



# KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

Namakkal-Trichy Main Road, Tholurpatti, Thottiam, Trichy, Tamilnadu-621215, India

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.

Accredited by NBA(CSE, ECE & EEE), Accredited by NAAC with B++ Grade.

Recognized by UGC with 2(F) & 12(B) and ISO 9001:2015 Certified Institution)



## CRITERION 6 - GOVERNANCE, LEADERSHIP AND MANAGEMENT

### Key Indicator - 6.5 Internal Quality Assurance Systems

Metric No: 6.5.2 The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms:

S.No	Contents	Page Number
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PRINCIPAL

PRINCIPAL

Kongunadu College of  
Engineering and Technology,  
Tholurpatti (Po), Thottiam (Tk),  
Trichy (Dt). Pin : 621 215.

Ref: KNCET/AAA/2020-21/01

Date: 07.05.2021

To

Prof.K. Ayyadurai,  
Principal,  
Kongunadu Polytechnic College,  
Thottiam.

Dear Sir,

Sub: Request to act as an **External Auditor**–Academic and Administrative Audit process– reg  
It is mandatory to conduct the **Academic and Administrative Audit**, as part of  
evaluation in **NAAC Accreditation Process**, in our institution for the **Academic Year 2020-  
2021** on **28.05.2021**.

In view, I request you to act as an External Auditor and furnish a report for the mentioned  
purpose in the prescribed format.

Thanking You

With regards,

**PRINCIPAL**  
Kongunadu College of  
Engineering and Technology,  
Tholurpatti (Po), Thottiam (Tk),  
Trichy (Dt). Pin : 621 215.

**PRINCIPAL**  
Kongunadu Polytechnic College  
Namakkal-Trichy Main Road,  
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INTERNAL QUALITY ASSURANCE CELL (IQAC)  
REF: KNCET/CIRCULAR/AAA/ 20-21/03\_ENG

Date: 12.05.2021

## CIRCULAR

This is to inform that our institution is going to conduct an Academic and Administrative Audit on 28.05.2021. The Academic and Administrative Audit will start with open meeting on 17.05.2021 at 9.30am in Boardroom. I request all the Auditors to attend the meeting. All the HODs and Faculty Members are asked to extend their co-operations to complete the auditing successfully.

### Academic Audit Experts

S.No	Name and Designation of the External Auditor	Name and Designation of the Internal Auditor
1	Prof.K. Ayyadurai, Principal, Kongunadu Polytechnic College, Thottiam.	Dr.R.Askoan, Principal, Kongunadu College of Engineering and Technology, Thottiam

  
IQAC COORDINATOR

  
PRINCIPAL

### Copy To:

- The Principal
- Dean (R&D)
- All HODs, Office, Store, Library
- AAA File
- External Auditor

### Copy submitted to:

- The Chairman



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## INTERNAL QUALITY ASSURANCE CELL (IQAC)

Academic and Administrative Audit – Institute

Academic Year 2020-2021

Date: 28.05.2021

College Name : Kongunadu College of Engineering and Technology

Principal Name : Dr.R.Asokan

### A. Academic Calendar

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
1	Institute Level Calendar Preparedness In Line to University	Academic Calendar was prepared as per Anna University Norms	-

### B. Student Admission

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
2	Percentage of Student Admission	528 admission and 88 Percentage	-



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## C. Faculty Profile and Faculty Development

S. No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
3	Total Number of Faculties on Roll	196 Teaching Faculty Members are available	-
4	Number of Faculties with Ph.D and pursuing Ph.D	33 Faculty Members with Ph.D and 38 Faculty Members pursuing Ph.D	-
5	Initiatives for Funded / Sponsored Projects and Consultancy Works	Totally 31 Consultancy work was carried out	-
6	Number of Papers published in UGC, Scopus, Web of Science	Totally 115 papers are published	-
7	Number of Conference Papers Published with ISBN Number	110 conference papers are published with ISBN number	-
8	Number of Patents Published	Totally 22 patents are published	-
9	Number of Faculty Awards	Totally 3 awards are received by the faculties	Faculties are motivated to get more awards.



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## D. Infrastructure and Resources

S. No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
10	Number of Class rooms with ICT Facility	Totally 37 class room with ICT Facility	-
11	Laboratory Facility	Totally 47 labs are fully equipped and computer labs are furnished with air conditioning Facilities.	-
12	Library Facilities	Library are equipped with text books, titles, reference books, e-journals and digital library with internet facility	-
13	Number of New Books and Titles in Central Library	Totally 285 new books and 131 titles are newly added in the central library	-
14	Digital Library Utilization of E-Journals, EBooks etc.	Digital Library Utilization like E-Books, E-Journals was added in digital platform.	-
15	Stock Verification (Department and Central Library)	Verified	-
16	Website Update	College website is maintained and updates are done frequently.	-
17	Internet and Wi-Fi Facility	College has adequate internet and Wi-Fi Facilities with 100mbps speed	-



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18	Hostel Facility	Two separate hostel facilities are available for both boys and girls with Solar Water Heater, LCD TV, Laundry Plant, etc.	-
19	Language Lab with required Facility	Language lab are well equipped with computers and internet facility	-
20	Workshop Facility	Available for all students usage	-
21	Transport Facility	Totally 53 buses are available with good condition, CCTV and GPS facilities which covers Namakkal, Trichy & Karur Districts.	-
22	Sport / Gym / Yoga Center etc.	Indoor Stadium exclusively for Rifle Range, Ball Badminton, Basket Ball, Carrom, Table Tennis, Chess, Shuttle Badminton, Fencing, Boxing, Weight Lifting, Squash, Billiards and Tennis and separate GYMs for Boys and Girls.	-
23	RO and Power Supply Details	Reverse Osmosis (RO) Water Plant and 224 hours Power back up with 1120 KVA are available	-
24	Safety and Security System	Fire extinguishers and first aid boxes are available inside college blocks, hostel blocks and CCTV cameras are used for surveillance process.	-

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25	Green Initiatives, Campus Maintenance and Cleanliness	5S principle followed inside the campus, Green Environment and High-Tech Infrastructure with plastic free zone are maintained inside the campus.	-
26	Seminar / Conference Hall	Totally Four seminar halls are available with Air Conditioner, ICT and audio facilities.	-
27	Medical Care Usage	A nurse has been appointed within the college campus of timing from 11 AM to 5 .PM for the benefits of the students and for medical emergency ambulance is available inside the campus.	-

## E. Governance and Administration

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
28	Frequency of Meetings of all Committees and Record keeping	Academic audit committee, anti-ragging committee, Grievance and redressal cell and various committees extend the mentoring support.	-
29	Faculty and Staff Empowerment Policy	EPF, leave rules (Medical, Maternity), Group Insurance, Loan, Permission, Travel allowance incentives for faculties, fees concession for faculties' children are granted.	-



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30	Budget Allocation	The sum of Rs.444.6 lakhs was sanctioned	-
31	Budget Utilization	The sum of Rs.440.1003 lakhs was utilized.	-

## F. Quality Initiatives

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
32	Quality certification from National / International forum (NIRF, AISHE, NBA, NAAC, ISO, etc.)	Participated in AISHE, having ISO 9001-2015, NAAC with B++, NBA (CSE, ECE, EEE).	-
33	Participation in National / International events (Project Contest)	Internal Hackathon are organized every year and students are motivated to participate in Smart India Hackathon by MHRD and AICTE.	-
34	Social Activities, Programs organized by NSS / YRC	Social welfare and OI awareness programs through NSS/YRC were conducted in and outside campus.	-

## G. Student Support System and Progression

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
35	Institutional Scholarship, Free Ship	Totally 1772 students benefited institutional Scholarship of Rs. 48144467 and 2502 students benefited of Rs.59001788 amount from Govt. of Tamilnadu (BC, MBC, DNC, SC, ST, SCC and First Graduate)	-

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36	Placement and Graduation Day	Every year placement and graduation day will be conducted regularly .Due to COVID 2020-2021 it was postponed.	-
37	Placement Percentage	79% of Students got offer letter.	-
38	Alumni Registration and Alumni Meet	Alumni association registration was done. Every year alumni meeting was conducted, last year it was conducted on 26.12.2020	-
39	Sports Activity	Every year Sports day will be conducted regularly. Due to COVID 2020-2021 it was postponed.	-
40	Cultural Activity	Every year Cultural day will be conducted regularly. Due to COVID 2020-2021 it was postponed	-
41	EDC Initiatives / Activities	Regularly 02 entrepreneurship programs were organized through EDC Cell.	-
42	Grievance and Redressal Mechanism	Meetings were conducted regularly and grievances were rectified.	-



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## H. Industry-Academic Interaction

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
43	IPR Workshop , Initiatives HR Connect, Industry Innovation	Programmes were conducted regularly	-
44	MoUs and Activeness	6 MoU's have been signed for the academic year 2020-2021, though that value added course, internship, industrial visits are carried out.	-

Name and Designation of Academic Audit Experts

: Prof. K. Ayyadurai, Principal, Kongunadu Polytechnic College, Thottiam.

