 | 08.10.2022 (1 Week) |
| 4 | First Mid Term Examinations | 01.11.2022 | 07.11.2022 (1 Week) |
| 5 | Submission of First Mid Term Exam Marks to the University on or before | 12.11.2022 | |
| 6 | 2 nd Spell of Instructions | 09.11.2022 | 03.01.2023 (8 Weeks) |
| 7 | Second Mid Term Examinations | 04.01.2023 | 10.01.2023 (1 Week) |
| 8 | Preparation Holidays and Practical Examinations | 11.01.2023 | 19.01.2023 (1 Week) |
| 9 | Submission of Second Mid Term Exam Marks to the University on or before | 17.01.2023 | |
| 10 | End Semester Examinations | 20.01.2023 | 02.02.2023 (2 Weeks) |

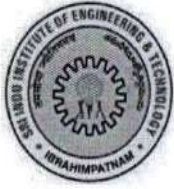
Note: No. of Working/instructional days: 94

II SEM

| S. No | Description | Duration | |
|-------|---|------------|-----------------------|
| | | From | To |
| 1 | Commencement of II Semester classwork | 03.02.2023 | |
| 2 | 1 st Spell of Instructions | 03.02.2023 | 31.03.2023 (8 Weeks) |
| 3 | First Mid Term Examinations | 01.04.2023 | 08.04.2023 (1 Week) |
| 4 | Submission of First Mid Term Exam Marks to the University on or before | 15.04.2023 | |
| 5 | 2 nd Spell of Instructions | 10.04.2023 | 17.06.2023 (10 Weeks) |
| 6 | Summer Vacation | 15.05.2023 | 27.05.2023 (2 Weeks) |
| 7 | Second Mid Term Examinations | 19.06.2023 | 24.06.2023 (1 Week) |
| 8 | Preparation Holidays and Practical Examinations | 26.06.2023 | 01.07.2023 (1 Week) |
| 9 | Submission of Second Mid Term Exam Marks to the University on or before | 01.07.2023 | |
| 10 | End Semester Examinations | 03.07.2023 | 15.07.2023 (2 Weeks) |

Note: No. of Working/ instructional days: 91


 REGISTRAR



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TIME TABLE FOR A.Y 2022-23

Class: IV B. Tech CSE -A

Semester: I

LH. NO: A-101

W.E.F:29-08-2022

| Period/ Day | 1 | 2 | 3 | 4 | 1:00- 1:30 | 5 | 6 | 7 |
|----------------|------------|-------------------------------------|-------------|------------|-----------------------|--------------------------------------|-------------|-----------|
| | 9:40-10:30 | 10:30-11:20 | 11:20-12:10 | 12:10-1:00 | | 1:30-2:20 | 2:20-3:10 | 3:10-4:00 |
| Monday | C&NS | C&NS LAB(BATCH-I)/SEMINAR(BATCH-II) | | | L U N C H | RTS | LIB | POE |
| Tuesday | DM | RTS | C&NS | COUN | | MINI PROJECT | | |
| Wednesday | CC | MAJOR PROJECT STAGE -I | | | | MAJOR PROJECT STAGE -I | | |
| Thursday | RTS | C&NS | DM | INT | | C&NS | DM | SPORTS |
| Friday | POE | RTS | CC | DM | | CC | CO-C/SS/DAA | |
| Saturday | CC | POE | C&NS | DM | | SEMINAR(BATCH-I) /C&NS LAB(BATCH-II) | | |
| | | | | | | | | |

(T) – Tutorial (concern faculty)

| Subject Code | Subject Name | Name of the Faculty | Subject Code | Subject Name | Name of the Faculty |
|---------------------------------|--|---|--------------|-------------------------|---|
| CS701PC | Cryptography & Network Security | Mrs.J Pujitha | CS705PC | Seminar Coordinator | Mrs.S.Akhila / Dr. Bapathu Gangadhara Obula Reddy / Dr B Ratnakanth |
| CS702PC | Data Mining | Mr.K.Veera Kishore | | CO-C/SS/DAA | Mrs.J Pujitha |
| CS714PE | Cloud Computing (PE-IV) | Mrs.K.Manmadha | Sports | Sports | Mr.P.Sriramulu |
| CS722PE | Real Time Systems (PE-V) | Mrs.M.Karuna | Internet | Internet | Mrs.K.Manmadha |
| | Principles of Entrepreneurship (OE-II) | Mr.N.B.C.Sidhu | LIB | Library | Mrs.K.Manmadha |
| CS703PC | Cryptography & Network Security Lab | Mrs.J Pujitha / Mrs.B.S.Swapna Shanthi/ Mrs.N.Shilpa | COUN | Counselling | Mrs.K Anusha |
| CS704PC | Mini Project Coordinator | Mrs.M.Karuna/ Mrs.K.Manmadha/ Mrs. K.Anusha | CS706PC | Major Project (Stage-I) | Dr Sasi Kumar/Mrs.J Pujitha / Mrs.M.Karuna |
| Class In-Charge : Mrs.J Pujitha | | Mentor 1 : Mrs.J Pujitha | | Mentor 2: Mrs.M.Karuna | |

Class In-Charge

HOD

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Department Computer Science and Engineering
2022-23; 1st semester

Lesson Plan

| | |
|-----------------|---|
| Course Title | Cloud computing |
| Course Code | CS714PE |
| Programme | B.Tech |
| Year & Semester | IV-year I-semester |
| Regulation | R18 |
| Course Faculty | Mrs.K.MANMADHA, Assistant Professor , CSE |

Lesson Plan

| S.NO | Unit | TOPIC | Number of Sessions Planned | Teaching method/Aids | REFERENCE |
|------|----------------|---|----------------------------|----------------------|-----------|
| 1 | 1 | Introduction: cloud computing | 1 | Black Board | T1,W1 |
| 2 | | Computing Paradigms | 1 | Black Board | T1 |
| 3 | | High-Performance Computing . | 1 | Black Board | T1 |
| 4 | | Parallel Computing | 1 | Black Board | T1 |
| 5 | | Distributed Computing | 1 | Black Board | T1 |
| 6 | | Cluster Computing | 1 | Black Board | T1 |
| 7 | | Grid Computing | 1 | Black Board | T1 |
| 8 | | Cloud Computing | 1 | Black Board | T1 |
| 9 | | Bio computing, Mobile Computing | 1 | Black Board | T1 |
| 10 | | Quantum Computing, Optical Computing | 1 | Black Board | T1 |
| 11 | Nano computing | 1 | Black Board | T1 | |
| 12 | 2 | Cloud Computing Fundamentals: | 1 | Black Board | T1 |
| 13 | | Motivation for Cloud Computing | 1 | Black Board | T1 |
| 14 | | The Need for Cloud Computing | 1 | Black Board | T1 |
| 15 | | Defining Cloud Computing Definition of Cloud computing | 1 | Black Board | T1,W2 |

