



DOCUMENT INDEX CRITERIA – 6.5.3

ADDITIONAL DOCUMENTS

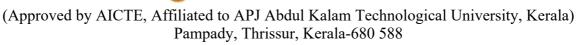
SI No	SPECIFICATION OF DOUMENT	PAGE NO
1.	ACADEMIC ADMINISTRATIVE AUDIT (AAA)	1 - 111
2.	MRM AND INITIATION OF FOLLOW-UP ACTION	112 - 113
3.	ORIENTATION PROGRAMMES ON QUALITY ISSUES FOR TEACHERS AND STUDENTS	114 - 147



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DOCUMENT INDEX CRITERIA – 6.5.2

DEPARTMENT WISE INTERNAL ACADEMIC AUDIT

Sl No	SPECIFICATION OF DOUMENT	PAGE NO
1.	Auditors detail of Inter department Academic Audit	1-2
	MTR	
2.	ODD SEMESTER	02 20
3.	EVEN SEMSTER	03 – 20
	CSE	
4.	ODD SEMESTER	21 20
5.	EVEN SEMSTER	21-38
	MBA	
6.	ODD SEMESTER	20 52
7.	EVEN SEMSTER	39 - 52
	ME	
8.	ODD SEMESTER	52 (0
9.	EVEN SEMSTER	53 - 69
	ECE	
10.	ODD SEMESTER	70.05
11.	EVEN SEMSTER	70 - 85
	MCA	
12.	ODD SEMESTER	97. 93
13.	EVEN SEMSTER	86 - 92
	EEE	,
14.	ODD SEMESTER	02 110
15.	EVEN SEMSTER	93 - 110



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Internal Audit Schedule (Odd Semester) - 2021-22

The second secon	illiai Au	uit Scheuu	ie (Odd Semester	<u> </u>		
Sl.No	Date	Department to be audit	Auditor name	Signature		
· 1	01/02/2022 to	CSE	Mr. Anoopkumar M V	Age		
	03/02/2022		Mr. David E	Dann		
2	01/02/2022 ECE to		Mr.Rahul R	W .		
3 7	03/02/2022		Mr.Vipin K M	/R		
. 3	01/02/2022 to	EEE	Mr.Vipin K M	W		
	03/02/2022		Mr. Midhun Raj P K	W.		
4	01/02/2022	ME	Ms.Sajitha A S	Jan		
	03/02/2022		Mr. Midhun Raj P K	34		
5	01/02/2022 to	MT	Mr.Rahul R	T W		
	03/02/2022		Ms.Sajitha A S	Janes		
6	01/02/2022 to	MBA	Ms.Deepa A	Dego		
	03/02/2022		Mr. Anoopkumar M V	Ly		
7	01/02/2022 to	MCA	Mr.Alex Kuruvilla	wath		
	03/02/2022		Mr. David E	Am		

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Engineering and Research Centre
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Pin - 688 597, Kerala





NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE (NAAC A Accredited) (Approved by AICTE, Affiliated to APJ Abdul Kalam Technological



University, Kerala)

INTERNAL QUALITY ASSURANCE CELL

Internal Audit (First) Schedule (Even Semester)- 2021-22

Sl.No	Date	Department to be audit	Auditor name	Signature
1		CSE	Mr. Anoopkumar M V	H
			Mr. David E	Am
2		ECE	Mr.Rahul R	TOX
			Mr.Vipin K M	4
3	2022	EEE	Mr.Vipin K M	×
	07/06/2022		Mr. Midhun Raj P K	1 4
4	0	ME	Ms.Sajitha A S	Deligi
	22 to		Mr. Midhun Raj P K	W
5	06/06/2022 to	MT	Mr.Rahul R	X
	/911		Ms.Sajitha A S	Jenta
6		MBA	Ms.Deepa A	Beeps
			Mr. Anoopkumar M V	H.
7		MCA	Mr.Alex Kuruvilla	Addy
			Mr. David E	(A)

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IQAC INTERNAL ACADEMIC AUDIT REPORT (2021-22)

ACADEMIC YEAR

2020-2D

AUDITED DEPARTMENT: MTR

AUDITED BY: Mr.Rahul & Ms.Sajitha A S

DATE: 02/02/2022

SEMESTER: ODD

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1	4			4																				w
a. Verify class wise and individual	Schedule of Time Table	(vi) Module notes	marks	(v) Statements of Internal Evaluation	exams with QP	(iii) Sample Answer books of internal	(ii) Sample Assignments	(i) Course file	a. The course folder shall contain	Maintenance of course folder	(viii) Extra classes engaged	(vii) Topics covered	internal exams etc.	(vi) Marks awarded for assignments,	(v) Attendance of students	(iv) Details of assignments, tutorials	(iii) Course plan	(ii) Syllabus	(i) Time slot of classes	necessary details such as	b. Examine course file for all	practical, seminar, project, etc.)	a. Course file for all courses (theory.	Course File for all the courses
	AVAILABLE			A STATE OF S	All productions and the second								The state of the s	教の一年 一日 100日 十年 1年									AVAILABLE	
Contact class timing is from 9.00 AM to 4.00	Verified time table.		· · · · · · · · · · · · · · · · · · ·		A CONTRACT OF THE PROPERTY OF				Notes available	available	Series test 1&2 QP and scheme are	booklets are available	8. 3 sample assignments and series	No extra classes needed	modules completed for S3 and S5	All modules completed for S7. 4	Series test marks verified	carries 10 marks, total 30 marks	from first three modules, each	4. Assignments completed, 3 questions	-	Syllabus pasted	1. Time slot verified	
	COMPLETED												1000年の大阪の大阪の大阪の大阪の大阪の大阪の大阪の大阪の大阪の大阪の大阪の大阪の大阪の										COMPLETED	

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. (%	1. punctuality of valuation 2. Question papers & scheme of au color	a. Assessment can be done based on	Internal test question paper and sample answer scripts	Sample tutorial book	faculty	b. Size of tutorial classes c. Number of students assigned to a	Conduct of Tutorial Classes a. Verify the tutorial loohook						raculty-wise time table
			AVAILABLE				AVAILABLE						
	 Three sets of QP and scheme are available for series test 1 & 2 Three sample answer sheets available 	Answer papers on or before due date.	All the familties valued and milmittal the		一日 一日 一日 一日 一日 日本 日子 一日	Tutorial hours are marked in the timetable.	Tutorial logbook and sample notebooks are verified	Revision class timetable also verified.	5 hours per day with 50 minutes duration	Friday – 8.00 am to 12.30 pm,	Monday to Thursday - 8.30 am to 1.30 pm,	Online time table	PM
			COMPLETED				COMPLETED						

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Nehru College of Engineering and Research Centre Pampagy, Thirtivilwamala Thirssur Dr Pin - 630 597, Kerala

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preparation of report	hypothesis/design/methodology, formulation of work plan,	 c. includes literature survey, formulation of objectives, formulation of 	b. project team maximum of 5	such as papers published, patents, awards etc.	a. Course file, project review records, outcome of projects	Can be accessed from	Ossite & Decrease of projects	project/Final semester project) progress review reports.	Project (Mini project/Design			Conduct of series test
							VERIFIED	and	AVAILABLE	15		CONDUCTED
					Sample reports are available	3 reviews completed for MTR S7 students	Project	Design projects: Not Applicable	Seminar of S7 MTR completed	S1, S3, S5 and verified Conducted as per academic schedule	for S/and verified. 2. Series test I result analysis is available for	esult analysis is available
+									COMPLETED /			COMPLETED

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14					13	12	
Details showing the conduct of remedial classes. a. Check maintaining register for recording details of remedial classes	c. check green card updating	 b. subject wise and overall pass percentage 	 a. Update with revaluation results 	Performance of students in the previous semester	Result Analysis of previous semester	Mentoring details	d. sample fair report
REMEDIAL CLASS REGISTER AVAILABLE			VERIFIED	AVAILABLE AND		REGISTER AVAILABLE	
Recorded class details in the register			 Green Cards verified and all batches green cards were updated. 		1. Updated last university result and	Verified the details. 15 Students assigned for one faculty	
COMPLETED					COMPLETED	COMPLETED	

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18			17		16		15	
Details of faculty evaluation and action taken on it.	b. Verify CO/PO attainment calculation for all the courses	 a. Verify COs and knowledge levels in internal and assignment question papers. 	Assessment of Outcomes	Check maintaining course file for recording details of honour classes	Details showing the conduct of Honour classes	Minor classes Check maintaining course file for recording details of minor classes	Details showing the conduct of	b. Attendance of students
AVAILABLE		We all the second	AVAILABLE		AVAILABLE		AVAILABLE	
First & Second set feedback in the current semester was collected and the grades calculated. Detailed Report is available			CO/PO knowledge levels and attainment calculations and files are available and verified	and verified	Course files for S7 HONOURS are available	Course files and Course folders are available and verified	S3 and S5 MINOR	
COMPLETED			COMPLETED		COMPLETED		COMPLETED	

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10		17		16	15	
action taken on it.	b. Verify CO/PO attainment calculation for all the courses	Assessment of Outcomes a. Verify COs and knowledge	Check maintaining course file for recording details of honour classes	Details showing the conduct of Honour classes	Details showing the conduct of Minor classes Check maintaining course file for recording details of minor classes	b. Attendance of students
AVAILABLE		AVAILABLE		AVAILABLE	AVAILABLE	3-1
semester was collected and the grades calculated. Detailed Report is available	First & Second set feedback in the current	CO/PO knowledge levels and attainment calculations and files are available and verified	and verified	Course files for S7 HONOURS are available	S3 and S5 MINOR Course files and Course folders are available and verified	
2	COMPLETED	COMPLETED		COMPLETED	COMPLETED	

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Pin - 680 597, Keraia







22		21	20	19			
	Register showing activity points	NPTEL/SWAYAM course materials recommended	Platform used for LMS/Course materials and lectures uploaded	Department library register showing volume and title of books, journals etc.	c. corrective actions taken for improving teaching effectiveness	a. two sets of feedback for each semesterb. % of students participated	Students Feedback
TED ATED	REGISTERS AVAILABLE	AVAILABLE	VERIFIED	REGISTER AVAILABLE			
Green Cards verified and all hatches green		Available and verified. S5 S7 Registers were undated.	Course Materials uploaded in Google class room and college website	Stock register and issue register available.			· 一方 場 田巻の (株) (水) ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・
COMPLETED		COMPLETED	COMPLETED	COMPLETED			



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29	28	27	26	25	24	
Conference Details	Paper publication	Faculty and staff profile	Feedback from Students, Alumni, Employer & Faculty	Details of value added courses	Categorisation of students with list	
AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE	Available	AVAILABLE	AVAILABLE	
List and details of conference file are available. Details of 8 conferences are available in odd semester of academic year 2021-22	List and details of paper publications file are available. 9 papers published in odd semester of academic year 2021-22	Faculty and staff profile documents are available for all faculties and staff.	Feedback from Students and Alumni are available and verified	Value added courses and details are available. 3 value added courses are available in odd semester of academic year 2021-22	Students' categorisation list available and verified.	cards were updated.
COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED	

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PRINCIPAL Nehru College of

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Phn. - 680 597, Kerata



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34		i.	4 mg 5 - 1	33	32	31	30
Time table (with tutorials) - Staff	FOR LAST 3 YEARS	A1 - Files (Academic Files)	DEPARTMENT FILES	Funded FDPs	FDP Details	Training Program	Refresher Course
AVAILABLE			IN LINE WI	NOT AVAILABLE	AVAILABLE AND VERIFIED	AVAILABLE	AVAILABLE
verified Contact class timing is from 9.00 AM to 4.00	Time table for all classes are available and		DEPARTMENT FILES IN LINE WITH NBA/NAAC ACCREDITATION	Funded FDPs are not available	List and details of FDP file are available. Details of 8 FDPs are available in odd semester of academic year 2021-22	List and details of training program are available. No training programs were attended or organized in odd semester of academic year 2021-22	List and details of refresher courses are available. No refresher courses are attended or organized in odd semester of academic year 2021-22
	COMPLETED		LION	COMPLETED	COMPLETED	COMPLETED	

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Pin - 680 597, Kerala Nehru College of

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			PM
			Online time table
1	The state of the s		Monday to Thursday - 8.30 am to 1.30 pm,
			Friday – 8.00 am to 12.30 pm,
Ĭ		· · · · · · · · · · · · · · · · · · ·	5 hours per day with 50 minutes duration
	Control of the Contro		Revision class timetable also verified.
35	Internal exam QP (DQAC Approved)	AVAILABLE	Approved sets of Internal exam QP are available and Verified
36		AVAILABLE	Innovative Teaching approaches such as ICT enabled teaching, group assignment, interactive
	Innovative Teaching approaches		learning, video lectures, group discussion, tutorial, peer learning and project based learning are verified
37	Tutorial samples with log book	AVAILABLE	Tutorial logbook and sample notebooks are verified
			Tutorial hours are marked in the timetable.
38	SFR (Computation as per NBA)	AVAILABLE	Number of faculties = 13
100	FOX		

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Pin - 680 597, Kerala





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COLLEGE OF		- 12 Aug 1				42		41	3	40			39	1			
A.A.			Project (a. List of projects with guides and students b. Panels, rubrics and		tified to	Curriculum Gan (with Gan	PO, PSO attainment	70 700	CO-PO, CO-PSO mapping		A3 - Files (Academic Files)	(Tens o Jens)	Course files (Last 3 years)	File (Academic Files)	A2 - E::- (A		
· ·	VERIFIED	and	AVAILABLE		AVAILABLE		AVAILABLE		AVAILABLE			AVAILABLE					
	3 reviews completed for CSE S7 students	Project	Design projects: Not Applicable		Feedback files indicating reason for curriculum gap are available and verified	are available and verified.	Calculated documents of PO, PSO attainment of all courses are are:	man relitied.	CO-PO, CO-PSO mapping of all courses are			sample test books are available and verified			SIN - 13.84	CEB - 12 64	Number of students = 180
7			COMPLETED		COMPLETED		COMPLETED		COMPLETED			COMPLETED					

Nehru College of PRINCIPAL

Engineering and Research Centre Partipacy, Thiruvilwamala Thrissur Dr Pin - 688 597, Kerala

EMCH CHARLES







Sample reports are available Subject Group (List of groups and each group) (List of groups and each group), Indiment by HoD, Minutes of each group, Fragenal/Activities onganized under each group) B - Files (Staff Files) B - Files (Staff Files) Add-on Courses (Update these files) Add-on Courses (Update these files) Add-on Courses (Update these files) AVAILABLE funding (a. Internal, b. External) AVAILABLE outcomes AVAILABLE (Consultancy works/research and outcomes) AVAILABLE (Consultancy works/research and outcomes) AVAILABLE (Consultancy works/research and outcomes) AVAILABLE (List of Add-on courses and details are available. 3 add-on courses are there in odd semester outcomes) AVAILABLE (Consultancy works/research and outcomes) AVAILABLE (List and details of journal publications file are completely of academic year 2021-22 AND VERIFIED of academic year 2021-22
Sample reports are available Sample reports are available Sample reports are available AVAILABLE group, faculties and activit and activit of subject group, faculties and activit and activit subject group, faculties and activit and activit subject group, faculties and activit and activit and activit subject group, faculties and activit and activit and activit subject group, faculties and activit and activit and activit and activit are available Files (Staff Files) AVAILABLE available. 3 add-on courses and details are available. 3 add-on courses are there in odd semester of academic year 2021-22 Not available Not available Not available AVAILABLE List and details of journal publications file a available. 3 papers published in odd semest of academic year 2021-22
ILABLE List of subject group, faculties and activit are available List of Add-on courses and details are available. 3 add-on courses are there in odd semester of academic year 2021-22 Not available ILABLE Not available List and details of journal publications file a available. 3 papers published in odd semest of academic year 2021-22
ect group, faculties and activit ct group, faculties and activit n courses and details are dd-on courses are there in odd cademic year 2021-22 lls of journal publications file a papers published in odd semest year 2021-22
n) = [A A A A A A A A A A

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	55	22		53		52	n he Invi	51		50		49
203	External Interaction	Awards / Honors		FDP/Conference Organized		FDP Attended: (a. Outside own college b. Inside own college)	MoU		All the second s	IPR (and related activities)		Publications: Conference, Books, Book chapters, Articles, etc.
	NOT AVAILABLE	NOT AVAILABLE	1	AVAILABLE AND VERIFIED		AVAILABLE AND VERIFIED	AND VERIFIED	AVAILABLE	1	AVAILABLE AND VERIFIED		AVAILABLE AND VERIFIED
	Not available		Not available	available.	-1	List and details of FDP file are available. Faculties attended30 FDP in odd semester of academic year 2021-22	2021-22	List and details of MoU file are available. I		, in	rist and details of IPR file are available. 4	Details of 9 conferences are available in odd semester of academic year 2021-22
		COMPLETED	COMPLETED		COMPLETED	COMPERTED	COVIDI ETEN	COMPLETE	COMPLETED		COMPLETED	



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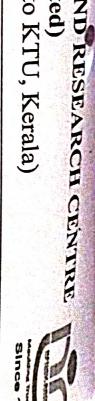
Ę, sm.	C - Files (Student Files)			
56	Roll List (for last 3 years)	AVAILABLE AND VERIFIED	Roll List for last 3 years are available	COMPLETED
57	KTU Results and Analysis (Semesterwise)	AVAILABLE AND VERIFIED	KTU Results and Analysis are available	COMPLETED
58	Success Data of Passed Out Batch	AVAILABLE AND VERIFIED	Available	COMPLETED
59	Placement (Proof- for previous Acad Year)	AVAILABLE AND VERIFIED	Placement details are Available	COMPLETED
60	Higher Studies (Proof- for previous Acad Year)	AVAILABLE AND VERIFIED	Higher Studies details are Available	COMPLETED
61	Career/Skill Development Programs	AVAILABLE AND VERIFIED	Career/Skill Development Programs details are Available	COMPLETED
62	Achievements	AVAILABLE AND VERIFIED	Department Achievements details are Available	COMPLETED

