

Recognized Under 2(f) of UGC Act 1956 Approved by AICTE, New Delhi Affiliated to JNTUH, Hyderabad.

COURSE FILE

ON TOTAL QUALITY MANAGEMENT

Course Code – ME831OE

IV B.Tech II-SEMESTER

A.Y.: 2022-2023

Prepared by

Mr. MARUTI S W Assistant Professor

B. Rotta Kauld Computer Science & Engg. Dept. SRI INDU INSTITUTE OF ENGG & TECH. Sheriguda(M, Ibrahimpalnam/M), R.R.Dist-501 10

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

Main Road, Sheriguda, Ibrahimpatnam, R.R. Dist. 501 510. Campus Ph:9640590999, 9347187999, 8096951507.



Recognized Under 2(f) of UGC Act 1956 Approved by AICTE, New Delhi Affiliated to JNTUH, Hyderabad.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year	2022-2023
Course Title	TOTAL QUALITY MANAGEMENT
Course Code	ME831OE
Programme	B.Tech
Year & Semester	IV year II-semester
Branch & Section	CSE-A
Regulation	R18
Course Faculty	Mr.MARUTI S W, Assistant Professor

Index of Course File

S. No.	Name of the content
1	Institute vision and mission
2	Department vision and mission /PEO
3	POs /PSOs
4	Course Syllabus with Structure
5	Course Outcomes (CO)
6	Mapping CO with PO/PSO; Course with PO/PSO with Justification
7	Academic Calendar
8	Time table - highlighting your course periods including tutorial
9	Lesson plan with number of hours/periods, TA/TM, Text/Reference book
10	Web references
11	Lecture notes
12	List of Power point presentations / Videos
13	University Question papers
14	Internal Question papers, Key with CO and BT
15	Assignment Question papers mapped with CO and BT
	Result Analysis to identify weak and advanced learners - 3 times in a
16	semester
17	Result Analysis at the end of the course
18	Remedial class for weak students - schedule and evidences
19	Advance Learners- Engagement documentation
20	CO, PO/PSO attainment sheets
21	Attendance register (Theory/Tutorial/Remedial) - Teacher/Course delivery record; Continuous evaluation
22	Course file (Digital form)

Main Road, Sheriguda, Ibrahimpatnam, R.R. Dist. 501 510. Campus Ph:9640590999, 9347187999, 8096951507.



Recognized Under 2(f) of UGC Act 1956 Approved by AICTE, New Delhi Affiliated to JNTUH, Hyderabad.

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

Computer Science & Engg. Dept. SRI INDU INSTITUTE OF ENGG & TECH. Sheriguda(V), Ibrahimnatnam/M), R.R.Dist-501 10

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

Main Road, Sheriguda, Ibrahimpatnam, R.R. Dist. 501 510. Campus Ph:9640590999, 9347187999, 8096951507.



Recognized Under 2(f) of UGC Act 1956 Approved by AICTE, New Delhi Affiliated to JNTUH, Hyderabad.

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.

B. Ratia Kaul Computer Science & Engg. Dept. SRI INDU INSTITUTE OF ENGG & TECH. Sheriguda(V), Ibrahimnatnam/M), R.R.Dist-501 10

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

Main Road, Sheriguda, Ibrahimpatnam, R.R. Dist. 501 510. Campus Ph:9640590999, 9347187999, 8096951507.



Recognized Under 2(f) of UGC Act 1956 Approved by AICTE, New Delhi Affiliated to JNTUH, Hyderabad.

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.

B. Ratia Kaul Computer Science & Engg. Dept. SRI INDU INSTITUTE OF ENGG & TECH. Sheriguda(M), Ibrahimnatnam/M), R.R.Dist-501 10

PRINCIPAL

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

Main Road, Sheriguda, Ibrahimpatnam, R.R. Dist. 501 510. Campus Ph:9640590999, 9347187999, 8096951507.



Recognized Under 2(f) of UGC Act 1956 Approved by AICTE, New Delhi Affiliated to JNTUH, Hyderabad.

ROGRAMME 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 modeling 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.

Main Road, Sheriguda, Ibrahimpatnam, R.R. Dist. 501 510. Campus Ph:9640590999, 9347187999, 8096951507.

JAWAHARLALNEHRUTECHNOLOGICALUNIVERSITYHYDERABAD B.Tech in COMPUTERSCIENCEANDENGINEERING

IV YEAR COURSESTRUCTURE AND SYLLABUS (R18)

ApplicableFrom2018-19Admitted Batch

IVYEAR I SEMESTER

S.No	Course Code	Course Title	L	Т	Р	Credits
1	CS701PC	Data Mining	4	0	0	4
2	CS702PC	Principles of Programming Languages	4	0	0	4
3		Professional Elective–II	3	0	0	3
4		Professional Elective– III	3	0	0	3
5		Professional Elective–IV	3	0	0	3
6	CS703PC	Data Mining Lab	0	0	3	2
7	CS751PC	PE-IILab [#]	0	0	3	2
8	CS705PC	Industry Oriented Mini Project	0	0	3	2
9	CS706PC	Seminar	0	0	2	1
		Total Credits	17	0	11	24

IV YEAR II SEMESTER

S.No	Course Code	Course Title	L	Т	Р	Credits
<mark>1</mark>	ME831OE	Open Elective-III	3	0	0	3
2		Professional Elective–V	3	0	0	3
3		Professional Elective–VI	3	0	0	3
4	CS801PC	Major Project	0	0	30	15
		Total Credits	9	0	30	24

*MC-Environmental Science-Be registered by Lateral Entry Students Only.

Note: Industrial Oriented Mini Project/ Summer Internship is to be carried out during the summer vacation between 6th and 7th semesters. Students should submit report of Industrial Oriented Mini Project/Summer Internship for evaluation.

Professional Elective-V

CS851PE	Information Theory & Coding
CS852PE	Real-Time Systems
CS853PE	Data Analytic
CS854PE	Modern Software Engineering

Professional Elective–VI

CS861PE	Advanced Algorithms
CS862PE	Web Services and Service Oriented Architecture
CS863PE	Computer Forensics
CS864PE	Neural Networks and Deep Learning

*Open Elective subjects' syllabus is provided in a separate document.

*Open Elective – Students should take Open Electives from the List of Open Electives Offered by Other Departments/Branches Only.

Ex: - A Student of Mechanical Engineering can take Open Electives from all other

Departments/branches except Open Electives offered by Mechanical Engineering Dept.

Open Elective-III

CS831OE	Linux Programming
CN831OE	Remote Sensing and GIS
ME831OE	Total Quality Management
EM831OE	Data Analytic

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(ME831OE) Total Quality Management (Open elective-III)

B.Tech. IV Year II SEM	LTP	2

300 3

Course Objectives:

- Understand what is Total Quality Management
- Analyze the concept of customer focus and satisfaction
- Analyze the Total Quality Management organization
- Explain seven Tools of TQM
- Understand the cost of quality
- Understand the ISO 9000 Standards.

