

# NANDHA ENGINEERING COLLEGE

(Autonomous)

Affiliated to Anna University Chennai ★ Approved by AICTE ★ Accredited by NBA-New Delhi

Pitchandampalayam (P.O), Vaikkalmedu , Erode-Perundurai Road, ERODE -638 052.

Phone: 04294-225585, 223711, 223722, 226393, Fax: 04294-224787

Website : www.nandhaengg.org

E.Mail: info@nandhaengg.org

**Dr. U.S.Ragupathy M.E., Ph.D.**  
**PRINCIPAL**

Date: 23.04.2024

NEC/Cir/2023-24/1042

Time: 03.00 p.m

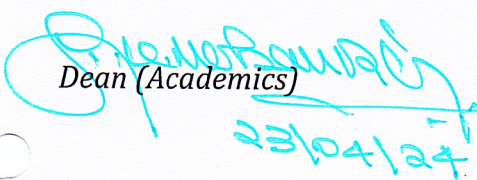
## CIRCULAR

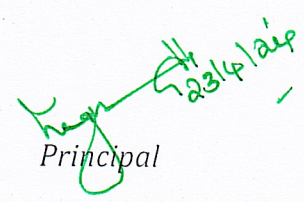
Classification	ROUTINE	√ IMMEDIATE
Academic	Originator: PRINCIPAL	Circulated to: HoDs

Sub: Academic Audit 2023-24 Odd Semester - Reg.

\*\*\*\*\*

The Academic Audit of 2023-24 (Odd Semester) is planned on 29.04.2024 (Monday) for UG (I, III, V & VII Sem) and PG (I & III Sem). An audit team consisting of external and internal faculty members will be engaged in the audit process to verify the documents related to regular academic activities. The details of auditors and department wise audit schedule will be circulated shortly. Hence, all the Heads of the Departments are requested to inform the faculty members to be ready for the audit and submit the records without fail.

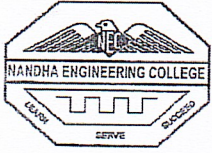
  
Dean (Academics)

  
Principal

Copy to

- All faculty Members thro' Head of the Departments
- IQAC
- File copy





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E.Mail: [info@nandhaengg.org](mailto:info@nandhaengg.org)

**Dr. E.K.MOHANRAJ, M.E., Ph.D.**  
Dean (Academics)

Date: 26.04.2024

## CIRCULAR

Sub: Academic Audit 2023-24 Odd Semester - Reg.

The end semester academic audit of 2023-24 (Odd Semester) is scheduled on 29.04.2024 (Monday) from 9.30 am onwards for UG (I, III, V & VII Sem) and PG (I & III Sem) as per the circular (Ref: NEC/Cir/2023-24/1042) dated on 23.04.2024. The detailed schedule of audit is given below:

External Experts	Date & Session	Program to be audited	No. of files to be audited
Dr. N. Senthilnathan, Professor / EEE Kongu Engineering College Perundurai	29.04.2024 (FN)	B.E. ECE	39
		B.E. Agri	37
		B.E. BME	36
		B.E. CSE	37
	29.04.2024 (AN)	B.E. EEE	33
		B. Tech. Chemical	36
		MCA	20
		M.E. (CSE)	11
		M.E. (VLSI)	11
		Add on / Honor / Minor Courses	08
Dr. S. M. Senthil AsP / Mechanical KPR Institute of Engineering and Technology Coimbatore	29.04.2024 (FN)	B.E. Mechanical	31
		MBA	25
		B.E. Civil	38
		B. Tech. IT	37
	29.04.2024 (AN)	B.Tech AI&DS	32
		B.E. CSE (CS)	20
		B.E. CSE (IoT)	20
		M.E. (ED)	12
		M.E. (ST)	11
		One Credit Courses / VAC	11
Total			505

**Venue: Board Room**

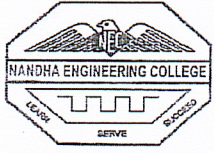
Note: All the HoDs are requested to attend the *review meeting at 3.30pm* in the same venue.