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68 Dep	67	66	65		64	63
Dep					V. I 18	
Department Budget	Guest Acquaintance (Semester-wise)	Staff Duties/Responsibilities	Staff Extension Activities	D - Files (Miscellaneous Files)	Professional Society Activity	Entrepreneurship / Start ups
AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED		AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED
Department Budget files are Available	Guest Acquaintance details are Available	Staff Duties/Responsibilities details are Available	Staff Extension Activities details are Available		Professional Society Activity details are Available	Entrepreneurship / Start ups details are Available
COMPLETED	COMPLETED	COMPLETED	COMPLETED		COMPLETED	COMPLETED
	AVAILABLE Department Budget files are Available AND VERIFIED	(Semester-wise) AVAILABLE AND VERIFIED AVAILABLE AVAILABLE AND VERIFIED Guest Acquaintance details are Available AVAILABLE Department Budget files are Available	AVAILABLE AND VERIFIED Staff Duties/Responsibilities details are Available AVAILABLE Guest Acquaintance details are Available AVAILABLE AND VERIFIED AVAILABLE Department Budget files are Available AND VERIFIED	AVAILABLE AND VERIFIED Staff Extension Activities details are Available Staff Duties/Responsibilities details are Available Staff Duties/Responsibilities details are Available Guest Acquaintance details are Available AVAILABLE AND VERIFIED AVAILABLE AND VERIFIED Department Budget files are Available AND VERIFIED	aneous Files) AVAILABLE AND VERIFIED Staff Extension Activities details are Available Staff Duties/Responsibilities details are Available Staff Duties/Responsibilities details are Available Staff Duties/Responsibilities details are Available Ouest Acquaintance details are Available AND VERIFIED AVAILABLE AND VERIFIED Department Budget files are Available ouest Available and AND VERIFIED	AVAILABLE AND VERIFIED AVAILABLE AND VERIFIED AVAILABLE AVAILABLE AVAILABLE AVAILABLE AVAILABLE AND VERIFIED Staff Extension Activities details are Available AVAILABLE AND VERIFIED Staff Duties/Responsibilities details are Available AVAILABLE AVAILABLE Available Ouest Acquaintance details are Available AVAILABLE AND VERIFIED AVAILABLE AND VERIFIED Department Budget files are Available AND VERIFIED

Auditor

Auditee (Nukhun Ray)

Nehru College of PRINCIPAL

Panipady, Thiruvilwamala Thrissur Dy Pin - 680 597, Kerula Engineering and Research Centre







IQAC INTERNAL ACADEMIC AUDIT REPORT (2021-22)

ACADEMIC YEAR

2020-22

AUDITED DEPARTMENT: CSE

AUDITED BY : Mr. Anoopkumar MV & Mr. David E

SEMESTER: ODD DATE: 02/02/2022

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1	ocau,	NEHRUCA			1						z ::
	03031			report	a. Verify minutes and action taken	UG/PG	of course/class committees of	Minutes and action taken reports			Key Aspects
						AVAILABLE				Documents	Status of
	INTERIOR (ON TOLOTICE) INTERIOR	S7 B TECH - (ON 15/01/2) - Meeting II S7 B TECH - (ON 15/01/22) - Meeting III	members without students.	third meeting was comprised of faculty	attended for first and second meeting. The	report. All faculties who handling the		Three meetings has conducted for S7 Btech	(1) 10 10 10 10 10 10 10 10 10 10 10 10 10		Auditor Remarks
000							COMPLETED	COMPLETED	documents	pending	Completion of

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SESEAR	class-wise and individual	A LI	 (iv) QP of end exams (v) Statements of Internal Evaluation marks (vi) Module notes 	(ii) Sample Assignments (iii) Sample Answer books of internal exams with QP	0 0	internal exams etc. (vii) Topics covered (viii) Extra classes engaged	(ii) Course plan (iv) Details of assignments, tutorials (v) Attendance of students (vi) Marks awarded for assignments,	b. Examine course file for all necessary details such as (i) Time slot of classes	a. Course file for all courses (theory,	3 Course File for all the courses
		AVAILABLE Ver Co			Notes				AVAILABLE 1	A. is
		Verified time lable. Contact class timing is from 9.00 AM to			9. Series test 1&2 QP and scheme are available Notes available	7. No extra classes needed8. 3 sample assignments and seriesbooklets are available	total 30 marks 5. Series test marks verified 6. All modules completed for S7. 4 modules completed for S3 and	 Course plan verified Assignments completed, 3 questions from first three modules, each carries 10 marks, 	Time slot verified Syllabus pasted	
SIEST INEHKITED	PRINCIPAL Nehru College of Engineering and Research Centre Pampady, Thiluviwamata Thrissur Dt Pin - 680 557, Kerula	 	COMPLETED						COMPLETED	



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13	1. punctuality of valuation Question papers & scheme of Evaluation	Assessment can be done based on the following	Internal test question paper and sample answer scripts	Sample tutorial book	faculty d. mark tutorial hour in the timetable.	b. Size of tutorial classes c. Number of students assigned to a	Conduct of Tutorial Classes		· · · · · · · · · · · · · · · · · · ·				faculty-wise time table
			AVAILABLE				AVAILABLE		でるとなる。				
	1. Three sets of QP and scheme are available for series test 1 & 2 Three sample answer sheets available	All the faculties valued and submitted the Answer papers on or before due date.			The second secon	Tutorial hours are marked in the timetable.	Tutorial logbook and sample notebooks are verified	Revision class timetable also verified.	5 hours per day with 50 minutes duration	Friday – 8.00 am to 12.30 pm,	Monday to Thursday - 8.30 am to 1.30 pm,	Online time table	4.00 PM
			COMPLETED		A		COMPLETED						

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			<i>y</i>
9 Equ	∞	7	
Equipment log registers, stock registers used in Laboratories	course file for all practical courses a. Verify course diary, course file, log book of equipment, work record of students (3numbers). b. Assessment can be done based on (i) number of students in a batch (ii) time given for doing the experiment (iii) number of experiments conducted as per syllabus (iv) Check syllabus of practical class pasted in front of the course diary (v) Check evaluation on the same date (vi) Mark distribution details	Syllabus coverage of practical course	3sample answer sheets minimum
REGISTER AVAILABLE	AVAILABLE		2
Stock and issue register are available and Verified	 Verified course file Syllabus pasted in Course File Mark distribution of experiments as verified S7 Labs are completed S1 Lab – 50% Completed S3, S5 lab – 80% completed S7 internal marks published 	 S7 Labs are completed S1 Lab – 50% Completed S3, S5 lab – 80% completed 	一人一人一人一人一人一人一人一人一人一人一人一人一人一人一人一人一人一人一人
COMPLETED	COMPLETED	COMPLETED	

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Engineering and Research

Engineering and Research Centre Fumpody, Thirushwamala Thrissur Dt. Pm. -6du 557, Nevala



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1	10000	1	-6-		3.10					G								10
	preparation of report	formulation of work plan,	hypothesis/design/methodology,	formulation of	formulation of objectives,	 c. includes literature survey, 	b. project team maximum of 5	patents, awards etc.	such as papers published,	 a. Course file, project review records, outcome of projects 	Can be accessed from	Quality & Progress of projects	progress review reports.	Project (Mini project/Design project/Final semester project)				Conduct of series test
			·									VERIFIED	and	AVAILABLE				CONDUCTED
					以 · · · · · · · · · · · · · · · · · · ·					Sample reports are available	3 reviews completed for CSE S7 students	Project	Design projects: Not Applicable	Seminar of S7 CSE completed	Conducted as per academic schedule	for S1, S3, S5 and verified	2. Series test I result analysis is available	 Series test I & II result analysis is available for S7and verified.
	5		T T											COMPLETED			大江 一日 一日 一日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日	COMPLETED

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c. includes literature survey, formulation of objectives, formulation of hypothesis/design/methodology, formulation of work plan, preparation of report	b. project team maximum of 5	a. Course file, project review records, outcome of projects such as papers published, patents, awards etc.	Quality & Progress of projects Can be accessed from	Project (Mini project/Design project/Final semester project) progress review reports.	Conduct of series test
			VERIFIED	AVAILABLE	CONDUCTED
		Sample reports are available	Project 3 reviews completed for CSE S7 students	Seminar of S7 CSE completed Design projects: Not Applicable	
15				COMPLETED	COMPLETED

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		W A		1.5 < 1.0 M				LE CO
rem NEHRU COLL	14					13	12	
a. Check maintaining register for recording details of	Details showing the conduct of	c. check green card updating	b. subject wise and overall pass percentage	 a. Update with revaluation results 	Performance of students in the previous semester	Result Analysis of previous semester	Mentoring details	d. sample fair report
CLASS REGISTER AVAILABLE	REMEDIAL				AVAILABLE AND VERIFIED		REGISTER AVAILABLE	
	Recorded class details in the register				 Subject wise pass percentage is available Green Cards verified and all batches 	 Updated last university result and verified with revaluation result. 	Verified the details. 8 Students assigned for one faculty	
1	COMPLETED					COMPLETED	COMPLETED	

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18	Tr. Fr	17		16		15	
18 Details of faculty evaluation and action taken on it.	 a. Verify COs and knowledge levels in internal and assignment question papers. b. Verify CO/PO attainment c. Levelstion for all the courses 	Assessment of Outcomes	Check maintaining course file for recording details of honour classes	Details showing the conduct of Honour classes	Minor classes Check maintaining course file for recording details of minor classes	Details showing the conduct of	b. Attendance of students
AVAILABLE		AVAILABLE		AVAILABLE		AVAILABLE	
First & Second set feedback in the current semester was collected and the grades calculated. Detailed Report is available	verified	CO/PO knowledge levels and attainment calculations and files are available and	and verified	Course files for S7 HONOURS are available	Course files and Course folders are available and verified	S3 and S5 MINOR	
	COMPLETED	COMPLETED		COMPLETED		COMPLETED	

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23	22	21	20	19		5	
Updated Green Cards	Register showing activity points	NPTEL/SWAYAM course materials recommended	Platform used for LMS/Course materials and lectures uploaded	Department library register showing volume and title of books, journals etc.	c. corrective actions taken for improving teaching effectiveness	b. % of students participated	Students Feedback a. two sets of feedback for each semester
UPDATED	REGISTERS AVAILABLE	AVAILABLE	VERIFIED	REGISTER AVAILABLE			
Green Cards verified and all batches green cards were updated.	S5, S7 Registers were updated. For S3 there is no entry till date	Available and verified.	Course Materials uploaded in Google class room and college website	Stock register and issue register available.			
COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED			

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		1 - 1 - 1	3				Tar.		
	29	28		27		26	25	24	2
2	Conference Details VENTU COLLEGE	Paper publication		Faculty and staff profile	Employer & Faculty	Feedback from Students Alumai	Details of value added courses	Categorisation of students with list	
	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE		Partially Available		AVAILABLE	AVAILABLE	
	List and details of conference file are available. Details of 5 conferences are available in odd semester of academic year 2021-22	List and details of paper publications file are available. 5 papers published in odd semester of academic year 2021-22	available for all faculties and staff.	Faculty and staff	Feedback from Students and Alumni are available and verified	available. 3 value added courses are available in odd semester of academic year 2021-22	Value added courses and details are	Students' categorisation list available and verified.	
k	COMPLETED	COMPLETED	COMPLETED	Faculty	Need to collect feedback from Employer and		c COMPLETED	id COMPLETED	

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34			33	32	31	30
Time table (with tutorials) - Staff arranged in hierarchical order	FOR LAST 3 YEARS	DEPARTMENT FILES IN LINE WITH NBA/NA	Funded FDPs	FDP Details	Training Program	Refresher Course
AVAILABLE		IN LINE WIT	NOT AVAILABLE	AVAILABLE AND VERIFIED	AVAILABLE	AVAILABLE
Time table for all classes are available and verified		H NBA/NAAC ACCREDITATION	Funded FDPs are not available	List and details of FDP file are available. Details of 3 FDPs are available in odd semester of academic year 2021-22	List and details of training program are available. No training programs were attended or organized in odd semester of academic year 2021-22	List and details of refresher courses are available. No refresher courses are attended or organized in odd semester of academic year 2021-22
COMPLETED		LION	COMPLETED	COMPLETED	COMPLETED	c COMPLETED

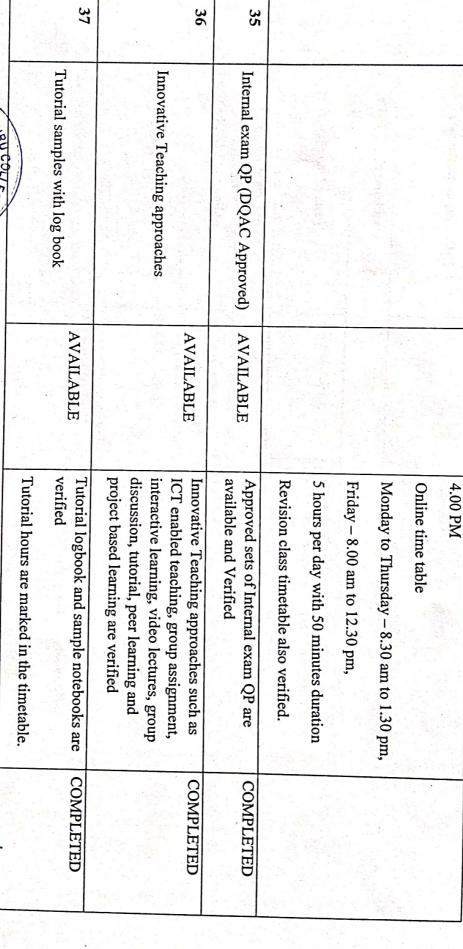
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Faripady, Thiruviwamala, Thrissur Dt.
Pin - 680 557, Keraia





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39	A2 - File (Academic Files)	rway as pci NDA)	SFR (Computation as nor NID A)	
	SFR = 12:37	Number of students = 433	AVAILABLE Number of faculties = 35	
			COMPLETED	



42

Curriculum Gap

(with Gaps

and

AVAILABLE

curriculum gap are available and verified

COMPLETED

Feedback files indicating reason for

attainment of all courses are available and

COMPLETED

Calculated documents of PO, PSO

course identified to address the POs,

41

PO, PSO attainment

AVAILABLE

40

CO-PO, CO-PSO mapping

AVAILABLE

CO-PO, CO-PSO mapping of all courses are | COMPLETED

available and verified.

A3 - Files (Academic Files)

Course files (Last 3 years)

AVAILABLE

verified

and sample test books are available and Course files with sample assignment books

COMPLETED

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		4				43
B - Files (Staff Files)	organized under each group)	Subject Group (List of groups and Faculty, allotment by HoD, Minutes of each group, Programs/Activities	attainment)	marks of evaluation c. PO, PSO	Project (a. List of projects with guides and students h Panels rubrice and	
	VERIFIED	AVAILABLE		VERIFIED	and	AVAILABLE
		List of subject group, faculties and activities are available	Sample reports are available	3 reviews completed for CSE S7 students	Project	Design projects: Not Applicable
		COMPLETED				COMPLETED



45

Add-on Courses (Update these files for period July-June)Research

AVAILABLE

available. 3 add-on courses are there in odd

List of Add-on courses and details are

COMPLETED

semester of academic year 2021-22

funding (a. Internal, b. External)

47

Collaborative works/research and

NOT AVAILABLE

Not available

COMPLETED

COMPLETED

NOT AVAILABLE

Not available

outcomes

46

Consultancy

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1.8		The state of the s			
53	52	51	50	49	48
FDP/Conference Organized	FDP Attended: (a. Outside own college b. Inside own college)	MoU	IPR (and related activities)	Publications: Conference, Books, Book chapters, Articles, etc.	Journal Publications: ISI, SCOPUS, Other Journals
AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED
List and details of FDP organization file are available.	List and details of FDP file are available. 5 faculties attended FDP in odd semester of academic year 2021-22	List and details of MoU file are available. 1 MoU signed in odd semester of academic year 2021-22	List and details of IPR file are available. 5 patents were registered in academic year 2021-22	List and details of conference file are available. Details of 5 conferences are available in odd semester of academic year 2021-22	List and details of journal publications file are available. 5 papers published in odd semester of academic year 2021-22
COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED
	FDP/Conference Organized AVAILABLE AND VERIFIED AVAILABLE AND available.	FDP Attended: (a. Outside own college) AVAILABLE AND college b. Inside own college) VERIFIED AVAILABLE AND faculties attended FDP in odd semester of academic year 2021-22 AVAILABLE AND VERIFIED List and details of FDP file are available. 5 faculties attended FDP in odd semester of academic year 2021-22 AVAILABLE AND VERIFIED List and details of FDP organization file are available. 5 faculties attended FDP in odd semester of academic year 2021-22	MoU AVAILABLE AND VERIFIED FDP Attended: (a. Outside own college) FDP/Conference Organized AVAILABLE AND VERIFIED List and details of MoU file are available. 1 MoU signed in odd semester of academic year 2021-22 List and details of FDP file are available. 5 faculties attended FDP in odd semester of academic year 2021-22 List and details of FDP organization file are available. 1 AVAILABLE AND VERIFIED List and details of MoU file are available. 1 MoU signed in odd semester of academic year 2021-22 List and details of FDP file are available. 5 faculties attended FDP in odd semester of academic year 2021-22 List and details of FDP organization file are available. 5 faculties attended FDP in odd semester of academic year 2021-22 AVAILABLE AND VERIFIED List and details of FDP organization file are available. 5 faculties attended FDP in odd semester of academic year 2021-22	IPR (and related activities) AVAILABLE AND VERIFIED MOU AVAILABLE AND VERIFIED AVAILABLE AND College b. Inside own college) FDP/Conference Organized AVAILABLE AND CORDINATE AND CORDINATION CONTINUE AND COLLEGE OF A AVAILABLE AND COLLEGE OF AVAILABLE AND COLLEGE OF AVAILABLE AND COLLEGE OF AVAILABLE AND AVAILABLE AND COLLEGE OF AVAILABLE AND AVAILABLE AND COLLEGE OF AVAILABLE AND AVAILABLE AND AVAILABLE AND COLLEGE OF AVAILABLE AND AVAILABLE	Publications: Conference, Books, Book chapters, Articles, etc. Book chapters, Articles, etc. IPR (and related activities) MoU MoU AVAILABLE AND MoU AVAILABLE AND MoU AVAILABLE AND College b. Inside own college) FDP/Conference Organized AVAILABLE AND CORRESS AVAILABLE AND VERIFIED List and details of IPR file are available. 5 patents were registered in academic year 2021-22 List and details of FDP file are available. 1 MoU signed in odd semester of academic year 2021-22 List and details of FDP file are available. 5 faculties attended FDP in odd semester of academic year 2021-22 List and details of FDP organization file are AVAILABLE AND VERIFIED List and details of FDP organization file are available. 1 MoU signed in odd semester of academic year 2021-22 List and details of FDP file are available. 5 faculties attended FDP in odd semester of academic year 2021-22 List and details of FDP organization file are available. 1 MoU signed in odd semester of academic year 2021-22 List and details of FDP file are available. 1 AVAILABLE AND VERIFIED List and details of FDP file are available. 5 faculties attended FDP in odd semester of academic year 2021-22



Nenru Cellege of Engineering and Research Centre Engineering and Research Centre Fampady, Thiruvilwamala, Thrissur Dt. Fampady, Thiruvilwamala, Thrissur Dt. Fin - 688 597, Kerala





62	61	60	59	58	57	96		8
Achievements	Career/Skill Development Programs	Higher Studies (Proof- for previous Acad Year)	Placement (Proof- for previous Acad Year)	Success Data of Passed Out Batch	KTU Results and Analysis (Semesterwise)	Roll List (for last 3 years)	C - Files (Student Files)	External Interaction
AVAILABLE AND	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED		NOT AVAILABLE
Department Achievements details are	Career/Skill Development Programs details are Available	Higher Studies details are Available	Placement details are Available	Available	KTU Results and Analysis are available	Roll List for last 3 years are available		Not available
COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED	•	COMPLETED