| | | | | | | |
|----|---|--|--|-------------|-------------|-------|
| 16 | | Cloud Computing Is a Service, Cloud Computing Is a Platform | 1 | Black Board | T1 | |
| 17 | | Principles of Cloud computing | 2 | Black Board | T1 | |
| 18 | 3 | Cloud Computing Architecture and Management | 1 | Black Board | T1 | |
| 19 | | Cloud architecture | 1 | Black Board | T1 | |
| 20 | | Phases of cloud migration | 1 | Black Board | T1 | |
| 21 | | Layer, Anatomy of the Cloud | 1 | Black Board | T1 | |
| 22 | | Network Connectivity in Cloud Computing | 1 | Black Board | T1 | |
| 23 | | Applications, on the Cloud, Managing the Cloud | 1 | Black Board | T1 | |
| 24 | | Managing the Cloud Infrastructure Managing the Cloud application | 1 | Black Board | T1 | |
| 25 | | Migrating Application to Cloud | 1 | Black Board | T1 | |
| 26 | | Cloud Storage: from LANs TO WANs | 1 | Black Board | T1 | |
| 27 | | Technologies for Data Security in Cloud Computing | 1 | Black Board | T1,W3 | |
| 28 | | platform and software as a service (paas/iaas) | 1 | Black Board | T1 | |
| 29 | | Aneka—Integration of Private and Public Clouds | 1 | Black Board | T1 | |
| 30 | | Aneka Resource Provisioning Service | 1 | Black Board | T1 | |
| 31 | | Overview of CometCloud-based Applications | 1 | Black Board | T1 | |
| 32 | | Cloud-Based Solutions for Business Applications | 1 | Black Board | T1 | |
| 33 | | Importance of Quality and Security in Clouds | 1 | Black Board | T1 | |
| 34 | | Workflow Engine for Clouds | 1 | Black Board | | |
| 35 | | Phases of Cloud Migration Approaches for Cloud Migration | 1 | Black Board | T1 | |
| 36 | | | Cloud Service Models | 1 | Black Board | T1,W4 |
| 37 | | | Infrastructure as a Service, of IaaS. Suitability of IaaS, Pros and Cons of IaaS | 1 | Black Board | T1 |
| 38 | | A Model for Federated Cloud Computing. | 1 | Black Board | T1 | |
| 39 | | A Service Provider's Perspective | 1 | Black Board | T1 | |
| 40 | | Pros and cons of IaaS | 1 | Black Board | T1 | |
| 41 | | | | | | |

| | | | | | |
|----|---|--|-------------------------|-------------|-------------|
| 42 | 4 | Performance Prediction for HPC on Clouds | 1 | Black Board | T1 |
| 43 | | Characteristics of PaaS, Suitability of PaaS | 1 | Black Board | T1 |
| 44 | | Massively Multiplayer Online Game Hosting on Cloud Resources | 1 | Black Board | T1 |
| 45 | | Building Content Delivery Networks Using Clouds | 1 | Black Board | T1 |
| 46 | | Pros and cons of PaaS | 1 | Black Board | T1 |
| 47 | | Pros and cons of SaaS | 1 | Black Board | T1 |
| 48 | | 5 | Cloud Service Providers | 1 | Black Board |
| 49 | Cloud Services | | 1 | Black Board | T2 |
| 50 | Google, Cloud Platform | | 1 | Black Board | T2 |
| 51 | , Cloud | | 1 | Black Board | |
| 52 | Storage, Google Cloud Connect Google Cloud Print, Google App Engine | | 1 | Black Board | T2 |
| 53 | Amazon Web Services | | 1 | Black Board | T2,W5 |
| 54 | Amazon Elastic Compute Cloud | | 1 | Black Board | T2 |
| 55 | Amazon Simple Storage Service, Amazon Simple Queue Service | | 1 | Black Board | |
| 56 | Microsoft, Windows Azure, Microsoft Assessment and Planning Toolkit, SharePoint, IBM, Cloud | | 1 | Black Board | T2 |
| 57 | Virtualization Services Provided by SAP | | 1 | Black Board | T2 |
| 58 | IBM Smart Cloud, SAP Labs, SAP HANA Cloud Platform | | 1 | Black Board | T2 |
| 59 | Sales force, Sales Cloud, Service Cloud: Knowledge as a Service | | 1 | Black Board | T2 |

TEXT BOOKS

T1: Cloud computing: principles and paradigms by raj kumar buyya, james Broberg and Andrzej M.Goscinski,wiley,2011.

T2:2. Distributed and cloud computing , kai Hwang, GeofferyC.fox, jack J.dongarra, Elsevier, 2012.

T3: Cloud Computing :A practical approach, Anthony T.velte, Toby J.velte, Robert lsenpeter, Tata McGraw Hill,2011.

REFERENCE BOOKS:

R1: Cloud security and privacy: An Enterprise perspective on Risks and compliance,imMather, Subra Kumaraswamy,ShahedLatif,O reilly,SPD,rp2011.

R2:Cloud applications architectures: building Applications and infrastructure in the cloud,George Reese ,O reilly,SPD,rp2011.

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Website: <https://siiet.ac.in/>

WEB REFERENCES:

W1: <https://www.javatpoint.com/cloud-computing>

W2: <https://www.javatpoint.com/advantages-and-disadvantages-of-cloud-computing>

W3 : <https://www.javatpoint.com/cloud-computing-architecture>

W4: <https://www.javatpoint.com/types-of-cloud>

W5 : <https://www.javatpoint.com/cloud-service-provider-companies>



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LECTURER NOTES

https://drive.google.com/file/d/1hK5yXMDD_N37jM2zwfRKVMSAAm0v40rk/view?usp=sharing



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LECTURER PPT'S

<https://drive.google.com/file/d/13BEaOAEFonP1DVleXIB0Yk9nOrQqUIFr/view?usp=sharing>

Code No: 157AW

R18

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, February/March - 2022

CLOUD COMPUTING

(Common to CSE, IT)

Time: 3 Hours

Max. Marks: 75

Answer any Five Questions All
Questions Carry Equal Marks

1. In detail, explain the following computing paradigms
 - a) Mobile Computing
 - b) Cluster Computing. [7+8]

- 2.a) Explain the need and features of cloud computing.
 - b) Enumerate the differences between nano computing and optical computing. [8+7]

- 3.a) Explain cloud computing with perspective as a platform.
 - b) Discuss about the four cloud deployment models. [7+8]

- 4.a) Explain the principles of cloud computing.
 - b) Explain the service-platform-infrastructure (SPI) model of the cloud. [7+8]

5. With a neat diagram, explain the components in the anatomy of the cloud. [15]

- 6.a) Explain the different phases of cloud migration.
 - b) Discuss about network connectivity in cloud computing. [8+7]

- 7.a) What is Software-as-a-Service (SaaS)? Explain the characteristics of SaaS.
 - b) Explain the pros and cons of IaaS. [8+7]

8. Write Short notes on:
 - a) SAP HANA Cloud Platform
 - b) VMware. [7+8]

---ooOoo---

Code No: 157AW**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech IV Year I Semester Examinations, January/February - 2023****CLOUD COMPUTING****(Common to CSE, IT)****Time: 3 Hours****Max. Marks: 75****Note:** i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A**(25 Marks)**

- a) Why is it necessary to understand the various computing environments? [2]
- b) How parallel computing differs from Distributed computing? [3]
- c) What is cloud computing? [2]
- d) State the need for cloud computing. [3]
- e) What is public cloud access networking? [2]
- f) Describe Elasticity and Multitenancy properties in brief. [3]
- g) What do you mean by Desktop as a Service cloud mode? [2]
- h) Write down the pros and cons of Platform as a service. [3]
- i) What is the main purpose of Google Cloud Connect? [2]
- j) Give an overview of Google App Engine cloud service. [3]

PART – B**(50 Marks)**

2. What is High-Performance computing? Describe the need of HPC taking any two real case scenarios. [10]

OR

3.a) How a cluster computing differs from cloud computing? State the need for cluster computing and grid computing.

b) Give a detail note on Quantum computing and Optical computing. [5+5]

4. What are the principles of cloud computing? Explain in detail. [10]

OR

5.a) Examine and present the motivation of Cloud computing.

b) Present the basic requirements for cloud services. [5+5]

6. Provide an overview about application migration to the cloud. [10]

OR

7.a) Write a detail description about managing the cloud.

b) Give an insight on the anatomy of the cloud. [5+5]

8. How the Platform as a Service changes the application developer? Provide a detailed overview of the Platform as a service of the cloud. [10]

OR

9.a) Write down the characteristics of Software as a Service cloud model.

b) Discuss about the deployment and delivery of cloud service models. [5+5]

10. Describe various services provided by IBM SmartCloud in detail. [10]

OR

11.a) Give an overview of Windows Azure cloud services.