Copy to:

1. IQAC
2. All faculty Members thro' Head of the Departments

Dean (Academics)  
26/04/24





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**Dr. E.K.MOHANRAJ, M.E., Ph.D.**  
**Dean (Academics)**

Date: 26.04.2024

## CIRCULAR

Sub: Academic Audit 2023-24 Odd Semester - Reg.

The end semester academic audit of 2023-24 (Odd Semester) is scheduled on 29.04.2024 (Monday) in the continuation of this *pre-audit meeting for the internal auditors is scheduled on 27.04.2024 (Saturday), 1.00 pm* at Strength of Materials Lab.

**Overall Coordinators: 1. Ms. R. Amutha, AP/Maths**  
**2. Ms. K. Selvi, AP/Civil**

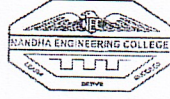
<b>Internal Auditors</b>	<b>Department to be Audited</b>
1. Ms. P. Kokila, AP/ECE	I & II AGRI
2. Mr. M. Sengottaiyan, AP/Mechanical	III AGRI & IV AGRI
3. Ms. T.G. Dhaarani, AP/ECE	I & II BME
4. Mr. S. Eswaran, AP/Mechanical	III & IV BME
5. Mr. V. Arunkumar, AsP/EEE	I & II CIVIL
6. Ms. N. Santhiya, AP/Chemistry	III & IV CIVIL
7. Ms. C. Pratheeba, AP/EEE	I & II AI&DS
8. Ms. N. Zahira Jahan, AP/MCA	I & II MECHANICAL
9. Dr. T. Jayanalina, Prof./Physics	III AI&DS, I & II MCA
10. Ms. D. Kiruthika, AP/IT	III & IV MECHANICAL
11. Dr. T. Murugasami, AsP/ECE	I & II CSE (CS)
12. Mr. K. L. Ravisankar, AP/Civil	I & II CSE (IOT)
13. Mr. B. Ramraj, AP/EEE	III & IV CSE
14. Ms. M. Bharathi, AP/Maths	III & IV CHEMICAL
15. Ms. P. Uma, AP/CSE	I & II ECE
16. Ms. M. Geetha, AP/Chemical	III & IV ECE
17. Mr. P. Jaisankar, AsP/Maths	I & II ME (ED & VLSI)
18. Dr. T. Jayakumar, AsP/BME	I & II MBA
19. Ms. M. Senthamarai, AP/ AI&DS	I & II ME (CSE & STRUCTURAL)
20. Mr. K. Rajasekaran, AP/Chemical	I & II CSE
21. Ms. N. M. Indumathi, AP/CSE	I & II CHEMICAL
22. Dr. P. Kavitha, AP/Eng.	I & II EEE
23. Ms. A. Bharathi, AP/IT	III & IV EEE
24. Ms. G. Sudha, AP/CSE (IoT)	I & II IT
25. Ms. B. Rajarajeswari, AP/CSE (CS)	III & IV IT
26. Ms. P. Savitha, AP/CSE	One Credit Courses / VAC & Add on / Honor / Minor Courses
27. Dr. K. S. Punithaasree, AP/Eng.	Reserved

Hence, all the HoDs are requested to inform the faculty members to extend their support for smooth conduct of the audit.

Dean (Academics)  
26/04/24

Copy to: IQAC & All faculty Members thro' Head of the Departments





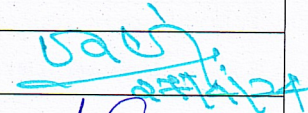
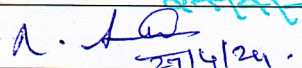
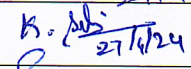
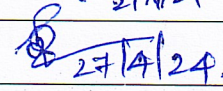