  
INTERNAL AUDITOR

  
IQAC COORDINATOR

  
EXTERNAL AUDITOR

PRINCIPAL

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## INTERNAL QUALITY ASSURANCE CELL (IQAC)

REF: KNCET/CIRCULAR/AAA/ 20-21-01\_ENG

Date: 12.05.2021

### CIRCULAR

It is proposed to conduct Academic and Administrative Audit from 17.05.2021 to 22.05.2021. The Academic and Administrative Audit will start with open meeting on 17.05.2021 at 9.30am in Boardroom. I request all the Auditees and Auditors to attend the meeting.

Herewith, I have furnished the audit Schedule and I request you to extend your cooperation and make the audit successful.

#### Academic Audit Experts

S.No	Name of the Department	Date of Audit	Auditee	Auditor
1.	CIVIL	17.05.2021	Dr.S.Kavipriya, HoD/Civil	Dr.D.Jagadeesh, HoD/MECH
2.	CSE	18.05.2021	Dr.C.Saravanabhavan, HoD/CSE	Mr.N.Premkumar, HoD/IT
3.	ECE	19.05.2021	Dr. M. Dharmalingam, HoD/ECE	Dr.R.Shankar, HoD/EEE
4.	EEE	20.05.2021	Dr.R.Shankar, HoD/EEE	Dr. M. Dharmalingam, HoD/ECE
5.	IT	21.05.2021	Mr.N.Premkumar, HoD/IT	Dr.C.Saravanabhavan, HoD/CSE
6.	MECH	22.05.2021	Dr.D.Jagadeesh, HoD/MECH	Dr.S.Kavipriya, HoD/Civil
7.	S&H	22.05.2021	Dr. K. Balasubramanian, HoD/S&H	Mr.T.Ashok, HoD/BME

  
IQAC COORDINATOR

#### Copy To:

- The Principal
- Dean (R&D)
- All HODs, Office, Store, Library
- AAA File

#### Copy submitted to:

  
PRINCIPAL

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## INTERNAL QUALITY ASSURANCE CELL (IQAC)

Academic and Administrative Audit – Department

Academic Year 2020-2021

Date: 17/05/21

Department : CIVIL ENGINEERING

### A. Curriculum Planning, Implementation, Gap Identification and Enrichment

S. No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
1	Institute Level / Department Level Calendar Preparedness In Line to University	Yes, Academic calendar were prepared as per norms.	-
2	Adherence of Academic Calendar	Yes, Schedules are prepared as per Academic calendar.	-
3	Faculty Teaching Work Load Distribution	Work load distributed As per university norms prepared	-
4	Preparation of Lesson Plan	As per syllabus and Academic calendar.	-
5	Course File Readiness	Prepared well	-
6	Lab Manual with Master Readings and Additional Experiments	Yes, all contents are prepared.	-



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7	Content Beyond Syllabus Coverage to fulfill the Curricular Gap	Yes	-
8	Number and Quality of Value Added Courses / Add on Course / Certification Courses	4 nos., external experts are invited for conducting the courses.	-
9	Workshops / Seminars / Guest Lectures / FDP / Symposium Organized	40 numbers.	-
10	Students Final Year Project Planning, Progress and Quality (In-House / Industry Based)	Project work carried out as per industry and current requirement.	-
11	Number & Quality of Students Internship / In-plant Training	Internship - 112 nos., Inplant Training - 97 nos.,	-
12	Number of Student Conference / Journal Publications	Conference - 15 nos Journal - 9 nos	-
13	Number of Student Participation in Seminar / Workshop / Symposium	622 nos.,	-
14	Number of Student Award / Prizes	5 nos.,	-



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## B. Student Admission and Mentoring

S. No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
15	Percentage of Student Admission	63.33% (38/60)	-
16	Quality of Mentoring	Mentor & student ratio 1:20 Motivation were given to students as per the need.	-
17	Remedial Classes for Weak Students	Yes	-
18	Effectiveness of Remedial Classes	University results were improved	-

## C. Faculty Profile and Faculty Development

S. No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
19	Total Number of Faculties on Roll	22 nos.,	-
20	Number of Faculties with Ph.D and pursuing Ph.D	Ph.D - 1 no., Ph.D pursuing - 2 nos.,	-



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21	Course contents delivered through PPT and available in LMS / GRC	Yes few contents were delivered through PPT	-
22	Innovations in Teaching Learning Process	Seminars, PPT were delivered beyond the Syllabus.	-
23	Initiatives for Funded / Sponsored Projects and Consultancy Works	11 nos. of funded sponsored proposals were submitted. 7 nos. of consultancy works were carried out.	-
24	Number of Papers published in UGC, Scopus, Web of Science and others	10 nos.	-
25	Number of Conference Papers Published with ISBN Number	15 nos.	-
26	Number of Patents Published	-	Patents Publication will be carried out in future
27	Number of Faculty Awards	-	Faculty awards will be achieved in future.



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28	Number of Outside Interaction (Guest Lectures, Jury, Reviewer)	3 nos.,	Achieved as per Strategic Plan and will be improved in future.
29	FDP / STTP / Workshop / Seminar Participation	FDP / STTP - 53 nos., Workshop / Seminar - 118 nos.,	-
30	Number of Faculties with Professional Membership	1 no.,	Faculties with Professional membership will be improved in the upcoming Academic year.

## D. Infrastructure and Resources

S. No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
31	Number of Class rooms	classroom - 6 nos., Tutorial hall - 3 nos.,	-
32	Number of Class rooms with ICT Facility	6 nos.,	-
33	Number and Quality of Laboratory Facility	7 nos., All equipments were installed and working in good condition as AICTE norms	-



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34	Number of Books and Titles in Department Library	No. of Books - 1095 No. of Titles - 224	-
35	Quality of Computing Facilities and Number of Computers	43 nos., working in good condition	-

## E. Meeting Details

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
36	Class Committee Meeting	Class committee meetings were conducted 3 times in each semester.	-
37	Advisory Committee Meeting	Frequent advisory committee meetings will be conducted.	-
38	Assessment Committee Meeting	Yes, review meetings were conducted in regular basis.	-
39	Stakeholders Meeting (Parent-Teacher, Employer, Alumni, etc.,)	Stakeholders meetings were conducted through online platform.	-



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## F. Industry Academic Interaction and Professional Activities

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
40	Industrial Visit	-	Due to Covid 19
41	Industry Person as Guest Lecture	16 nos.,	-
42	MoUs and Activeness	4 nos.,	-
43	Technical Events under Professional Societies	-	Technical events under Professional societies will be conducted in future,
44	Club Activities	2 nos.,	-

## G. Continuous Evaluation

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
45	Quality of Internal Question Papers	Standard question papers were prepared as per blooms taxonomy.	-
46	Quality of Assignments	Three different topics were assigned to students in batch wise.	-
47	Continuous Evaluation of Lab Records and Students Performance in Lab	Yes, continuous evaluation were done frequently by the concern Incharge.	-
48	Continuous review of Final Year Projects	Three Reviews were conducted.	-

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49	University / End Semester Result Analysis and Action for Improvement	Achieved good results in end semester examinations	-
50	Analysis of Stake holders feedback, action plan and action taken report	Actions were taken as per feedback of the state holders.	-

Name and Designation of Academic Audit Experts :

  
INTERNAL AUDITOR

  
IQAC COORDINATOR

  
17/05/24  
EXTERNAL AUDITOR

  
215  
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## INTERNAL QUALITY ASSURANCE CELL (IQAC)

Academic and Administrative Audit – Department

Academic Year 2020-2021

Department : *Computer Science and Engineering*

Date: *18/05/21*

### A. Curriculum Planning, Implementation, Gap Identification and Enrichment

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
1	Institute Level / Department Level Calendar Preparedness In Line to University	As per the university schedule the institute level / department level calendar has been prepared.	Consummate
2	Adherence of Academic Calendar	Academic calendar has adhered.	Achieved.
3	Faculty Teaching Work Load Distribution	Workload has been distributed equally to the faculties.	In future we follow the same plan.
4	Preparation of Lesson Plan	Lesson plan has been prepared as per the Academic calendar.	We will keep to the preparation.
5	Course File Readiness	Course file are verified.	Attained.
6	Lab Manual with Master Readings and Additional Experiments	We are maintaining the lab manual along with. Advanced & Designed Experiment are added.	following year also we will lead.



# KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

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7	Content Beyond Syllabus Coverage to fulfill the Curricular Gap	Yes, Here we are fulfill by Gap in syllabus	fulfilled.
8	Number and Quality of Value Added Courses / Add on Course / Certification Courses	Value Added courses = 247 PPI = 136      CISCO =	Consummated.
9	Workshops / Seminars / Guest Lectures / FDP / Symposium Organized	FDP attend 26 & STTP attend 9 & workshop 127.	Try to utilize the program & attend more.
10	Students Final Year Project Planning, Progress and Quality (In-House / Industry Based)	Inhouse project are done By 20 Batch	Motivate to do them in Industry Based
11	Number & Quality of Students Internship / In-plant Training	Internship attended = 131. are file	In Attained level.
12	Number of Student Conference / Journal Publications	conference = 6. members are attended	Attain the level.
13	Number of Student Participation in Seminar / Workshop / Symposium	Webinar = 169 & workshop as student are attended.	Achieved.
14	Number of Student Award / Prizes	Nil.	Motivate the student to win the prize.