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63		VERIFIED	Available Entrepreneurship / Start ups details are
63	Entrepreneurship / Start ups	AVAILABLE AND VERIFIED	Entreprer Available
64	Professional Society Activity	AVAILABLE AND VERIFIED	Professional Available
	D - Files (Miscellaneous Files)		
65	Staff Extension Activities	AVAILABLE AND VERIFIED	Staff Extension Activities details are Available
99	Staff Duties/Responsibilities	AVAILABLE AND VERIFIED	Staff Duties/ Available
67	Guest Acquaintance (Semester-wise)	AVAILABLE AND VERIFIED	Guest Acquaintance details are Available
8	Department Budget VER	AVAILABLE AND VERIFIED	Department Budget files are Available

Auditor

DAVID &

Ancopkenson MV

Auditee W

Vipin KM

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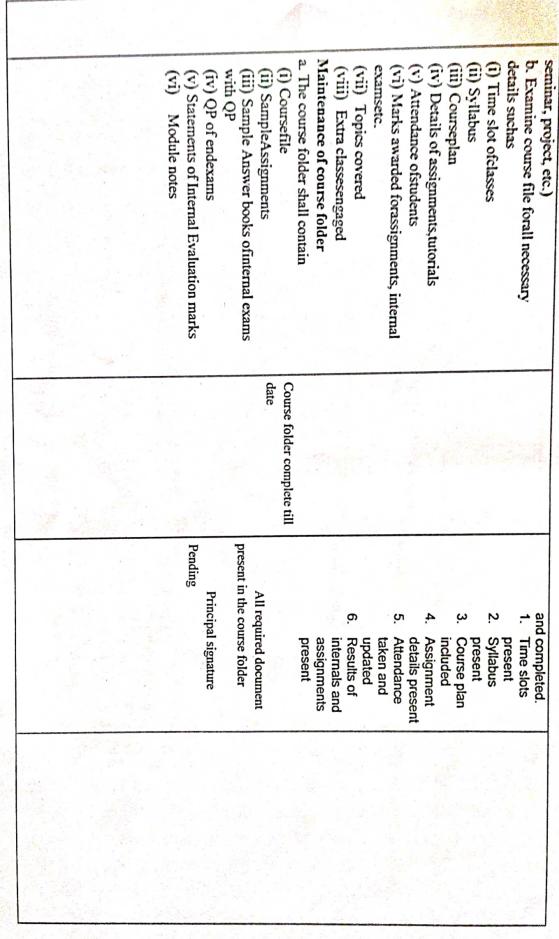
IQAC INTERNAL ACADEMIC AUDIT REPORT

				ACADE AUDITI EEE)
Course File for all thecourses a. Course file for all courses (theory, practical,	Minutesandactiontakenreportsofadvisor ymeetings a. Verify minutes and action taken report	Minutesandactiontakenreportsofcourse/c lasscommitteesofUG/PG a. Verify minutes and action taken report	Key Aspects	ACADEMIC YEAR 21-22 AUDITED DEPARTMENT MBA EEE) DATE 07/06/2022
All Complete till date	Not Conducted	Completed	Status of Documents	SEMESTER :AUDITED BY
a. Course file of all	Not Conducted	 a. Class committee and Course committee conducted as per academic calendar. b. Action taken report is also included. 	Auditor Remarks	ODD/EVENEVENEVEN
N _I I	Nii	N _I	Completion of pendin documents	ENEVENFirstAudut] Dr. DEEPA (MCA) and _Mr. ANOOP (Btech



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Internaltestquestionpaperandsampleans werscripts a. Assessment can be done basedon thefollowing 1. punctuality ofvaluation 2. Question papers & scheme of evaluation 3 sample answersheets minimum	a. Verify the tutorial logbook b. Size of tutorialclasses c. Number of students assigned to a faculty d. Hours of tutorial classes' persubject per week, mark tutorial hour in the timetable. Sample tutorialbook	Schedule of Time Table a. Verify class-wise and individual faculty- wise time table	
Completed	NA	Timetable available class wise	
a. Assessed 1. Valuation done on time 2. QP and Sample answer script present 3. Second Internals Going on	No tutorial classes	Available	
Ni		Individual Timetable pending	





	Syllabus coverage of practical course	AN		No Practical subjects	
	Laboratorymanual,recordsandcoursefile forallpracticalcourses	NA		No Practical Subjects	
	a. Verify course diary, course file, log book of equipment, work record of students (3numbers).		¥		
later)	b. Assessment can be done basedon(i) number of students in abatch(ii) time given for				
	doingtheexperiment				
2	conducted as persyllabus				
48	(iv) Check syllabus of practical class pasted in front of the coursediary	T			
2	(v) Check evaluation on the samedate(vi) Mark distribution details				
	Equipment log registers, stock registers	NA		No Labs	
	used in Dapot atorics				
Ť.Ŕ.	Conduct of series test	Completed	ted	AMERICAN SALMANDER SERVICE AND THE SERVICE SALMANDER SERVICES SALMANDER SALMAN	NIL
				First series exams of S2 Completed	
				Second Series of 2 nd Sem and First Series of 4 th Sem Going on.	





Result Analysis of previous semester Performance of students in the previous	Mentoring details	a. Course file, project review records, outcome of projects such as papers published, patents, awards etc. b. project team maximum of 5 c. includes literature survey, formulation of objectives, formulation of nypothesis/design/methodology, formulation of work plan, preparation of report d. sample fair report	lsemes
Updated	Available	selection and area of research selected	Ongoing Tonic selection Guide
 2019-20 Batch all results available and completed 	All faculty – wise mentor report available		Sem 4 Final Project Going on.
Nil	Nil		





						1	97-20 W			
2				Á						
Details showing the conduct of Honour classes	Check maintaining course file for recording details of minor classes	Details showing the conduct of Minor classes	b. Attendance of students	a. Check maintaining register for recording details of remedial classes	Details showing the conduct of remedial classes.		c. check green card updating	 b. subject wise and overall pass percentage 	a. Update with revaluation results	semester
NA		NA			None taken					
No Honour Classes		No Minor classes			No remedial classes taken		still pending.	 analysis. 2020-22 Batch Semester 3 and 2021- 	only published and present with result	 2020-22 Batch Semester 1 results





3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3					R on				
Departmentlibraryregistershowingv olumcandtitleofbooks,journalsetc.	c. corrective actions taken for improving teaching effectiveness	b. % of students participated	a. two sets of feedback for each semester	Students Feedback	Detailsoffacultyevaluationandactiontake nonit.	b. Verify CO/PO attainment calculation for all the courses	a. Verify COs and knowledge levels in internal and assignment question papers.	Assessment of Outcomes	recording details of honour classes
Completed					Pending			Pending	
All library files updated and present					Document pending		Document pending		
Completed					Pending			Pending	



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118					i ins		
Faculty and staff profile	Feedback from Students, Alumni, Employer & Faculty	Details of value added courses	Categorisation of students with list	Updated Green Cards	Register showing activitypoints	recommended	materials and lectures uploaded
updated	Pending	To be done in July	Pending	NA	NA	Yes (ongoing)	Updated
Updated	Pending	To be done in July	Pending	Not available	Not available	Ongoing	Updated
	Pending	NA	Pending				Updated





	Dana City	1000年代の1000年代		
	* aper publication	Complete	Updated	
	Conference Details	updated		
			International conference to be organized in August	
	Refresher Course	To be updated	To be organized	
	Training Program	To be completed		10 may 20
			To be organized in May 2022	
	FDP Details	Completed	Updated	
			Opualeu	
	Funded FDPs	NIL	NIL	
	DEPARTMENT FILES IN LINE WITH NBA/NAAC ACCREDITATION	LINE WITH NI	BA/NAAC ACCREI	DITATION
	A1 - Files (Academic Files)			
	FOR LAST 3 YEARS			
-				





	A3 - Files (Academic Files)	Course files (Last 3 years)	A2 - File (Academic Files)	SFR (Computation as per NBA)	Tutorial samples with log book	Innovative Teaching approaches	Internal exam QP (DQAC Approved)	Time table (with tutorials) - Staff arranged in hierarchical order	
	es)		(S)			oaches	C Approved)	s) - Staff arranged in	
Pending		Yes		Yes	NA	Completed	Completed	Completed	
		Available		Yes	None	Updated	Updated	Completed	
								Completed	



		į.						
	Consultancy	Research funding (a. Internal, b. External)	Add-on Courses (Update these files for period July-June)	B - Files (Staff Files)	Subject Group (List of groups and Faculty, allotment by HoD, Minutes of each group, Programs/Activities organized under each group)	Project (a. List of projects with guides and students b. Panels, rubrics and marks of evaluation c. PO, PSO attainment)	Curriculum Gap (with Gaps and course identified to address the POs, PSOs)	PO, PSO attainment
	updated		updated		Pending	On going	Pending	Pending
1.00								
	updated		Updated		Pending	On going	Pending	Pending
The state of the s								



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	Awards / Honors	FDP/Conference Organized	Inside own college)	MoU	IPR (and related activities)	Publications: Conference, Books, Book chapters, Articles, etc.	Journals	<i>S</i> .
	NIL	Conference to be organized in August	Updated	Updated	One Patent	Completed	Updated	Nil
7	None received	Updated as per present status	Updated	None done		One book Published (Exim Management) By Dr. Suriakala	Updated	None available



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					rot.			ing and the second seco
Achievements	Career/Skill Development Programs	Higher Studies (Proof- for previous Acad Year)	Placement (Proof- for previous Acad Year)	Success Data of Passed Out Batch	KTU Results and Analysis (Semester-wise)	Roll List (for last 3 years)	C - Files (Student Files)	External Interaction
Yes	Placement training Done	NIL	Yes	Yes	Yes	Yes		Updated
Available	Yes available	No one gone for higher studies	Available	Available	Available	Available		Updated (Transformation Talks and Webinars)
• 5								



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		* * * ·		the same			
Department Budget	Guest Acquaintance (Semester-wise)	Staff/Guest Appointment Details	Staff Duties/Responsibilities	Staff Extension Activities	D - Files (Miscellaneous Files)	Professional Society Activity	Entrepreneurship / Start ups
NA	updated	NA	Completed	NIL		Updated	NIL
NA	Updated	NA	Available	None		Available	No entrepreneurs

Auditor Dr. DEEPA.A

Auditee
Alex, NSM who

Head of the Department
Department of Management Studies
NCERCENDIAMANAINAIN-680588



NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE (NAAC 'A' Accredited)



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IOAC INTERNAL ACADEMIC AUDIT REPORT

ACADEMIC YEAR

2020-21

AUDITED DEPARTMENT: ME

AUDITED BY: Mr.Midhunraj P K & Ms. Sajitha A S

DATE: 07/06/2022

SEMESTER: EVEN(First Audit)

	\$,		-	-		ON TS
	· · · · · · · · · · · · · · · · · · ·	a. Verify minutes and action taken report	UG/PG	Minutes and action taken reports of course/class committees of		Key Aspects
			AVAILABLE	AVAII ABI E		Status of Documents
(ON 25/05/22) – Meeting II	(ON 03/05/22) – Meeting I	classes and 3 students from each class were attended for first and second meeting.	T.	has conducted for S2,S4 and S6 Btech and	Three meetings for S8 and Two meetings	Auditor Remarks
					COMPLETED	Completion of pending documents

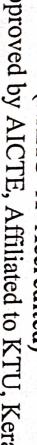


	report	VI - E	of advisory meetings	2 Minutes and action taken reports
S2 B TECH – (ON 25/05/22) – Meeting II	S2 B TECH - (ON 03/05/22) - Meeting I	AVAILABLE and action taken report.	following dates and verified the minutes	The meeting has conducted on the COMPLETED
				COMPLETED



	4		w
a. Verify class-wise and individual	Schedule of Time Table	a. Course file for all courses (theory, practical, seminar, project, etc.) b. Examine course file for all necessary details such as (i) Time slot of classes (ii) Syllabus (iii) Course plan (iv) Details of assignments, tutorials (v) Attendance of students (vi) Marks awarded for assignments, internal exams etc. (vii) Topics covered (viii) Extra classes engaged Maintenance of course folder a. The course folder shall contain (i) Course file (ii) Sample Assignments (iii) Sample Answer books of internal exams with QP (iv) QP of end exams (v) Statements of Internal Evaluation marks (vi) Module notes	Course File for all the courses
The state of the s	AVAILABLE	AVAILABLE	
Contact class timing is from 9.00 AM to	Verified time table.	1. Time slot verified 2. Syllabus pasted 3. Course plan verified 4. Assignments completed, 3 questions from first three modules, each carries 10 marks, total 30 marks 5. Series test marks verified 6. All modules completed for S8. 3 modules completed for S2, \$4 and \$6 7. No extra classes needed 8. Sample assignments and series booklets are available 9. Series test QP and scheme are available Notes available	
	COMPLETED	COMPLETED	







7					6				Ŋ			
Syllabus coverage of practical course	3 sample answer sheets minimum	 punctuality of valuation Question papers & scheme of evaluation 	a. Assessment can be done based on	sample answer scripts	Internal test question names and	d. mark tutorial hour in the timetable. Sample tutorial book	D. Size of tutorial classesc. Number of students assigned to a faculty	a. Verify the tutorial logbook	Conduct of Tutorial Classes			raculty-wase time table
				AVAILABLE					AVAILABLE			
 S2 Lab – 50% Completed S4, S6 lab – 40% completed 		Three sets of QP and scheme are available for series test Three sample answer sheets available	Answer papers on or before due date.	All the faculties valued and submitted the			Tutorial hours are marked in the timetable.	verified	Tutorial logbook and sample notebooks are	Revision class timetable also verified.	6 hours per day with 60 minutes duration	4.00 PM
COMPLETED					COMPI ETED				COMPLETED			



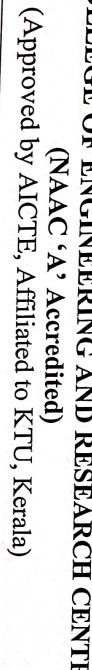




10	9			∞	
Conduct of series test	Equipment log registers, stock registers used in Laboratorics	 (iii) number of experiments conducted as per syllabus (iv) Check syllabus of practical class pasted in front of the course diary (v) Check evaluation on the same date (vi) Mark distribution details 	 a. Verify course diary, course file, log book of equipment, work record of students (3numbers). b. Assessment can be done based on (i) number of students in a batch (ii) time given for doing the experiment 	Laboratory manual, records and course file for all practical courses	
CONDUCTED	REGISTER AVAILABLE			AVAILABLE	5.00
 Series test I & II result analysis is available for S8 and verified. Series test I result analysis is available for S2, S4, S6 and verified Conducted as per academic schedule 	Stock and issue register are available and Verified		 Syllabus pasted in Course File Mark distribution of experiments as verified S2 Lab – 50% Completed S4, S6 lab – 40% completed S8 internal exams completed 	1. Verified course file	The state of the s
COMPLETED	COMPLETED			COMPLETED	



12										11
Mentoring details	d. sample fair report	hypothesis/design/methodology, formulation of work plan, preparation of report	 c. includes literature survey, formulation of objectives, formulation of 	b. project team maximum of 5	such as papers published, patents, awards etc.	a. Course file, project review records, outcome of projects	Can be accessed from	Quality & Progress of projects	project/Final semester project) progress review reports.	Project (Mini project/Design
REGISTER AVAILABLE			Elia -		1 /2 /4 1 /2 /4 2 /4 2 /4 2 /4 2 /4 2 /4 2 /4 2 /			VERIFIED	and	AVAILABLE
Verified the details. for one faculty	NO NOTE OF	No. of the state o	e, or the co					Sample reports are	All reviews comple	Project
Verified the details. 8 Students assigned for one faculty		At a part of the state of the s						are available	All reviews completed for CSE S8 students	
COMPLETED										COM



· ·			
15	1		13
Details showing the conduct of Minor classes Check maintaining course file	Details showing the conduct of remedial classes. a. Check maintaining register for recording details of remedial classes b. Attendance of students	b. subject wise and overall pass percentagec. check green card updating	Result Analysis of previous semester Performance of students in the previous semester a. Update with revaluation results
AVAILABLE	REMEDIAL CLASS REGISTER AVAILABLE		AVAILABLE AND VERIFIED
Course files and Course folders are available and verified	Recorded class details in the register		 Updated last university result and verified with revaluation result. Subject wise pass percentage is available Green Cards verified and all batches green cards were updated.
COMPLETED	COMPLETED		COMPLETED





				18			17		16	
c. corrective actions taken for	b. % of students participated	a. two sets of feedback for each semester	Students Feedback	Details of faculty evaluation and action taken on it.	assignment question papers. b. Verify CO/PO attainment calculation for all the courses	 Verify COs and knowledge levels in internal and 	Assessment of Outcomes	Check maintaining course file for recording details of honour classes	Details showing the conduct of Honour classes	for recording details of minor classes
				AVAILABLE			AVAILABLE	A PARABLE	Αναπ Αυτε	
			Detailed Report is available	First set feedback in the current semester was collected and the grades calculated		calculations and files are available and verified	CO/PO knowledge levels and attainment	and verified		
				COMPLETED			COMPLETED		COMPLETED	

24	23	22	21	20	19	
Categorisation of students with list	Updated Green Cards	Register showing activity points	NPTEL/SWAYAM course materials recommended	Platform used for LMS/Course materials and lectures uploaded	Department library register showing volume and title of books, journals etc.	improving teaching effectiveness
AVAILABLE	UPDATED	REGISTERS AVAILABLE	AVAILABLE	VERIFIED	REGISTER AVAILABLE	
Students' categorisation list available and verified.	Green Cards verified and all batches green cards were updated.	S4, S6, S8 Registers were updated. For S2 there is no entry till date	Available and verified.	Course Materials uploaded in Google class room and college website	Stock register and issue register available.	
COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED	



	31	30	29	28	Ye .	27	26	25
The second secon	Training Program	Refresher Course	Conference Details	Paper publication		raculty and staff profile	Feedback from Students, Alumni, Employer & Faculty	Details of value added courses
	AVAILABLE	AVAILABLE	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	TOTAL STATES	AVAILABLE	Partially Available	AVAILABLE
or organized in even semester of	List and details of training program are available. No training programs were attended or organized in	List and details of refresher courses are available. No refresher courses are attended or organized in even semester of academic year 2021-22	List and details of conference file are available.	List and details of paper publications file are available.		Faculty and staff profile documents are available for all faculties and staff.	Feedback from Students and Alumni are available and verified	Value added courses and details are available.
	COMPLETED	COMPLETED	COMPLETED	COMPLETED		COMPLETED	e Need to collect feedback from Employer and Faculty	e COMPLETED



35			34	34				33	32	
Internal exam QP (DQAC Approved)		arranged in hierarchical older	Time table (with tutorials) - Staff		FOR LAST 3 YEARS	A1 - Files (Academic Files)	DEPARTMENT FILES	Funded FDPs	FDP Details	
AVAILABLE				AVAILABLE			IN LINE WIT	NOT AVAILABLE	AVAILABLE AND VERIFIED	
available and Verified	Revision class timetable also verified.	6 hours per day with 60 minutes duration	Contact class timing is from 9.00 AM to 4.00 PM	Time table for all classes are available and verified	The second secon		DEPARTMENT FILES IN LINE WITH NBA/NAAC ACCREDITATION	Funded FDPs are not available	List and details of FDP file are available.	academic year 2021-22
COMPLETIED	COMPI ETED			COMPLETED			ATION	COMPLETED	COMPLETED	