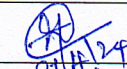
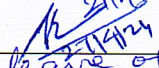
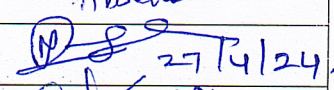
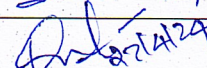
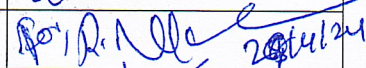
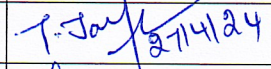
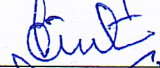
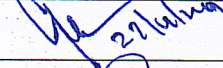

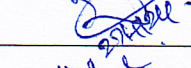

NANDHA ENGINEERING COLLEGE- ERODE - 638 052  
(Autonomous)

**Pre-Audit Meeting**

**Academic Audit Odd Semester 2023-2024**

27.04.2024

The end semester academic audit of 2023-24 Odd Semester is planned on 29.04.2024 (Monday) from 9.30 am onwards for UG (I,III, V & VI Sem) and PG (I,III Sem) programs. In this regard all the internal auditors are requested to attend a pre-audit meeting on 27.04.2024 @ 1.00 p.m .

S.No	Internal Auditors	Department to be Audited	Signature
1	Dr.E.K.Mohanraj	Dean (Academics)	
2	Ms. R. Amutha, AP/Maths	Overall Coordinator	 27/4/24
3	Ms. K. Selvi, AP/Civil	Overall Coordinator	 27/4/24
4	Ms. P. Kokila, AP/ECE	I & II AGRI	 27/4/24
5	Mr.M.Sengottaiyan, AP/Mechanical	III AGRI & IV AGRI	 27/4/24
6	Ms. T.G. Dhaarani, AP/ECE	I & II BME	 27/4/24
7	Mr.S.Eswaran, AP/Mechanical	III & IV BME	 27/4/24
8	Mr. V. Arunkumar, AsP/EEE	I & II CIVIL	leave of Absence
9	Ms.N.Santhiya, AP/Chemistry	III & IV CIVIL	 27/4/24
10	Ms. C. Pratheeba, AP/EEE	I & II AI&DS	 27/4/24
11	Ms. N. Zahira Jahan, AP/MCA	I & II MECHANICAL	 27/4/24
12	Dr.T. Jayanalina, Prof./Physics	III AI&DS, I & II MCA	 27/4/24
13	Ms. D. Kiruthika, AP/IT	III & IV MECHANICAL	 27/4/24
14	Dr. T. Murugasami, AsP/ECE	I & II CSE (CS)	 27/4/24
15	Mr. K. L. Ravisankar, AP/Civil	I & II CSE (IOT)	 27/4/24
16	Mr. B. Ramraj, AP/EEE	III & IV CSE	 27/4/24
17	Ms. M. Bharathi, AP/Maths	III & IV CHEMICAL	 27/4/24



18	Ms. P. Uma, AP/CSE	I & II ECE	<i>See...</i> 27/4/24
19	Ms. M. Geetha, AP/Chemical	III & IV ECE	<i>M. Geetha</i> 27/4/24
20	Mr. P. Jaisankar, AsP/Maths	I & II ME (ED & VLSI)	<i>P. Jaisankar</i> 27/4/24
21	Ms.S.Maheswari,HOD/CSE (IoT)	I & II MBA	<i>S. Maheswari</i> 27/4/24
22	Ms.M.Senthamarai, AP/AI&DS	I & II ME (CSE & STRUCTURAL)	<i>M. Senthamarai</i> 27/4/24
23	Mr.K.Rajasekaran, AP/Chemical	I & II CSE	<i>K. Rajasekaran</i> 27/4/24
24	Ms. N. M. Indumathi, AP/CSE	I & II CHEMICAL	<i>N. M. Indumathi</i> 27/4/24
25	Dr. P. Kavitha, AP/Eng.	I & II EEE	<i>P. Kavitha</i> 27/4/24
26	Ms. A. Bharathi, AP/IT	III & IV EEE	<i>A. Bharathi</i> 27/4/24
27	Dr. T. Jayakumar, AsP/BME	I & II IT	<i>T. Jayakumar</i> 27/4/24
28	Ms.B.Rajarajeswari,AP/CSE (CS)	III & IV IT	<i>B. Rajarajeswari</i> 27/4/24
29	Ms. P. Savitha, AP/CSE	One Credit Courses / VAC & Add on / Honor / Minor Courses	<i>P. Savitha</i> 27/4/24
30	Dr.K. S. Punithaasree, AP/Eng.	Reserved	<i>Punithaasree</i> 27/4/24