Course Outcomes:

- Ability to understand what is Total Quality Management.
- Ability to analyze the concept of customer focus and satisfaction
- Ability to analyze the Total Quality Management organization
- Ability to understand the cost of quality
- Ability to understand the ISO 9000 Standards.

UNIT - I

Introduction: - The concept of TQM, Quality and Business performance, attitude, and involvement of top management, communication, culture and management systems.

Management of Process Quality: Definition of quality, Quality Control, a brief history, Product Inspection vs. Process Control, Statistical Quality Control, Control Charts and Acceptance Sampling.

UNIT –II

Customer Focus and Satisfaction: - Process vs. Customer, internal customer conflict, quality focus,

 $Customer\ Satisfaction,\ role\ of\ Marketing\ and\ Sales,\ Buyer-Supplier\ relationships.$

Bench Marking:- Evolution of Bench Marking, meaning of bench marking, benefits of bench marketing, the bench marking procedure, pitfalls of bench marketing.

UNIT- III

Organizing for TQM: The systems approach, organizing for quality implementation, making the transition from a traditional to a TQM organization, Quality Circles,

Seven Tools of TQM:- Stratification, check sheet, Scatter diagram, lshikawa diagram, paneto diagram, Kepner &Trego Methodology.

UNIT- IV

The Cost of Quality: Definition of the Cost of Quality, Quality Costs, Measuring Quality Costs, use of Quality Cost information, Accounting Systems and Quality Management.

UNIT –V

ISO9000: Universal Standards of Quality: ISO around the world, The ISO9000 ANSI/ASQC Q- 90. Series Standards, benefits of ISO9000 certification, the third party audit, Documentation ISO9000 and services, the cost of certification implementing the system.

TEXT BOOK: 1. Total Quality Management / Joel E. Ross/Taylor and Franscis Limited

2. Total Quality Management/P. N. Mukherjee/PHI

REFERENCE BOOKS:

- 1. Beyond TQM / Robert L.Flood
- 2. Statistical Quality Control / E.L. Grant.
- 3. . Total Quality Management: A Practical Approach/H.Lal
- 4. . Quality Management/Kanishka Bedi/Oxford University Press/2011
- 5. . Total Engineering Quality Management/Sunil Sharma/Macmillan



Department of Computer Science and Engineering

Course Outcomes

Course: TOTAL QUALITY MANAGEMENT

Class: IV – II SEM

After Completing This Course The Student Will Be Able To:

- C421.1 Analyze and Understand what total quality management is. (Application)
- C421.2 Analyze the concept of customer focus and satisfaction. (Application)
- C421.3 Analyze and describe Total Quality Management Organization. (Application)
- C421.4 Describe and explain the working principle of Seven Tools of Total Quality Management. (Knowledge)
- C421.5 Understand and Discuss the Cost of Quality in total quality management. (Knowledge)
- C421.6 Discuss and understand the ISO 9000 Standards. (Knowledge)

Mapping of course outcomes with program outcomes:

High	-3			Med	lium-2			Lo	w-1					
PO / CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C421.1	2	3	-	-	-	-	-	-	-	-	-	-	1	-
C421.2	3	2	-	-	-	-	-	-	-	-	-	-	-	-
C421.3	2	3	-	-	-	-	-	-	-	-	-	-	1	-
C421.4	2	3	1	-	-	-	-	-	-	-	-	-	-	-
C421.5	1	2	3	-	-	-	-	-	-	-	-	-	-	-
C421.6	3	2	-	-	-	-	-	-	-	-	-	-	1	-
AVG	2.16	2.5	0.67	-	-	-	-	-	-	-	-	-	0.5	-

AND AND ALL AN

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956

(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/

<u>CO-PO Mapping Justification</u>

C421.1	Analyze and Understand what total quality management is. (Application)							
	Justification							
PO1	Knowledge of Engineering Fundamentals by product and service quality.							
PO2	Identify and formulate the engineering problems by using basic concepts in total quality management.							
PSO1	Importance of integrating professional skills within the context of TQM tools and techniques.							

C421.2	Analyze the concept of customer focus and satisfaction.(Application)					
	Justification					
PO1	Improve the Knowledge by using various TQM tools and techniques.					
PO2	Problem analysis is done by TQM principles.					

C421.3	Analyze and describe Total Quality Management Organization.(Application)				
	Justification				
PO1	Knowledge is gained by using different types of QFD tool.				
PO2	Problem analysis applying ISO Standards and Quality system concepts.				
PSO1	Explain the various ISO Standards and Quality systems practiced in various sector.				

C421.4	Describe and explain the working principle of Seven Tools of Total Quality							
	Management.(Knowledge)							
	Justification							
PO1	Apply the knowledge of TQM principles for quality improvement.							
PO2	Problem analysis understands the concepts QFD tool to design and develop a new							
	product.							
PO3	Development of solutions by using ISO Standards and Quality systems.							

C421.5	Understand and Discuss the Cost of Quality in total quality management. (Knowledge)
	Justification
PO1	Apply the knowledge of TQM principles for quality improvement.
PO2	Analyze the concepts of Total Quality Management.
PO3	Develop the solutions by using Genuchi's method.

C421.6	Discuss and understand the ISO 9000 Standards. (Knowledge)
	Justification
PO1	Knowledge is gained by using ISO 9000 Standards.
PO2	Describe various ISO Standards and Quality systems practiced in various sector.
PSO1	Discuss the knowledge of different Quality management methods to improve the
	manufacturing sectors.

Constant of the second		Khalsa R	brahimpatnam, Sherigu	AICTE, New Delhi	and Affiliated nam (M), Ran ://siiet.ac.in/	to JNTUH, Hyder	rabad))		
Class: P	V B. Tech CSE -A	. s	emester: II	LH. NO	D: A-101		W.E	.F:29-08-2022		
Period/	1	2	3	4	1:00-	5	6	7		
Day	9:40-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:30	1:30-2:20	2:20-3:10	3:10-4:00		
Monday		PROJECT W	ORK STAGE-II			PRO	ECT WORK ST/	stration of the state of the st		
Tuesday		PROJECT W	ORK STAGE-II			PROJECT WORK STAGE-II				
Wednesday		PROJECT W	ORK STAGE-II			PRO	ECT WORK ST	AGE-II		
Thursday	DS	COUN	TQM	ÓB	l ĉ 🗆	TQM	LIB	OB		
Friday	OB	TQM	INT	OB	H L	DS	TQM SPORTS SS/DAA DS			
Saturday	TQM	DS	OB	DS		CO-C/S				
	oncern faculty)				P-M-st					
Subject Code	Subj	ect Name	Name of th	e Faculty	Subject Code	Subject Na	ame Name of the Faculty			
SM801MS	Organizat	ional Behaviour	Mrs G M	Nikitha		Project Stage		atna Kanth/Mr.Veera re K/ Mrs K.Anusha		
CS812PE	Distrib	ated Systems	Mrs M J	Karuna	INT	Internet	M	Mrs K.Manmadha		
	Total Qual	ity Management	S W M	aruthi	LIB	Library	Mrs K.Anusha			
	CO-0	C/SS/DAA	Mrs M I	Karuna	COUN	Counsellin	g Mrs K.Manmadha			
Sports	3	Sports	Mr Ch Pr	rabhakar				_		
Cla	ss In-Charge :Mrs	M.Karuna	Men	ator 1 : M.Karuna			Mentor 2: K.Anusha			
ass for Charge	97		Computer	nce & Engg. De TE OF ENGG & TE			Set Indu Im	PRINCIPALing &		