40		39		38		37	7.2	36
CO-PO, CO-PSO mapping	A3 - Files (Academic Files)	Course files (Last 3 years)	A2 - File (Academic Files)	SFR (Computation as per NBA)		Tutorial samples with log book	Innovative Teaching approaches	
AVAILABLE	50	AVAILABLE		AVAILABLE		AVAILABLE		AVAILABLE
CO-PO, CO-PSO mapping of all courses are available and verified.		Course files with sample assignment books and sample test books are available and verified		SFR calculated and documents are available	Tutorial hours are marked in the timetable.	Tutorial logbook and sample notebooks are verified	interactive learning, video lectures, group discussion, tutorial, peer learning and project based learning are verified	Innovative Teaching approaches such as ICT enabled teaching, group assignment,
COMPLETED		COMPLETED		COMPLETED	111	COMPLETED		COMPLETED

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NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE





45			44				43		42		41
Add-on Courses (Update these files	B - Files (Staff Files)	organized under each group)	Subject Group (List of groups and Faculty, allotment by HoD, Minutes of	attainment)	marks of evaluation c. PO, PSO	Project (a. List of projects with guides		PSOs)	Curriculum Gap (with Gaps and course identified to address the POs,		PO, PSO attainment
AVAILABLE		VERIFIED	AVAILABLE		VERIFIED	and	AVAILABLE		AVAILABLE		AVAILABLE
List of Add-on courses and details are available. 3 add-on courses are there in			List of subject group, faculties and activities are available	Sample reports are available	All reviews completed for CSE S8 students	Project	Design projects: Not Applicable		Feedback files indicating reason for curriculum gap are available and verified	verified.	Calculated documents of PO, PSO attainment of all courses are available and
COMPLETED			COMPLETED				COMPLETED		COMPLETED		COMPLETED



		T	T			-	_	
52		V4	3	à	48	47	46	
FDP Attended: (a. Outside own college b. Inside own college)		IPR (and related activities)	Publications: Conference, Books, Book chapters, Articles, etc.	Other Journals	outcomes	Collaborative works/research and	Committee	Research funding (a. Internal, b. External)
 AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	NOT AVAILABLE	NOT AVAILABLE		
List and details of FDP file are available.	List and details of MoU file are available.	List and details of IPR file are available.	List and details of conference file are available.	List and details of journal publications file are available.	Not available	Not available		even semester of academic year 2021-22
COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED		

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60	59	58	57	56		55	54	53
Higher Studies (Proof- for previous Acad Year)	Placement (Proof- for previous Acad Year)	Success Data of Passed Out Batch	KTU Results and Analysis (Semesterwise)	Roll List (for last 3 years)	C - Files (Student Files)	External Interaction	Awards / Honors	FDP/Conference Organized
AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED		NOT AVAILABLE	NOT AVAILABLE	AVAILABLE AND VERIFIED
Higher Studies details are Available	Placement details are Available	Available	KTU Results and Analysis are available	Roll List for last 3 years are available		Not available	Not available	List and details of FDP organization file are available.
COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED		COMPLETED	COMPLETED	COMPLETED





-							
	66	65			64	63	62
	Staff Duties/Responsibilities	Staff Extension Activities	D - Files (Miscellaneous Files)	Professional Society Activity	Entrepreneurship / Start ups	Achievements	Career/Skill Development Programs
	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED		AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED
	Staff Duties/Responsibilities details are Available	Staff Extension Activities details are Available	Commence of the second	Professional Society Activity details are Available	Entrepreneurship / Start ups details are Available	Department Achievements details are Available	Career/Skill Development Programs details are Available
	COMPLETED	COMPLETED		COMPLETED	COMPLETED	COMPLETED	COMPLETED
							1

67

Guest Acquaintance (Semester-wise)

AVAILABLE AND

Guest Acquaintance details are Available | COMPLETED

VERIFIED



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AVAILABLE AND Department Budget files are Available

Department Budget

VERIFIED

COMPLETED

Auditor



HoD



NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE (NAAC 'A' Accredited)



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IQAC INTERNAL ACADEMIC AUDIT REPORT (2021-22)

ACADEMIC YEAR

AUDITED DEPARTMENT:

303

2020-22

AUDITED BY: Mr.VIPIN KM& Mr.RAHUL R

DATE: 02/02/2022

SEMESTER: ODD

			- a							
						-	4		NO	SL.
16.12.0 5.3.4.6°C			a. Verify minutes and action taken report		Minutes and action taken reports of course/class committees of UG/PG			Key Aspects		
			AVAILABLE						Documents	Status of
S7 B TECH - (ON 16/01/22) - Meeting III	S7 B TECH - (ON 12/12/21) - Meeting II	The third meeting was comprised of faculty members without students.	were attended for first and second meeting.	the classes and 3 students from each class	taken report. All faculties who handling	Btech and verified the minutes and action	Three meetings has conducted for S7 COMPLETED			Auditor Remarks
4							COMPLETED	documents	pending	Completion of

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Engineering and Research Centre Pampady Thirpyllwamaia, Thrissur Dt. Pin - 680 597, Kerala Nehru College of



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	7	ည	01	2 M		
	report	a. Verify minutes and action taken	of advisory meetings	Minutes and action taken reports		後子 · 丁二丁 · 一丁 · 丁二丁 · 丁二 · 丁 · 丁
		AVAILABLE			1. 188 J. State C. 488 J.	
S5 B TECH – (ON 14/01/22) – Meeting II	S3 B TECH - (ON 14/01/22) - Meeting II	and action taken report.	following dates and verified the minutes	The meeting has conducted on the COMPLETED		
				COMPLETED	**************************************	



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Neteral College of sineering and Research Centre sineering and Research Centre from page 27. Third Pin - 680 597, Kerala



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5	Contact class timing is from 9.00 AM to		a. Verify class-wise and individual	1
COMPLETED	Verified time table.	AVAILABLE	Schedule of Time Table	3
			(vi) Module notes	
			(v) Statements of Internal Evaluation marks	
			exams with QP (iv) QP of end exams	
	Notes available		(iii) Sample Assignments (iii) Sample Answer books of internal	
	9. Series test 1&2 QP and scheme are available		(i) Course file	
	series booklets are available		Maintenance of course folder a. The course folder shall contain	
1000	•		(viii) Extra classes engaged	
	and S5	7	(vii) Tonics county	
	6. All modules completed for S7.		(vi) Marks awarded for assignments,	
			(v) Attendance of students	
	total 30 marks		(iv) Details of assignments totalists	
	modules each carries 10 modules		(ii) Syllabus	
	4. Assignments completed, 3		(i) Time slot of classes	
	Course plan verified		necessary details such as	
COMPLETED	2. Syllabus pasted		b. Examine course file for all	
	Timosla	AVAILABLE	a. Course file for all courses (theory.	

Nerru College of PRINCIPAL

Engineering and Research Centre Pampady, Thiruvilwamata, Thrissur Dr Pin - 680 597, Kerala





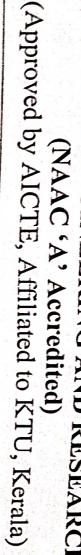


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.2.	144	77	San Co			6			ń			ΟΊ								
3	Question papers & scheme of	1.		a. Assessment can be done based on	sample answer scripts	Internal test question paper and	Sample tutorial book	d. mark tutorial hour in the timetable.	faculty	C Number of students assigned to	a. Verify the tutorial logbook b. Size of tutorial classes	Conduct of Tutorial Classes								faculty-wise time table
						AVAILABLE	2.0					AVAILABLE								
	available for series test 1 & 2	1. Three sets of QP and scheme are		Answer papers on or before due date.	All the faculties valued and submitted the					rational months are marked in the mile work.	Tutorial hours are marked in the timetable	Tutorial logbook and sample notebooks are verified	Kevision class timetable also ventiled.	Desiring along time tall along are it.	5 hours per day with 50 minutes duration	Friday – 8.00 am to 12.30 pm,	pm,	Monday to Thursday - 8.30 am to 1.30	Online time table	4.00 PM
	`					COMPLETED						COMPLETED								

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Engineering and Research Centre







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MEMRU COLLECTION OF THE PROPERTY OF THE PROPER	Equipment log registers, stock registers used in Laboratories	Laboratory manual, records and course file for all practical courses. a. Verify course diary, course file, log book of equipment, work record of students (3numbers). b. Assessment can be done based on (i) number of students in a batch (ii) time given for doing the experiment (iii) number of experiments conducted as per syllabus (iv) Check syllabus of practical class pasted in front of the course diary (v) Check evaluation on the same date (vi) Mark distribution details	Syllabus coverage of practical course	3sample answer sheets minimum
	REGISTER AVAILABLE	AVAILABLE		
	Stock and issue register are available and Verified	 Verified course file Syllabus pasted in Course File Mark distribution of experiments as verified S7 Labs are completed S1 Lab - 50% Completed S3, S5 lab - 80% completed S7 internal marks published 	 S7 Labs are completed S1 Lab – 60% Completed S3, S5 lab – 80% completed 	Three sample answer sheets available
PRINGIPAL	COMPLETED	COMPLETED	COMPLETED	

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11 Project Office	y				10 Conduct of series test
					rice toet
				CONDUCTED	
	Conducted as per academic schedule	for S1, S3, S5 and verified	2. Series test I result analysis is available	1. Series test I & II result analysis is	
			中華 游客有效整个人之间的表现	COMPLETED	

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preparation of report	hypothesis/design/methodology, formulation of work plan,	formulation of	formulation of objectives,	 c. includes literature survey, 	o. project ream maximum of 5	h project team maximum of 5	patents, awards etc.	such as papers published,	records, outcome of projects	a. Course file, project review	Can be accessed from	Quality & Progress of projects	progress review reports.	project/Final semester project)	D		
												VERIFIED	and	AVAILABLE			
									1	Sample reports are available	3 reviews completed for ECE S7 students	Project	Design projects: Not Applicable	Seminar of S7 ECE completed	aradellic schedule	2. Series test I result analysis is available for S1, S3, S5 and verified Conducted as per academic schedule.	available for S7and verified .
7														COMPLETED			
											1						

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Nehru College of Engineering and Research Centre Pampody, Thiruvilwamala, Thrissur Dt Pin - 680 597, Kerata PRINCIPAL



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16	14				*	13	12	
a. Check maintaining register for recording details of au Cottonedial classes	Details showing the conduct of remedial classes.	c. check green card updating	 b. subject wise and overall pass percentage 	 a. Update with revaluation results 	Performance of students in the previous semester	Result Analysis of previous semester	Mentoring details	d. sample fair report
AVAILABLE	REMEDIAL CLASS				AVAILABLE AND VERIFIED		REGISTER AVAILABLE	
	Recorded class details in the register			 Green Cards verified and all batches green cards were updated. 	verified with revaluation result. 2. Subject wise pass percentage is available	Updated last university result and	Verified the details. 8 Students assigned for one faculty	
•	COMPLETED				COMPEDIED	COMPI ETED	COMPLETED	Since
	register	Details showing the conduct of remedial classes. a. Check maintaining register avaluation of a conduct of class details in the register avaluation of avaluation of avaluation of avaluation of avaluation of conduct of class details in the register avaluation of class details of class details of class details avaluation of class details avaluati	Details showing the conduct of remedial classes. a. Check maintaining register for recording details of au CO tempedial classes REMEDIAL CLASS REGISTER AVAILABLE Recorded class details in the register AVAILABLE	b. subject wise and overall pass percentage c. check green card updating Details showing the conduct of remedial classes. a. Check maintaining register for recording details of AVAILABLE Recorded class details in the register AVAILABLE AVAILABLE Recorded class details in the register AVAILABLE	a. Update with revaluation results b. subject wise and overall pass percentage c. check green card updating Details showing the conduct of remedial classes. a. Check maintaining register a. Check maintaining register AVAILABLE Recorded class details in the register AVAILABLE AVAILABLE AVAILABLE	Performance of students in the previous semester a. Update with revaluation results b. subject wise and overall pass percentage is available c. check green card updating Details showing the conduct of remedial classes. a. Check maintaining register AVAILABLE verified with revaluation verified and all batches green cards were updated. REMEDIAL CLASS REGISTER AVAILABLE Recorded class details in the register AVAILABLE	Result Analysis of previous semester Performance of students in the Performance of Students	REGISTER AVAILABLE Result Analysis of previous semester Performance of students in the previous semester a. Update with revaluation results b. subject wise and overall pass percentage c. check green card updating Details showing the conduct of remedial classes. a. Check maintaining register a. Check maintaining register AVAILABLE AND VERIFIED AVAILABLE AND VERIFIED 3. Green Cards verified and all batches green cards were updated. CLASS REGISTER AVAILABLE REGISTER AVAILABLE RECORDIAL CLASS REGISTER AVAILABLE Recorded class details in the register AVAILABLE RECORDIAL Recorded class details in the register AVAILABLE REGISTER AVAILABLE RECORDIAL Recorded class details in the register

Engineering and Research Centre Pampady, Thiruvilwamala, Thrissur Dt Pin - 680 597, Kerala Nehru College of PRINCIPAL



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23 CARU	22	21	3 1	20) 	19				
Updated Green Cards	Register showing activity points	NPTEL/SWAYAM course materials recommended	materials and lectures uploaded	Platform used for LMS/Course	books, journals etc.	Department library register	c. corrective actions taken for improving teaching effectiveness	b. % of students participated	a. two sets of feedback for each	Students Feedback
UPDATED	REGISTERS AVAILABLE	AVAILABLE		VERIFIED	AVAILABLE	REGISTER				
Green Cards verified and all batches green	S5, S7 Registers were updated. For S3 there is no entry till date	Available and verified.	Course Materials uploaded in Google class room and college website			Stock register and issue register available.				
COMPLETED	COMPLETED	COMPLETED		COMPLETED		COMPLETED				

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Engineering and Research Centre r umpady. Thiruvilwamala, Thrissur Dt Pin - 680 597, Kerala



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29	28	27	26	25	24	
Conference Details	Paper publication	Faculty and staff profile	Feedback from Students, Alumni, Employer & Faculty	Details of value added courses	Categorisation of students with list	
AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE	Partially Available	AVAILABLE	AVAILABLE	
List and details of conference file are available. Details of 5 conferences are available in odd semester of academic year	List and details of paper publications file are available. 5 papers published in odd semester of academic year 2021-22	Faculty and staff profile documents are available for all faculties and staff.	Feedback from Students and Alumni are available and verified	Value added courses and details are available. 3 value added courses are available in odd semester of academic year 2021-22	Students' categorisation list available and verified.	cards were updated.
COMPLETED	COMPLETED	COMPLETED	Need to collect feedback from Employer and Faculty	COMPLETED	COMPLETED	

Nehru College of PRINCIPAL

Engineering and Research Centre Pampady Phirovilwamala Thrissur Dr Pin - 630 597, Kerala

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6.3	33	32	31	30	
DEPARTMENT FILES	Funded FDPs	FDP Details	Training Program	Refresher Course	
IN LINE WIT	NOT AVAILABLE	AVAILABLE AND VERIFIED	AVAILABLE	AVAILABLE	E 1993
DEPARTMENT FILES IN LINE WITH NBA/NAAC ACCREDITATION	Funded FDPs are not available	List and details of FDP file are available. Details of 3 FDPs are available in odd semester of academic year 2021-22	List and details of training program are available. No training programs were attended or organized in odd semester of academic year 2021-22	List and details of refresher courses are available. No refresher courses are attended or organized in odd semester of academic year 2021-22	2021-22
TION	COMPLETED	COMPLETED	COMPLETED	COMPLETED	

A1 - Files (Academic Files)

FOR LAST 3 YEARS



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Thoriat camples with log book	Innovative Teaching approaches		Internal exam QP (DQAC Approved)				arranged in hierarchical order	Time table (with tutorials) - Staff		
AVAILABLE	3	AVAILABLE	AVAILABLE							AVAILABLE
Tutorial logbook and sample notebooks are verified	interactive learning, video lectures, group discussion, tutorial, peer learning and project based learning are verified	Innovative Teaching approaches such as ICT enabled teaching, group assignment,	Approved sets of Internal exam QP are available and Verified	Revision class timetable also verified.	5 hours per day with 50 minutes duration	Friday – 8.00 am to 12.30 pm,	Monday to Thursday – 8.30 am to 1.30 pm,	Online time table	Contact class timing is from 9.00 AM to 4.00 PM	Time table for all classes are available and verified
COMPLETED		COMPLETED	COMPLETED							COMPLETED

Nehry College of Engineering and Research Centre Pampagy, Thiryvilwamaia, Thrissur Dt Pampagy, 1, 5d3 557, Kerala





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42	41	40	4-55 	39	· s.	38	
Curriculum Gap (with Gaps and course cidentified to address the POs, PSOS)	PO, PSO attainment	CO-PO, CO-PSO mapping	A3 - Files (Academic Files)	Course files (Last 3 years)	A2 - File (Academic Files)	SFR (Computation as per NBA)	
AVAILABLE	AVAILABLE	AVAILABLE		AVAILABLE		AVAILABLE	
Feedback files indicating reason for curriculum gap are available and verified	Calculated documents of PO, PSO attainment of all courses are available and verified.	CO-PO, CO-PSO mapping of all courses are available and verified.		Course files with sample assignment books and sample test books are available and verified		Number of faculties = 10 Number of students = 216 SFR = 21.6	Tutorial hours are marked in the timetable.
COMPLETED	COMPLETED	COMPLETED		COMPLETED		COMPLETED	

Nehru College of PRINCIPAL

Engineering and Research Centre Pin - 680 597, Kerala





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ня		45 A	В	0	e F S	<u>د</u>	п	2 7	43
Consultancy	Research funding (a. Internal, b. External)	Add-on Courses (Update these files for period July- June)	B - Files (Staff Files)	organized under each group)	Subject Group (List of groups and Faculty, allotment by HoD, Minutes of each group, Programs/Activities	attainment)	marks of evaluation c. PO, PSO	and students b. Panels mission and	
NOT AVAILABLE		AVAILABLE		VERIFIED	AVAILABLE		VERIFIED	and	AVAILABLE
Not available	semester of academic year 2021-22	List of Add-on courses and details are available. 3 add-on courses are there in odd			List of subject group, faculties and activities are available	Sample reports are available	3 reviews completed for CSE S7 students	Project	Design projects: Not Applicable
COMPLETED		COMPLETED			COMPLETED				COMPLETED