**NANDHA ENGINEERING COLLEGE (Autonomous), ERODE- 52**  
**ACADEMIC AUDIT- ODD SEMESTER (2023-2024)**

27.04.2024

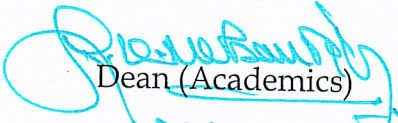
**Pre Audit Meeting Minutes**

The meeting of Pre audit was held on 27.04.2024 @ 1.00 p.m in Strength of Materials laboratory, Block 6, Nandha Engineering College (Autonomous), Erode - 52. After the brief introduction, the agenda listed below were taken up for discussion.

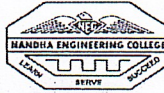
<b>AGENDA</b>	
Item 1.01	Timetable
Item 1.02	New parameters include in the Audit Form
Item 1.03	Instruction to Internal Academic Auditors

The discussions and resolutions were recorded as follows:

Item 1.01	Timetable
Discussion	As per the schedule, time table of 2023-2024 odd semester of the respective departments were distributed to the internal auditors.
Resolution	Resolved to do the audit as per the schedule.
Item 1.02	Audit Form
Discussion	Audit forms of each year were handed over to the auditors.
Resolution	Resolved to verify the documents attached in the course file and mark the same in the audit form.
Item 1.03	Instruction to Internal Academic Auditors
Discussion	The auditors were asked to complete the audit process and submit the audit forms without any delay.

  
Dean (Academics)  
27/04/24





# NANDHA ENGINEERING COLLEGE

(Autonomous)

ERODE - 638 052

ACADEMIC AUDIT

Odd Semester 2023-2024

Date: 29.04.2024

External Auditor:

Dr. N. Senthilnathan,  
Professor / EEE  
Kongu Engineering College  
Perundurai

Feedback / General Observations:

- \* Good commitment by Faculty.
- \* All the files are shown properly.
- \* Rubrics need to be given for projects, IPT evaluation, Lab etc.
- \* Data need to be verified by the authorities before signing.

Suggestions to strengthen our Teaching Learning Process:

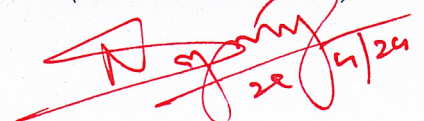
- \* OBE need to be understand properly.
- \* Target setting, Attainment calculation understanding needed.
- \* CO calculation to be kept at fraction itself.
- \* Teaching methodology need to be diverse.

Suggestions to strengthen our Academic Audit Process:

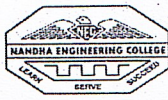
- \* May be One auditor / department will do the Justice.

Signature

(Dr. N. Senthilnathan)

  
28/4/24





# NANDHA ENGINEERING COLLEGE

(Autonomous)

ERODE - 638 052

ACADEMIC AUDIT

Even Semester 2022-2023

Date: 29.04.2024

External Auditor:

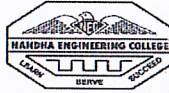
Dr. N. Senthilnathan,  
Professor / EEE  
Kongu Engineering College  
Perundurai

Any other Comments:

- \* No Understanding of levels of mapping with CO-PO, CO-PSO.
- \* No. of PEO's vary with department.  
ECE - 5, Agri - 3  
BME - 3.
- \* Content beyond Syllabus - May be avoided in theory.
- \* For Lab - CA marks & ES marks need to be clear.
- \* CO - distribution may vary - Not necessarily common 20%.
- \* In Q.P Question verbs are very odd, Just inserted to satisfy the level.