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956 (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/

LESSON PLAN

Course Title	TOTAL QUALITY MANAGEMENT
Course Code	ME831OE
Programme	B.Tech
Year & Semester	IV-year II-semester
Regulation	R18
Course Faculty	Mr. MARUTI. S.W, Assistant Professor, MECH

S.NO	Unit	ΤΟΡΙϹ	Number of Sessions Planned	Teaching method/Aids	REFERENCE
1	Ι	The concept of TQM,	1	Black Board	T1
2		Quality and Business performance,	1	Black Board	T1
3		Attitude, and involvement of top management,	1	Black Board	T1
4		Communication, culture and management systems.	1	Black Board	T1
5		Management of Process Quality	1	Black Board	T1
6		Definition of quality.	1	Black Board	T1
7		Quality Control- A brief history.	1	Black Board	T1
8		Product Inspection vs. Process Control.	1	Black Board	T1
9		Product Inspection vs. Process Control.	1	Black Board	T1
10		Control Charts and Acceptance Sampling.	1	Black Board	T1
11	II	Customer Focus and Satisfaction	1	Black Board	T1

12		Process vs. Customer	1	Black Board	T1
13		Internal customer conflict	1	Black Board	T1
14	_	Quality focus	1	Black Board	T1
15		Customer Satisfaction	1	Black Board	T1
16		Role of Marketing and Sales	1	Black Board	T1
17	_	Buyer – Supplier relationships	1	Black Board	T1
18	_	Bench Marking:- Evolution of Bench Marking	1	Black Board	T1
19		Meaning of bench marking	1	Black Board	T1
20		Benefits of bench marketing	1	Black Board	T1
21	_	The bench marking procedure	1	Black Board	T1
22		Pitfalls of bench marketing	1	Black Board	T1
23	III	Organizing for TQM: The systems approach	1	Black Board	T1
24		Organizing for quality implementation	1	Black Board	T1
25		Making the transition from a traditional to a TQM organization	1	Black Board	T1
26	_	Quality Circles.	1	Black Board	T1
27	_	Seven Tools of TQM:- Stratification.	1	Black Board	T1
28	_	Check sheet.	1	Black Board	T1
29		Scatter diagram.	1	Black Board	T1
30		Lshikawa diagram.	1	Black Board	T1
31		Paneto diagram.	1	Black Board	T1
32		Kepner &Trego Methodology.	1	Black Board	T1
33	IV	The Cost of Quality:- Definition of the Cost of Quality	1	Black Board	T1

34		Quality Costs	1	Black Board	T1
35	-	Measuring Quality Costs	1	Black Board	T1
36		Use of Quality Cost information	1	Black Board	T1
37		Accounting Systems	1	Black Board	T1
38		Quality Management.	1	Black Board	T1
39	V	ISO9000:- Universal Standards of Quality.	1	Black Board	T1
40		ISO around the world.	1	Black Board	T1
41	_	The ISO9000 ANSI/ASQC Q- 90.	1	Black Board	T1
42		Series Standards.	1	Black Board	T1
43		Benefits of ISO9000 certification	1	Black Board	T 1
44		The third party audit.	1	Black Board	T1
45	_	Documentation ISO9000 and services.	1	Black Board	T1
46		The cost of certification implementing the system.	1	Black Board	T1
47		The ISO9000 ANSI/ASQC Q- 90-Revision	1	Black Board	T1
48		Documentation ISO9000 and services-Revision	1	Black Board	T1
49		Use of Quality Cost information	1	Black Board	T1
50		The cost of certification implementing the system.	1	Black Board	T1
		implementing the system.			

TEXT BOOK: 1. Total Quality Management / Joel E. Ross/Taylor and Franscis Limited

2. Total Quality Management/P. N. Mukherjee/PH

REFERENCE BOOKS:

- 1. Beyond TQM / Robert L.Flood
- 2. Statistical Quality Control / E.L. Grant.
- 3. Total Quality Management: A Practical Approach/H. Lal
- 4. Quality Management/Kanishka Bedi/Oxford University Press/2011
- 5. Total Engineering Quality Management/Sunil Sharma/Macmillan

WEB REFERENCE

S.No

Web Link

- 1 <u>https://asq.org/quality-resources/total-quality-management</u>
- 2 <u>https://management.org/quality/total-quality-management.</u>
- 3 <u>https://www.bmc.com/blogs/tqm-total-quality-management/</u>



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956 (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/

LECTURER NOTES

<u>UNIT-1</u>

https://drive.google.com/file/d/1mV-yMMsxNmp8rZarCiEEaMNk33JT57Rq/view?usp=drive_link

UNIT-2

https://drive.google.com/file/d/11XXbidAQX75Q-7_HEgZiF9M6EJ7Xv6Vf/view?usp=drive_link

<u>UNIT-3-5</u>

https://drive.google.com/file/d/1CyUisnqD0h4KCnEb8ts4lm89vS8Sd6Tt/view?usp=drive_link



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956 (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/

POWER POINT PRESENTATIONS

- https://docs.google.com/presentation/d/14oVqf5pC75wXB9sxggCxt8r3F1IRgd2e/edit?usp=sharing&ouid
 =116127377653932696240&rtpof=true&sd=true
- 2. <u>https://docs.google.com/presentation/d/1BT6iK9DEWYwwqgbQyUmYCv5oMPq1c6Tg/edit?usp=drive_link&ouid=116127377653932696240&rtpof=true&sd=true</u>
- 3. <u>https://www.slideshare.net/SzAli1/organizing-for-total-quality-management</u>
- 4. <u>https://www.slideshare.net/jeffinscaria25/cost-of-quality-qm</u>
- 5. <u>https://docs.google.com/presentation/d/1FeaKHkOWwmqH9kAPKio94geby9IG6oSd/edit?usp=drive_link</u>

<u>&ouid=116127377653932696240&rtpof=true&sd=true</u>

(Mechanical Engineering)

Max. Marks: 75

Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

		(25 Marks)
	Why inspection is called just a screening process?	[2]
b)	Define quality.	[3]
c)	How does process control enable better quality than product control?	[2]
d)	Who is an internal customer?	[3]
e)	What does scatter diagram reveal?	[2]
f)	What is Pareto Principle?	[3]
g)	Give two examples of quality appraisal costs.	[2]
h)	Give three components of external failure costs.	[3]
i)	Are ISO 9000 standards, process based or product based?	[2]
j)	What is ISO 9004 standard about?	[3]
	DADT D	

PART - B

(50 Marks)

2. Construct the number of defect chart for the data given below:

Sub	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	25	25
group																									
No. of	2	3	0	1	3	5	3	1	2	2	0	1	0	2	4	1	2	0	3	2	1	4	0	0	3
defect																									

Mark the central level, UCL and LCL and plot.