b) "Salesforce.com is a cloud computing and social enterprise SaaS provider". Justify your answer. [5+5]

---ooOoo---

R18

CodeNo:157AW

**JAWAHARLALNEHRUTECHNOLOGICALUNIVERSITY HYDERABAD
B.TechIVYearISemesterExaminations,July/August-2022
CLOUD COMPUTING
(Common to CSE,IT)**

Time:3Hours

Max.Marks:75

**Answer any five questions
All questions carry equal marks**

1. a) Differentiate between cluster computing and cloud computing.
b) Explain in detail about optical and Nanocomputing. [5+10]
2. What is high performance computing? How to achieve it? Explain different technologies used to achieve high performance computing. [15]
3. a) Define cloud computing? Explain, how Cloud computing is used as a platform.
b) What are the five essential characteristics of cloud computing? Discuss. [5+10]
4. Discuss in detail about different deployment models of cloud. [15]
5. a) Explain about network connectivity in cloud computing.
b) Discuss about applications in cloud. [7+8]
6. a) Discuss the phases involved in migrating a cloud. Explain
b) how cloud applications are managed. [7+8]
7. a) Discuss in detail about characteristics, suitability, pros and cons of IaaS.
b) Discuss about examples of IaaS providers and range of services they offer. [10+5]
8. a) Explain briefly about Captiva Cloud Toolkit.
b) What is virtualization? Explain about virtualization services provided by SAP. [5+10]

---oo0oo---

Sri Indu Institute of Engineering & Technology

Sheriguda (V), Ibrahimpatnam (M), R.R.Dist-501 510

I - Mid Examinations, November -2022

Set - I

Year & Branch: IV CSE-A

Subject: CLOUD COMPUTING

Max. Marks: 10

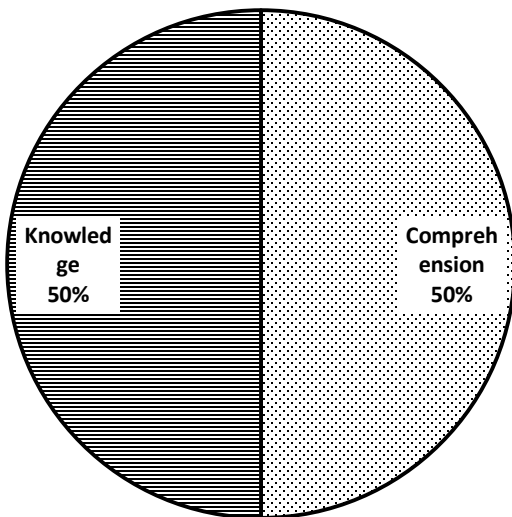
Time:60 Mins

Answer AnyTwo Questions. All Question Carry Equal Marks

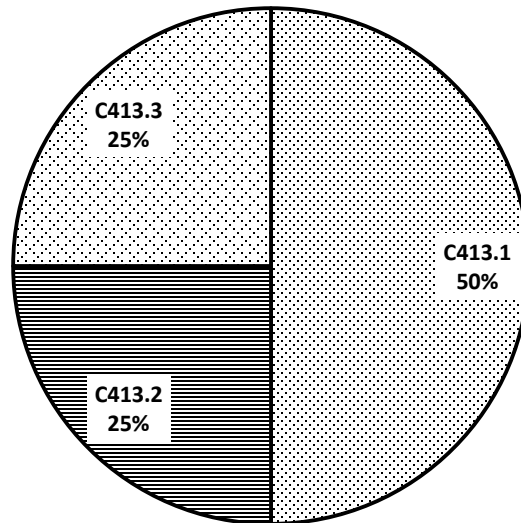
2*5=10

1. Define cloud computing and explain advantages & disadvantages of cloud computing? [Knowledge] (C413.1)
2. Compare the cloud computing and grid computing with neat diagram. [Comprehension] (C413.1)
3. Explain the cloud deployment models. [Comprehension] (C413.2)
4. Write the benefits of different principles of cloud computing. [Knowledge] (C413.3)

QUESTION PAPER
MAPPING WITH BT'S



QUESTION PAPER
MAPPING WITH CO'S



Sri Indu Institute of Engineering & Technology

Sheriguda (V), Ibrahimpatnam (M), R.R.Dist-501 510

I - Mid Examinations, , Nov - 2022

Set - II

Year & Branch: IV CSE-A

Subject: CLOUD COMPUTING

Max. Marks: 10

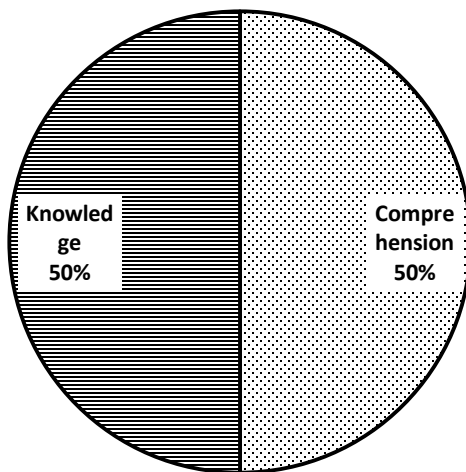
Time: 60 Mins

Answer Any Two Questions. All Question Carry Equal Marks

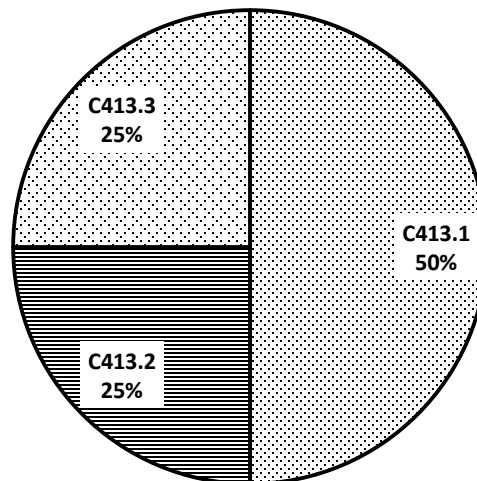
2*5=10

1. Define cloud computing and explain parallel computing & cluster computing with neat diagram. [Knowledge] (C413.1)
2. Compare the cloud computing and grid computing with neat diagram. [Comprehension] (C413.1)
3. Explain in brief about the deployment modal of cloud computing. [Comprehension] (C413.2)
4. Write the benefits of different principles of cloud computing . [Knowledge] (C413.3)

QUESTION PAPER MAPPING WITH BT'S



QUESTION PAPER MAPPING WITH CO'S



Sri Indu Institute of Engineering & Technology

Sheriguda (V), Ibrahimpatnam (M), R.R.Dist-501 510
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
B.TECH. IV YEAR I SEM., I Mid Term Examinations, NOV- 2022
CLOUD COMPUTING
Objective Exam

Name: _____

Hall Ticket No.

| | | | | | | | | | | |
|--|--|--|--|--|--|---|--|--|--|--|
| | | | | | | A | | | | |
|--|--|--|--|--|--|---|--|--|--|--|

Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

I choose the correct alternative:

1. What are the key characteristics to be exhibited by Cloud Computing. []
A) Multitenancy B) Reliability C) Scalability D) All
2. Which of the following is the most important area of concern in cloud computing?
A) Scalability B) Storage C) Security D) All []
3. Web Services provided by the Cloud are []
A) IaaS B) PaaS C) SaaS D) All
4. The type of cloud computing that delivers applications through a browser to customers using a multiuser architecture []
A) IaaS B) PaaS C) SaaS D) MaaS
5. What is the biggest challenge of cloud computing? []
A) Cost B) Bandwidth C) Security D) Performance
6. ___ works by exposing Amazon's web-scale messaging infrastructure as a service []
A) Amazon S3 B) Amazon Simple DB C) Amazon SQS D) Amazon EC2
7. Which is ranked first as the greatest challenge or issue of cloud computing?
A) Security B) Cost C) Availability D) Performance []
8. Which service provides delivery of computer infrastructure as a service
A) CaaS B) IaaS C) SaaS D) All []
9. How many common methods are there to achieve identity federation?
A) 3 B) 4 C) 2 D) 5 []