Signature  
(Dr. N. Senthilnathan)





NANDHA ENGINEERING COLLEGE (Autonomous), ERODE - 638 052

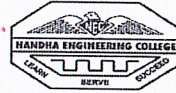
ACADEMIC AUDIT - Odd Semester 2023-2024

Date: 29.04.2024

S.No	Dept.	Year	Course Code	Course Title	Faculty Handled by	Comments
1	ECE	III	17ECC15	Transmission Lines & Waveguides.	P. Kokila	Co level can be mentioned. In Q.P levels are not proper.
2	Agri	IV	17AGP11	Project work ,	T. Bragadeeswaran	Attainment page is not correct. Common format for review, batch allotment, Rubrics can be given
3			17AGP02	Industrial Engg	"	Evaluation by Ind. report may be changed.
4	BMI	I	22CSP01	Problem solving & C programming Lab.	Sri thar. A	Two models conducted - Why? Rubrics may be clarified.
5	EEE	IV	17EEC18	PSPS	Dr. M. Balachandhan	Target for attainment may be reviewed. Knowledge level may be improved. awareness on IC level may be given
6	Agri	IV	17AGX04	Climate change and Adaption	Dr. P. Komala bhavathi.	
7	MCA	II	22CAB10	Machine Learning	Zahira Jahan. N.	"
8	"	"	22CAPO5	Machine Learning Lab	"	"
9	CSE	III	17CSC12	Graphics & Multimedia	P. Uma	"
10						
11						
12						

Signature  
(Dr. N. Senthilnathan)






# NANDHA ENGINEERING COLLEGE (Autonomous), ERODE - 638 052

## ACADEMIC AUDIT - Odd Semester 2023-2024

Date: 29.04.2024

S.No	Dept.	Year	Course Code	Course Title	Faculty Handled by	Comments
1	CSE-10T	I	22EC01	Basis of Electronic Engg.	Ms. R. Saran Priya	Proof to be self attested.
2	IT	I	22PYB01	Semiconductor Physics	Dr. J. Mubika	-
3	MBA	II	17BAB15	Strategic Management	Ms. Nandhini K	co-PO mapping to be recorded.
4	"	I	22BAPO5	Share Trading	Mr. C. Jothi basu	Documents to be revisited and corrected.
5	"	IV	17BAPO8	Project Work	Dr. K. Parthiban	Proof to be clear
6	AIIDS	II	22AIC05	Artificial Intelligence	Ms. J. Jahina	-
7	Mech	IV	17MEC16	Fluid Power System (PBL)	Dr. N. Sannigani	-
8	Civil	III	17CEC12	Structural Analysis I	Mr. K. V. Mani lehandan	-
9	CSE-CS	I	22ECP01	Basis of Electrical Engg Lab	Ms. R. Charan Priya	-
10	ME-Struc.	I	22STB02	Structural Dynamics & Earth Quake Engg.	Ms. K. Selvi	-
11	Chemical	IV	17CHC17	Transport Phenomena	Ms. S. Keerthika	-
12	"	II	22CHP01	Fluid Mechanics Lab	Ms. S. Keerthika	-

  
Signature  
(Dr. S. M. Senthil)





## NANDHA ENGINEERING COLLEGE, ERODE-638052

(An Autonomous Institutions, Affiliated to Anna University, Chennai and Approved by AICTE, New Delhi)  
Academic Audit Report 2023-2024 Odd Semester

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Date: 01.05.24

The end semester Academic Audit of 2023-24 (Odd Semester) was conducted on 29.04.2024 (Monday) with External and Internal Auditors as per circular Ref.No:(NEC/Cir/2023-24/1042) dated: 23.04.2024 for UG (I, III, V & VII Semester) and PG (I & III Semester) Programs. The observations and suggestions of external members are listed below:

### Observations:

**Comments by Dr. N. Senthilnathan, Professor / EEE, Kongu Engineering College, Perundurai**

- CO should be calculated in fraction in over all attainment.
- Course expert member may be course coordinator.
- Course coordinator meeting should be conducted even after the end semester examination.
- PSOs and PEOs should be verified department wise.
- While calculating end semester attainment, Grades are to be verified.
- The rubrics followed for awarding rank for the project students should be mentioned.
- Project supervisors should be allocated based on their area of specialization.
- Rules and regulations should be framed for project evaluation.
- Rubrics are to be framed for project mark allocation.
- Evaluation sheet is to be attached for in plant training.
- CO-PO correlation mapping needed to be improved.
- For fast track courses, in the course plan, in teaching tools column, besides mentioning PPTs, real time application oriented animated videos are to be included as mentioned in the course coordinator meeting.
- All the files are shown properly.
- Good commitment by faculty.
- Rubrics need to be given for projects, IPT evaluation, laboratory, etc.,
- Data needs to be verified by the authorities before signing.
- OBE needs to be properly understood.
- More understanding is needed on target setting and attainment calculation.
- Fractional values are to be kept for CO calculation.
- Diverse teaching methodologies shall be implemented.
- May be one auditor per department will do the justice.



- CO – PO and CO – PSO mapping can be more accurate.
- Content beyond syllabus may be included in assignments and seminar.
- COs distribution shall not necessarily be 20%.
- In question papers, question verbs are to be appropriate.

**Comments by Dr. S. M. Senthil, AsP / Mechanical, KPR Institute of Engineering and Technology, Coimbatore.**

- In course plan, the planned hour should be typed and actual hour is to be written manually.
- For PG courses, the knowledge level of the case studies allotted to the students should be of high order thinking. (Ap, E and CR).
- Proof for seminar taken by the students should be attached in the course file with signature.
- Course file content order should adhere to the audit format.
- End semester attainment of MBA department should be rechecked.
- CO-PO, PSO mapping for R17 regulation should be done accurately.
- ReCAT mark should be attached in the course file.
- OBE activities must be kept in the course file along with photos.
- Rubrics must be mentioned in the MBA lab record.
- Activities for experiential learning must be conducted and the same along with proof should be kept in the course file.
- Taking print out for course file in one side used sheet should be avoided.
- In log book, all the particulars should be furnished perfectly.
- Content beyond syllabus should be given as assignment to the students.
- Class Committee Meeting can be convened in the presence of Course coordinator and course instructor and the presence of HoDs is not needed.
- Different Target Attainment level can be fixed for each course.
- In Part B questions, either or part should be in the same knowledge level.
- Tests, assignments and seminar questions for slow, average and fast learners should be taken in such a way that the questions should help the students to take them to the next level.
- All the photos that are kept in the files should be with caption.
- Course end survey sample form should be with students' comments for further improvement.
- There is no need to keep two sets of CAT question papers in the course file. Only used question paper alone should be kept.
- In attainment template, CO values should be included.
- Internal Scrutiny should be done for the question papers set by the external examiners.

Dean (Academics)

01/05/24





**NANDHA ENGINEERING COLLEGE, ERODE- 52**  
(AUTONOMOUS)  
**ACADEMIC AUDIT - ODD SEMESTER (2023-24)**  
**ACTION TAKEN REPORT**

02.07.2024

The following were the points suggested by the External and Internal Auditors:

S.No	Details of Courses Audited	Nature of Discrepancy	Action Taken
1.	III ECE 17ECC15 Transmission Lines and Waveguides	COs are not properly mentioned in the question paper.	Noted, COs will be mentioned properly in the QP for the forth coming semester onwards.
2.	IV Agri 17AGP11 Project Work I	1. Attainment page is not correct. 2.Common format for review, batch allotment rubrics may be given	1. Attainment modified 2. In the forth coming semester onwards common format for review and rubrics will be followed and project guidelines will also be prepared.
3.	IV Agri 17AGP12 Industrial Engineering	Common format for review and batch allotment may be given	Common format for review and rubrics will be followed.
4.	I BME 22CSP01 Problem Solving and C Programming Laboratory	1. The reason for conducting two models must be given. 2.Rubrics may be clarified	1. Two model exams were conducted for the laboratory course as per the R22 regulations. 2. Rubrics will be formulated for the Laboratory courses and the same will be implemented from the forthcoming semester onwards.
5.	IV EEE 17EEC18 Power System Protection and Switch Gear	1.Target for attainment may be revised 2.Knowledge level may be improved	1. The target for the 2020-24 batch was set as 75%.The target has been revised and fixed as 60% for the next batch 2021-25. 2. The course handling faculty has been instructed to prepare question paper by mentioning the correct knowledge level.
6.	IV Agri 17AGX04 Climate Change and Adaptation	Awareness on Knowledge Level may be given	Awareness on Knowledge Level will be created and Question papers will be prepared with proper knowledge level.
7.	I CSE (IoT) 22ECC01 Basics of Electronics Engineering	Proofs are to be self attested	All the proofs were self attested and included in course file.
8.	II MBA 17BAB15 Strategic Management	CO-PO mapping is to be recorded	Included in course file
9.	I MBA 22BAP05 Share Trading	Documents are to be re-verified and corrected	The documents were re-verified and corrected in the course file
10.	IV MBA 17BAP08 Project Work	Proofs are not in clear	Clear proofs were attached in the course file.

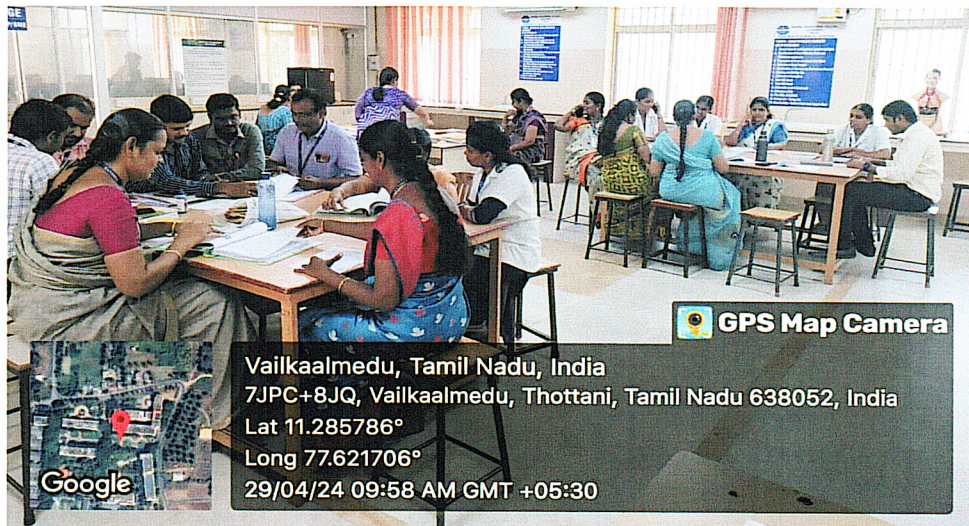
Dean (Academics)  
02/07/24





**NANDHA ENGINEERING COLLEGE(Autonomous)  
ERODE - 638052  
ACADEMIC AUDIT  
2023-2024 (ODDSEMESTER)**

**29.04.2024**



The end semester academic audit of 2023-24 (Odd Semester) is held on 29.04.2024 (Monday) at Board Room from 9.30 am onwards for UG (I, III, V & VII Sem) and PG (I & III Sem) by external auditors 1). Dr. N. Senthilnathan, Professor / EEE, Kongu Engineering College, Perundurai 2) Dr. S. M. Senthil, AsP / Mechanical, KPR Institute of Engineering and Technology, Coimbatore and internal auditors.