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## B. Student Admission and Mentoring

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
15	Percentage of Student Admission	100% Admission.	Achieved.
16	Quality of Mentoring	As per university norms effectively Mentoring system followed	-
17	Remedial Classes for Weak Students	Extra time taken to weak student & to rewrite the test to obtain Good marks.	Achieved
18	Effectiveness of Remedial Classes	Almost all the weak student get pass in university.	Achieved something successfully.

## C. Faculty Profile and Faculty Development

S. No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
19	Total Number of Faculties on Roll	16 No of faculties are Avd	Has been Achieved.
20	Number of Faculties with Ph.D and pursuing Ph.D	Ph.d completed = 5 pursuing Ph.d. = 2.	-



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21	Course contents delivered through PPT and available in LMS / GRC	Yes , Available , That way of Delivered is through PPT	Nil
22	Innovations in Teaching Learning Process	It is implemented by conducting the Quiz, NPTEL video	Nil
23	Initiatives for Funded / Sponsored Projects and Consultancy Works	Consultancy work = 2.	concentrated on funding.
24	Number of Papers published in UGC, Scopus, Web of Science and others	faculty are published their papers in scopus.	Try to publish more paper.
25	Number of Conference Papers Published with ISBN Number	conference paper = 29.	Nil
26	Number of Patents Published	11 patents are published.	Published more patents
27	Number of Faculty Awards	01 faculty got an Awards	Try to get more Awards.



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28	Number of Outside Interaction (Guest Lectures, Jury, Reviewer)	one faculty conducted the workshop.	Nil
29	FDP / STIP / Workshop / Seminar Participation	10 program are conducted	Nil
30	Number of Faculties with Professional Membership	4 faculties with professional membership.	Nil

## D. Infrastructure and Resources

S. No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
31	Number of Class rooms	5+1 classrooms are available	Nil
32	Number of Class rooms with ICT Facility	yes	Nil
33	Number and Quality of Laboratory Facility	W/o Mainted four Laboratory with well equipped Quality.	Nil



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0001:2015

34	Number of Books and Titles in Department Library	73 Books are Available.	Every year we will update the Book if it's
35	Quality of Computing Facilities and Number of Computers	They are 148 systems with exclusive quality.	Maintained still properly.

## E. Meeting Details

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
36	Class Committee Meeting	As per the Academic plan we arranged the class committee meeting	In upcoming year also we will arranged.
37	Advisory Committee Meeting	Yes, we conducted the Advisory committee Meeting	Nil
38	Assessment Committee Meeting	After completing Assessment, the Result Analysis meeting will conducted.	We will follow the A C Meeting.
39	Stakeholders Meeting (Parent-Teacher, Employer, Alumni, etc..)	Due to covid, it conducted through online mode.	Nil



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9001:2015

## F. Industry Academic Interaction and Professional Activities

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
40	Industrial Visit	-	Initiated
41	Industry Person as Guest Lecture	111 program are conducted	Nil.
42	MoUs and Activeness	1 MOU	Nil.
43	Technical Events under Professional Societies	In CSI 10 program are conducted & 2-completed	Achieved.
44	Club Activities	-	Nil.

## G. Continuous Evaluation

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
45	Quality of Internal Question Papers	As per University norms prepared well	Nil
46	Quality of Assignments	Good. Assignment are given to student.	Nil
47	Continuous Evaluation of Lab Records and Students Performance in Lab	Monitoring Regularly.	Nil
48	Continuous review of Final Year Projects	prepared & Executed well as per Academic plan.	Nil



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49	University / End Semester Result Analysis and Action for Improvement	Result Analysis are completed	Nil
50	Analysis of Stake holders feedback, action plan and action taken report	Good. Analysis Done.	Attained.

Name and Designation of Academic Audit Experts :

*CS2*  
18/05/24

INTERNAL AUDITOR

*A. Praveen*  
18/05/24

EXTERNAL AUDITOR

*[Signature]*  
18/05/24

IQAC COORDINATOR

*[Signature]*  
18/5

PRINCIPAL

**PRINCIPAL**  
Kongunadu College of  
Engineering and Technology,  
Tholurpatti (Po), Thottiam (Taluk),  
Trichy (Dt). Pin : 621 215.



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## INTERNAL QUALITY ASSURANCE CELL (IQAC)

Academic and Administrative Audit – Department

Academic Year 2020-2021

Date: DD.MM.YYYY 19/5/21

Department : *Electronics and Communication Engineering.*

### A. Curriculum Planning, Implementation, Gap Identification and Enrichment

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
1	Institute Level / Department Level Calendar Preparedness In Line to University	<i>As per University norms calendar was prepared.</i>	<i>NIL</i>
2	Adherence of Academic Calendar	<i>Academic calendar framed &amp; followed.</i>	<i>NIL</i>
3	Faculty Teaching Work Load Distribution	<i>Workload distributed as per requirement</i>	<i>NIL</i>
4	Preparation of Lesson Plan	<i>Before starting of the semester lesson plan was prepared.</i>	<i>NIL</i>
5	Course File Readiness	<i>Gap in the syllabus is not uniform in some course file</i>	<i>Uniformly carried out in the ongoing semesters.</i>
6	Lab Manual with Master Readings and Additional Experiments	<i>Yes, Maintained.</i>	<i>NIL</i>



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7	Content Beyond Syllabus Coverage to fulfill the Curricular Gap	Yes, full filled.	NIL
8	Number and Quality of Value Added Courses / Add on Course / Certification Courses	VAC - 3 courses IT Spoken Tutorial - 4 courses.	NIL
9	Workshops / Seminars / Guest Lectures / FDP / Symposium Organized	Seminars - 26 Guest Lecture - 2 FDP - 4 Symposium - 02	NIL
10	Students Final Year Project Planning, Progress and Quality (In-House / Industry Based)	Industry project - NIL In-house project - 33.	Students were encouraged to do industry projects.
11	Number & Quality of Students Internship / In-plant Training	Internship - 118 Inplant Training - NIL	It normal situation comes students encouraged to do in plant Training
12	Number of Student Conference / Journal Publications	Conference - 91 Journal - 01	NIL
13	Number of Student Participation in Seminar / Workshop / Symposium	Webinar - 997, PPT - 19 Workshop - 22 Symposium - Event - 300	NIL
14	Number of Student Award / Prizes	39.	NIL



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## B. Student Admission and Mentoring

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
15	Percentage of Student Admission	100% of student admitted in this Academic year -20-21	NIL
16	Quality of Mentoring	As per norms Mentor has been done.	NIL
17	Remedial Classes for Weak Students	Yes, special class was conducted.	NIL
18	Effectiveness of Remedial Classes	Most of the weak students performance were improved	NIL

## C. Faculty Profile and Faculty Development

S. No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
19	Total Number of Faculties on Roll	On Roll - 28 UG - 25 PG - 3	NIL
20	Number of Faculties with Ph.D and pursuing Ph.D	Faculties with Ph.D - 6 pursuing ph.D - 7	NIL



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21	Course contents delivered through PPT and available in LMS / GRC	Yes, content was delivered through PPT	NIL
22	Innovations in Teaching Learning Process	Online resources & virtual Labs were introduced	NIL
23	Initiatives for Funded / Sponsored Projects and Consultancy Works	Initiated & Applied for sponsored / funded projects	NIL
24	Number of Papers published in UGC, Scopus, Web of Science and others	Total Journal - 21 Others-5 Scopus - 12 Scopus & sc.i web of science + 02 sc.i, iopub, iopac - 1, Scopus & UGC - 1	NIL
25	Number of Conference Papers Published with ISBN Number	4 (ISBN) 2 (ISSN)	NIL
26	Number of Patents Published	4 patents published	NIL
27	Number of Faculty Awards	Texas Instruments & AICTE award - 01	NIL



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28	Number of Outside Interaction (Guest Lectures, Jury, Reviewer)	Guest Lecture - 04 Jury - 1 Reviewer - 01	Nil
29	FDP / STTP / Workshop / Seminar Participation	FDP - 69 Seminars - 100 STTP - 23 Workshop - 13	Nil
30	Number of Faculties with Professional Membership	Faculties with professional Membership - 10.	Nil

## D. Infrastructure and Resources

S. No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
31	Number of Class rooms	Class Room - 8 Seminar Tutorial - 02 Hall - 01	Nil
32	Number of Class rooms with ICT Facility	Yes, all class rooms are with ICT facility	Nil
33	Number and Quality of Laboratory Facility	9 Labs & All Labs were well Equiped.	Nil



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34	Number of Books and Titles in Department Library	No. of Books - 22 Titles - 15	—
35	Quality of Computing Facilities and Number of Computers	Computers are Equiped with current requirements 54 computers available.	—

## E. Meeting Details

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
36	Class Committee Meeting	Conducted as per Academic Calender	—
37	Advisory Committee Meeting	2 Meeting Conducted. 1. 07 <sup>th</sup> Jan 2021 & 2 <sup>nd</sup> July 2021	—
38	Assessment Committee Meeting	Assesment Meeting was done after completion of Internal and External Assesment	—
39	Stakeholders Meeting ( Parent-Teacher, Employer, Alumni, etc.,)	Yes, conducted.	—



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## F. Industry Academic Interaction and Professional Activities

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
40	Industrial Visit	20-21 - NIL	If normal situation comes, IV provided to students.
41	Industry Person as Guest Lecture	20-21 - NIL	Industry persons involved in seminars.
42	MoUs and Activeness	MOU signed & Activeness	-
43	Technical Events under Professional Societies	Yes, conducted through IETE & ISTE	-
44	Club Activities	Yes, available	-

## G. Continuous Evaluation

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
45	Quality of Internal Question Papers	Questionpapers were prepared with Blooms Taxonomy.	-
46	Quality of Assignments	Three assignments were given for all subjects	-
47	Continuous Evaluation of Lab Records and Students Performance in Lab	Yes, Monitored by concerned faculty incharge	-
48	Continuous review of Final Year Projects	Yes, Review conducted.	-



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49	University / End Semester Result Analysis and Action for Improvement	Result Analysis Meeting was carried out	
50	Analysis of Stake holders feedback, action plan and action taken report	Feedback collected and analysed.	