10. Which architectural layer is used as a backend in cloud computing? []
- A)Cloud B)Soft C)Client D) all of the mentioned

II Fill in the Blanks

11. _____ is the opiate of the masses in “cloud land”.
12. PaaS stands for_____
13. Vector Processing is a kind of parallel processing for _____ processing.
14. _____ Which of the following is the Virtual machine conversion cloud.
15. _____enables cost and resource sharing across the (often vast) user base.
16. In Cloud Computing the SaaS means _____
17. The term_____has been used historically as a metaphor for the Internet.
18. _____ is a core component of an entity’s real-time identity.
19. _____ is the ability for two XMPP servers in different domains to exchange XM stanzas.
20. _____is an enabling technology for peer to peer interaction



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MID - I DISCRIPTIVE ANSWERS

[https://drive.google.com/file/d/17OY9RF-HgYYNiUpJ4pO6iDjvPflqni8/view?usp=drive link](https://drive.google.com/file/d/17OY9RF-HgYYNiUpJ4pO6iDjvPflqni8/view?usp=drive_link)

MID - I OBJECTIVE ANSWERS

1. D
2. C
3. D
4. C
5. A
6. C
7. A
8. B
9. B
10. C
11. COLLABORATION
12. INFRASTRUCTURE AS A SERVICE
13. CPU
14. BMC CLOUD COMPUTING
15. MULTITANCY
16. SOFTWARE AS A SERVICE
17. CLOUD
18. PRESENCE
19. FEDERATION
20. PRESENCE

Sri Indu Institute of Engineering & Technology

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II - Mid Examinations, January -2023

Set - I

Year & Branch: IV CSE-A

Subject: CLOUD COMPUTING

Max. Marks: 10 Time:60 Mins

Answer Any Two Questions. All Question Carry Equal Marks 2*5=10

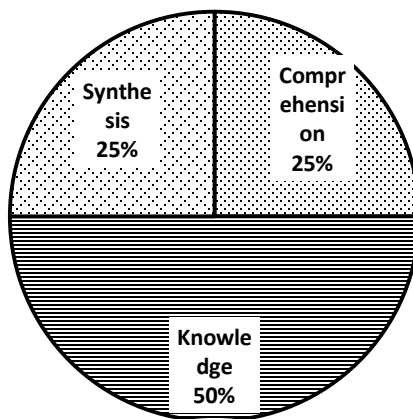
1.Explain the seven steps model of migration into a cloud? [COMPREHENSION] (C413.3)

2.Describe software as a service? [KNOWLEDGE] (C413.4)

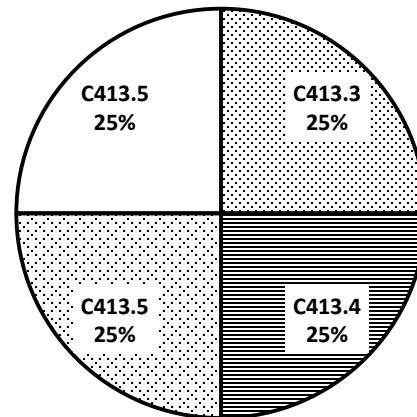
3.What are Amazon web services? List its advantages and disadvantages? [SYNTHESIS] (C413.5)

4.Write brief notes on Microsoft Azure? [KNOWLEDGE] (C413.5)

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BT'S



QUESTION PAPER
MAPPING WITH
CO'S



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II - Mid Examinations, January- 2023

Set - II

Year & Branch: IV CSE-A

Subject: CLOUD COMPUTING

Max. Marks: 10

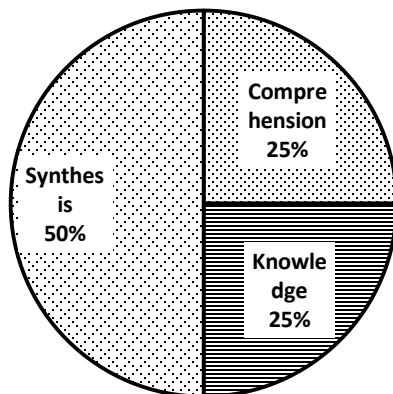
Time:60 Mins

Answer Any Two Questions. All Question Carry Equal Marks

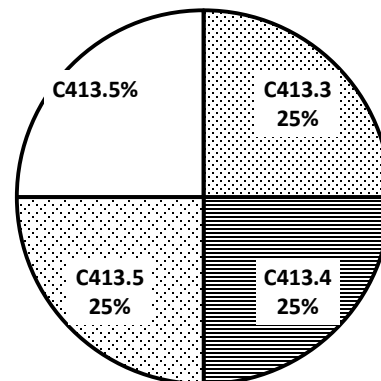
2*5=10

- 1.What is service level Agreements and explain briefly? [SYNTHESIS] (C413.3)
- 2.Describe cloud provides Infra structure as a service? [KNOWLEDGE] (C413.4)
- 3.What are Amazon web services? List its advantages and disadvantages? [SYNTHESIS] (C413.5)
4. Explain in Brief Aneka for cloud computing? [COMPREHENSION] (C413.5)

QUESTION PAPER MAPPING WITH BT'S



QUESTION PAPER MAPPING WITH CO'S



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
B.TECH. IV YEAR I SEM.II Mid Term Examinations
CLOUD COMPUTING
Objective Exam

Name: _____

Hall Ticket No.

| | | | | | | | | | | |
|--|--|--|--|--|--|---|--|--|--|--|
| | | | | | | A | | | | |
|--|--|--|--|--|--|---|--|--|--|--|

Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

I choose the correct alternative:

1. Each of the following is the property of the composable component?
a) STATEFUL b) STATELES c) SYMANTIC d) ALL []

2. Which of the architectural layer is used as a front end in cloud computing?
a) CLIENT b) CLOUD c)SOFT d) ALL []

3. Communication between services is done widely using _____ protocol.
a) REST b) SOAP c) RESTFUL d) ALL []

4. Which of the following component is called hypervisor?
a) VGM b) VMC c) VMM d) ALL []

5 .Amazon Machine Images are virtual appliances that have been packaged to run on the grid of _____ nodes. []
a) BEN b) XEN c) KEN d) ZEN

6. Which of the following is open and both hypervisor and processor-architecture-agnostic?
a) DELL SCALENT b) CLOUDKICK c) ELASTRA d)WEB []

7. Which of the following is a workflow control and policy based automation service by CA?
a) CA CLOUD OPTIMIZE b) CA CLOUD ORCHESTRATE []
c) CA CLOUD INSIGHT d) CA CLOUD COMPOSE

8. Which of the following describes a message-passing taxonomy for a component-based architecture that provides services to clients upon demand? []

- a) SOA b) EBS c) GEC d) All

9. Which of the following organization supports the development of standards for cloud computing?

- a) OPC b) OCP c) OCC d) All []

10. _____ data represents more than 50 percent of the data created every day.

- a) SHADOW b) LIGHT c) DARK d) All []

II Fill in the Blanks

11..The technology used to distribute service requests to resources is referred to as _____.

12. A _____ is a combination load balancer and application server that is a server placed between a firewall or route.

13. Based on PageRank algorithm, Google returns _____ for a query that is parsed for its keywords.

14. _____ protocol lets a Web site list in an XML file information.

15. _____ is provided by “Deep Web”.

16. _____ google product sends you periodic email alerts based on your search term.

17. _____ is also known as Compute.

18. _____ service creates an application hosting environment.

19. Database marketplace based on SQL Azure Database is code-named _____.

20. _____ Live Services can be used in applications that run in the Azure cloud.