Engineering and Rosearch Centre Nehru College of PRINCIPAL

Panipady, Thiruvilwamala, Thrissui Dr Pin - 680 597, Kerala



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			1	1			_
53	52	51	50		ò	4	47
PDP/Conference Organized	FDP Attended: (a. Outside own college b. Inside own college)	MoU	IPR (and related activities)	Publications: Conference, Books, Book chapters, Articles, etc.	Journal Publications: ISI, SCOPUS, Other Journals	outcomes	Collaborativo
AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	NOT AVAILABLE	
List and details of FDP organization file are available.	List and details of FDP file are available. 5 faculties attended FDP in odd semester of academic year 2021-22	List and details of MoU file are available. 1 MoU signed in odd semester of academic year 2021-22	List and details of IPR file are available. 5 patents were registered in academic year 2021-22	List and details of conference file are available. Details of 5 conferences are available in odd semester of academic year 2021-22	List and details of journal publications file are available. 5 papers published in odd semester of academic year 2021-22	Not available	minion to ini o, included)
COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED	
	- 1 - 1						Since

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NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE (NAAC 'A' Accredited) (Approved by AICTE, Affiliated to KTU, Kerala)

Since 1968

C.V.	61	60	59	58	57	56		55	54
SING	100	Higher Studies (Proof- for previous Acad Year)	Placement (Proof- for previous Acad Year)	Success Data of Passed Out Batch	KTU Results and Analysis (Semesterwise)	Roll List (for last 3 years)	C - Files (Student Files)	External Interaction	Awards / Honors
	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED		NOT AVAILABLE	NOT AVAILABLE
	Career/Skill Development Programs details are Available	Higher Studies details are Available	Placement details are Available	Available	KTU Results and Analysis are available	Roll List for last 3 years are available		Not available	Not available
PRINCIPAL Nehru College of Engineering and Research Cent Pampady, Thiruvilwamata, Thrissur D Pin - 680 557, Kerala	COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED		COMPLETED	COMPLETED

Engineering and Research Centre Pampady, Thiruvilwampta, Thrissur Dr Pin - 680 597, Kerala Nehru College of



NEHRO COLLEGE OF ENGINEERING AND RESEARCH CENTRE (NAAC 'A' Accredited) (Approved by AICTE, Affiliated to KTU, Kerala)



			71		6	63	62
68	67	66	65		64	3	
Department Budget	Guest Acquaintance (Semester-wise)	Staff Duties/Responsibilities	Staff Extension Activities	D - Files (Miscellaneous Files)	Professional Society Activity	Entrepreneurship / Start ups	Achievements
AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED		AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED
Department Budget files are Available	Guest Acquaintance details are Available	Staff Duties/Responsibilities details are Available	Staff Extension Activities details are Available		Professional Society Activity details are Available	Entrepreneurship / Start ups details are Available	Department Achievements details are Available
COMPLETED	COMPLETED	COMPLETED	COMPLETED		COMPLETED	COMPLETED	COMPLETED

Engineering and Research Centre Pampazy, Thiruvilwama,a Thrissur Dt Pin - 600 597, Keraja Nehru College of PRINCIPAL

ENGINEEPING

IQAC INTERNAL ACADEMIC AUDIT REPORT

ACADEMIC YEAR: 2021-22_SEMESTER: ODD/EVEN: ODD(S1,S3,S5) (SECOND AUDIT)

AUDITED DEPARTMENT : MCA_AUDITED BY : Mr. Alex Kuruvila DATE : 24/03/2022

Key Aspects	Status of Documents	Auditor Remarks	Completion of pending document s
Minutes and action taken reports of course/class committees of UG/PG a. Verify minutes and action taken report	a. Completed	Class committee and course committee conducted as per academic calendar. Action taken report is also included	Nil
Minutes and action taken reports of advisory meetings a. Verify minutes and action taken report	a. Completed	Advisory meetings conducted and action taken report present	Nil
Course File for all the courses Course file for all courses (theory, practical, seminar, project, etc.) Examine course file for all necessary details such as Time slot of classes Syllabus Course plan Details of assignments, tutorials Attendance of students Marks awarded for assignments, internal exams	All Complete till date	Course file of all subjects present and completed 1. Time slots present 2. Syllabus present 3. Course plan included 4. Assignment details present 5. Attendance taken and updated	Nil

Na	etc. Topics covered Extra classes engaged Maintenance of course folder The course folder shall contain Course file Sample Assignments Sample Answer books of internal exams with QP QP of end exams Statements of Internal Evaluation marks Module notes	Course folder complete till date	6. Results of internals and assignments present All required document present in the course folder	Nil
	Schedule of Time Table a. Verify class-wise and individual faculty-wise time table	Timetable available class wise		Individual Timetable pending
	Conduct of Tutorial Classes Verify the tutorial logbook Size of tutorial classes Number of students assigned to a faculty Hours of tutorial classes' per subject per week, mark tutorial hour in the timetable.	Completed	Completed	Hours of tutorial classes' per subject per week, mark

	Sample tutorial book			tutorial hour in the timetable.
2.			To give	timetable.
	Internal test question paper and sample answer scripts • Assessment can be done based on the following • punctuality of valuation • Question papers & scheme of evaluation 3sample answer sheets minimum	Completed	Assessed Valuation done on time QP and Sample answer script present Sample answer scripts present	Nil
	Syllabus coverage of practical course	Completed	Completed	Nil
	Laboratory manual,	Completed	Completed	Nil
	records and course file for		AND	
	all practical courses		AN - III N II KAMA	1
	 Verify course diary, course file, log book of equipment, work record of students (3numbers). Assessment can be done based on number of students in a batch 		は * **** (本語) (和語) (本語) (本語) (本語) (和語) (
	 time given for doing the experiment number of experiments conducted as per syllabus 		elietar periodica.	
	 Check syllabus of practical class pasted in front of the course diary Check evaluation on the same date Mark distribution details 			
	Equipment log registers, stock registers used in Laboratories	Completed	Completed	Nil
	Conduct of series test	Completed	First & second series exams	NIL

		completed	
		Completed	Nil
Project (Mini project/Design project/Final semester project) progress review reports.	Mini Project reports completed		
Quality & Progress of projects Can be accessed from			
a. Course file, project review records, outcome of projects such as papers published, patents, awards etc.			
b. project team maximum of 5		en objective	
c. includes literature survey, formulation of objectives, formulation of hypothesis/design/meth odology, formulation of work plan, preparation	iv.		
of report d. sample fair report			
Mentoring details	Available	All faculty wise mentor report available	Nil
Result Analysis of previous semester Performance of students in the previous semester	Updated	2020-22 batch only semester 1 results published and present with result	Nil
 a. Update with revaluation results b. subject wise and overall pass percentage 		analysis	
c. check green card		Contract to the second	

	updating			
	* * * * * * * * * * * * * * * * * * * *	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
1 1	Details showing the conduct of remedial classes.	Available	Available in the course files	Nil
	a. Check maintaining register for recording details of remedial classes			
	b. Attendance of students		Burn of the Company of the	ia
	Details showing the conduct of Minor classes	NA	No Minor Classes	er ja var var in seneral sener
	Check maintaining course file for recording details of minor classes		Attage week to all	
	Details showing the conduct of Honour classes	NA	No Honour Classes	V _{2,1}
	Check maintaining course file for recording details of honour classes		record to the street	
, d*	Assessment of Outcomes	Pending	Updates on the documents	Pending
	 Verify COs and knowledge levels in internal and assignment question papers. Verify CO/PO 	Marina marin		
	attainment calculation for all the courses	see System 1	TRANSPORT OF STREET	
	Details of faculty evaluation and action taken on it. Students Feedback	College level completed	Completed	corrective actions taken
	a. two sets of feedback for each semester	C. Not complete	attention of the last	for improving teaching effectiveness-
	b. % of students participated			Pending

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	Project (a. List of projects with guides and students b. Panels, rubrics and marks of evaluation c. PO, PSO attainment)	n. Completed b. Completed c Pending	Completed	C.PO, PSO attainment
- A. A.	Subject Group (List of groups and Faculty, allotment by HoD, Minutes of each group, Programs/Activities organized under each group)	NA	Not Available	
	B – Files (Staff Files)		23-33-5060	
176. 40	Add-on Courses (Update these files for period July-	Yet to complete	UPdated	Add on course
1 - 203e	June) Research funding (a. Internal, b. External)	to see a	Section of Feed	1
	Consultancy	updated	Updated	
E	Collaborative works/research and outcomes	Nil	Nil	in the second
7	Journal Publications: ISI, SCOPUS, Other Journals	Updated	Updated	± =
	Publications: Conference, Books, Book chapters, Articles, etc.	Completed	Completed	4 711
	IPR (and related activities)	NIL	NIL	
	MoU	Updated	Updated	
	FDP Attended: (a. Outside own college b. Inside own college)	Updated	Updated	
	FDP/Conference Organized	Completed	Documents Available	
	Awards / Honors	Updated	None Received	
	External Interaction	Updated	Updated	

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- Files (Student Files)			
coll List (for last 3 years)	es .	Available	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
KTU Results and Analysis (Semester-wise)	l'es	Available	Nil
Success Data of Passed Out Batch	Yes	Available	Nil
Placement (Proof- for previous Acad Year)	Yes	Available	Nil
· C. II. (D. C. form	NIL	Available	
Career/Skill Development Programs	Yes	Available	Nil
Achievements	Yes	Available	Need to complete
Entrepreneurship / Start ups	NIL	No entrepreneurs	21
Professional Society Activity	Updated	Available	Nil
D – Files (Miscellaneous Files	s)		•
Staff Extension Activities	NIL	None	7
Staff Duties/Responsibilities	Completed	Available	
Staff/Guest Appointment Details	NA	Not Available	
Guest Acquaintance (Semester-wise)	Nil	NA	Nil
Department Budget	NA	Not Available	Nil

Auditor

Auditee Reaps,

Alex, MBA

Dr. DEEPA.A

HOD Hot. S. Maran

NCRRC





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IQAC INTERNAL ACADEMIC AUDIT REPORT (2021-22)

ACADEMIC YEAR

2020-21

AUDITED DEPARTMENT: EEE

AUDITED BY: Mr. VIPIN KM & Mr. MIDHUN RAS 7 K

DATE: <u>02/02/2022</u>

SEMESTER: ODD

Documents Documents Documents Documents Documents Documents Documents Three meetings has conducted for S7 CC Btech and verified the minutes and action taken report. All faculties who handling the classes and 3 students from each class were attended for first and second meeting. The third meeting was comprised of faculty members without students. S7 B TECH - (ON 11/12/21) – Meeting II S7 B TECH - (ON 14/01/22) – Meeting III					
Documents Three meetings has conducted for S7 B TECH - (ON 14/01/22) – Meeting II	,	III		Sent O COLLEGE	
Documents Three meetings has conducted for S7 Btech and verified the minutes and action taken report. All faculties who handling the classes and 3 students from each class were attended for first and second meeting. The third meeting was comprised of faculty members without students. S7 B TECH - (ON 11/12/21) – Meeting II			2147		
Documents Three meetings has conducted for S7 CC Btech and verified the minutes and action taken report. All faculties who handling the classes and 3 students from each class were attended for first and second meeting. The third meeting was comprised of faculty members without students.					
Documents Three meetings has conducted for S7 CC Btech and verified the minutes and action taken report. All faculties who handling the classes and 3 students from each class were attended for first and second meeting.		B .		report	
Documents Three meetings has conducted for S7 CC Btech and verified the minutes and action taken report. All faculties who handling the classes and 3 students from each class		were attended for first and second meeting.		a. Verify minutes and action taken	
Documents Three meetings has conducted for S7 CC Btech and verified the minutes and action		taken report. All faculties who handling the classes and 3 students from each class	AVAILABLE	UG/PG	
Documents Three meetings has conducted for S7 CC		Btech and verified the minutes and action		of course/class committees of	,
Documents Auditor Kemarks	COMPLETED	Three meetings has conducted for S7		Minutes and action taken reports	-
Documents Auditor Kemarks	documents				•
Status of Auditor Kemarks	pending		Documents .		NO
	Completion of	Auditor Remarks	Status of	Key Aspects	SI.

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S5 B TECH - (ON 16/01/22) - Meeting II		· · · · · · · · · · · · · · · · · · ·	
S3 B TECH - (ON 16/01/22) - Meeting II		 a. Verify minutes and action taken report 	3
following dates and verified the minutes and action taken report.	AVAILABLE	of advisory meetings	
The meeting has conducted on the COMPLETED		Minutes and action taken reports	2
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	Verify Class wise and individual	Selredule of Time Table	i) Module notes	(v) Statements of Internal Evaluation marks	(iv) QP of end exams	(iii) Sample Answer books of internal	(ii) Sample Assignments	(i) Course file	 The course folder shall contain 	Maintenance of course folder	(viii) Extra classes engaged	(vii) Topics covered	internal exams etc.	(vi) Marks awarded for assignments,	(v) Attendance of students	(iv) Details of assignments, tutorials	(iii) Course plan	(ii) Syllabus	(i) Time slot of classes	necessary details such as	b. Examine course file for all	practical, seminar, project, etc.)	a. Course file for all courses (theory,	Course File for all the courses
		AVAILABLE		- 10 10 M								· 不不可以 ·											AVAILABLE	
	Contact class timing is from 9.00 AM to	Verified time table.	the place of the state of the s				Notes available		9. Series test 1&2 OP and scheme		8. 3 sample assignments and	7. No extra classes needed	and S5	4 modules completed for S3	All modules completed for S7.	Series test marks verified	total 30 marks	modules, each carries 10 marks,	questions from first three	4. Assignments completed, 3	3. Course plan verified	Syllabus pasted	1. Time slot verified	
	R	COMPLETED																					COMPLETED	

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١,	The foreying the foreign of valuation anners & scheme of	a. Assessment can be done based on	sample answer scripts	Internal test question paper and	Sample tutorial book	d. mark tutorial hour in the timetable.	c. Number of students assigned to a	b. Size of tutorial classes	W. G. H.	Conduct of Tutorial Classes		のの一人の動物の影響のないないでは、一般の表現のない。 一般の情報を表現した 一般の情報の かっかい はいません			の はるのでは、これでは、人名できました。		faculty-wise time table
		を かいない かいこう		AVAILABLE						AVAILABLE							
	1. Three sets of QP and scheme are available for series test 1 & 2	Answer papers on or before due date.	All the faculties valued and submitted the					Tutorial hours are marked in the timetable.	verified	Tutorial logbook and sample notebooks are	Revision class timetable also verified.	5 hours per day with 50 minutes duration	Friday – 8.00 am to 12.30 pm,	pm,	Monday to Thursday - 8.30 am to 1.30	Online time table	4.00 PM
7	<u>C</u>			COMPLETED						COMPLETED							

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Park No. 161 (2014)





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9		8	7	
Equipment log registers, stock registers used in Laboratories	a. Verify course diary, course file, log book of equipment, work record of students (3numbers). b. Assessment can be done based on (i) number of students in a batch (ii) time given for doing the experiment (iii) number of experiments conducted as per syllabus (iv) Check syllabus of practical class pasted in front of the course diary (v) Check evaluation on the same date (vi) Mark distribution details	Laboratory manual, records and course file for all practical courses	Syllabus coverage of practical course	evaluation 3 sample answer sheets minimum
REGISTER AVAILABLE		AVAILABLE		
Stock and issue register are available and Verified	 Syllabus pasted in Course File Mark distribution of experiments as verified S7 Labs are completed S1 Lab – 50% Completed S3, S5 lab – 80% completed S7 internal marks published 	1. Verified course file	 S7 Labs are completed S1 Lab – 50% Completed S3, S5 lab – 80% completed 	Three sample answer sheets available
COMPLETED		COMPLETED	COMPLETED	



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		=	10
c. includes literature survey, formulation of objectives, formulation of hypothesis/design/methodology, formulation of work plan, preparation of report	a. Course file, project review records, outcome of projects such as papers published, patents, awards etc.b. project team maximum of 5	Project (Mini project/Design project/Final semester project) progress review reports. Quality & Progress of projects Can be accessed from	Conduct of series test
		AVAILABLE and VERIFIED	CONDUCTED
	Sample reports are available	Seminar of S7 EEE completed Design projects: Not Applicable Project 3 reviews completed for EEE S7 students	 Series test I & II result analysis is available for S7and verified. Series test I result analysis is available for S1, S3, S5 and verified Conducted as per academic schedule
		COMPLETED	COMPLETED



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14				13	12	
Details showing the conduct of remedial classes. a. Check maintaining register for recording details of remedial classes.	c. check green card updating	results b. subject wise and overall pass percentage	Performance of students in the previous semester a. Update with revaluation	Result Analysis of previous semester	Mentoring details	d. sample fair report
REMEDIAL CLASS REGISTER AVAILABLE			AVAILABLE AND VERIFIED		REGISTER AVAILABLE	
Recorded class details in the register	1、45 60 30 60 8 60 8 60 8 60 8 60 8 60 8 60		 Subject wise pass percentage is available Green Cards verified and all batches green cards were updated. 	 Updated last university result and verified with revaluation result. 	Verified the details. 8 Students assigned for one faculty	
COMPLETED				COMPLETED	COMPLETED	

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	b. Attendance of students			
15	Details showing the conduct of Minor classes	AVAILABLE	S3 and S5 MINOR	COMPLETED
	Check maintaining course file for recording details of minor classes		available and verified	
16	Details showing the conduct of Honour classes	AN	The state of the s	76.
	Check maintaining course file for recording details of honour classes			
17	Assessment of Outcomes	AVAILABLE	CO/PO knowledge levels and attainment calculations and files are available and	COMPLETED
	 a. Verify COs and knowledge levels in internal and assignment question papers. 		verified	*
	b. Verify CO/PO attainment calculation for all the courses			
18	Details of faculty evaluation and action taken on it.	AVAILABLE	First & Second set feedback in the current semester was collected and the grades	COMPLETED
	3 2 60	20 20 20 20	calculated. Detailed Report is available	R

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STAND OF THE STAND	Updated Green Carefa		Register showing activity points	recommended	NPTEL/SWAYAM course materials		Platform used for LMS/Course materials and lectures uploaded	books, Journals etc.	showing volume and title of	Department library register	improving teaching effectiveness	c. corrective actions taken for	b. % of students participated	semester	a. two sets of feedback for each	Students Feedback
	UPDATED	1	REGISTERS AVAILABLE		AVAILABLE		VERIFIED		AVAILABLE	REGISTER						
	Green Cards verified and all batches green		S5, S7 Registers were updated. For S3 there is no entry till date		Available and verified.	room and college website	Course Metarials unleaded in Conclusion			Stock register and issue register available.				· · · · · · · · · · · · · · · · · · ·		A CONTRACTOR OF THE CONTRACTOR
14	COMPLETED A		COMPLETED		COMPLETED		COMPLETED			COMPLETED						

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	29	28	27	26	25	24	
H.C.	Conference Details	Paper publication	Faculty and staff profile	Feedback from Students, Alumni, Employer & Faculty	Details of value added courses	Categorisation of students with list	
	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE	Partially Available	AVAILABLE	AVAILABLE	
	List and details of conference file are available. Details of 5 conferences are available in odd semester of academic year	List and details of paper publications file are available. 5 papers published in odd semester of academic year 2021-22	Faculty and staff profile documents are available for all faculties and staff.	Feedback from Students and Alumni are available and verified	Value added courses and details are available. 3 value added courses are available in odd semester of academic year 2021-22	Students' categorisation list available and verified.	cards were updated.
	COMPLETED	COMPLETED	COMPLETED	Need to collect feedback from Employer and Faculty	COMPLETED	COMPLETED	