OR

[10]

3.a) What is acceptance sampling? What are its advantages and disadvantages?

b) What are the benefits of TQM?

4.a) Define benchmarking.

b) Explain the process of benchmarking.

OR

- 5.a) Who is customer? What is customer satisfaction? What is vendor rating?
- 6.a) What is fishbone diagram? What purpose does it serve?
 - b) Explain briefly what is meant by quality circle.

OR

- 7.a) How does Check- sheet serve as TQM tool?
- b) What is the role of teams in organizing for TQM?

Time: 3 hours

8. a) What is the importance of analyzing quality cost information?	
b) What is the need for separate quality accounting system? [5	5+5]
OR	
9. Discuss the various types of quality costs. [1	10]
10. a) Explain the benefits of ISO certification.	
b) What is quality policy statement? [5	5+5]
OR	
11. What are the various quality-documentation requirements for ISO 9000 certification?	? [10]

-00O00---

	INO:138HC JAWAHARLALNEHRUTECHNOLOGICALUNIVERSITY HYDERAF B.TechIVYearIISemesterExaminations,December-2020 TOTAL QUALITY MANAGEMENT (CommontoCE,EEE,ECE,CSE,IT)	R16 BAD Marks:75
1.a) b)	Whatareconsideredthefourabsolutesofquality? Whatarethe underlyingassumptions andguidingprinciplesofTQM?	[7+8]
2.a) b)	Whatarethevariousfeaturesof quality? Whatisthe weaknessofthe 'policyofinspection'asa qualityimprovement measu	ıre? [7+8]
3.a) b)	What is the difference between 'competitive benchmarking' and 'functional 'Benchmarking'? Distinguishbetween 'internal customers' and 'external customers'.	[8+7]
4.a) b)	Whataretheoperationsandcharacteristicswhichshouldbecomparedduring bencher Whatarethemostimportant reasonsforfailuresofbenchmarking?	hmarking? [9+6]
5.a) b)	Whatarethe rolesarevarious functionaries of quality circle? What is the role check-sheet inlocating quality problem?	[9+6]
6.	Describe theorganization structure for TQM implementation.	[15]
7.a) b)	Whatisthestep-by-stepapproachtoconductofcostofqualitystudyinanorganization Whatis processcost approachreporting costof quality?	on? [9+6]
8.	WhatarethebasicstagesofISO9000certificationprocess?Explainthestepsof asse procedure by the certifying agency.	essment [15]

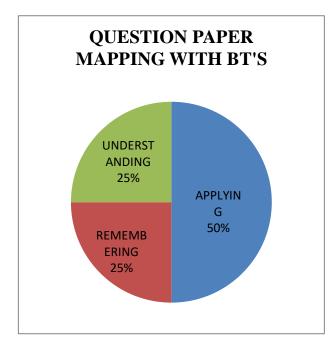
---00000----

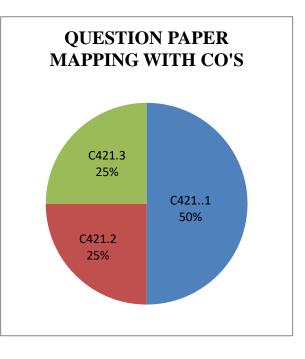
Sheriguda (V), Ibrahimpatnam (M), R.R.Dist-501 510

I- Mid Examinations, MAY-2023

Year & Branch: IV-II-CSE (A, B&C) and MECH		Date:09-05-2023(FN)
Subject: Total Quality Management	Max. Marks: 10	Time: 60 Min

Answer any TWO Questions. All Question Carry Equal Marks2X5=10 marks1. Define TQM According to ISO.(Applying-L3) (C421.1) (5M)2. Who is an internal customer?(Remembering-L1) (C421.2) (5M)3. Explain PDCA cycle.(Applying-L3) (C421.1) (5M)4. Explain Statistical Quality Control(Understanding-L2) (C421.3) (5M)





Set - I

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

I- Mid Examinations, MAY-2023

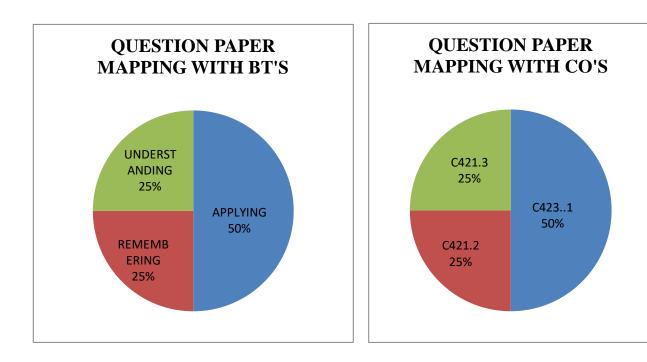
Year & Branch: IV-II-CSE (A, B&C) and MECH		Date:09-05-2023(FN)
Subject: Total Quality Management	Max. Marks: 10	Time: 60 Min

Answer any **TWO** Questions. All Question Carry Equal Marks

- 1. Explain PDCA cycle.
- 2. Who is an internal customer?
- 3. Define TQM According to ISO.
- 4. Explain Statistical Quality Control

Equal Marks 2X5=10 marks
(Applying-L3) (C421.1) (5M)
(Remembering-L1) (C421.2) (5M)
(Applying-L3) (C421.1) (5M)
(Understanding-L2) (C421.3) (5M)

Set - II



Sheriguda (V), Ibrahimpatnam (M), R.R.Dist-501 510 B.Tech. IV Year II Sem., I Mid, Examinations, MAY-2023

Department of Mechanical Engineering

Sub: Total Quality Management	Date: 09-05-2023 (FN)
OBJECTIVE EXAM	
Name: Ha	all Ticket no.
Answer all Questions. All Questions Car	rry Equal Marks. Time: 20 Min. Marks: 10.
I. Choose the correct answer.	
 How a quality can be quantified A. performance + expectations B. performance x expectations 	() C. performance – expectations D. performance / expectation
2. Traditional culture of quality requirementA. product orientedB. process oriented	nts focuses on () C. customer oriented D. supplier oriented
3. American quality guru who took the merA. genichi taguchiB. masaaki imai	ssage of quality to Japan () C. shigeo shingo D. w. edwards deming
4. PDCA cycle is the contribution ofA. walter shewhartB. philip crosby	() C. genichi taguchi D. w. edward deming
 5. Which one is Juran's "three- role mode" A. supplier – process – customer B. customer - process – customer 	" () C. process – customer – supplier D. process – supplier – customer
6. In TQM, how many elements are there A. 1 B. 2	in Quality statements () C. 3 D. 4
7. What are the elements of Quality statemA. vision statementB. mission statement	ents () C. quality policy statement D. all the above
 Quality Trilogy is the contributions of A. Walter shewhart 	() C. joseph m juran
B. Philip Crosby	D. w. Edward demin

9. In TQM, the contributions of quality Gur	u Joseph M Juran	()
A. internal customer	C. breakthrough concept		
B. cost of quality	D. all the above		
10. The contributions of quality Guru Philip	Crosby in TQM	()
A. pdca cycle	C. pdsa		
B. quality trilogy	D. concept of zero defects		

II. Fill in the blanks

11. _________ is primarily about detecting defective output rather than preventing it.