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Mid II descriptive key

https://drive.google.com/file/d/1DK7gJs34r9GmvOcosD4UxjIMgW974zbK/view?usp=drive_link

Mid II objective key

1. B
2. A
3. B
4. C
5. B
6. A
7. B
8. A
9. C
10. A
11. Load balancing
12. ADC
13. SERP
14. Sitemaps
15. Web mail
16. Alerts
17. Azure App Fabric
18. Set of virtual machine instances
19. Dallas
20. Windows



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ASSIGNMENT-1

1. Define cloud computing. Explain its advantages and disadvantages?
(C413.1 Knowledge)
2. what are the Principles of the cloud computing? (C413.2Knowledge)
3. Difference between Cloud computing and Grid computing with neat diagram.
(C413.1 Comprehension)
- 4.Explain parallel Computing & cluster Computing?(C413.2Comprehension)

ASSIGNMENT-2

1. Define layers anatomy of the cloud computing? (413.5 Knowledge)
2. Briefly explain architecture with diagram ? (413.3 Comprehension)
3. Write the benfites of different services of cloud computing? (413.4Comprehension)
4. Define EMC captive, cloud toolkit,google,cloud platform? (413.5 Knowledge)

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Telangana - 501 510
Website: <https://siiet.ac.in/>

ASSIGNMENT KEY

ASSIGNMENT-1 KEY

<https://drive.google.com/file/d/1cXR-rWVGnvv7f47QsP2zQvXvILF2wgqF/view?usp=sharing>

ASSIGNMENT-2 KEY

https://drive.google.com/file/d/1IwCTWa6Ak_y2A9QvM0x-zzG8hH_8ew46/view?usp=sharing



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

REMEDIAL CLASSES TIME TABLE

A.Y 2022-23

SEMESTER-I

| BRANCH/ SEC | MON 4.00 PM- 5.00 PM | TUE 4.00 PM-5.00 PM | WED 4.00 PM- 5.00 PM | THUR 4.00 PM- 5.00 PM | FRI 4.00 PM- 5.00 PM |
|----------------|----------------------------|---------------------------|----------------------------|-----------------------------|----------------------------|
| II CSE-A | A&DE | DS | C++ | COA | COSM |
| II CSE-B | DS | A&DE | COSM | C++ | COA |
| II CSE-C | COSM | COA | A&DE | DS | C++ |
| III CSE-A | SE | FLAT | CN | WT | PPL |
| III CSE-B | WT | CN | SE | PPL | FLAT |
| III CSE-C | FLAT | WT | PPL | CN | SE |
| IVCSE-A | C&NS | DM | CC | POE | RTS |
| IV CSE-B | CC | RTS | C&NS | DM | POE |
| IV CSE-C | RTS | CC | POE | C&NS | DM |


HOD

Computer Science & Engg. Dept.
SRI INDU INSTITUTE OF ENGG & TECH.
Sheriguda(V), Ibrahimpatnam(M), R.R.Dist-501 1C


PRINCIPAL

Sri Indu Institute of Engineering & Techn.
Sheriguda(VIII), Ibrahimpatnam,
R.R. Dist. Telangana -501 510



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Website: <https://siiet.ac.in/>

RESULT ANALYSIS

| | |
|-----------------|---|
| Course Title | Cloud computing |
| Course Code | CS714PE |
| Programme | B.Tech |
| Year & Semester | IV-year I-semester |
| Regulation | R18 |
| Course Faculty | Mrs.K.Manmadha, Assistant Professor , CSE |

Slow learners:

| S No | Roll no | No of backlogs | Internal-I Status | Internal-II Status |
|------|------------|----------------|-------------------|--------------------|
| 1 | 19X31A0510 | 5 | 15 | 15 |
| 2 | 19X31A0527 | 5 | 23 | 20 |
| 3 | 19X31A0556 | 5 | 23 | 20 |
| 4 | 19X31A0559 | 5 | 23 | 21 |
| 5 | 19X31A0546 | 4 | 15 | 12 |
| 6 | 19X31A0555 | 3 | 15 | 13 |

Advanced learners:

| S.NO | ROLL.NO. | GATE MATERIAL |
|------|------------|---|
| 1 | 19X31A0503 | Visualization Data structure and management Cloud computing fundamentals Service models like IaaS, PaaS, SaaS ,Cloud security and privacy |
| 2 | 19X31A0504 | |
| 3 | 19X31A0505 | |
| 4 | 19X31A0517 | |
| 5 | 19X31A0518 | |
| 6 | 19X31A0519 | |
| 7 | 19X31A0520 | |
| 8 | 19X31A0524 | |
| 9 | 19X31A0534 | |
| 10 | 19X31A0537 | |
| 11 | 19X31A0539 | |
| 12 | 19X31A0543 | |
| 13 | 19X31A0547 | |
| 14 | 19X31A0550 | |
| 15 | 19X31A0551 | |
| 16 | 19X31A0552 | |



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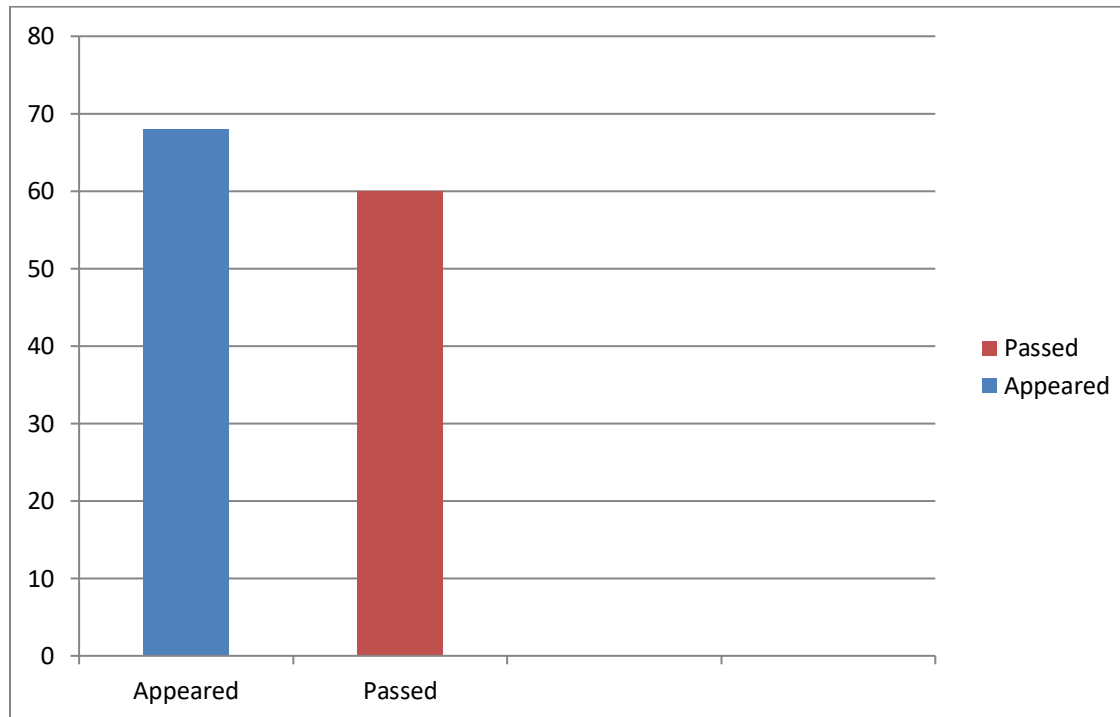
(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510