Name and Designation of Academic Audit Experts :

*M. Abhinav*  
19/5/24  
INTERNAL AUDITOR

*[Signature]*  
19/5/24  
EXTERNAL AUDITOR

*J.K.*  
19/5/24  
IQAC COORDINATOR

*[Signature]*  
19/5  
PRINCIPAL  
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Engineering and Technology,  
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Trichy (Dt). Pin : 621 215.



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## INTERNAL QUALITY ASSURANCE CELL (IQAC)

Academic and Administrative Audit – Department

Academic Year 2020-2021

Date: 20/05/21.

Department : **ELECTRICAL AND ELECTRONICS ENGINEERING**

A. Curriculum Planning, Implementation, Gap Identification and Enrichment

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
1	Institute Level / Department Level Calendar Preparedness in Line to University	Yes, As Per the university norms	—
2	Adherence of Academic Calendar	Yes	—
3	Faculty Teaching Work Load Distribution	Equally workload is distributed	—
4	Preparation of Lesson Plan	As per academic calendar executed properly	—
5	Course File Readiness	Carried out effectively	—
6	Lab Manual with Master Readings and Additional Experiments	Available and conducted as per Lesson plan	—



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7	Content Beyond Syllabus Coverage to fulfill the Curricular Gap	Yes Gap filled by IV, IPI Internship	1
8	Number and Quality of Value Added Courses / Add on Course / Certification Courses	04	1
9	Workshops / Seminars / Guest Lectures / FDP / Symposium Organized	39	1
10	Students Final Year Project Planning, Progress and Quality (In-House / Industry Based)	Supervisor Guide the students for Planning and Progression	1
11	Number & Quality of Students Internship / In-plant Training	145	1
12	Number of Student Conference / Journal Publications	126	1
13	Number of Student Participation in Seminar / Workshop / Symposium	2169	1
14	Number of Student Award / Prizes	36	1



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## B. Student Admission and Mentoring

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
15	Percentage of Student Admission	100% (63/63)	—
16	Quality of Mentoring	Effective mentoring	—
17	Remedial Classes for Weak Students	Planned and conducted	—
18	Effectiveness of Remedial Classes	Slow learners Performance were Improved	—

## C. Faculty Profile and Faculty Development

S. No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
19	Total Number of Faculties on Roll	23 Nos	—
20	Number of Faculties with Ph.D and pursuing Ph.D	Ph.D - 4, 9 - Pursuing	—



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21	Course contents delivered through PPT and available in LMS / GRC	Various ICT Tools are used for respective Subject	—
22	Innovations in Teaching Learning Process	lecture through online resources like NPTEL video's	—
23	Initiatives for Funded / Sponsored Projects and Consultancy Works	Applied for funded Projects	—
24	Number of Papers published in UGC, Scopus, Web of Science and others	17	—
25	Number of Conference Papers Published with ISBN Number	43	—
26	Number of Patents Published	03	—
27	Number of Faculty Awards	—	Faculty awards will be achieved in future



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34	Number of Books and Titles in Department Library	1256	—
35	Quality of Computing Facilities and Number of Computers	52	—

## E. Meeting Details

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
36	Class Committee Meeting	As Per Academic Calendar Conducted Regularly	—
37	Advisory Committee Meeting	Conducted Regularly	—
38	Assessment Committee Meeting	Conducted Regularly	—
39	Stakeholders Meeting (Parent-Teacher, Employer, Alumni, etc..)	Stakeholders meetings were conducted through online platform	—



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28	Number of Outside Interaction (Guest Lectures, Jury, Reviewer)	05	Achieved as per Strategic plan and will be improved in future
29	FDP / STTP / Workshop / Seminar Participation	195	—
30	Number of Faculties with Professional Membership	15	Faculties with Professional membership will be improved in the upcoming academic year

## D. Infrastructure and Resources

S. No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
31	Number of Class rooms	04	—
32	Number of Class rooms with ICT Facility	04	—
33	Number and Quality of Laboratory Facility	8 NOS All equipments were installed and working in good condition as AICTE norms	—

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## INTERNAL QUALITY ASSURANCE CELL (IQAC)

Academic and Administrative Audit - Department

Academic Year 2020-2021

Date: 21/05/21

Department : Information Technology

### A. Curriculum Planning, Implementation, Gap Identification and Enrichment

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
1	Institute Level / Department Level Calendar Preparedness In Line to University	AS Per university Norms Institute Level / Department level calendar was Prepared.	-
2	Adherence of Academic Calendar	Academic calendar was Prepared and followed.	-
3	Faculty Teaching Work Load Distribution	Teaching Faculty workload distributed evenly to all faculties.	-
4	Preparation of Lesson Plan	Before starting of the every semester lesson plan was Prepared.	-
5	Course File Readiness	As Per the course file content, course file documents are verified.	-
6	Lab Manual with Master Readings and Additional Experiments	Yes, Lab manuals maintained. Advanced and Design Experiments conducted.	-



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7	Content Beyond Syllabus Coverage to fulfill the Curricular Gap	Yes, content beyond syllabus framed to fulfill the gap.	-
8	Number and Quality of Value Added Courses / Add on Course / Certification Courses	Value Added Courses: 3 IIT Spoken Tutorial: 6 CISCO Module: 3	-
9	Workshops / Seminars / Guest Lectures / FDP / Symposium Organized	Workshop: - Seminars: 2 Guest Lecture: - ; FDP: 1 Symposium: 1	-
10	Students Final Year Project Planning, Progress and Quality (In-House / Industry Based)	Project final viva was completed. In-House: 15	Students are motivated to engage in Industry Projects
11	Number & Quality of Students Internship / In-plant Training	In Plant Training: NIL Internship: 74	-
12	Number of Student Conference / Journal Publications	Conference: 64 Journal Publication: 01	Journal Publications need to be improved
13	Number of Student Participation in Seminar / Workshop / Symposium	Seminar: 21 Symposium: 22 Workshop: 124	-
14	Number of Student Award / Prizes	08	reactivate students to increase the prize count



# KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

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Accredited by NAAC with B++ Grade, Recognized by UGC with 2(F) & 12(B) and ISO 9001:2015 Certified Institution)



## B. Student Admission and Mentoring

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
15	Percentage of Student Admission	100%	—
16	Quality of Mentoring	As Per Norms Monitoring has been done.	—
17	Remedial Classes for Weak Students	Yes, Due to Covid 19 Coaching classes was conducted through online.	—
18	Effectiveness of Remedial Classes	Most of the weak students get Pass in End semester Examination.	—

## C. Faculty Profile and Faculty Development

S. No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
19	Total Number of Faculties on Roll	13	—
20	Number of Faculties with Ph.D and pursuing Ph.D	Completed Ph.D : 3 Pursuing Ph.D : 2	Encourage faculty members to register for Ph.D



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21	Course contents delivered through PPT and available in LMS / GRC	Yes, Course contents are available in college website and delivered to students.	-
22	Innovations in Teaching Learning Process	Yes, Implemented in every semester like NPTEL videos Quiz, etc...	-
23	Initiatives for Funded / Sponsored Projects and Consultancy Works	Funded Projects are Applied.	-
24	Number of Papers published in UGC, Scopus, Web of Science and others	07.	-
25	Number of Conference Papers Published with ISBN Number	01.	Encourage faculty and students to publish conference papers with ISBN number
26	Number of Patents Published	02.	-
27	Number of Faculty Awards	-	-



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9001:2015

28	Number of Outside Interaction (Guest Lectures, Jury, Reviewer)	Guest Lectures: 1. Jury: - Reviewer: 1	-
29	FDP / STTP / Workshop / Seminar Participation	FDP: 59. STTP: 43 Workshop: 32. Seminar: 5	-
30	Number of Faculties with Professional Membership	IEEE: 02 CSTA: 01 CSI: 01 IAENG: 01	-

## D. Infrastructure and Resources

S. No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
31	Number of Class rooms	04 (Lecture Hall-3) (Tutorial Hall-1)	-
32	Number of Class rooms with ICT Facility	Three class rooms are ICT Facility.	-
33	Number and Quality of Laboratory Facility	Programming Lab: 36 Network: 36 Multimedia: 38. All computer system conditions are good.	-



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9001:2015

34	Number of Books and Titles in Department Library	Books: 397, Titles: 114.	-
35	Quality of Computing Facilities and Number of Computers	Total Number of Computers: 113 All System conditions are good.	-

## E. Meeting Details

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
36	Class Committee Meeting	Class committee meeting was conducted as per college Academic calendar.	-
37	Advisory Committee Meeting	Yes, Advisory committee meeting was conducted.	-
38	Assessment Committee Meeting	conducted. After completion of Internal Examination.	-
39	Stakeholders Meeting (Parent-Teacher, Employer, Alumni, etc.)	Parent Teacher meeting not conducted due to covid 19. Alumni meeting was conducted through online.	Plan to conduct through offline, if pandemic affect.