12.______ is the outcome of poor quality.
13. The _______ should be committed to making changes to maximize the profit within

the given time period.

15. _______ is a term used to describe the process of preparing and collecting data.

16. The ______ of reports can also be improved with a cover letter or executive summary.

17. If the ______ do not want to see a Quality culture in the organization then

procedures, tools, and database are all useless.

18. According to the theory (Maslow, 1987), human needs fall into ______ fundamental categories.

19. To build a quality organisation, _____ high-level skills are needed.

20. Providing _______at all levels is a starting point to ensure action on quality.

Sheriguda (V), Ibrahimpatnam (M), R.R.Dist-501 510 **II- Mid Examinations, JUNE-2023**

Set - I Date:-

Year & Branch: IV-C	SE-A, B&C&ME		Date:-
13-06-2023(FN)		Subject: Total Quality Management	Max.
Marks: 10	Time: 60 Min		
Note: i) Answer any T	WO Questions.		

ii) All Question Carry Equal Marks

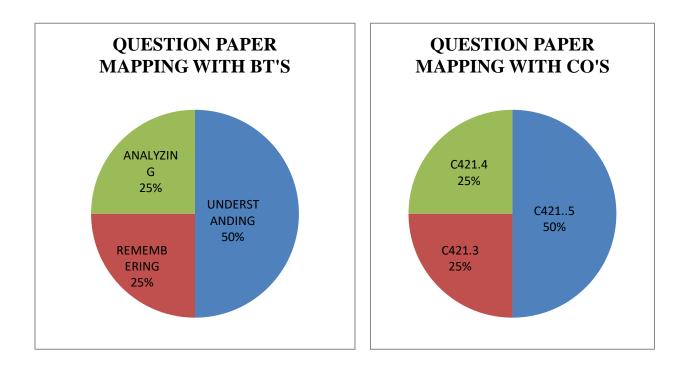
2X5=10 marks

1. Discuss Stratification and Ishikawa Diagram. (Remembering-L1) (C421.3) (5M)

2. Explain Costs of quality and list its main types. (Understanding-L2) (C421.5) (5M)

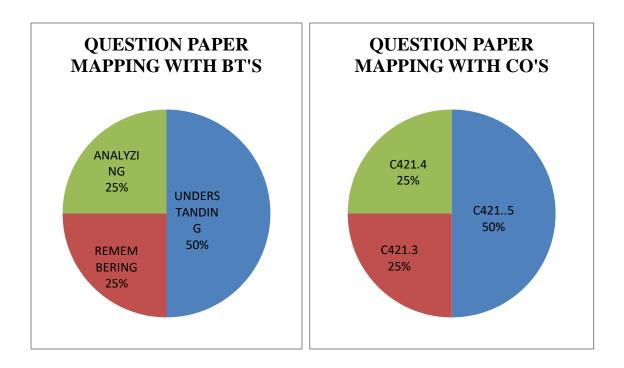
3. Explain Prevention costs and Appraisal costs with Examples. (Understanding-L2) (C421.5) (5M)

4. List the benefits of ISO 9000 quality management system. (Analyzing-L4) (C421.4) (5M)



Sri Inc	lu Institute of Engi	neering & Techr	nolog	y
	Sheriguda (V), Ibrahimpatna II- Mid Examinatio			Set - II
Year & Branch: I	V-CSE-A, B&C & ME		Dat	.e:- 13-
06-2023(FN)	Subject: T	otal Quality Management	Max.	Marks:
10	Time: 60 Min			
Note: i) Answer a	ny TWO Questions.			
ii) All Ques	tion Carry Equal Marks		2X5=1	0 marks
1. Discuss Stratif	ication and Ishikawa Diagram	(Remembering-L1) (C421	3) (5M)	

- 2. Explain Prevention costs and Appraisal costs with Examples.(Understanding-L2) (C421.5)(5M)
- 3. Explain Costs of quality and list its main types. (Understanding-L2) (C421.5)(5M)
- 4. List the benefits of ISO 9000 quality management system. (Analyzing-L4) (C421.4) (5M)



Sri Indu Institute of Engineering & Technology Sheriguda (V), Ibrahimpatnam (M), R.R.Dist-501 510 B.Tech. IV Year II Sem., II Mid, Examinations, JUNE-2022

Department of Mechanical Engineering

Sub: Total Quality Management	Date: 13-06-2023(FN)
OBJECTIVE EXAM.	
Name: H Ticket no.	Iall
Answer all Questions. All Questions Carry Equa	al Marks. Time: 20 Min. Marks: 10.
I. Choose the correct answer.	
 Which statistical technique integrates product de A. Tree analysis B. Problem solving techniques 	c. Quality function deployment D. Taguchi approach
2. What is the key step in Taguchi's approach?A. Tolerance designB. System design	() C. Parameter design D. Process design
3. What is called the stratification of informationA. Breaking down a whole group into smaller sub groups.B. Isolating the vital few from the trivial many	() C. Grouping of scattered information D. Sequencing of processes in a quality system
4. Which technique is used to relate complex causeA. Affinity diagramB. Pareto diagram	e and effect relationships? () C. Scatter diagram D. Interrelationship diagram
5. What is PDPC?A. A statistical toolB. Quality improvement technique	() C. Quality assurance technique D. Statistical process control technique
6. What is the first step in problem solving processA. PlanB. Do	S? () C. Check D. Action
7. How many control charts are normally used for s A. 1 C. 3 B. 2 D. 4	statistical control of variables? ()

8. Which tool is used to analyze the effects of a fai	lure of individual components on the s	syste	m?
		()
A. FTA	C. Quality circles		
B. FMEA	D. Fool proofing.		
9. Which of the following does not belong to Prev	vention Costs	()
A. Marketing research	C. Design quality progress reviews		
B. Customer/User perception surveys			
10. Which of the following does not belong to Internet.	ernal Failure Costs?	()
A. Uncontrolled Material Losses	C. Re-inspection / Retest Costs		
B. Purchased Material Replacement Costs	D. Supplier Reviews		

II. Fill in the blanks.

11. The cost associated with NOT producing quality products or services is called 12 improving quality conformance Costs associated with or cost of is called 13. Costs associated with appraising a product or service for conformance to requirements is called 14. Quality improvement, Quality education, and Quality performance reporting fall under the category of 15. Retrofit costs fall under the category of ______. 16. ISO 9000 determines _____. 17. ISO 9000 is a series is a _____. 18. The ISO 9000 series was originally introduced in _____year. 19. ISO 9000 having been adopted in over _____ countries. 20. The frequency distribution of a numerical data can be graphically represented by a ______.