Website: <https://siet.ac.in/>

BATCH CSE-IV BTECH I SEM CSE-A RESULT ANALYSIS

| ACADAMIC YEAR | COURSE NAME | NUMBER OF STUDENTS | | QUESTION PAPER SETTING | | PASS% |
|---------------|------------------------|--------------------|--------|------------------------|----------|-------|
| | | APPEARED | PASSED | INTERNAL | EXTERNAL | |
| 2022-2023 | Cloud Computing (C413) | 68 | 60 | Course Faculty | JNTUH | 88% |



| | | | | | | | | | | | | | | |
|----|------------|---|--|--|---|--|--|---|--|---|--|--|----|---|
| 23 | 19X31A0524 | 5 | | | 4 | | | | | | | | 10 | 5 |
| 24 | 19X31A0525 | 5 | | | 5 | | | | | | | | 10 | 5 |
| 25 | 19X31A0526 | 5 | | | 5 | | | | | | | | 10 | 5 |
| 26 | 19X31A0527 | | | | 4 | | | 4 | | | | | 10 | 5 |
| 27 | 19X31A0528 | | | | 4 | | | 5 | | | | | 10 | 5 |
| 28 | 19X31A0529 | 5 | | | 5 | | | | | | | | 10 | 5 |
| 29 | 19X31A0530 | 5 | | | 4 | | | | | | | | 10 | 5 |
| 30 | 19X31A0531 | 5 | | | 5 | | | | | | | | 10 | 5 |
| 31 | 19X31A0532 | | | | 5 | | | | | 4 | | | 10 | 5 |
| 32 | 19X31A0533 | | | | 5 | | | 5 | | | | | 10 | 5 |
| 33 | 19X31A0534 | 5 | | | 5 | | | | | | | | 10 | 5 |
| 34 | 19X31A0535 | 5 | | | 5 | | | | | | | | 10 | 5 |
| 35 | 19X31A0536 | | | | | | | 5 | | 4 | | | 10 | 5 |
| 36 | 19X31A0537 | 4 | | | | | | 4 | | | | | 10 | 5 |
| 37 | 19X31A0538 | | | | 4 | | | 5 | | | | | 10 | 5 |
| 38 | 19X31A0539 | 5 | | | 5 | | | | | | | | 10 | 5 |
| 39 | 19X31A0540 | | | | 5 | | | | | 5 | | | 10 | 5 |
| 40 | 19X31A0541 | 3 | | | 2 | | | | | | | | 5 | 5 |
| 41 | 19X31A0542 | | | | 5 | | | 5 | | | | | 10 | 5 |
| 42 | 19X31A0543 | 5 | | | 5 | | | | | | | | 10 | 5 |
| 43 | 19X31A0544 | 4 | | | 4 | | | | | | | | 10 | 5 |
| 44 | 19X31A0545 | | | | 5 | | | 5 | | | | | 10 | 5 |
| 45 | 19X31A0546 | | | | 2 | | | 3 | | | | | 5 | 5 |
| 46 | 19X31A0547 | | | | 5 | | | 5 | | | | | 10 | 5 |
| 47 | 19X31A0548 | | | | 5 | | | | | 5 | | | 10 | 5 |
| 48 | 19X31A0549 | 5 | | | 5 | | | | | | | | 10 | 5 |
| 49 | 19X31A0550 | | | | 5 | | | 5 | | | | | 10 | 5 |
| 50 | 19X31A0551 | | | | 5 | | | 5 | | | | | 10 | 5 |
| 51 | 19X31A0552 | | | | 4 | | | 5 | | | | | 10 | 5 |
| 52 | 19X31A0553 | | | | 2 | | | 3 | | | | | 5 | 5 |
| 53 | 19X31A0554 | | | | 4 | | | 5 | | | | | 10 | 5 |
| 54 | 19X31A0555 | | | | 2 | | | 3 | | | | | 5 | 5 |
| 55 | 19X31A0556 | 4 | | | 4 | | | | | | | | 10 | 5 |
| 56 | 19X31A0557 | | | | 4 | | | 5 | | | | | 10 | 5 |
| 57 | 19X31A0558 | 5 | | | 3 | | | | | | | | 9 | 5 |
| 58 | 19X31A0559 | | | | 4 | | | 4 | | | | | 10 | 5 |
| 59 | 20X35A0501 | 5 | | | 5 | | | | | | | | 10 | 5 |
| 60 | 20X35A0502 | | | | 3 | | | 5 | | | | | 9 | 5 |
| 61 | 20X35A0503 | | | | 4 | | | 4 | | | | | 10 | 5 |
| 62 | 20X35A0504 | | | | 5 | | | 5 | | | | | 10 | 5 |
| 63 | 20X35A0505 | 4 | | | 4 | | | | | | | | 10 | 5 |
| 64 | 20X35A0506 | | | | 5 | | | 5 | | | | | 10 | 5 |

| | | | | | | | | | | | | | | | |
|--|------------|------|------|------|-------|---------|------|-------|------|------|------|------|------|------------------|------|
| 65 | 18X31A0511 | | | | 3 | | | 5 | | | | | 9 | 5 | |
| 66 | 18X31A0522 | | | | 2 | | | 3 | | | | | 5 | 5 | |
| 67 | 18X31A0531 | 4 | | | 4 | | | | | | | | 10 | 5 | |
| 68 | 18X31A0593 | | | | 3 | | | 5 | | | | | 9 | 5 | |
| 73 | | | | | | | | | | | | | | | |
| Target set by the faculty / HoD | | 3.00 | 0.00 | 0.00 | 3.00 | 0.00 | 0.00 | 3.00 | 0.00 | 0.00 | 3.00 | 0.00 | 0.00 | 6.00 | 3.00 |
| Number of students performed above the target | | 27 | 0 | 0 | 59 | 0 | 0 | 39 | 0 | 0 | 5 | 0 | 0 | 62 | 68 |
| Number of students attempted | | 27 | 0 | 0 | 64 | 0 | 0 | 39 | 0 | 0 | 6 | 0 | 0 | 68 | 68 |
| Percentage of students scored more than target | | 100% | | | 92% | | | 100% | | | 83% | | | 91% | 100% |
| <u>CO Mapping with Exam Questions:</u> | | | | | | | | | | | | | | | |
| | CO - 1 | Y | | | Y | | | | | | | | | y | y |
| | CO - 2 | | | | | | | Y | | | | | | y | y |
| | CO - 3 | | | | | | | | | | Y | | | y | y |
| | CO - 4 | | | | | | | | | | | | | | |
| | CO - 5 | | | | | | | | | | | | | | |
| | CO - 6 | | | | | | | | | | | | | | |
| % Students Scored >Target % | | 100% | | | 92% | | | 100% | | | 83% | | | 91% | 100% |
| <u>CO Attainment based on Exam Questions:</u> | | | | | | | | | | | | | | | |
| | CO - 1 | 100% | | | 92% | | | | | | | | | 91% | 100% |
| | CO - 2 | | | | | | | 100% | | | | | | 91% | |
| | CO - 3 | | | | | | | | | | 83% | | | 91% | 100% |
| | CO - 4 | | | | | | | | | | | | | | |
| | CO - 5 | | | | | | | | | | | | | | |
| | CO - 6 | | | | | | | | | | | | | | |
| | CO | Subj | obj | | Asg n | Overall | | Level | | | | | | Attainment Level | |

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Computer science and Engineering
Course Outcome Attainment (Internal Examination-2)