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9001:2015

## F. Industry Academic Interaction and Professional Activities

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
40	Industrial Visit	Due to Covid 19 No Industrial visit.	Plan for Industrial visit in upcoming year
41	Industry Person as Guest Lecture	20	-
42	MoUs and Activeness	MoUs : 01 Activeness: 02	-
43	Technical Events under Professional Societies	IEEE : 06.	-
44	Club Activities	NIL	-

## G. Continuous Evaluation

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
45	Quality of Internal Question Papers	Yes Good. All Internal Question Papers are checked by HOD.	-
46	Quality of Assignments	Good. 3 Assignments given for every subjects and evaluated.	-
47	Continuous Evaluation of Lab Records and Students Performance in Lab	Monitored and verified by concerned subject Faculty.	-
48	Continuous review of Final Year Projects	Final year Project Reviews are conducted Periodically.	-



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9001:2015

49	University / End Semester Result Analysis and Action for Improvement	End semester Result was Analyzed. coaching class was conducted for areas students.	-
50	Analysis of Stake holders feedback, action plan and action taken report	Feed back Analysis was Completed. Action Taken.	-

Name and Designation of Academic Audit Experts :

*G. Princy*  
21/5/21  
INTERNAL AUDITOR

*CEO*  
21/05/21  
EXTERNAL AUDITOR

*J.K.*  
21/5/21  
IQAC COORDINATOR

*[Signature]*  
21/5  
PRINCIPAL  
PRINCIPAL  
Kongunadu College of  
Engineering and Technology,  
Tholurpatti (Po), Thottiam (Tk),  
Trichy (Dt). Pin : 621 215.



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## INTERNAL QUALITY ASSURANCE CELL (IQAC)

Academic and Administrative Audit – Department

Academic Year 2020-2021

Date: 27/05/21

Department : *Mechanical Engineering*

### A. Curriculum Planning, Implementation, Gap Identification and Enrichment

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
1	Institute Level / Department Level Calendar Preparedness In Line to University	<i>Yes, as per University</i>	-
2	Adherence of Academic Calendar	<i>Yes</i>	-
3	Faculty Teaching Work Load Distribution	<i>Workload distributed evenly.</i>	-
4	Preparation of Lesson Plan	<i>Prepared as per academic calendar</i>	-
5	Course File Readiness	<i>Maintained well and completed on time</i>	-
6	Lab Manual with Master Readings and Additional Experiments	<i>Available and conducted as per schedule</i>	-

# KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

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9001:2015

7	Content Beyond Syllabus Coverage to fulfill the Curricular Gap	Yes, curricular gaps is fulfilled in all semesters	-
8	Number and Quality of Value Added Courses / Add on Course / Certification Courses	04 value added courses	-
9	Workshops / Seminars / Guest Lectures / FDP / Symposium Organized	36 events organized	-
10	Students Final Year Project Planning, Progress and Quality (In-House / Industry Based)	Planned and progressed effectively with guidance of supervisor	-
11	Number & Quality of Students Internship / In-plant Training	166 - Internship Nil - Inplant Training	Due to COVID-19
12	Number of Student Conference / Journal Publications	402 publications	-
13	Number of Student Participation in Seminar / Workshop / Symposium	Total of 1522 Seminar & 142 workshop participated	-
14	Number of Student Award / Prizes	29 students awarded	-



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9001:2015

## B. Student Admission and Mentoring

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
15	Percentage of Student Admission	637: admitted	-
16	Quality of Mentoring	Mentored effectively	-
17	Remedial Classes for Weak Students	Conducted before the day of internal exams.	-
18	Effectiveness of Remedial Classes	Gradual improvement in semester exams.	-

## C. Faculty Profile and Faculty Development

S. No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
19	Total Number of Faculties on Roll	49 Faculties	-
20	Number of Faculties with Ph.D and pursuing Ph.D	8 with Ph-D 11 faculties pursuing	-



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21	Course contents delivered through PPT and available in LMS / GRC	ICT tools were used in course delivery and available in website	-
22	Innovations in Teaching Learning Process	Conduct of Online classes through Webex due to COVID19, NPTEL videos etc...	-
23	Initiatives for Funded / Sponsored Projects and Consultancy Works	Minimum one applied every month	-
24	Number of Papers published in UGC, Scopus, Web of Science and others	10 papers published	-
25	Number of Conference Papers Published with ISBN Number	15 papers published	-
26	Number of Patents Published	2 patents published	-
27	Number of Faculty Awards	NIL	Encouraged to Participate in events

# KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

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9001:2015

28	Number of Outside Interaction (Guest Lectures, Jury, Reviewer)	1 Guest lecture	1
29	FDP / STTP / Workshop / Seminar Participation	153 FDP and about 339 workshops + seminar participated	1
30	Number of Faculties with Professional Membership	NIL	Asked to join in some professional bodies.

## D. Infrastructure and Resources

S. No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
31	Number of Class rooms	10 classrooms	1
32	Number of Class rooms with ICT Facility	10 classrooms	1
33	Number and Quality of Laboratory Facility	Number and quality of equipments were excellent	1



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34	Number of Books and Titles in Department Library	858 books	-
35	Quality of Computing Facilities and Number of Computers	81 computers	-

## E. Meeting Details

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
36	Class Committee Meeting	conducted twice in every semester	-
37	Advisory Committee Meeting	conducted periodically	-
38	Assessment Committee Meeting	conducted	-
39	Stakeholders Meeting (Parent-Teacher, Employer, Alumni, etc.,)	conducted but parent-Teacher meet - Nil	Due to COVID-19



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9001:2015

## F. Industry Academic Interaction and Professional Activities

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
40	Industrial Visit	NIL	Due to COVID-19
41	Industry Person as Guest Lecture	Conducted guest lectures from industry experts	-
42	MoUs and Activeness	MoUs available and student activities are carried out.	-
43	Technical Events under Professional Societies	conducted regularly.	-
44	Club Activities	Yes	-

## G. Continuous Evaluation

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
45	Quality of Internal Question Papers	Standard format with Lo, Blooms Taxonomy.	-
46	Quality of Assignments	Excellent	-
47	Continuous Evaluation of Lab Records and Students Performance in Lab	Lab observations & Records are verified periodically	-
48	Continuous review of Final Year Projects	conducted regularly	-



# KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

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49	University - End Semester Result Analysis and Action for Improvement	Prepared and focused on improvement	-
50	Analysis of Stake holders feedback, action plan and action taken report	Good	-

Name and Designation of Academic Audit Experts :

INTERNAL AUDITOR

EXTERNAL AUDITOR

IQAC COORDINATOR

PRINCIPAL

**PRINCIPAL**  
Kongunadu College of  
Engineering and Technology,  
Tholurpathi (Po), Thottiam (Tk),  
Trichy (Dt). Pin : 621 215.



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9001:2015

## INTERNAL QUALITY ASSURANCE CELL (IQAC)

Academic and Administrative Audit – Department

Academic Year 2020-2021

Date: 22/05/21

Department :SCIENCE AND HUMANITIES

### A. Curriculum Planning, Implementation, Gap Identification and Enrichment

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
1	Institute Level / Department Level Calendar Preparedness In Line to University	As per Anna University Guidelines Academic calendar was prepared.	-
2	Adherence of Academic Calendar	Academic calendar followed properly.	-
3	Faculty Teaching Work Load Distribution	Even distribution of workload followed.	-
4	Preparation of Lesson Plan	Based on the Academic calendar and Timetable, lesson plan was prepared.	-
5	Course File Readiness	course file was maintained properly.	-
6	Lab Manual with Master Readings and Additional Experiments	yes, maintained.	-



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7	Content Beyond Syllabus Coverage to fulfill the Curricular Gap	yes, fulfilled.	-
8	Number and Quality of Value Added Courses / Add on Course / Certification Courses	-	-
9	Workshops / Seminars / Guest Lectures / FDP / Symposium Organized	09	-
10	Students Final Year Project Planning, Progress and Quality (In-House / Industry Based)	-	-
11	Number & Quality of Students Internship / In-plant Training	-	-
12	Number of Student Conference / Journal Publications	-	-
13	Number of Student Participation in Seminar / Workshop / Symposium	seminar, workshop - 910.	-
14	Number of Student Award / Prizes	Awards / Prizes - 477 members.	-



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9001:2015

## B. Student Admission and Mentoring

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
15	Percentage of Student Admission	88% of students admitted in this Academic year 2020-2021.	-
16	Quality of Mentoring	As per norms mentoring has been done.	-
17	Remedial Classes for Weak Students	Special classes were conducted	Weak students were identified based on IA examination special coaching conducted for them.
18	Effectiveness of Remedial Classes	students gained more knowledge and showed improvement in end semester examination.	-