Sheriguda (V), Ibrahimpatnam (M), R.R.Dist-501 510 I- Mid Examinations, NOV-2022

Year &Branch: IV-CSE (A,B,C)&ME Subject: Total Quality Management

Date: 09-05-2023(FN)

ANSWER KEY Descriptive paper key link:

https://drive.google.com/file/d/1mV-yMMsxNmp8rZarCiEEaMNk33JT57Rq/view?usp=drive_link

Objective/Quiz Key Paper

I. Multiple Choice Questions.

- 1. D.
- 2. A.
- 3. D.
- 4. D.
- 5. A.
- 6. C.
- 7. D.
- 8. C.
- 9. D.
- 10. A.

II. Fill in the blanks.

- 11. Quality control.
- 12. Failure Costs
- 13. Management
- 14. Draft
- 15. Data collection
- 16. Effectiveness.
- 17. Senior management.
- 18. Five
- 19. Three
- 20. Quality goals and measurements

SriIndu Institute of Engineering & TechnologySheriguda (V), Ibrahimpatnam (M), R.R.Dist-501 510II- Mid Examinations, JAN-2023Set - IYear &Branch: IV-CSE(A,B,C)&MESubject: Total Quality Management

<u>ANSWER KEY</u> Descriptive paper key link:

https://drive.google.com/file/d/11XXbidAQX75Q-7_HEgZiF9M6EJ7Xv6Vf/view?usp=drive_link

Objective/Quiz Key Paper

I. Multiple Choice Questions.

- 1. D
- 2. C
- 3. A
- 4. D
- 5. B
- 6. A
- 7. C
- 8. B
- 9. D
- 10. D

II. Fill in the blanks

- 11. Cost of Quality.
- 12. Cost of Good Quality.
- 13. Appraisal Costs.
- 14. Prevention Costs.
- 15. External Failure Costs.
- 16. If the company practices its written procedures.
- 17. Quality management standards.
- 18. 1987.
- 19. 178.
- 20. Histogram.



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956 (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/

Assignment Questions-I

(Assignment Questions are mapped with CO's, BT)

- Explain PDCA cycle. (Applying-L3) (C421.3)
 Who is an internal customer? (Remembering-L1) (C421.1)
 Define TQM According to ISO. (Applying-L3) (C421.3)
 Explain Statistical Quality Control (Understanding-L2) (C421.2)
- 5. What is the first step in problem solving process? (Remembering-L1) (C421.1)

Assignment Answer Key Link:

https://drive.google.com/file/d/1yn0bUst87j55AhiuMTNgp8TjznSWA9hq/view?usp=drive_link



Assignment Questions-II

(Assignment Questions are mapped with CO's, BT)

- 1. Discuss Stratification and Ishikawa Diagram (Remembering-L1) (C421.1)
- 2. Explain Prevention costs and Appraisal costs with Examples. (Understanding-L2) (C421.2)
- 3. Explain Costs of quality and list its main types. (Understanding-L2) (C421.3)
- 4. List the benefits of ISO 9000 quality management system. (Analyzing-L4) (C421.4)
- 5. What is the key step in Taguchi's approach? (Remembering-L1) (C421.1)

Assignment Answer Key Link:

https://drive.google.com/file/d/13Ryim0E1sWHqHrXKf8SXjBY2tnWg6H9p/view?usp=drive_link



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956 (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 Title	Total Quality Management	
Course Code	ME831OE	
Programme	B.Tech	
Year & Semester	IV-year II-semester	
Regulation	R18	
Course Faculty	Mr. MARUTI S W, Assistant Professor, MECH	

Slow learners:

S No	Roll no	No of backlogs	Internal-I Status	Internal-II Status
1	19X31A0510	5	14	16
2	19X31A0527	5	16	15
3	19X31A0556	5	15	16
4	19X31A0559	5	18	16
5	19X31A0546	4	16	14
6	19X31A0555	3	14	17

Advanced learners:

S.NO	ROLL.NO.	Documentation
1	19X31A0503	Total Quality Management:-Basics of
2	19X31A0504	
3	19X31A0505	TQM Principles, Methods of quality cost
4	19X31A0517	reduction.Genichi Taguchi Method. TQM
5	19X31A0518	Č Č
6	19X31A0519	Framework. Scope of ISO 9000 models of
7	19X31A0520	Standards.
8	19X31A0524	Stundards.
9	19X31A0534	
10	19X31A0537	
11	19X31A0539	
12	19X31A0543	
13	19X31A0547	
14	19X31A0550	
15	19X31A0551	
16	19X31A0552	



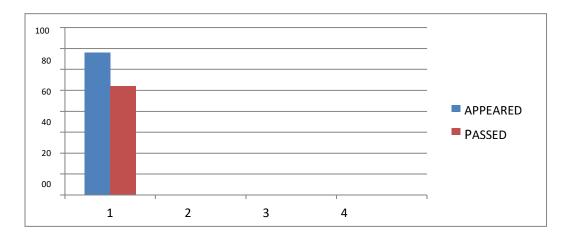
SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956 (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/

B.TECH. IV- II SEM CSE-A RESULT ANALYSIS

ACADAMIC	COURSE	NUMBE STUDE		QUESTIO SETI		PASS%
YEAR	NAME	APPEARED	PASSED	INTERNAL	EXTERNAL	
	TOTAL QUALITY			Course		
2022-2023	MANAGEMENT (ME831OE)	68	60	Faculty	Jntuh	88%

TOTAL QUALITY MANAGEMENT (ME8310E) RESULT ANALYSIS.





SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution under UGC)

Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956 (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/

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

REMEDIAL CLASSES TIME TABLE

A.Y 2022-23

SEMESTER-II

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	DM	JAVA	DBMS	BEFA	OS
II CSE-B	BEFA	DBMS	DM	OS	JAVA
II CSE-C	DBMS	OS	BEFA	JAVA	DM
III CSE-A	CD	ML	DAA	STM	FIOT
III CSE-B	DAA	FIOT	CD	ML	STM
III CSE-C	ML	STM	FIOT	CD	DAA
IVCSE-A	OB	TQM	DS		-
IV CSE-B	DS	OB	TQM	-	
IV CSE-C	TQM	DS	OB		

Computer Science & Engg. Dept. SRI INDU INSTITUTE OF ENGG & TECH. Sheriguda(V), Krahimhatnam/M), R.R.Dist-501 10.