Name of the Faculty: K.Manmadha
 Course Name : Cloud computing

Academic year:2022-2023
 Branch :IV-I Cse-A

| S.No | HT No. | Q1a | Q1b | Q1c | Q2a | Q2b | Q2c | Q3a | Q3b | Q3c | Q4a | Q4b | Q4c | Obj 2 | A2 |
|--------------------------|------------|----------|-----|-----|----------|-----|-----|----------|-----|-----|----------|-----|-----|-----------|----------|
| Max. Marks ==> | | 5 | | | 5 | | | 5 | | | 5 | | | 10 | 5 |
| 1 | 19X31A0501 | 4 | | | | | | 4 | | | | | | 10 | 5 |
| 2 | 19X31A0502 | | | | 5 | | | 3 | | | | | | 9 | 5 |
| 3 | 19X31A0503 | 4 | | | | | | | | | 4 | | | 10 | 5 |
| 4 | 19X31A0504 | 5 | | | | | | | | | 3 | | | 9 | 5 |
| 5 | 19X31A0505 | 5 | | | 3 | | | | | | | | | 9 | 5 |
| 6 | 19X31A0506 | 5 | | | 3 | | | | | | | | | 9 | 5 |
| 7 | 19X31A0507 | | | | 4 | | | 4 | | | | | | 10 | 5 |
| 8 | 19X31A0508 | 5 | | | | | | 5 | | | | | | 10 | 5 |
| 9 | 19X31A0509 | 4 | | | | | | 4 | | | | | | 10 | 5 |
| 10 | 19X31A0510 | | | | 2 | | | | | | 0 | | | 5 | 5 |
| 11 | 19X31A0511 | 4 | | | | | | | | | 4 | | | 10 | 5 |
| 12 | 19X31A0512 | 5 | | | | | | 3 | | | | | | 9 | 5 |
| 13 | 19X31A0513 | 4 | | | | | | 4 | | | | | | 10 | 5 |
| 14 | 19X31A0514 | | | | 3 | | | 5 | | | | | | 8 | 5 |
| 15 | 19X31A0515 | 4 | | | | | | | | | 4 | | | 10 | 5 |
| 16 | 19X31A0517 | | | | 5 | | | | | | 3 | | | 9 | 5 |
| 17 | 19X31A0518 | 4 | | | | | | | | | 4 | | | 10 | 5 |
| 18 | 19X31A0519 | 5 | | | | | | | | | 3 | | | 9 | 5 |
| 19 | 19X31A0520 | | | | | | | 4 | | | 4 | | | 10 | 5 |
| 20 | 19X31A0521 | 5 | | | | | | 5 | | | | | | 10 | 5 |
| 21 | 19X31A0522 | | | | 4 | | | | | | 4 | | | 10 | 5 |
| 22 | 19X31A0523 | | | | | | | 3 | | | 5 | | | 8 | 5 |
| 23 | 19X31A0524 | 5 | | | | | | 3 | | | | | | 9 | 5 |
| 24 | 19X31A0525 | 5 | | | | | | | | | 3 | | | 9 | 5 |
| 25 | 19X31A0526 | 4 | | | | | | 4 | | | | | | 10 | 5 |
| 26 | 19X31A0527 | 4 | | | | | | 3 | | | | | | 8 | 5 |
| 27 | 19X31A0528 | | | | | | | 5 | | | 3 | | | 9 | 5 |
| 28 | 19X31A0529 | | | | 5 | | | | | | 3 | | | 9 | 5 |
| 29 | 19X31A0530 | | | | 5 | | | | | | 3 | | | 9 | 5 |
| 30 | 19X31A0531 | 5 | | | | | | | | | 3 | | | 9 | 5 |
| 31 | 19X31A0532 | | | | 5 | | | | | | 3 | | | 9 | 5 |
| 32 | 19X31A0533 | 5 | | | 3 | | | | | | | | | 9 | 5 |
| 33 | 19X31A0534 | 4 | | | | | | | | | 4 | | | 10 | 5 |
| 34 | 19X31A0535 | 5 | | | | | | 3 | | | | | | 9 | 5 |
| 35 | 19X31A0536 | | | | 5 | | | 3 | | | | | | 9 | 5 |
| 36 | 19X31A0537 | 4 | | | 3 | | | | | | | | | 8 | 5 |
| 37 | 19X31A0538 | 5 | | | | | | 3 | | | | | | 9 | 5 |
| 38 | 19X31A0539 | 5 | | | | | | 3 | | | | | | 9 | 5 |

| | | | | | | | | | | | | | | | |
|--|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 39 | 19X31A0540 | 4 | | | | | | 4 | | | | | | 10 | 5 |
| 40 | 19X31A0541 | 2 | | | | | | 0 | | | | | | 5 | 5 |
| 41 | 19X31A0542 | 4 | | | 4 | | | | | | | | | 10 | 5 |
| 42 | 19X31A0543 | 5 | | | | | | 3 | | | | | | 9 | 5 |
| 43 | 19X31A0544 | 3 | | | | | | | | | 5 | | | 8 | 5 |
| 44 | 19X31A0545 | | | | | | | 5 | | | 3 | | | 9 | 5 |
| 45 | 19X31A0546 | 2 | | | | | | 0 | | | | | | 5 | 5 |
| 46 | 19X31A0547 | | | | | | | 4 | | | 4 | | | 10 | 5 |
| 47 | 19X31A0548 | | | | 5 | | | | | | 3 | | | 9 | 5 |
| 48 | 19X31A0549 | | | | | | | 4 | | | 4 | | | 10 | 5 |
| 49 | 19X31A0550 | | | | 5 | | | 3 | | | | | | 9 | 5 |
| 50 | 19X31A0551 | | | | 5 | | | 5 | | | | | | 10 | 5 |
| 51 | 19X31A0552 | | | | | | | 3 | | | 5 | | | 8 | 5 |
| 52 | 19X31A0553 | 2 | | | | | | | | | 1 | | | 5 | 5 |
| 53 | 19X31A0554 | 3 | | | | | | | | | 5 | | | 8 | 5 |
| 54 | 19X31A0555 | | | | 2 | | | | | | 1 | | | 5 | 5 |
| 55 | 19X31A0556 | 4 | | | | | | 3 | | | | | | 8 | 5 |
| 56 | 19X31A0557 | | | | | | | 5 | | | 3 | | | 9 | 5 |
| 57 | 19X31A0558 | 3 | | | | | | 4 | | | | | | 7 | 5 |
| 58 | 19X31A0559 | 3 | | | | | | 5 | | | | | | 8 | 5 |
| 59 | 20X35A0501 | 5 | | | | | | 3 | | | | | | 9 | 5 |
| 60 | 20X35A0502 | | | | 4 | | | 3 | | | | | | 8 | 5 |
| 61 | 20X35A0503 | 4 | | | | | | 3 | | | | | | 8 | 5 |
| 62 | 20X35A0504 | | | | 4 | | | 4 | | | | | | 10 | 5 |
| 63 | 20X35A0505 | | | | 4 | | | 3 | | | | | | 8 | 5 |
| 64 | 20X35A0506 | | | | 4 | | | 4 | | | | | | 10 | 5 |
| 65 | 18X31A0511 | | | | | | | 3 | | | 4 | | | 7 | 5 |
| 66 | 18X31A0522 | | | | | | | 3 | | | 0 | | | 5 | 5 |
| 67 | 18X31A0531 | 4 | | | | | | 3 | | | | | | 8 | 5 |
| 68 | 18X31A0593 | 4 | | | | | | 3 | | | | | | 8 | 5 |
| Target set by the faculty / HoD | | 3.00 | 0.00 | 0.00 | 3.00 | 0.00 | 0.00 | 3.00 | 0.00 | 0.00 | 3.00 | 0.00 | 0.00 | 6.00 | 3.00 |
| Number of students performed above the target | | 37 | 0 | 0 | 21 | 0 | 0 | 41 | 0 | 0 | 26 | 0 | 0 | 62 | 68 |
| Number of students attempted | | 40 | 0 | 0 | 23 | 0 | 0 | 43 | 0 | 0 | 30 | 0 | 0 | 68 | 68 |
| Percentage of students scored more than target | | 93% | | | 91% | | | 95% | | | 87% | | | 91% | 100% |

CO Mapping with Exam Questions

| | | | | | | | | | | | | | | |
|--------|---|--|--|---|--|--|---|--|--|---|--|--|---|---|
| CO - 1 | | | | | | | | | | | | | | |
| CO - 2 | | | | | | | | | | | | | | |
| CO - 3 | | | | | | | | | | | | | | |
| CO - 4 | y | | | y | | | | | | | | | y | y |
| CO - 5 | | | | | | | y | | | | | | y | y |
| CO - 6 | | | | | | | | | | y | | | y | y |