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	33	32	31	30	10
DEPARTMENT FILES	Funded FDPs	FDP Details	Training Program	Refresher Course	
IN LINE WIT	NOT AVAILABLE	AVAILABLE AND VERIFIED	AVAILABLE	AVAILABLE	7
DEPARTMENT FILES IN LINE WITH NBA/NAAC ACCREDITATION	Funded FDPs are not available	List and details of FDP file are available. Details of 3 FDPs are available in odd semester of academic year 2021-22	List and details of training program are available. No training programs were attended or organized in odd semester of academic year 2021-22	List and details of refresher courses are available. No refresher courses are attended or organized in odd semester of academic year 2021-22	2021-22
ATION	COMPLETED	COMPLETED	COMPLETED	COMPLETED	

A1 - Files (Academic Files)

FOR LAST 3 YEARS



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————										
37		36	35							34
Tutorial samples con log book	The College	Innovative Teaching approaches	Internal exam QP (DQAC Approved)				arranged in hierarchical order	Time table (with tutorials) - Staff		
AVAILABLE		AVAILABLE	AVAILABLE							AVAILABLE
Tutorial logbook and sample notebooks are verified	discussion, tutorial, peer learning and project based learning are verified	ICT enabled teaching, group assignment, interactive learning, video lectures, group	Approved sets of Internal exam QP are available and Verified Innovative Teaching approaches such as	Revision class timetable also verified.	5 hours per day with 50 minutes duration	Friday – 8.00 am to 12.30 pm,	Monday to Thursday – 8.30 am to 1.30 pm,	Online time table	Contact class timing is from 9.00 AM to 4.00 PM	Time table for all classes are available and verified
COMPLETED			COMPLETED							COMPLETED

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	42	41	40		39			38	
PSOs) & A	Curriculum Gap (with Gaps and course identification address the POs,	PO, PSO attainment	CO-PO, CO-PSO mapping	A3 - Files (Academic Files)	Course files (Last 3 years)	A2 - File (Academic Files)	SFK (Computation as per NBA)		
	AVAILABLE	AVAILABLE	AVAILABLE		AVAILABLE			AVAILABLE	
	Feedback files indicating reason for curriculum gap are available and verified	Calculated documents of PO, PSO attainment of all courses are available and verified.	CO-PO, CO-PSO mapping of all courses are available and verified.		Course files with sample assignment books and sample test books are available and verified		Number of students = 216 SFR = 21.6	Number of faculties = 10	Tutorial hours are marked in the timetable.
12	COMPLETED	COMPLETED	COMPLETED		COMPLETED			COMPLETED	

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45 Add-on Courses (Update these files for period July- June) Research funding (a. Internal, b. External) 46 Consultancy NOT AVAILABLE
B - Files (Staff Files) Add-on Courses (Update these files for period July- June) Research funding (a. Internal, b. External)
B - Files (Staff Files) Add-on Courses (Update these files for period July-June)
B - Files (Staff Files)
each group, Programs/Activities organized under each group) VERIFIED
Subject Group (List of groups and Faculty, allotment by HoD, Minutes of
attainment)
marks of evaluation c. PO, PSO VERIFIED
Project (a. List of projects with guides and
43 AVAILABLE

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	53	52	51	50	49	48	47
10	FDP/Conference Organized	FDP Attended: (a. Outside own college b. Inside own college)	MoU	IPR (and related activities)	Publications: Conference, Books, Book chapters, Articles, etc.	Journal Publications: ISI, SCOPUS, Other Journals	Collaborative works/research and outcomes
	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	NOT AVAILABLE
	List and details of FDP organization file are available.	List and details of FDP file are available. 5 faculties attended FDP in odd semester of academic year 2021-22	List and details of MoU file are available. 1 MoU signed in odd semester of academic year 2021-22	List and details of IPR file are available. 5 patents were registered in academic year 2021-22	List and details of conference file are available. Details of 5 conferences are available in odd semester of academic year 2021-22	List and details of journal publications file are available. 5 papers published in odd semester of academic year 2021-22	Not available
1	COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED	COMPLETED

Nehru College of PRINCIPAL

Engineering and Research Centre Pampady, Thiruvilwamala, Thrissur Dt Pin - 680 597, Kerala



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55 56	Awards / Honors External Interaction C - Files (Student Files) Roll List (for last 3 years)	NOT AVAILABLE NOT AVAILABLE AVAILABLE AND VERIFIED	Not available Not available Roll List for 1	Not available Not available Roll List for last 3 years are available
57	KTU Results and Analysis (Semesterwise)	AVAILABLE AND VERIFIED	KTU Results	KTU Results and Analysis are available
58	Success Data of Passed Out Batch	ÁVAILABLE AND VERIFIED	Available	
59	Placement (Proof- for previous Acad Year)	AVAILABLE AND VERIFIED	Placement de	Placement details are Available
60	Higher Studies (Proof- for previous Acad Year)	AVAILABLE AND VERIFIED	Higher Stud	Higher Studies details are Available
61	Career/Skill Development Programs	AVAILABLE AND VERIFIED	Career/Skill Develo	Career/Skill Development Programs letails are Available
1	13			

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NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE (NAAC 'A' Accredited)



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68	67	66	65		64	63	62
 Department Budget	Guest Acquaintance (Semester-wise)	Staff Duties/Responsibilities	Staff Extension Activities	D - Files (Miscellaneous Files)	Professional Society Activity	Entrepreneurship / Start ups	Achievements
AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED		AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED	AVAILABLE AND VERIFIED
Department Budget files are Available	Guest Acquaintance details are Available	Staff Duties/Responsibilities details are Available	Staff Extension Activities details are Available		Professional Society Activity details are Available	Entrepreneurship / Start ups details are Available	Department Achievements details are Available
COMPLETED	COMPLETED	COMPLETED	COMPLETED		COMPLETED	COMPLETED	COMPLETED

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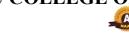
Auditor

HoD

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MINUTES OF THE MANAGEMENT REVIEW MEETING HELD ON 04TH **NOVEMBER 2021 AT 11:30AM**

A Management Review meeting was called on 04TH NOVEMBER 2021, Thursday at 11:30 AM at Board Room in Aryabhatta Block of NCERC to review the performance of quality systems in NCERC and to discuss on suggestions made by the external auditor on improvement of quality systems after ISO surveillance audit.

Chairman & Managing Trustee, Adv.Dr.P.Krishnadas chaired the meeting and the following members were present:

Prof.(Dr.) Ambika Devi Amma T, Principal NCERC

Dr. Sheela Srivastava, Director MBA

Dr. Sudheer S Marar, HoD, MCA Dept.

Smt. Bindu Krishnakumar, Campus Manager

Shri. Ambikadas, Academic Superintendent, NCERC

Mr. Anoop Kumar M.V, AMR, NCERC

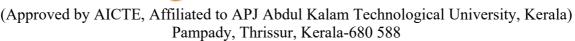
An Internal Quality Audit was conducted from 18/10/2021 to 22/10/2021 in order to review system progress as per ISO 9001:2015 standards. A re-audit was conducted on 25/10/2021. In the IQA conducted the following observations were made by the internal auditors:

- 1) Course files and course folder preparation were found to be up to date.
- 2) Result analysis is done properly by each department.
- 3) Stakeholder feedback is being maintained by the college.
- 4) File maintenance is being upgraded.

Chairman expressed satisfaction in the ISO quality process of NCERC and requested the HoD's and AMR to monitor the quality systems closely and take proper corrective and preventive actions without delay. Deficiencies, if any, in the system shall be reported immediately so that the auditing process will be smooth. Auditor teams shall be selected from each department and they should only audit other departments. The department heads should ensure that all faculty members of their department are aware of ISO quality policy. The next MRM shall be conducted after the first IQA(Internal Quality Audit).

All members present agreed to comply. The meeting came to an end at 1 PM.







MINUTES OF THE MANAGEMENT REVIEW MEETING HELD ON 04^{TH} FEBRUARY 2021 AT 10:00 AM

A Management Review meeting was called on 04th February,2021, Monday at 10:00 AM at Board Room in Aryabhatta Block of NCERC to review the performance of quality systems in NCERC and to discuss on suggestions made by the external auditor on improvement of quality systems after ISO surveillance audit. Chairman & Managing Trustee , Adv.Dr.P.Krishnadas chaired the meeting and the following members were present:

Prof.(Dr.) Ambika Devi Amma T, Principal NCERC

Dr. Sheela Srivastava, Director MBA

Dr. Sudheer S Marar, HoD, MCA Dept.

Smt. Bindu Krishnakumar, Campus Manager

Shri. Ambikadas, Academic Superintendent, NCERC

Mr. Anoop Kumar M.V, AMR, NCERC

It was informed by AMR during the meeting that the second ISO surveillance audit was completed on 13/01/2021. During the surveillance audit the external auditor made the following observations:

- 1) We need to be aware of ISO 9001:2015 clauses and an awareness need to be given to faculty members.
- 2) We need to prepare a **new audit plan** based on ISO 9001:2015.
- 3) We need to conduct 2 Internal Quality Audits(IQA) for April-2020 and October-2020.
- 4) **A MRM(Management Review Meeting)** file need to be prepared within 2 weeks of conduct of IQA. So two MRM's need to be prepared.
- 5) **Department heads need to be aware of Quality Policy, Quality Objectives** and take responsibility of files mentioned in dept.
- 6) A **complaint register** need to be maintained in common for the college.
- 7) HoD's of concerned departments should keep the master list of files and should ensure that the files are properly maintained and updated. **MR(Management Representative) will not be responsible for file maintenance in individual departments**.

An Internal Quality Audit was conducted from 25/01/2021 to 29/01/2021 in order to review system progress as per ISO 9001:2015 standards. A re-audit was held on 01/02/2021. In the IQA conducted the following observations were made by the internal auditors:

- 1) Course folder preparation was found to be up to date.
- 2) Result analysis is done properly by each department and the analysis is kept in file.
- 3) Complaint register is being maintained by the college.
- 4) File maintenance to be upgraded in few departments.

Chairman expressed satisfaction in the ISO quality process of NCERC and requested the HoD's and AMR to monitor the quality systems closely and take proper corrective and preventive actions without delay. Deficiencies, if any, in the system shall be reported immediately so that auditing process will be smooth. Auditor teams shall be selected from each department and they should only audit other departments.

All members present agreed to comply. The meeting came to an end at 11:30 AM.

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(NAAC ACCREDITED)

NILA GARDENS, PAMPADY, THIRUVILWAMALA, THRISSUR DIST - 680 588

Composition of IQAC for the Academic Year 2021-2022

SI.No.	A	Designation	IQAC Member
1	Adv.Dr.P.Krishnadas	Managing Trustee	Management Representative
2	Prof.(Dr.)Ambikadevi Amma T	Principal, NCERC	Chair Person
3	Dr.Sobha Manakkal	HoD,EEE Department	IQAC Director
3	Mr.David E	Asst. Professor, EEE Department	IQAC Coordinator
4	Mr.M.Srinivas	Administrative Manager	Senior Administrative Officer
5	Mr.R.Ambikadas	Academic Superintendent, NCERC	Senior Administrative Officer
6	Mr.Vimal M N	Asst.Professor, AUE Department	Faculty Nominee
7	Mr.Vipin K M	Asst.Professor,CSE Department	Faculty Nominee
8	Ms.Sajitha A S	Asst.Professor,ECE Department	Faculty Nominee
9	Mr.Anoopkumar M V	Asst.Professor,EEE Department	Faculty Nominee
10	Mr.Rahul R	Asst.Professor,ME Department	Faculty Nominee
11	Mr. Midhun Raj P K	Asst.Professor,MT Department	Faculty Nominee
12	Mr.Alex Kuruvilla	Asst.Professor,MBA Department	Faculty Nominee
l3	Ms.Deepa A	Asst.Professor, MCA Department	Faculty Nominee
4	Mr.Ragesh P R	2002-06 Batch Mechanical Engg Student	Alumni Nominee
5	Mr.Manojkumar K R	Ward Member, Ward number-5,	Local Society Nominee

		Thiruvilwamala.	
16	Mr. Hari S	Head, ETA Infosys Mysore	Industry Nominee
17	Mr. P Sivanandan	CEO, Society of Energy Engineers and Managers(SEEM) Kerala Chapter.	Industry Nominee
18	Ms.Greena Sunny	S5- ECE DEPT	Stake holder Nominee (Student)
19	Mr.Jayakumar C	F/o Mr. Jineesh J (S5 – EEE)	Stake holder Nominee (Parent)

IQAC Coordinator

Principal

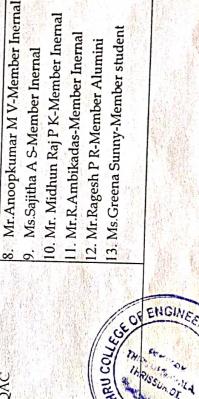


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INTERNAL QUALITY ASSURANCE CELL -NCERC

ELL 31" (IQAC) MEETING		Time – 2:00PM
MINUTES OF THE INTERNAL QUALITY ASSURANCE CELL 31st (IQAC) MEETING AC.YR.2021-22	points arising out of the previous meeting NIRF submission Semester 2021-22 Ice- preparations Inent activities — Arations Ithe permission of the chair	2022
MINUTES OF THE II	1. Discussion on action 2. AQAR submission & 3. Internal Audit –EVE 4. International conferer 5. Research & Developr 6. NBA inspection prep 7. Seminar – NAAC fun 8. Any other matter with	oard Room, Aryabhatta



I. Prof.(Dr.)Ambikadevi Amma T-Chairperson IQAC

Dr.Sobha Manakkal-Director IQAC

Mr.David E-Cordinator IQAC 4. Ms.Deepa A-Member Inernal

Dr.Suriakala R- Member Inernal 6. Mr. Vipin K M-Member Inernal

7. Mr.Rahul R-Member Inernal



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INTERNAL QUALITY ASSURANCE CELL -NCERC

The meeting began at 2:00pm. Principal welcomed all the members of IQAC and the new members were introduced before the Director IQAC started the presentation by listing the action taken report (ATR) of previous meeting. The minutes and ATR of committee. She requested Dr.Sobha Manakkal, Director IQAC to go ahead with the proceedings

Target date	As in work plan			18 th May-20 May 2022 Closing meet on	25th May 2022		Immediate	
··Action by	IQAC			IQAC auditors			Team	
Item	Meeting decided to have a calendar for AQAR and NIRF preparation and IQAC submissions in the further years 2022 22	22 August 15 - 1	022	Decided to have the Even Semester Internal Academic audit of the ongoing IQAC auditors semester by IQAC. Also decided to have a closing audit meet to discuss the final audit form		IQAC reviewed the progress of preparation on the International Conference	ICETSSI2022 being organized by NCERC and convened by CS department on 26th & 27th May 2022. IQAC decided to alert the organizing team to	promote publicity to have more registrations from researchers
SI.no				7		3.		





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INTERNAL QUALITY ASSURANCE CELL -NCERC

		Immediate		May 2022		May 2022		Immediate		May 15 th 2022	TATOR
		Principal's Office, HoDs		Dr.Sankar Prof. in		Dr.Sankar Prof. in	charge Research Cell	IQAC		IQAC	TROM IQAC COORDIN
4. Decided to have the following to strengthen the Borns	campus	Call for Ph.D. admission applications from KTU,NIT Calicut -Notify faculty	Request for formation of Research Wing with reactions	departments -	One day workshon for faculty for angents.	May 2022	IOAC reviewed the progress of managers.	found the progress of works satisfactory. Decided to provide needed support to the programs applied for the inspection	6. Decided to apply for National Seminar finded by NAAC 1	of IQAC. Theme was decided as National Education Policy 2020	MEETING CONCLUDED WITH THE THANKS GIVING FROM IQAC COORDINATOR
	100		7.)		



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NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE (NAAC 'A' Accredited) (Approved by AICTE, Affiliated to KTU, Kerala) INTERNAL QUALITY ASSURANCE CELL –NCERC





Remarks		Action	Action completed	
ORT OF THE IQAC MEETING NO 30 HELD ON 28 TH JANUARY 2022 OVED IN THE MEETING HELD ON 26 TH APRIL 2022) Action by Action Taken		Composition of IQAC was completed revised by replacing faculty nominees of MBA and AUE department	AQAR 19-20 and NIRH 22was Action submitted and AQAR 2020-21 is completed prepared and ready to be uploaded.	
TING NO 30 HE HELD ON 26 TH Action by		IQAC to revise list	For information	
ACTION TAKEN REPORT OF THE IQAC MEETING NO 30 HELD ON 28 TH (APPROVED IN THE MEETING HELD ON 26 TH APRIL 2022) Sl.no Item Action by Action T	1. Meeting decided to have change in the	o Mr. Manuraj –Member internal to be removed from rolls since the representing program has been closed o Prof.Alex Kuruvilla –Member internal from MBA department to be replaced by Dr.Suriakala R based on request from Director MBA	Discussed the AQAR and NIRF submission status AQAR 2019-20 submitted on December 2021 and is approved by NAAC AQAR 2020-21 — submission in progress — submission expected well in time	o NIRF – submission in progress – submission expected well in time
[[** ** **				



INTERNAL OUALITY ASSURANCE CELL -NCERC (NAAC 'A' Accredited)
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	Action	Action	Action	Action completed
	Successfully completed the Action internal academic audit for odd completed semester as per schedule and checklist. No report of any non compliance	Format circulated and dept. are Action submitting monthly report to completed Principal office	Dr.Sankar appointed as Prof. In charge	Dr.Sobha(IEEE SB cousellor) Action and Prof. Radhika(ISTE faculty completed coordinator) assigned with. Thursday Colloquium scheduled to be commenced in May
	IQAC auditors	Department Heads upon direction from Principal	Dr. Sankar, ME upon direction from Principal	ISTE /IEEE faculty in charge upon direction from Principal
3 Doctor		4. Decided to have an activity calendar for updating the department events FDP/Workshop, paper publications etc. to IQAC on monthly basis	5. Decided to have the following to strengthen the Research activities of the campus Commence a research wing at NCERC under a Professor. Dr.Sankar, faculty mechanical department, is suggested for the position	Commencement of Thursday colloquium to hold interdisciplinary ISTE/IEEE presentations under the aegis of ISTE faculty chapter and IEEE faculty in chapter branch upon directifications to the contraction of the contraction o







Action pending	Action completed		
registered with Linkedln, Prof.Sundaramo Prof.Sundaramoorthi P, EEE updating their academic orthi P, EEE assigned f.Sundaramoorthi P, EEE upon direction from Principal rechnical support	Dr. Jaget Babu N R (Retired Prof CET), First session-1-25 th February 2022. Second session -28 th February 2022, Third session - 7 th March 2022.	26 th APRIL 2022	26th APRIL 2022
Prof.Sundaramo orthi P, EEE upon direction from Principal	IQAC		
Decided to have all faculty members registered with Linkedln, Prof.Sundaram. Google scholar, Orcid, Vidwan for updating their academic orthi P, EEE department for necessary follow up and technical support from Principal	benefit of faculty members. Resource person to be identified and session to be arranged	PREPARED BY DIRECTOR IQAC NCERC	AFFRUVED BY PRINCIPAL NCERC
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O SO DIRECTOR IQAC NCERC



PRINCIPAL NCERC



NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE (NAAC 'A' Accredited)



(Approved by AICTE, Affiliated to KTU, Kerala) INTERNAL QUALITY ASSURANCE CELL (IQAC)

To

All members of IQAC

Dear Sir/Madam.