## C. Faculty Profile and Faculty Development

S. No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
19	Total Number of Faculties on Roll	On Roll - 44 Faculties.	-
20	Number of Faculties with Ph.D and pursuing Ph.D	Faculties with Ph.D - 6. Pursuing Ph.D - 5	-



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9001:2015

21	Course contents delivered through PPT and available in LMS / GRC	yes, Delivered through ppt but not uploaded in Lms/GRC.	-
22	Innovations in Teaching Learning Process	Implemented and followed.	-
23	Initiatives for Funded / Sponsored Projects and Consultancy Works	-	-
24	Number of Papers published in UGC, Scopus, Web of Science and others	UGC - 9 , SCOPUS - 4 & web of science and others - 5	-
25	Number of Conference Papers Published with ISBN Number	ISBN - 01	-
26	Number of Patents Published	-	-
27	Number of Faculty Awards	NSS - 1 Awards (Anna university)	-



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Accredited by NAAC with B++ Grade, Recognized by UGC with 2(A) & 2(B) and ISO 9001:2015 Certified Institution)



9001:2015

28	Number of Outside Interaction (Guest Lectures, Jury, Reviewer)	Guest Lecture - 05	-
29	FDP / STTP / Workshop / Seminar Participation	FDP/STTP - 80 Workshop - 24 Seminar/webinar - 179	-
30	Number of Faculties with Professional Membership	Faculty with Professional Membership - 2 members.	-

## D. Infrastructure and Resources

S. No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
31	Number of Class rooms	class rooms - 12.	-
32	Number of Class rooms with ICT Facility	Yes, All class rooms are with ICT facility.	-
33	Number and Quality of Laboratory Facility	3 labs & All labs were well equipped.	-



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9001:2015

34	Number of Books and Titles in Department Library	NO. of Books - 177 Titles - 13	-
35	Quality of Computing Facilities and Number of Computers	computers are equipped with current requirements. 13 computers available.	Systems were regularly updated for new version.

## E. Meeting Details

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
36	Class Committee Meeting	Thrice in a semester class committee meeting conducted at the regular interval of time [As per Academic calendar]	-
37	Advisory Committee Meeting	- NA	-
38	Assessment Committee Meeting	-	-
39	Stakeholders Meeting (Parent-Teacher, Employer, Alumni, etc.,)	Parent-Teacher <sup>meeting</sup> is conducted yearly once but due to covid-19 for the academic year 2020-21 meeting was not conducted.	-



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9001:2015

## F. Industry Academic Interaction and Professional Activities

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
40	Industrial Visit	-	-
41	Industry Person as Guest Lecture	-	-
42	MoUs and Activness	-	-
43	Technical Events under Professional Societies	-	-
44	Club Activities	Regular club Activities was followed (Nss, science club).	-

## G. Continuous Evaluation

S.No	Audit Parameters	Internal Monitoring and Audit Findings	Corrective Measures
45	Quality of Internal Question Papers	Prepared based on the Bloom's taxonomy and reviewed by the HoD	Question papers were reviewed then and there.
46	Quality of Assignments	Multiple topics were given to the students for the better understanding of the subject	-
47	Continuous Evaluation of Lab Records and Students Performance in Lab	Students were monitored and lab records were maintained	Lab records and manuals are reviewed periodically.
48	Continuous review of Final Year Projects	Proposals	-



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9001:2015

49	University / End Semester Result Analysis and Action for Improvement	Each and every semester result were reviewed by the respected HOD through Monitor Students were guided.	-
50	Analysis of Stake holders feedback, action plan and action taken report	to be maintained.	-

Name and Designation of Academic Audit Experts :

  
INTERNAL AUDITOR

  
EXTERNAL AUDITOR

  
IQAC COORDINATOR

  
PRINCIPAL

**PRINCIPAL**  
Kongunadu College of  
Engineering and Technology,  
Tholurpatti (Po), Thottiam,  
Trichy (Dt), Pin : 621215



# KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

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## INTERNAL QUALITY ASSURANCE CELL (IQAC)

REF: KNCET/CIRCULAR/AAA/20-21/02\_ENG

Date:12.05.2021

### CIRCULAR

In our Institution, the Course file Audit is scheduled on 25.05.2021. The Academic and Administrative Audit will start with open meeting on 17.05.2021 at 9.30am in Boardroom. I request all the Auditors to attend the meeting. All the HODs and Faculty Members are instructed to extend their co-operations to complete the auditing successfully.

S.No	Name and Designation of the Auditors
1.	Dr.S.Kavipriya, HoD/Civil, IQAC Member Kongunadu College of Engineering and Technology Thottiam, Trichy
2.	Mr.T.Ashok, HoD/BME, IQAC Member Kongunadu College of Engineering and Technology Thottiam, Trichy

  
IQAC COORDINATOR

  
PRINCIPAL

#### Copy To:

- The Principal
- Dean (R&D)
- All HODs, Office, Store, Library
- AAA File

#### Copy submitted to:

- The Chairman

**PRINCIPAL,**  
Kongunadu College of  
Engineering and Technology,  
Thokurpatil (Po), Thottiam (Tk),  
Trichy (Dt). Pin : 621 215.





# KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

Nemmikal-Trichy Main Road, Thoterpatti, Thottiam, Trichy, Tamilnadu-621215, India

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING STUDENTS FEEDBACK REPORT ABOUT FACULTY

Academic Year : 2020-2021

Year / Semester : IV / V

Subject Name	ANT	CN	MPMC	TOC	OOAD	S&T
Faculty Name	Mr. F. Manikandan	Mr. K. Karthick	Mrs. R. Deepika	Mr. C. Radha Krishnan	Mr. R. Krishna Prakash	Mr. A. Sampath
Punctuality	93.44	96.72	92.46	98.79	97.65	94.75
Accessibility/Availability	90.16	94.75	95.08	88.20	98.79	91.80
Discipline/Behavior	91.80	95.41	90.82	93.77	95.74	92.13
Power of explanation	90.16	93.44	92.13	89.51	93.11	92.13
Subject knowledge	92.79	96.07	92.46	91.80	94.75	92.13
Method of teaching	89.84	92.79	92.79	91.15	92.46	89.18
Completion of syllabus	92.13	95.74	94.10	92.13	93.44	92.13
Practice & revision	89.18	92.13	92.79	91.80	93.77	90.49
Tests and evaluation	91.48	94.75	93.77	91.80	94.10	89.18
Professionalism	91.48	94.75	93.44	90.82	94.10	92.13
Motivation & Extra-curricular	95.41	95.08	94.10	90.16	95.41	92.13
Over all feedback	92.46	95.74	94.10	91.80	95.08	92.46

IQAC Audit Member 1  
 Dr. S. Karjivariya  
 HoD/Civil

Head of the Department

Department of Computer Science and Engineering,  
 Kongunadu College of Engineering and Technology,  
 Thoterpatti (Po), Thottiam (Tk), Trichy (Dt)-621 215,  
 Tamil Nadu.

IQAC Audit Member 2  
 T. Arshok,  
 HoD/BME

PRINCIPAL

PRINCIPAL  
 Kongunadu College of  
 Engineering and Technology,  
 Thoterpatti (Po), Thottiam (Tk),  
 Trichy (Dt). Pin : 621 215.



# KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

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0001:2015

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### STUDENTS FEEDBACK REPORT ABOUT FACULTY - CORRECTIVE ACTION

Faculty Name

: C. Radhakrishnan.

Academic Year :

2020-2021

Subject Code / Subject Name

: CSS501 & Theory of Computation

Year / Semester :

II / I

Punctuality	Accessibility/ Availability	Discipline/ Behavior	Power of explanation	Subject knowledge	Method of teaching	Completion of syllabus	Practice & revision	Tests and evaluation	Professionalism	Motivation & Extra-curricular	Overall feed back
100	100	100	100	100	100	100	100	100	100	100	100
92.79	88.20	93.77	89.51	91.80	91.15	91.15	92.13	91.80	90.82	90.16	91.80

CORRECTIVE ACTION:

Improve the way of teaching Methodology.

REMARKS BY HOD:

To improve the practical knowledge to the students

IQAC Audit Member 1  
Dr. L. Kavipriya  
HOD / Civil

Head of the Department

Head of the Department  
Department of Computer Science and Engineering,  
Kongunadu College of Engineering and Technology,  
Tholurpatti (Po), Thottiam (Tk), Trichy (Dt)-621 215,  
Tamil Nadu.

IQAC Audit Member 2  
Dr. K. T. Arunkumar  
HOD / EEE

PRINCIPAL

PRINCIPAL  
Kongunadu College of  
Engineering and Technology,  
Tholurpatti (Po), Thottiam (Tk),  
Trichy (Dt), Pin : 621 215.

# KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY



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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Statement for Syllabus Completion

I have handled the subject CSE601-Theory of Computation for V  
Semester III Year, B.E – Computer Science and Engineering during the Academic Year 2020-  
2021 Odd Semester.

In this regard, I confirm that I have taught all the topics mentioned in the syllabus and took  
lectures for 50 Periods and discussed the Anna University Question Paper of the last Three Years.

Name of the Faculty : C. Radhakrishnan  
Designation : AP  
Department : CSE  
Date : 10.10.2020

  
Signature of the Faculty

  
Head of the Department

Department of Computer Science and Engineering,  
Kongunadu College of Engineering and Technology,  
Thokurpatti (Po), Thottiam (Tk), Trichy (Dt) 621 215.