PRINC IPAL

Sn Indu Institute of Engineering & Tech Sheriguda(Vill), Ibrahimpatham, R R Dist Telangana -501 510

	ALL ENGINEERING	SRI IN	IDU II	NSTI	FUTE (OF EN	IGINI	EERIN	NG AN	D TEC	CHNOI	LOGY			
	AND		D	epartn	nent of	Comp	uter sc	ience a	and Er	ngineeri	ng				
	RAMMENT NON		Cours	se Ou	tcome A	Attain	ment	(Inter	nal Ex	aminat	ion-1)				
Name of	f the faculty : MA	ARUTI	S W						Acad	lemic Y	ear: 20	22-23			
	& Section: CSE								Exan	ninatior	· I Inte	rnal			
	Name: TOTAL Q		TV M		EMEN	т			Year		Semest				
Course I		UALII				1	1		I cai	. 1 v	Semest				
C N		01	01	01		00	00		02	00	04		04	01:1	4.1
S.No	HT No.	Q1a	Q1 b	Q1 c	Q2a	Q2 b	Q2 c	Q3 a	Q3 b	Q3c	Q4a	Q4 b	Q4c	Obj1	A1
Max. Marks ==>		5			5			5			5			10	5
1	18X31A0511	3						2						5	5
2	18X31A0522				3			2						5	5
3	18X31A0531				3			2						5	5
4	18X31A0593				3			2						5	5
5	19X31A0501				5			3						9	5
6	19X31A0502	5						3						9	5
7	19X31A0503				4			4						10	5
8	19X31A0504				5			4						10	5
9	19X31A0505	5						5						10	5
10	19X31A0506							5			3			9	5
11	19X31A0507				5			3						9	5
12	19X31A0508				4			4						10	5
13	19X31A0509	5						4						10	5
14	19X31A0510	5			5									10	5
15	19X31A0511				5			3						9	5
16	19X31A0512				5						3			9	5
17	19X31A0513				5			5						10	5
18	19X31A0514				3			5						8	5
19	19X31A0515	4						4						10	5
20	19X31A0517	5						3						9	5
21	19X31A0518				5			3						9	5
22	19X31A0519	5						3				<u> </u>		9	5
23	19X31A0520	3						5						8	5
24	19X31A0521	3						5						8	5
25	19X31A0522	5						3						9	5
26	19X31A0523				5			3				<u> </u>		9	5
27	19X31A0524	ļ			4			4						10	5
28	19X31A0525	5						3						9	5

29	19X31A0526	4						4						10	5
30	19X31A0520	5						5						10	5
31	19X31A0528	5						5			4			10	5
32	19X31A0529				5			5			•			10	5
33	19X31A0530	4			5			4						10	5
34	19X31A0531	5						3						9	5
35	19X31A0532				4			-			4			10	5
36	19X31A0533	5			3									9	5
37	19X31A0534	-			5			3						9	5
38	19X31A0535	5						3						9	5
39	19X31A0536							5			4			10	5
40	19X31A0537	3						5						8	5
41	19X31A0538				5			4						10	5
42	19X31A0539	5						5						10	5
43	19X31A0540	5						3						9	5
44	19X31A0541				3			5						5	5
45	19X31A0542				4			4						10	5
46	19X31A0543				5			3						9	5
47	19X31A0544							5			3			9	5
48	19X31A0545	5						4						10	5
49	19X31A0546				3			5						8	5
50	19X31A0547				5			5						10	5
51	19X31A0548				4			4						10	5
52	19X31A0549				3			5						8	5
53	19X31A0550				4			4						10	5
54	19X31A0551				4			4						10	5
55	19X31A0552	3						4						5	5
56	19X31A0553				5			5						10	5
57	19X31A0554	3						5						5	5
58	19X31A0555				4			4						10	5
59	19X31A0556	5						4						10	5
60	19X31A0557				5			5						10	5
61	19X31A0558				4			4						10	5
62	19X31A0559				5			3						9	5
63	20X35A0501	5						3						9	5
64	20X35A0502				4			4						10	5
65	20X35A0503				4			4						10	5
66	20X35A0504				5			4						10	5
67	20X35A0505	5						3						9	5
68	20X35A0506				4			4						10	5
Target s	et by the / HoD	3.00	0.0 0	0.0 0	3.00	0.0 0	0.0 0	3.0 0	0.00	0.00	3.00	0.0 0	0.00	6.00	3.00
Number	of students ded above the	27	0	0	39	0	0	60	0	0	6	0	0	61	68

Number of students attempted	27	0	0	39	0	0	64	0	0	6	0	0	68	68
Percentage of students	100			100			94			100			90%	100%
scored more than	%			%			%			%				
target														

CO Mapping with Exam Questions:

CO - 1	Y								Y	Y
CO - 2			Y		Y				Y	Y
CO - 3							Y		Y	Y
CO - 4										
CO - 5										
CO - 6										

CO Attainment based on Exam Questions:

CO - 1	100%								90%	100%
CO - 2			100%		94				90%	100%
					%					
CO - 3							100		90%	100%
							%			
CO - 4										
CO - 5										
CO - 6										

СО	Subj	obj	Asgn	Overall	Level	
CO-1	100%	90%	100%	97%	3.00	
CO-2	97%	90%	100%	96%	3.00	
CO-3	100%	90%	100%	97%	3.00	
CO-4						
CO-5						
CO-6						

Atta Leve	inment el	
1	40%	
2	50%	
3	60%	

Attainment (Internal 1 Examination) = **3.00**

	UT ENGINEERING	S	RI IND	U INST	ITUTE	OF EN	GINE	RING	AND T	ECHN	OLOGY	ł			
	A CONTRACTOR OF			Depar	tment of	f Compu	iter scie	nce and	Engine	ering					
	III ZZYNY S		Co		utcome				Ŭ	Ŭ	2)				
Name o	f the faculty : M	ARUTI									ear: 2022	0_23			
	& Section: CSE		5 11								II Interi				
				ACEM	CNIT						nester: I				
Course	Name: TOTAL (JUALIT	I MAN	AGEIVI					rear:	IV Sel	nester: 1	1			
S.No	HT No.	01	0.41	01					0.01			0.0		Obj2	A2
Max. Marks		Q1a	Q1b	Q1c	Q2a	Q2b	Q2c	Q3a	Q3b	Q3c	Q4a	Q4b	Q4c	Obj2	A2
==>		5			5			5			5			10	5
1	18X31A0511	2						1						5	5
2	18X31A0522				2			0						5	5
3	18X31A0531	2									1			5	5
4	18X31A0593	2									0			5	5
5	19X31A0501	4			3									8	5
6	19X31A0502	3			4									7	5
7	19X31A0503				3			5						8	5
8	19X31A0504	3						5						8	5
9	19X31A0505	4						4						10	5
10	19X31A0506				3						4			7	5
11	19X31A0507	4									3			8	5
12	19X31A0508	4						3						8	5
13	19X31A0509	5						3						9	5
14	19X31A0510				5			3						9	5
15	19X31A0511	4									3			8	5
16	19X31A0512				3						4			7	5
17	19X31A0513	4									4			10	5
18	19X31A0514	4									3			6	5
19	19X31A0515							3			5			8	5
20	19X31A0517	3						4						7	5
21	19X31A0518				4						3		ļ	8	5
22	19X31A0519							3			4		ļ	7	5
23	19X31A0520	3						4					ļ	7	5
24	19X31A0521	4									3			6	5
25	19X31A0522	4						3						8	5
26	19X31A0523	3						4						7	5
27	19X31A0524							3			5			8	5
28	19X31A0525				3						4			7	5
29	19X31A0526				3						5			8	5
30	19X31A0527	5									3			9	5
31	19X31A0528	_			5						3			9	5
32	19X31A0529	5			3									9	5
33	19X31A0530	3									5			8	5
34	19X31A0531	3			ļ			4						7	5
35	19X31A0532				3			5						8	5
36	19X31A0533	3			4									7	5