Sub: Call for 30th meeting of IQAC NCERC reg:

The next meeting (30th) of IQAC is scheduled on 28th Janauary-2022 at 2p.m. at Board Room, Aryabhatta Block in a hybrid mode. As a member of the IQAC you are cordially invited to attend the meeting and participate in the deliberations. You can either be physically present or join online for the meeting. In case you are joining online, please send an email to IQAC, at the earliest

Agenda

- 1. Discussion on action points arising out of the previous meeting
- 2. AQAR submission & NIRF submission
- 3. Internal Audit -ODD semester 2021-22
- 4. Activity calendar
- 5. Research & Development activities suggestions for improvement
- 6. NBA inspection preparations
- 7. Any other matter with the permission of the chair.

IQAC DIRECTOR

PS: email IDs: jqac@ncerc.ac.in

PRINCIPAL

Copy to all members

Mr.Alex Kuruvilla (Faculty Nominee)
Ms.Deepa A (Faculty Nominee)
Mr.Ragesh P R (Alumni Nominee)
Mr.Manojkumar K R (Local Society Nominee)
Mr. Hari S (Industry Nominee)
Mr. P Sivanandan (Industry Nominee)
Ms Greens Supply (St. 1
Ms.Greena Sunny (Student Nominee)
Mr.Jayakumar C (Parent Nominee)



NEERU COLLEGE OF ENGINEERING AND RESEARCH CENTRE (NAAC 'A' Accredited) (Approved by AICTE, Affiliated to KTU, Kerala)

INTERNAL QUALITY ASSURANCE CELL -NCERC

MINUTES OF THE INTERNAL QUALITY ASSURANCE CELL (1QA

AC.YR.2021-22	g nent	Time - 2:00PM		8. Mr.Anoopkumar M V-Member Inernal 9. Ms.Sajitha A S-Member Inernal 10. Mr. Midhun Raj P K-Member Inernal 11. Mr.Alex Kuruvilla-Member Inernal 12. Mr.R.Ambikadas-Member Inernal 13. Mr.Ragesh P R-Member Alumini 14. Ms.Greena Sunny-Member student
AC.YR.2021-22	1. Discussion on action points arising out of the previous meeting 2. AQAR submission &NIRF submission 3. Internal Audit –ODD semester 2021-22 5. Activity calendar 6. Research & Development activities –suggestions for improvement 7. Any other matter with the permission of the chair.	Date:28 ^{III} January 2022		na T-Chairperson IQAC or IQAC (C tl tl trinal nal
Agenda-	1. Discussion on ac 2. AQAR submissic 3. Internal Audit -O 4. Activity calendar 5. Research & Deve 6. Any other matter y	Board Room, Aryabhatta	IQAC Members Present	 Prof.(Dr.) Ambikadevi Amma T-Chairperson IQAC Dr.Sobha Manakkal-Director IQAC Mr.David E-Cordinator IQAC Ms.Deepa A-Member Inernal Dr.Suriakala R- Member Inernal Mr.Vipin K M-Member Inernal Mr.Vipin K M-Member Inernal

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The meeting began at 2:00pm. Principal welcomed all the members of IQAC and the new members were introduced before the passed Director IQAC started the presentation by listing the action taken report of previous meeting. The minutes of previous meeting was I. Meeting decided to have change in the member list as below The Manuary Jean Hamber internal for be removed from rolls since the representing program has been closed Prof. Alex Kurvilla — Member internal from MBA department to be replaced by D. Surahala R based on request from Director MBA. 3. Discussed the AQAR and NIRF submission status o AQAR 2019-20 submission in progress – submission expected well in time o NIRF – submission in progress – submission expected well in time o NIRF – submission in progress – submission expected well in time o NIRF – submission in progress – submission expected well in time o NIRF – submission in progress – submission expected well in time o NIRF – submission in progress – submission expected well in time o NIRF – submission in progress – submission expected well in time o NIRF – submission in progress – submission expected well in time o NIRF – submission in progress – submission expected well in time o NIRF – submission in progress – submission expected well in time o NIRF – submission in progress – submission expected well in time o NIRF – submission in progress – submission expected well in time o NIRF – submission in progress – submission expected well in time o NIRF – submission in progress – submission expected well in time o NIRF – submission in progress – submission expected well in time o NIRF – submission in progress – submission expected well in time o NIRF – submission in progress – submission expected well in time o NIRF – submission in progress – submission expected well in time o NIRF – submission expected to have an activity calendar for updating the department events direction from Principal March 2022	Sin	introduced before the	previous meeting was	Target date	28 th January 2022	o AQAR 2020- 21 30-02-2022	o NIRF 08-02-2022 01-02-2022 05-02 20222	March 2022
	E CELL –NCERC	th the proceedings	The minutes of			For information	IQAC auditors	Department Heads upon direction from Principal
	The meeting began at 2:00pm. Principal welcomed all the members of TO	Annual Contract of the last of		o Mr. Manuraj -Member internal to be	o Prof.Alex Kuruvilla –Member i replaced by Dr.Suriakala R based Discussed the AQAR and NIRF subno AQAR 2010 20	o AQAR 2020-21 – submission in progress – submission expected well in o NIRF – submission in progress – submission expected well in	1QAC with the revised checklist. Also decided to have a closing audit meet to 4. Decided to have an activity calandar.	





INTERNAL OUALITY ASSURANCE CELL -NCERC (NAAC 'A' Accredited)
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	March 2022	y2022
	Marc	Febraury 2022
o Dr. Sankar, ME upon direction from Principal	o ISTE/IEEE faculty in charge upon direction from Principal o Prof.Sundaramoorthi P, EEE upon direction from	Frincipal IQAC AC coordinator
campus O Commence a research wing at NCERC under a Professor. Dr.Sankar, faculty mechanical department, is suggested for the position	a to a	6. Decided to have a webinar on Outcome Based Education for the benefit of faculty members. Resource person to be identified and session to be arranged IQ. Meeting concluded with the thanks giving from IQAC coordinator

IQAC DIRECTOR

PRINCIPAL NCERC

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NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE (Accredited by NAAC) PAMPADY, THIRUVILWAMALA, THRISSUR (DT) – 680588

NCERC/IQAC/03/21

09.09.2021

CIRCULAR

A meeting with IQAC members is scheduled for September 17, 2021 at 11:00 am in Room No:229, Aryabhatta Block.

General Commence of the Commen

All members are requested to attend the meeting.

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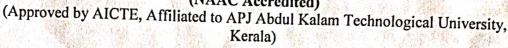
Principal

Copy to:

All HODs, for information and necessary action
Faculty members and Administrative Office members by name
Academic Office Superintendent, Campus Manager



NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE (NAAC Accredited)





Internal Quality Assurance Cell (IQAC)

Minutes of meeting held on 17th September 2021

Agenda:

- 1. Recompositing IQAC 2021-22.
- 2. Plan for NAAC peer team visit
- 3. Improving the research ambience of the Institution
- 4. Conduct of online classes during odd semester 2021-22
- 5. Conduct of offline classes for even semester 2020-21
- 6. Activities of different committees.

Members present: 12

The following points were discussed in the meeting:

- 1. Principal welcomed all the members of IQAC. She introduced the new members and the restructured composition of IQAC was presented.
- The functions and role of IQAC in sustaining the quality of the academic programs of the college was highlighted.
- Coordinator gave the brief idea to all members about each and every point in the selfstudy report submitted to NAAC. It was decided to conduct regular meetings with coordinators and working committees to review and update the NAAC works.
- 4. The tentative schedule for peer team visit were presented and the required preparation has been discussed. A team comprising four members was formulated to conduct the review meetings. Also a working team has been identified which comprises the head of all the available committees.
- 5. Since it is seen that the research initiatives taken by the institution is not adequate. Proposal can be put up for improving the same.

- 6. FISCIL support from management can be requested for the same.
- 7. Plan for action for the academic year was devised and the measures to be taken were presented. The requirement for online teaching were discussed and the schedule for odd semester online classes were published. And the coordinator suggested to use the common video conferencing platform tool webex for the online classes. And it was decided to use google class room for sharing study materials and assignments to the students.
- 8. New time table for the even semester offline contact classes were presented for the clarification. Members suggested to use the smart class room for the entire lectures in the offline period.
- 9. It is resolved to strengthen the activities of various academic and administrative committees for the academic improvement. Principal also asked all the committee coordinators to conduct regular meetings regarding the academic matters.

IQAC Coordinator

Principal

Members present for the IQAC meeting held on 17th September 2020

SI.No.	Name	Signature
1	Prof.(Dr.)Ambikadevi Amma T	le
2	Dr.Sobha Manakkal	Su.
3	Mr.David E	(Man)
4	Mr.R.Ambikadas	D. Jul
5	Mr.Vimal M N	R.I.
6	Mr.Vipin K M	Fin (
7 4	Ms.Sajitha A S	Jak
8	Mr.Anoopkumar M V	195
9	Mr.Rahul R	Afr
10,	Mr. Midhun Raj P K	Marie Control of the
11	Mr.Alex Kuruvilla	(And
12	Ms.Deepa A	WAGA

AICTE-ISTE INDUCTION/REFRESHER PROGRAMME 2021-'22

EMERGING TRENDS IN EMBEDDED SYSTEMS AND INTERNET OF THINGS (IOT)

Under the banner of Nehru Group of
InstitutionsNehru College of Engineering and
Research Centre





Organised by

Dept of Electronics and Communication Engineering

From 01-02-2022 to 07-02-2022

PROGRAMME IS SPONSORED EXCLUSIVELY BY AIGTE- ISTE

Chief Patrons

Adv. Dr. P. Krishnadas Chairman & Managing Trustee, NGI

Dr. P. Krishnakumar CEO & Secretary,NGI

Patror

Prof. (Dr.) Ambikadevi Amma T Principal, Nehru College of Engineering and Research Centre, Pampady

COORDINATOR

P.RAJKUMAR SENIOR ASSISTANT PROFESSOR ECE DEPARTMENT

About the College

Colleges in Kerala. to be one of the Best Self Financing Grade. Over these years NCERC has grown Accreditation Council (NAAC) with 'A' is accredited by National Assessment and Kalam Technological University (KTU) and Education (AICTE), affiliated to APJ Abdul approved by All India Council for Technical an ISO 9001:2015 certified institution, realm of technical education in Kerala, it is research. Dedicated to the service in the class quality education in engineering and Das, NCERC is committed to impart world in 2002 by the founder chairman Shri P.K. training in the private sector. Established engineering education, research and Engineering college that has pioneered Bank of the river Nila, is a premier Research Centre (NCERC), situated on the Nehru College of Engineering

About the ECE Department

undergraduate (B.Tech) programme and from 2012 with an intake of 18. intake of 18 students and "VLSI Design" Communication System" from 2011 with an Postgraduate enhanced to an intake of 120 students from 2002 with an intake of 60 students for The Department of ECE was established in The "Applied department (M.Tech) Electronics programmes, offers two প্ৰ

Highly qualified, experienced and dedicated staff members are the backbone of the Department. The Department always strives hard to satisfy the knowledge thirst of both students and faculties by organizing workshops / technical talks / conferences and so on. The faculty members are actively involved in research work and regularly present/ publish their work in various national and international conferences/journals.

The ECE Department is proud to host state-of-the-art Laboratories in the area of VLSI, Embedded Systems, Microprocessor and Microcontrollers, Circuits, Analog and Digital Communication and Microwave and Optical communication.

basis of the creative skills of our imaginative and seminars. Also the department has two presentation, quiz competition, workshops activities have been conducted such as paper the ECHOS (The ECE Association) in 2009 and conferences. technical events like guest lecture, seminars (IETE) TELECOMMUNICATION INSTITUTE OF ELECTRONICS AND Department is closely associated with projects and publication based activities. meets on monthly basis to discuss innovative students. There is an Embedded Club that magazines that have been developed on the and under this banner many extra-academic The ECE department formally inaugurated Palakkad Centre to organize **ENGINEERS**

Objectives and Context

To get to understand and convey the emerging trend of 21st century in Embedded Systems and IoT in relation to various sectors of agriculture, industry and education.

ABOUT THE TOPIC

In today's exponential digital lifestyle, there is an acute need to incorporate computers and computing elements in standalone as well as distributed connections of machines with real-time engineering, medical and pharmaceutical interactions, especially during the recently witnessed global pandemic of the COVID -19 holocaust

Benefits to Faculty

pandemic. Expected Outcome shifting revolution, especially during the Embedded Systems and IoT, as paradigm Faculty to appreciate the milestones of It is of paramount importance for the recently concluded (hopefully) global

with multiple conflicting agendas. machine and enabling multitasking to the reducing the gap between man and Able to use technology effectively for fullest in today's exponential digital living

Program Schedule

- Day-1: Inauguration followed by section of **Embedded System and IOT**
- Day-2: Embedded Automotive systems and IoT Automation and Hands-on training
- Day-3: Hands-on on Embedded systems and IoT topics with use of Cloud services
- Day-4: Sensors for Embedded Systems and IoT with related topics in Embedded Systems and IoT
- Day -5: IoT based Smart Applications and Industry
- Day-6: National Education Policy 2020 followed by Valedictory function Stress Management, Online Test and

Who Can Participate

Faculty of

Management and Technology Colleges/ Arts/Commerce/Science/Engineering/ Institutions.

Registration Fee

Registration is FREE for all participants

Dates to Remember

Program dates: 01-02-2022 to 07-02-2022 Last date for Registration: 27-01-2022

How to Register

Registrations are accepted through online mode.

Link for online registration is given below.

https://docs.google.com/forms/d/e/1FAIpQLSdoDrc JoLkNFqlyiBfanOaqspoPWjGUq8gakf8eSKVAGT-4yg/viewform?usp=sf_link

Selection Process

Selection Basis: First Come First Serve Maximum Number of Participants: 100 Intimation: Through Email

For any Query, Please Contact

Email:Hodeceab@ncerc.ac.in HOD ECE Department, Prof. Dr. S. Rajkumar Mobile: 9025617775 NCERC, Pampady

Email: rajkumarp.ece@ncerc.ac.in Mobile: 9746366196 **NCERC Pampady ECE Department** Sr Asst Professor Prof P.Rajkumar

Website: http://ncerc.ac.in/electronicsand-communication-engineering/



(NAAC Accredited)



(Approved by AICTE, Affiliated to APJ Abdul Kalam Technological University, Kerala)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Schedule of the ONLINE AICTE-ISTE INDUCTION/REFRESHER PROGRAM 2021-'22

Program Title: EMERGING TRENDS IN EMBEDDED SYSTEMS AND INTERNET OF THINGS (IOT)

DAY AND DATE	SESSION-1		SESSION-2		SESSION-3
	9:00-10:30 AM		10:45-12:15 PM		1:30-3:00 PM
DAY-1 TUESDAY 01-02-2022	INAUGURATION INAUGURAL CEREMONY Inaugural Address: Prof. Vijay D Vaidya Executive Secretary ISTE 93736 66492 Keynote Address: Dr.S.I. Manjur Basha Principal Beayrs Institute, Mangalore	BREAK 10:30- 10:45AM	Dr E. Chandra Blessie Department of Computing [AI & ML] Coimbatore Institute of Technology. Coimbatore. blessie@cit.edu.in 98422 66044 Topic: Embedded system approaches with connected IoT and Data Platform	LUNCH BREAK 12:15 -	Mr. S.Daison Stallon (Ph.D) Assistant professor EEE Nehru Institute of Engineering and Technology Coimbatore. nietdaisonstallon@nehrucolleges.com 94897 45477 Topic: Role of IoT in Renewable energy systems
DAY-2 WEDNESDAY 02-02-2022	Ph: 98944 13435 Dr.S.Sheeba Rani Associate Professor, Department of EEE, Sri Krishna College of Engineering and Technology, Coimbatore. sheeba.zion2020@gmail.com Ph: 9841835050 Topic: Embedded Automotive Systems	10:45AM	Dr.Maheswari.R, Associate Professor School of Computer Science. VIT Chennai maheswari.r@vit.ac.in 74015 96924 Topic: Embedded and IoT Automation through Zero Coding - Hands on	1:15 PM	Mr. Suresh P IETE Palakkad <u>Topic</u> : Hands-on Embedded Systems Ph: 9633391398
DAY-3 THURSDAY 03-02-2022	Mr. Suresh P IETE Palakkad <u>Topic</u> : Hands-on Embedded Systems Ph: 9633391398		Dr Nalini Joseph Professor, School of Computing Bharath University. Chennai. drnalini.cse@bharathuniv.ac.in 94447 51976 Topic: Internet of Medical things		Mr. Dileep T N Hardware Developer Freelancer Ph: 96334 78102 dtndileep@gmail.com Topic: Embedded Artificial Intelligence

DAY AND DATE	SESSION-1 9:00-10:30 AM		SESSION-2 10:45-12:15 PM		SESSION-3 1:30-3:00 PM
DAY-4 FRIDAY 04-02-2022	Mr Akhil Arun Menon (Ph.D) Assistant Professor Department of ECE m.akhil@jainuniversity.ac.in 86557 52503 Jain University, Bangalore Topic: Sensors: The what, why and how in Embedded		Dr N.Anusha Professor, Department of ECE, S.A.Enggineering College, Chennai 99411 65566 anusha@saec.ac.in Topic: Challenges and Requirements in Embedded Systems Design process		Mr. Rajiv T R Asst. Professor, Dept of ECE, Christ College of Engineering, Thrissur. 85470 23663 Topic: Developing Cost Effective IoT Systems Hands-on
DAY-5 SATURDAY 05-02-2022	Systems and IoT Dr. John Chembukkavu HOD / EEE IES COLLEGE OF ENGINEERING, KERALA 94478 08065 eeehod@iesce.info Topic: IoT Enabled Smart Charging Stations for Electric Vehicles	BREAK 10:30- 10:45AM	Dr M. Latha Associate Professor Department of ECE DMI College of Engineering, Chennai. 94441 15181 latha.ece@dmice.ac.in Topic: IOT transforming future of Agriculture industry.	LUNCH BREAK 12:15 - 1:15 PM	Dr D.Vijayakumar Associate Professor, Dept. Of ECE, CMR College of Engineering & Technology, Hyderabad. 95005 24075 vkkumarin@gmail.com Topic: Smart Mirror System
DAY-6 MONDAY 07-02-2022	Dr. Sobha Manakkal HOD / EEE NCERC, PAMPADY. KERALA 94464 58522 hodeee@ncerc.ac.in Topic: National Education Policy 2020		Dr. Malika Balakrishnan Consultant Psychologist NGI 98471 30090 mallikabalakrishnan192@gmail.com Topic: Mental Well-being and Stress Management		Online Test and VALEDICTORY FUNCTION Chief Guest: Col. B Venkat Director AICTE – New Delhi Special Address: Prof. Vijay D Vaidya Executive Secretary ISTE 93736 66492





(NAAC Accredited with 'A' Grade, ISO 9001-2015 Certified)
(Approved by AICTE, Affiliated to APJ Abdul Kalam Technological University, Kerala)

(Pampady, Thiruwilvamala, Thrissur-680588)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ONLINE AICTE-ISTE INDUCTION/REFRESHER PROGRAM 2021-'22 EMERGING TRENDS IN EMBEDDED SYSTEMS AND INTERNET OF THINGS (IOT)

REPORT ON AICTE-ISTE INDUCTION/REFRESHER PROGRAMME ON

"EMERGING TRENDS IN EMBEDDED SYSTEMS AND IoT" 01-02-2022 to 07-02-2022

AICTE-ISTE had graciously sponsored the INDUCTION/REFRESHER PROGRAMME on "EMERGING TRENDS IN EMBEDDED SYSTEMS AND IOT", Coordinated by Prof. P. Rajkumar, Senior Assistant Professor, ECE Department, Nehru College of Engineering and Research Centre, after his application for the same was approved by AICTE-ISTE.