CO Attainment based on Exam Questions:

| | | | | | | | | | | | | | | |
|--------|-----|--|--|-----|--|--|-----|--|--|-----|--|--|-----|------|
| CO - 1 | | | | | | | | | | | | | | |
| CO - 2 | | | | | | | | | | | | | | |
| CO - 3 | | | | | | | | | | | | | | |
| CO - 4 | 93% | | | 91% | | | | | | | | | 91% | 100% |
| CO - 5 | | | | | | | 95% | | | | | | 91% | 100% |
| CO - 6 | | | | | | | | | | 87% | | | 91% | 100% |

CO Attainment based on Exam Questions:

| CO | Subj | obj | | Asgn | Overall | Level | Attainment Level | |
|------|------|-----|--|------|---------|-------|------------------|-----|
| CO-1 | | | | | | | 1 | 40% |
| CO-2 | | | | | | | 2 | 50% |
| CO-3 | | | | | | | 3 | 60% |
| CO-4 | 92% | 91% | | 100% | 94% | 3.00 | | |
| CO-5 | 95% | 91% | | 100% | 96% | 3.00 | | |
| CO-6 | 87% | 91% | | 100% | 93% | 3.00 | | |

Attainment (Internal Examination-2) = 3.00

**SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Department of Computer science and Engineering

Course Outcome Attainment (University Examinations)

| Name of the faculty : K.MANMADHA | | | | Academic Year: 2022-23 | | |
|----------------------------------|-------------|---------------|--|-------------------------|-------------|---------------|
| Branch & Section: CSE -A | | | | Year / Semester: IV / I | | |
| Course Name: CLOUD COMPUTING | | | | | | |
| S.No | Roll Number | Marks Secured | | S.No | Roll Number | Marks Secured |
| 1 | 19X31A0501 | 40 | | 36 | 19X31A0537 | 41 |
| 2 | 19X31A0502 | 32 | | 37 | 19X31A0538 | 35 |
| 3 | 19X31A0503 | 37 | | 38 | 19X31A0539 | 45 |
| 4 | 19X31A0504 | 30 | | 39 | 19X31A0540 | 40 |
| 5 | 19X31A0505 | 35 | | 40 | 19X31A0541 | 30 |
| 6 | 19X31A0506 | 31 | | 41 | 19X31A0542 | 32 |
| 7 | 19X31A0507 | 34 | | 42 | 19X31A0543 | 44 |
| 8 | 19X31A0508 | 38 | | 43 | 19X31A0544 | 6 |
| 9 | 19X31A0509 | 8 | | 44 | 19X31A0545 | 26 |
| 10 | 19X31A0510 | 12 | | 45 | 19X31A0546 | 26 |
| 11 | 19X31A0511 | 36 | | 46 | 19X31A0547 | 34 |
| 12 | 19X31A0512 | 37 | | 47 | 19X31A0548 | 38 |
| 13 | 19X31A0513 | 7 | | 48 | 19X31A0549 | 41 |
| 14 | 19X31A0514 | 39 | | 49 | 19X31A0550 | 38 |
| 15 | 19X31A0515 | 37 | | 50 | 19X31A0551 | 44 |
| 16 | 19X31A0517 | 30 | | 51 | 19X31A0552 | 42 |
| 17 | 19X31A0518 | 39 | | 52 | 19X31A0553 | 41 |
| 18 | 19X31A0519 | 32 | | 53 | 19X31A0554 | 35 |
| 19 | 19X31A0520 | 41 | | 54 | 19X31A0555 | 31 |
| 20 | 19X31A0521 | 34 | | 55 | 19X31A0556 | 26 |
| 21 | 19X31A0522 | 26 | | 56 | 19X31A0557 | 48 |
| 22 | 19X31A0523 | 28 | | 57 | 19X31A0558 | 26 |
| 23 | 19X31A0524 | 38 | | 58 | 19X31A0559 | 18 |
| 24 | 19X31A0525 | 31 | | 59 | 20X35A0501 | 40 |
| 25 | 19X31A0526 | 41 | | 60 | 20X35A0502 | 19 |
| 26 | 19X31A0527 | 16 | | 61 | 20X35A0503 | 42 |
| 27 | 19X31A0528 | 29 | | 62 | 20X35A0504 | 39 |
| 28 | 19X31A0529 | 44 | | 63 | 20X35A0505 | 46 |
| 29 | 19X31A0530 | 35 | | 64 | 20X35A0506 | 36 |
| 30 | 19X31A0531 | 41 | | 65 | 18X31A0511 | 26 |
| 31 | 19X31A0532 | 38 | | 66 | 18X31A0522 | 26 |

| | | | | | | |
|--|------------|----|----------|----|-------------------------|-------------------|
| 32 | 19X31A0533 | 29 | | 67 | 18X31A0531 | 36 |
| 33 | 19X31A0534 | 44 | | 68 | 18X31A0593 | 19 |
| 34 | 19X31A0535 | 40 | | | | |
| 35 | 19X31A0536 | 33 | | | | |
| Max Marks | | 75 | | | | |
| Class Average mark | | | 33 | | Attainment Level | % students |
| Number of students performed above the target | | | 40 | | 1 | 40% |
| Number of successful students | | | 65 | | 2 | 50% |
| Percentage of students scored more than target | | | 62% | | 3 | 60% |
| Attainment level | | | 3 | | | |



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Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad

Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510

Website: <https://siiet.ac.in/>

Course Outcome Attainment

Name of the faculty : K.Manmadha

Academic Year:2022-23

Branch & Section: CSE -A

Examination:I Internal

Course Name: CLOUD COMPUTING

Year/sem:IV/I

| Course Outcomes | 1st Internal Exam | 2nd Internal Exam | Internal Exam | University Exam | Attainment Level |
|--|-------------------|-------------------|---------------|-----------------|------------------|
| CO1 | 3.00 | | 3.00 | 3.00 | 3.00 |
| CO2 | 3.00 | | 3.00 | 3.00 | 3.00 |
| CO3 | 3.00 | | 3.00 | 3.00 | 3.00 |
| CO4 | | 3.00 | 3.00 | 3.00 | 3.00 |
| CO5 | | 3.00 | 3.00 | 3.00 | 3.00 |
| CO6 | | 3.00 | 3.00 | 3.00 | 3.00 |
| Internal & University Attainment: | | | 3.00 | 3.00 | |
| Weightage | | | 25% | 75% | |
| CO Attainment for the course (Internal, University) | | | 0.75 | 2.25 | |
| CO Attainment for the course (Direct Method) | | | 3.00 | | |
| Overall course attainment level | | | | | 3.00 |



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Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510

Website: <https://siiet.ac.in/>

Mapping of course outcomes with program outcomes:

High -3 Medium -2 Low-1

| CO | Program Outcomes | | | | | | | | | | | | | |
|---------------|------------------|------|------|------|-----|------|------|-----|-----|-------|-------|------|------|------|
| | PO 1 | PO 2 | PO 3 | PO 4 | PO5 | PO 6 | PO 7 | PO8 | PO9 | PO 10 | PO 11 | PO12 | PSO1 | PSO2 |
| CO1 | 3 | 1 | 1 | 2 | - | - | - | - | - | - | - | - | 1 | - |
| CO2 | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - |
| CO3 | 3 | 3 | 2 | - | - | - | - | - | - | - | - | 1 | - | - |
| CO4 | 3 | - | 2 | - | - | - | - | - | - | - | - | - | - | - |
| CO5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CO6 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - |
| COURSE | 3 | 2 | 1.5 | 2 | | | | | | | | 1 | 1 | - |



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Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510

Website: <https://siiet.ac.in/>

Attendance Register Link:

https://drive.google.com/file/d/13LDVebaD_GHCJ899dm8ev4gBa9E3Zte2/view?usp=sharing