	age of students more than	93%			96%			95%			93%			94%	100%
Number attempte	of students	40	0	0	23	0	0	43	0	0	30	0	0	68	68
	of students ed above the	37	0	0	22	0	0	41	0	0	28	0	0	64	68
Target s faculty	et by the / 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
68	20X35A0506	3						5						8	5
67	20X35A0505	3						4						7	5
66	20X35A0504							5			3			9	5
65	20X35A0503							4			3			8	5
64	20X35A0502				3			5						8	5
63	20X35A0501				3			4						7	5
62	19X31A0559				4			3						8	5
61	19X31A0558	4						3						8	5
60	19X31A0557				4			4						10	5
59	19X31A0556	3						5						8	5
58	19X31A0555	3						5						8	5
57	19X31A0554	4						4						10	5
56	19X31A0553							4			4			10	5
55	19X31A0552	4						4						10	5
54	19X31A0551				3						5			8	5
53	19X31A0550	4									3			8	5
52	19X31A0549	3									4			7	5
51	19X31A0548							4			3			8	5
50	19X31A0547				4			4						10	5
49	19X31A0545				4	<u> </u>		3			5			6	5
48	19X31A0544				5			5			3			9	5
47	19X31A0543				3						4			7	5
46	19X31A0542	-						4			3			8	5
45	19X31A0541	4						3			4			8	5
44	19X31A0540							4			4			0 10	5
43	19X31A0539 19X31A0540	4						3			3			9 8	5 5
41	19X31A0538	5			3			2						-	5
40	19X31A0537	5			2			3						6 9	5
40	19X31A0536	5						3						9	5
38 39	19X31A0535	3						4						7	5
37	19X31A0534	4						3						8	5

CO Attainment based on Exam Questions:

CO - 1										
CO - 2										
CO - 3										
CO - 4	93%								94%	100%
CO - 5			96%		95%				94%	100%
CO - 6							93%		94%	100%

со	Subj	obj	Asgn	Overall	Level
CO-1					
CO-2					
CO-3					
CO-4	93%	94%	100%	96%	2.00
CO-5	96%	94%	100%	97%	2.00
CO-6	93%	94%	100%	96%	2.00

-	Attainment Level				
1	1	40%			
2	2	50%			
~	3	60%			

Attainment (Internal Examination-2) = 2.00

	SRI INDU	J INSTITUTE OF ENGINEE	RING AND TECH	NOLOGY	
ALL SHI NON	SALAN SA	Department of Computer scien	nce and Engineering		
Ins	Сот	urse Outcome Attainment (U			
Name of	the faculty : MARUT			Year:2022-23	
Branch &	z Section: CSE -A		Year / Ser	mester: IV/II	
Course N	ame: TOTAL QUAI	LITY MANAGEMENT			
S.No	Roll Number	Marks Secured	S.No	Roll Number	Marks
					Secured
1	18X31A0511	8	36	19X31A0533	37
2	18X31A0522	-1	37	19X31A0534	48
3	18X31A0531	13	38	19X31A0535	43
4	18X31A0593	-1	39	19X31A0536	41
5	19X31A0501	26	40	19X31A0537	52
6	19X31A0502	26	41	19X31A0538	30
7	19X31A0503	28	42	19X31A0539	39
8	19X31A0504	26	43	19X31A0540	46
9	19X31A0505	26	44	19X31A0541	28
10	19X31A0506	14	45	19X31A0542	26
11	19X31A0507	15	46	19X31A0543	27
12	19X31A0508	16	47	19X31A0544	7
13	19X31A0509	6	48	19X31A0545	26
14	19X31A0510	10	49	19X31A0546	11
15	19X31A0511	15	50	19X31A0547	26
16	19X31A0512	26	51	19X31A0548	12
17	19X31A0513	12	52	19X31A0549	29
18	19X31A0514	26	53	19X31A0550	28
19	19X31A0515	26	54	19X31A0551	26
20	19X31A0517	26	55	19X31A0552	28
21	19X31A0518	33	56	19X31A0553	26
22	19X31A0519	34	57	19X31A0554	30
23	19X31A0520	32	58	19X31A0555	37
24	19X31A0521	34	59	19X31A0556	12
25	19X31A0522	17	60	19X31A0557	26
26	19X31A0523	26	61	19X31A0558	12
27	19X31A0524	29	62	19X31A0559	6
28	19X31A0525	28	63	20X35A0501	28
29	19X31A0526	42	64	20X35A0502	11
30	19X31A0527	14	65	20X35A0503	15
31	19X31A0528	26	66	20X35A0504	38
32	19X31A0529	32	67	20X35A0505	26
33	19X31A0530	26	68	20X35A0506	34
34	19X31A0531	26			
35	19X31A0532	41			

Max Marks	75			
Class Average mark		25	Attainment	%
			Level	students
Number of students performed ab	ove the target	47	1	40%
Number of successful students		66	2	50%
Percentage of students scored mo	ore than target	71%	3	60%
Attainment level		3		

SRI INDU INST	TITUTE OF ENGINEE	RING A	ND TE	CHNOLO	GY
INTER ENGINEERING	Department of Computer science	ce and Eng	gineering		
A CONTRACT OF CONTRACT.	Course Outcome At	tainment			
BRAHMPATNAN					
Name of the faculty : MARUT	SW			Academic Ye	ear: 2022-23
Branch & Section: CSE -A		Examination:	I Internal		
Course Name: TOTAL QUALIT	Y MANAGEMENT			Year: IV Ser	nester: II
			I	Γ	
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 A	ttainment:	3.00	3.00	
		Weightage	25%	75%	
CO Attainment for th	ne course (Internal, University)		0.75	2.25	
CO Attainment for	r the course (Direct Method)			3.00	

Overall course attainment level = **3.00**

SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Electronics and Communication Engineering

Program Outcome Attainm	<u>ent (from Course)</u>
Name of Faculty:	Academic Year: 2022-23
Branch & Section: CSE -A	Year: IV
Course Name: TOTAL QUALITY MANAGEMENT	Semester: II

CO-PO mapping

	PO1	PO 2	PO 3	Р 04	PO 5	PO6	P 07	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PS O1	PSO2
CO1	2	3											3	
CO2	3	2												
CO3	2	3											2	
CO4	2	3	2									3		
CO5	1	2	3											
CO6	3	2											2	
Course	2.1	2.5	2.5									3	2.5	

со	Course Outcome	e Attainment
CO1	3.00	
CO2	3.00	
CO3	3.00	
CO4	3.00	
CO5	3.00	
CO6	3.00	
	Overall course attainment level=	3.00

PO-ATTAINMENT

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO Attain													
ment	2.10	2.50	2.50									3.00	

CO contribution to PO - 33%, 67%, 100% (Level 1/2/3)

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY



Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956 (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/

ATTENDENCES REGISTER LINK:-

https://drive.google.com/file/d/1G6XPCGfV7Q3XkAXKb4Xl5dN8W7KsNCTZ/view?usp=drive_link