Our AICTE-ISTE INDUCTION/REFRESHER PROGRAMME on "EMERGING TRENDS IN EMBEDDED SYSTEMS AND IOT", commenced on Tue 01-02-2022 with Inauguration Function from 9:00 am to 10:30 am.

The day commenced with a one minute silent prayer in memory of out late founder chairman Shri. P.K. Das, followed by a prayer by Darsana (S3 ECE student).



Our most respected Principal welcomed the **Chairman and Managing Trustee** (in absentia) and honourable **CEO and Secretary Dr. P. Krishnakumar**, who presided over the function with a very goodspeech that motivated us to proceed in all alacrity with the programme.







The Chief Guest for the Inauguration Function was **Prof. Vijay D. Vaidya**, **Executive Secretary, Indian Society for Technical Education (ISTE)**. He was very happy to perform the inauguration of our humble venture and he emphasized on the need for common man to be aware of National Education Policy 2020. He made several important observations for need for structure higher education policy and to imbibe the essence of technical know-how to new faculty members through platforms such as this AICTE-ISTE Induction/Refresher programme.

The other Guest of the day, Dr. S.I. Manjur Basha, Principal, Bearys Institute of Technology, Mangaluru, gave a very fascinating sermon on the growing need and influence of embedded systems and IoT and he praised us for having taken up the venture, during the Pandemic, to spread awareness about harnessing the massive power of IoT.

Our respected Principal, Prof Dr. Ambika Devi Amma T, welcomed the Guests with warms words of praise for the efforts of the Programme Coordinator and ECE department for the conduct of the Programme.

The ECE department HoD Prof. Dr. S.Rajkumar gave felicitations for the programme and went into dept to congratulate the Coordinator and team for the successful venture.

The Vote of Thanks was given by Programme Coordinator Prof. P.Rajkumar, who thanked the Guests, Principal and HoD for their words of wisdom and kind wishes for success of our Programme.

The first technical session on Day-1 was "Embedded Systems with connected IoT", by **Dr. Chandra Blessie, Assistant Professor, Department of Computing [AI & ML] Coimbatore Institute of Technology**, Coimbatore from 10:45 am – 12:15 pm.





She presented on the basics of Embedded systems with practical applications and gave very vivid real time representation and then she delved at length into the rudiments of Internet of Things (IoT). The participants were enthusiastic and there were queries that were handled with ease by the respected resource person.

The second technical session on Day-1 was "Role of IoT in renewable energy systems", by Mr. Daison Stallon, Assistant professor EEE, Nehru Institute of Engineering and Technology Coimbatore, from 1:30 pm - 3:15 pm.





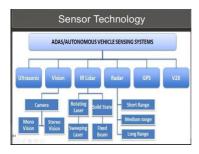


He gave a very solid and realistic presentation "Role of IoT in renewable energy systems", with clear cut real- time cases that was very fascinating for all. The participants were very enthusiastic and there were many queries that were handled with ease by the respected resource person. The scope of renewable energy in our country and the coupling of IoT to achieve maximum efficiency and productivity were expertly presented.

The first technical session on Day-2: Wed 02-02-22, was "Embedded Automotive Systems" by **Dr. S. Sheeba Rani, Associate Professor, Department of EEE, Sri Krishna College of Engineering and Technology, Coimbatore**, from 9:00 am – 10:30 am.



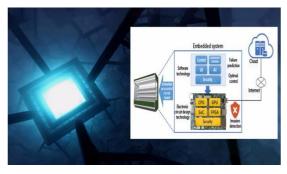




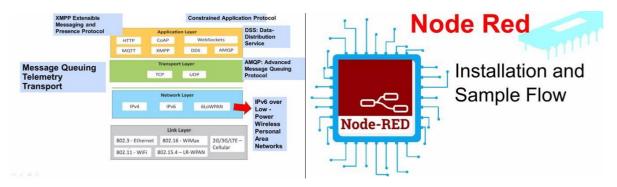
This was undoubtedly a very fascinating session with the resource person Dr. S. Sheeba Rani, making a very outstanding presentation of the role of Embedded systems in Automobile such as cars and other vehicles with real-time and very vivid implanted videos of state of the art, cutting edgetechnology.

The second technical session on Day-2 was "Embedded and IoT Automation through Zero Coding" by **Dr. Maheshwari R, Associate Professor, School of Computer Science and Engineering, VIT Chennai**, from 10:45 am – 12:15 pm.



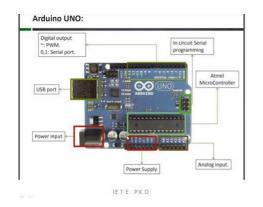


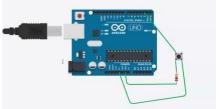
Madam gave a very realistic presentation on the role of IoT in automation and also provided programming practice real-time in all patience and participants got the first-hand experience on coding during the session.



The third technical session on Day-2 was "Hands-on Embedded Systems", by **Mr. Suresh P, IETE Palakkad**, from 1:30 pm – 3:15 pm.

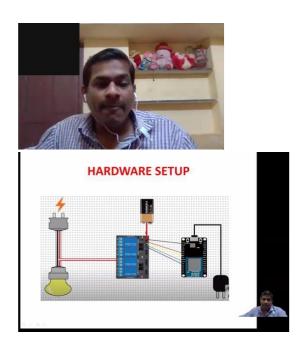






Mr. Suresh P from IETE Palakkad has conducted many sessions all over Kerala and in NCERC too, and on this day, he was at his very best with clear cut delving into Arduino and Raspberry Pi boards and his simulations were commendable. Especially, his interactive quiz session was revolutionary and participants were all very active.

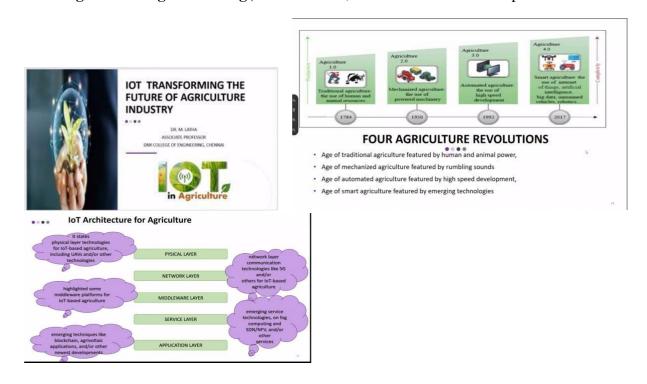
The first technical session on Day-3 was "Hands-on Embedded Systems", by Mr. Suresh P, IETE Palakkad, from 9:00 am - 10:30 am





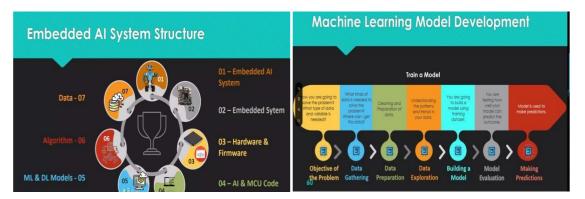
Mr. Suresh P from IETE Palakkad has conducted many sessions all over Kerala and in NCERC too, and on this day, he was at his very best with clear cut delving into embedded software and his simulations were a hallmark of an expert. Especially, his interactive quiz session was again revolutionary and participants were all very active.

The second technical session on Day-3 was "IoT transforming future of Agriculture industry" by **Dr. M. Latha, Associate Professor, Department of ECE, DMI College of Engineering, Chennai**, from 10:45 am - 12:15 pm



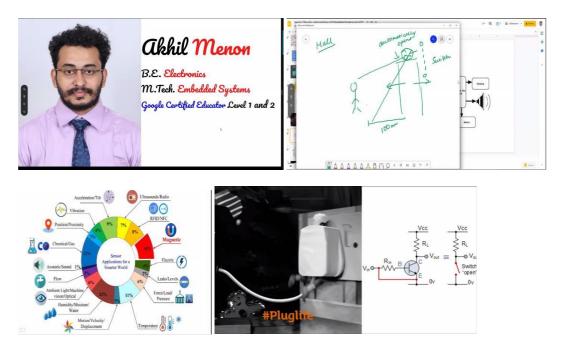
She presented on the revolutionary skill of transforming future of Agriculture using IoT and gave very vivid real time representation and then she delved at length into the rudiments of Internet of Things (IoT). The participants were enthusiastic and there were queries that were handled with ease by the respected resource person.

The third technical session on Day-3 was "Embedded Artificial Intelligence", handled by Mr. Dileep T N, Hardware Developer and Freelancer, from 1:30 pm - 3:15 pm.



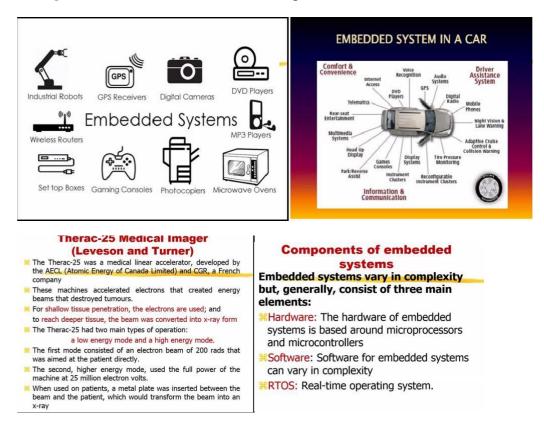
Dileep T N, an 2016 alumnus of ECE dept, NCERC, gave a scintillating session on Embedded AI, with very professional delving in varied facets of AI, Embedded Systems and then finally Embedded AL systems. He also provided a gregarious outlook into the software matters and coding issues.

The first technical session on Day-4 was "Sensors and its use in Embedded Systems", by researcher Mr. Akhil Arun Menon, Assistant Professor-Department of ECE, Jain University, Bangalore, from 9:00 am – 10:30 am



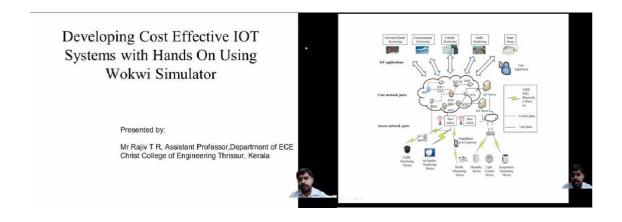
Mr. Akhil Arun Menon set the stage afire with his oratory and presentation skills on Sensor for Embedded systems. There was a good mixture of multimedia content in this session, like video, whiteboard writing, audio clips and all were well integrated in a session that held the participants spell bound. Participants gave an outstanding feedback.

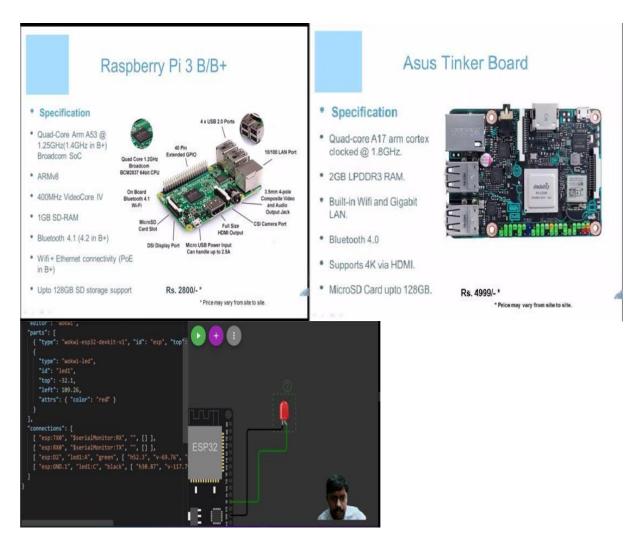
The second technical session on Day-4 was "Challenges and requirements in Embedded Systems design" by **Dr. N. Anusha, Professor, Department of ECE, S.A. Engineering College, Chennai,** from 10:45 am – 12:15 pm.



She presented on the basics of Embedded systems with practical applications and gave very vivid real time representation and then she delved at length into the rudiments of Internet of Things (IoT). The participants were enthusiastic and there were queries that were handled with ease by the respected resource person.

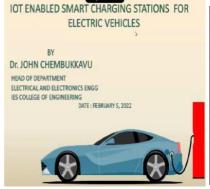
The third technical session on Day-4 was "Developing cost effective IoT Systems Hands-on", by Mr. Rajiv T R, Asst. Professor, Dept of ECE, Christ College of Engineering, Thrissur, from 1:30 pm – 3:15 pm.





Mr. Rajiv T R gave a highly professional talk and his presentation was very well done on developing cost effective IoT Systems with a lot of hands-on related work. The hands-on work was highly invigorating and the resource person very patiently performed the practice and awaited the participants to do, too.

The first technical session on Day-5 was "IoT Enabled Smart Charging Stations for Electric Vehicles", by eminent researcher **Prof. Dr. John Chembukkavu, HOD / EEE,IES COLLEGE OF ENGINEERING, KERALA**, from 9:00 am – 10:30 am



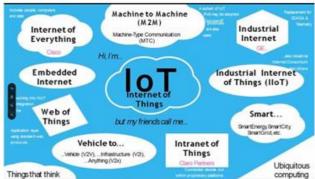




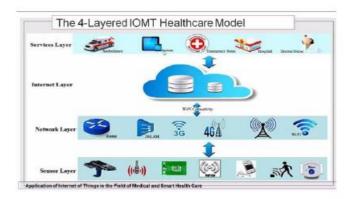
This was an amazing session by famed researcher who has filed several patents. The presentation was power packed with clear pictorials of use of IoT for the smart charging of EVs. The whole session was spell binding and no one seemed to be aware of how time passed. It made us feel that a much valuable research topic was there to consider and very practical, too with the current onset of EVs into the market.

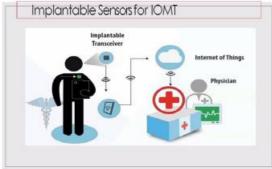
The second technical session on Day-5 was "Internet of Medical Things" by **Dr. Nalini Joseph, Professor, School of Computing, Bharath University. Chennai**, from 10:45 am – 12:15 pm





She presented use of IoT for Medicine and the session had a number of useful case studies in place. The recent technological innovations in the medical field were expounded at length by esteemed resource persons. The participants were enthusiastic and there were queries that were handled withease by the respected resource person.





The third technical session on Day-5 was "Smart Mirror Systems", by **Dr. Vijayakumar**, **Associate Professor**, **Dept. Of ECE**, **CMR College of Engineering & Technology**, **Hyderabad**, from 1:30 pm - 3:15 pm.



Dr. Vijayakumar's session was very solid in the basics of IoT and he was very much at ease in introducing the latest research topic on Smart Mirror Systems. He very patiently delved into the ocean of IoT conceptualizations and his words of wisdom to budding researchers were very commendable.

On Day-6 Mon 07-02-22, the first session was "National Education Policy 2020", handled by **Prof. Dr. Sobha Manakkal, HoD EEE Department, NCERC**. A very professional session was delivered by respected Madam in the National Education Policy 2020, the brainchild of the Central Government of India. She very patiently and knowledgeably delved into the rudiments of this massive project. It's to be recollected that Prof. Vijay D. Vaidya has emphasized on the importance of NEP 2020 in out educational institutions in the days to come.







On Day-6 Mon 07-02-22, the second session was "Mental Well-being and Stress Management", handled by **Dr. Mallika Balakrishnan, Consultant Psychologist, Nehru Group of Institutions**. This is a much wanted session, after all the stressful activities partaken by all of us. The stress that we face in real life perceives no bounds and as mere human beings, destined to die in any case, it is of paramount importance to safeguard our living essence in a non-stressful manner with proper mental balance. Madam was very successful in conveying the need for proper mental health in an life without stress, in her sermon.







Finally, the **Valedictory Ceremony** was held on **Mon 07-02-22 from 1:30pm – 3:30 pm**. Our respected **HoD of ECE department, Prof. Dr. S. Rajkumar** introduced the 6-day programme and its details in brief and delivered the Welcome address. Our respected **Principal, Prof. Dr. Ambika Devi Amma T** presided over the Ceremony and her words of wisdom and praise for the organizers of the Programme was very encouraging. She welcomed the Chief Guest Col B. Venkat, Director, AICTE, New Delhi and the Guest for special address Dr. Pratapsinh Desai, President- ISTE New Delhi.







The honourable chief guest **Col B. Venkat, Director, AICTE, New Delhi** enthralled the participants with his words of wisdom and he spoke at length of the initiative of AICTE towards new frontiers of teaching learning in higher education.

The most honourable guest **Dr. Pratapsinh Kakasaheb Desai, President, ISTE, New Delhi**, was most magnanimous to participate in the function from the Airport, despite his busy travel schedule. He had words of praise for those taking up AICTE ISTE joint projects and was very happy with our detailed schedule of programme. In particular, he appreciated the highlighting of NEP 2020 in our programme, which he said was very important for all to be aware of.



Many participants of the programme provided online audio feedback and it was very nice to hear their words.

Among them, Dr. Nageswara Rao from Telenggana, Dr. Latha Lavanya from Tamilnadu, Ms. Sanoba Shaikh from Navi Mumbai, Maharashtra and Dr. S.Mohanpande from Madhya Pradesh.

The Programme Coordinator Prof. P.Rajkumar read out the detailed Report of the AICET-ISTE Induction/Refresher programme.

Finally, the Programme Coordinator Prof. P.Rajkumar gave the Vote of Thanks.

This was followed by the National Anthem.







Then, it was time for the online Final Objective Test and the link was provided over the chat box of WebEx platform along with the overall Feedback link.

The Programme concluded at 4:30 pm.

Report Prepared by:

Prof. P.Rajkumar Programme Coordinator AICTE-ISTE Induction/Refresher Programme Emerging Trends in Embedded Systems and IoT

Senior Assistant ProfessorECE Department NCERC.