  
IQAC Member 2

As HOD  
Head of the Dept

  
PRINCIPAL

PRINCIPAL  
Kongunadu College of  
Engineering and Technology,  
Thokurpatti (Po), Thottiam (Tk),  
Trichy (Dt), Pin : 621 215.

  
IQAC Member 1  
Dr. S. Karthikeyan  
HOD/Civil



# KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

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9001:2015

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### REVIEW OF THEORY COURSE FILE CONTENTS

Faculty Name : C. Radhakrishnan.

Designation : AP

Department : CSE

Course Code & Course Name : CS8501 & Theory of computation.

S.No	Contents	Review 1	Review 2	Review 3
1	Institute V/M; Department V/M/PEO;PO/PSO statements	Yes	Yes	Yes
2	Course Syllabus	Yes	Yes	Yes
3	Course Information Sheet	Yes	Yes	Yes
4	Model Lesson plan	Yes	Yes	Yes
5	Student's Name List	Yes	Yes	Yes
6	Time Table	Yes	Yes	Yes
7	Lecture notes (unit wise)	Yes	Yes	Yes
8	Sample PPT print out (Unit wise)	Yes	Yes	Yes
9	Unit wise Question bank	Yes	Yes	Yes
10	Unit wise Handout notes	Yes	Yes	Yes
11	University Question papers (Last 3 Years)	Yes	Yes	Yes
12	Internal Question papers with Answer key	Yes	Yes	Yes
13	Assignment (Minimum 3 with Multiple Topics)	Yes	Yes	Yes
14	Tutorial sheets-separate sheets (If applicable)	Yes	Yes	Yes
15	Gaps & plans for Add on Programs(Plan and Schedule)	Yes	Yes	Yes
16	Result Analysis, Remedial/Corrective action	Yes	Yes	Yes
17	Innovative Method Adopted- Description	Yes	Yes	Yes
18	Topics beyond syllabus-References	Yes	Yes	Yes
19	Course Outcomes Assessment	Yes	Yes	Yes
20	Log Book	Yes	Yes	Yes
Signature of the Faculty Incharge				
Signature of the HOD		CS9	CS9	CS9



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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### REVIEW OF PRACTICAL COURSE FILE CONTENTS

Faculty Name : Dr. C. Saravanabhavan.  
Designation : ASP  
Department : CSE  
Course Code & Course Name : CS6711 - Security Laboratory

S.No	Contents	Review 1	Review 2	Review 3
1	Institute V.M; Department V.M;PEO;PO;PSO statements	Yes	Yes	Yes
2	Course Syllabus	Yes	Yes	Yes
3	Course Information Sheet	Yes	Yes	Yes
4	Model Lesson plan	Yes	Yes	Yes
5	Student's Name List	Yes	Yes	Yes
6	Time Table	Yes	Yes	Yes
7	University Question papers	Yes	Yes	Yes
8	Internal Question Papers	Yes	Yes	Yes
9	Sample Answer Sheet	Yes	Yes	Yes
10	Gaps & plans for Add on Programs (Plan and Schedule)	Yes	Yes	Yes
11	Lah Manual	Yes	Yes	Yes
12	Course Outcomes Assessment	Yes	Yes	Yes
13	Log Book	Yes	Yes	Yes
Signature of the Faculty Incharge		<u>CS</u>	<u>CS</u>	<u>CS</u>
Signature of the HOD		<u>CS</u>	<u>CS</u>	<u>CS</u>



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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### INTERNAL ASSESSMENT - IQAC AUDIT REPORT

Subject Code / Subject Name : CS8501 / Theory of computation.  
Faculty Name : C. Radhakrishnan.

Year / Semester : D / V  
Academic Year : 2020-21

Examination	Internal Assessment 1 Examination					Internal Assessment 2 Examination					Model Examination				
	No. of Students Registered	No. of Students Attended	No. of Absentees	No. of Failures	Pass %	No. of Students Registered	No. of Students Attended	No. of Absentees	No. of Failures	Pass %	No. of Students Registered	No. of Students Attended	No. of Absentees	No. of Failures	Pass %
Internal Assessment	61	61	NIL	2	96.72	61	61	NIL	2	96.72	61	61	NIL	1	98.36
Retest Assessment	12	12	NIL	-	100%	4	4	NIL	-	100%	5	5	NIL	NIL	100
Remarks	Try to improve students mark range					Try to avoid to get fail marks					Improve the mark range				
Signature of the Faculty															
Signature of the HOD															
Signature of IQAC Member 1															
Signature of IQAC Member 2															



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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### THEORY COURSE FILE

COURSE CODE & NAME OF THE COURSE

ACADEMIC YEAR: 2021-22(Odd Semester)

### CONTENTS

1. Institute V/M; Department V/M/PEO;PO/PSO statements
2. Course Syllabus
3. Course Information Sheet with course objectives, course outcomes, PO/PSO Mapping, Mapping-Justification, Gaps in Syllabus, Topic beyond syllabus/Contemporary topics, Delivery methods, etc
4. Model Lesson plan
5. Student's Name List
6. Time Table
7. Lecture notes (unit wise)
8. Sample PPT print out (Unit wise)
9. Unit wise Question bank
10. Unit wise Handout notes
11. University Question papers(Last 3 Years)
12. Internal Question papers with Answer key
13. Assignment (Minimum 3 with Multiple Topics)
14. Tutorial sheets-separate sheets (If applicable)
15. Gaps & plans for Add on Programs(Plan and Schedule)
16. Result Analysis, Remedial/Corrective action
17. Innovative Method Adopted- Description
18. Topics beyond syllabus-References
19. Course Outcomes Assessment
20. Log Book

  
Prepared By  
Faculty Name *Dr. C. Saravanan*  
Designation/ Department *Professor*  
KNCET



# KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### PRACTICAL COURSE FILE

COURSE CODE & NAME OF THE COURSE

ACADEMIC YEAR: 2021-22(Odd Semester)

### CONTENTS

1. Institute V/M; Department V/M/PEO; PO/PSO Statements
2. Course syllabus
3. Course Information Sheet with Course Syllabus, Course Objectives, Course Outcomes, PO/PSO Mapping, Mapping Justification, Gaps in Syllabus, Topics beyond syllabus/Contemporary topics (Course Data Sheet)
4. Model Lesson Plan
5. Student's Name List
6. Time Table
7. University Question Papers
8. Internal Question Papers
9. Sample Answer Sheet
10. Gaps & Plan for Add on Programs (Plan and Schedule)
11. Lab Manual
12. Course Outcomes Assessment
13. Log Book



Prepared By  
Faculty Name G. Rathanishnan  
Designation/ Department A/PCSE  
KNCET



# KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

## Internal Assessment 2 EXAMINATION Marks Allotment Sheet (CO Assessment Sheet)

STUDENT NAME : N. Deivantharam DEPARTMENT : BE MAX MARKS : 100  
 ROLL NO. : - REGISTER NO. : 621912104011 SEM : 05  
 COURSE : POC DATE : 25-9-2020

PART	PART A										PART B								PART C		TOTAL MARKS			
	1	2	3	4	5	6	7	8	9	10	11 (a)	11 (b)	12 (a)	12 (b)	13 (a)	13 (b)	14 (a)	14 (b)	15 (a)	15 (b)		16 (a)	16 (b)	
CO1	2	0	1	1	1							10		4								12		31
CO2						2	1	2	1	1						9				9				25
CO3																								
CO4																								
CO5																								
<b>MAXIMUM MARKS (100)</b>																							<b>56</b>	

Course Outcomes	Questions Attended	Maximum marks	Actual Marks	Percentage	Attainment level
CO1	1, 2, 3, 4, 5, 11b, 12b, 16a	51	31	61	2
CO2	6, 7, 8, 9, 10, 13b, 15b, 17	49	25	51	2
CO3					
CO4					
CO5					
<b>Total/Average</b>		<b>100</b>	<b>56</b>	<b>56%</b>	<b>2</b>

Date	Total Marks	Total Marks in Words	Faculty Name	Signature
26.9.20	56	Five six	C. Puthurathum	



# KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

VALANKAL-THIRUVAIYUR MAIN ROAD, THIRUPPATTUR

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

III YEAR / V SEMESTER

COURSE DATA SHEET

AC-21

Rev: 0

PROGRAM: CSE	DEGREE: B.E
COURSE: Theory of Computation	SEMESTER: 05 CREDITS: 03
COURSE CODE: CSS501	COURSE TYPE: CORE ELECTIVE
REGULATION: 2017	SS&H
COURSE AREA DOMAIN: USE	CONTACT HOURS: 4 hours/Week.
CORRESPONDING LAB COURSE CODE (IF ANY):	LAB COURSE NAME (IF ANY):

**SYLLABUS:**

UNIT	DETAILS	HOURS
I	<b>ALGEBRA FUNDAMENTALS</b> : Introduction to formal proof – Additional forms of Proof – Inductive Proofs – Finite Automata – Deterministic Finite Automata – Non-deterministic Finite Automata – Finite Automata with Epsilon Transitions	9
II	<b>REGULAR EXPRESSIONS AND LANGUAGES</b> : Regular Expressions – FA and Regular Expressions – Proving Languages not to be regular – Closure Properties of Regular Languages – Equivalence and Minimization of Automata.	9
III	<b>CONTEXT FREE GRAMMAR AND LANGUAGES</b> : CFG – Parse Trees – Ambiguity in Grammar and Languages – Definition of the Pushdown Automata – Languages of a Pushdown Automata – Equivalence of Pushdown Automata and CFG, Deterministic Pushdown Automata.	9
IV	<b>PROPERTIES OF CONTEXT FREE LANGUAGES</b> : Normal Forms for CFG – Pumping Lemma for CFL – Closure Properties of CFL – Turing Machines – Programming Techniques for TM.	9
V	<b>UNDECIDABILITY</b> : Non Recursive Enumerable (RE) Language – Undecidable Problem with RE – Undecidable Problems about TM – Post's Correspondence Problem. The Class P and NP	9
<b>TOTAL HOURS</b>		<b>45</b>

**TEXT/REFERENCE BOOKS:**

T/R	BOOK TITLE/AUTHORS/PUBLICATION
T1	E. Hopcroft, R. Motwani and J.D Ullman. —Introduction to Automata Theory, Languages and Computation, Second Edition, Pearson Education, 2003.
R1	H.R. Lewis and C.H. Papadimitriou. —Elements of the theory of Computation, Second Edition, PHI, 2003.
R2	J. Martin. —Introduction to Languages and the Theory of Computation, Third Edition, TMH, 2003.
R3	Michael Sipser. —Introduction of the Theory and Computation, Thomson Brookscole, 1997

**COURSE PRE-REQUISITES:**

C CODE	COURSE NAME	DESCRIPTION	SEM
CS8151	Programming in C	Basic representation of Strings and Numbers	02
CS8154	Data Structures	Stack Data Structure and Graph Representation	03

**COURSE OBJECTIVES:**

1. To understand the basic fundamentals of automata.
2. To construct automata for any given language and find its equivalent regular expressions.
3. To write a context free grammar for any given language and to design PDA.
4. To understand the normal forms in CFG, Turing machines and their working principle.
5. To understand that be aware of undecidable problems and NP class problems.

**COURSE OUTCOMES:**

SNO	DESCRIPTION	PO(1,2) & PSO(1,2) MAPPING
C304.1	Design automata for language and find its equivalent automata.	PO1,2,3,4,5, PSO1
C304.2	Construct automata from regular expression for any languages and how to minimize the automata.	PO1,2,3,4,5,10,12, PSO1,2
C304.3	Analyze and Design the pushdown automata for the specific context free language.	PO1,2,3,4,5, PSO2
C304.4	Understand that how to design the Turing Machine for the languages.	PO1,2,3,4,5,12, PSO1,2
C304.5	Derive that whether the problem is decidable or not.	PO1,2,3,4,10,12, PSO1,2

**COURSE OUTCOMES VS POS MAPPING (DETAILED, HIGH:3, MEDIUM:2, LOW:1):**

SNO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C304.1	3	3	3	2	2								3	
C304.2	3	3	3	2	2					2		2	3	2
C304.3	3	3	3	2	2									2
C304.4	3	3	3	3	3								3	2
C304.5	3	3	3	2								2	3	2
Average	3	3	3	2.2	2.25					2		2	3	2

\* For Entire Course PO/PSO Mapping: 1(Low), 2(Medium), 3(High) Contribution to PO/PSO

PO1: Engineering Knowledge	PO7: Environment & Sustainability	PSO1: Domain Skills 1
PO2: Problem Analysis	PO8: Ethics	PSO2: Domain Skills 2
PO3: Design & Development	PO9: Individual & Teamwork	B
PO4: Investigations	PO10: Communication Skills	B
PO5: Modern Tools	PO11: Project Mgt. & Finance	B
PO6: Engineer & Society	PO12: Life Long Learning	B

### JUSTIFICATION FOR MAPPING

SNO	PO/PSO MAPPED	JUSTIFICATION
CS04.1	PO1-H	Understand the basic concepts of automata theory
	PO2-H	Analysis the automata problem and identify the solution
	PO3-H	Design the automata for the given language
	PO4-M	Analysis the basic key idea of automata design
	PO5-M	Apply appropriate method to construct the finite automata
	PSO1-H	Applying the automata in the real world
CS04.2	PO1-M	Remember the basic needs of the regular expressions and make them in use in automata
	PO2-H	Understand the concept of Language and Write regular expression
	PO3-H	Write the regular expression for the specific language.
	PO4-M	Investigate that the regular expression is possible to convert into automata
	PO5-M	Select the specific rules used to construct the finite automata
	PO10-M	Effectively communicate and compare the different type of automata and its equivalence
	PO12-M	Verifying the expression for the automata and to implement to identify the expression.
	PSO1-H	Apply the necessity technique to understand the programming methodology
CS04.3	PSO2-M	Compilation process is important part in the programming and it is useful in all the programming languages.
	PO1-H	Understand PDA transition based on the given Language and design.
	PO2-H	Analysis the given language how to solve.
	PO3-H	Constructing the PDA for the given language.
	PO4-M	Using the appropriate technique to investigate the given problems and find the solution
	PO5-M	Select the specific technique to find the solution of PDA
	PSO2-M	PDA concepts mostly questioned in the Higher studies.
CS04.4	PO1-H	Remember the concepts of TM and find the possible solutions.
	PO2-H	Evaluate the TM problem and identify the solution
	PO3-H	Design the TM for computable functions and languages.
	PO4-H	Analysis the TM problem and find out the appropriate solution.
	PO5-H	With the specific tool to design the TM
	PO12-M	TM will provide the real life implementation the machine
	PSO1-H	Applying the concepts in the real world.
CS04.5	PSO2-M	Competitive exams have the questions for TM construction.
	PO1-H	Understand the concept of undecidability and computability.
	PO2-H	Analysis the unsolvable problem and computable functions
	PO3-H	Derive the proof for computable functions.
	PO4-M	Analysis the problem and find the possible solution.
PO10-M	Compare & evaluate the various undecidability theorem and class problems	

### GAPES IN THE SYLLABUS - TO MEET INDUSTRY/PROFESSION REQUIREMENTS, POs:

SNO	DESCRIPTION	PROPOSED ACTIONS
1	Implementing parsers to recognize different grammars of formal language	Assignment

PROPOSED ACTIONS. TOPICS BEYOND SYLLABUS: ASSIGNMENT/INDUSTRY VISIT GUEST LECTURER/NPTEL ETC

TOPICS BEYOND SYLLABUS/ADVANCED TOPICS/DESIGN:

1	Phases of Compiler and Program Execution Steps in stage by stage level
---	--

**WEBSITE REFERENCE:**

1	<a href="http://en.wikipedia.org/wiki/Theory_of_computation">http://en.wikipedia.org/wiki/Theory_of_computation</a>
2	<a href="http://www.cmi.ac.in/">http://www.cmi.ac.in/</a>
3	<a href="http://www.geogebra.org/m/theory-of-computation-automata-tutorials/">http://www.geogebra.org/m/theory-of-computation-automata-tutorials/</a>
4	<a href="http://www.cse.cmu.edu/~emertins/courses/6.045-1028/">http://www.cse.cmu.edu/~emertins/courses/6.045-1028/</a>
5	<a href="http://www.cse.cmu.edu/~emertins/courses/6.045-recursive-function-theory.pdf">http://www.cse.cmu.edu/~emertins/courses/6.045-recursive-function-theory.pdf</a>

**DELIVERY/INSTRUCTIONAL METHODOLOGIES:**

<input type="checkbox"/> CHALK & TALK	<input checked="" type="checkbox"/> STUD. ASSIGNMENT	<input type="checkbox"/> WEB RESOURCES	<input type="checkbox"/> NPTEL/OTHERS
<input checked="" type="checkbox"/> LCD/SMART BOARDS / <i>online platform</i>	<input type="checkbox"/> STUD. SEMINARS	<input type="checkbox"/> ADD-ON COURSES	<input type="checkbox"/> WEBINARS

**ASSESSMENT METHODOLOGIES-DIRECT**

<input checked="" type="checkbox"/> ASSIGNMENTS	<input type="checkbox"/> STUD. SEMINARS	<input checked="" type="checkbox"/> TESTS/MODEL EXAMS	<input checked="" type="checkbox"/> END SEMESTER EXAMINATION
<input type="checkbox"/> STUD. LAB PRACTICES	<input type="checkbox"/> STUD. VIVA	<input type="checkbox"/> MINOR/MAJOR PROJECTS	<input type="checkbox"/> CERTIFICATIONS
<input type="checkbox"/> ADD-ON COURSES	<input type="checkbox"/> OTHERS		

**ASSESSMENT METHODOLOGIES-INDIRECT**

<input checked="" type="checkbox"/> ASSESSMENT OF COURSE OUTCOMES (BY FEEDBACK, ONCE)	<input checked="" type="checkbox"/> STUDENT FEEDBACK ON FACULTY
<input type="checkbox"/> ASSESSMENT OF MINOR/MAJOR PROJECTS BY EXT. EXPERTS	<input type="checkbox"/> OTHERS

**INNOVATIONS IN TEACHING/LEARNING/EVALUATION PROCESSES:**

1. NPTEL Video course for Theory of Computation.

  
Prepared by  
(Faculty)

  
Approved by  
(HOD)