NARAYANA ENGINEERING COLLEGE::NELLORE & AUTONOMOUS

IQAC Internal Quality Assurance Cell

Date: 25.03.2022

Internal

Academic and Administrative Audit

For

Semester- I, AY: 2021-2022

Academic and Administrative Audit report for the academic year 2021-22, semester ${f I}$ have the following sections.

Section-1:	Audit Team and Academic Details		
Section-2:	Aspects/Activities, Observations, Remarks/Suggestions.		
Section-3:	Overall Observations and Recommendations		

Section-1: Audit Team and Academic Details

Name of the Department		Electrical and Electronics Engineering		
Date of Audit			22.03.202	22
	Academic year	2021-22	Semester	I
		Audit	Team	
SI.No	Name	Designati	on	Department
1.	Dr AVS Prasad	Professo	or	CE
2.	Dr J Srinivasulu	Professo	or	ECE
3.	Mrs N Santhi Kumari	Assistant Pro	fessor	EEE
4.	Dr P Penchalaiah	aiah IQAC Coordinator		IQAC

Name of t	he Head of the Department		Dr	. G VENKA	TESWARLU	J
Mail ID hodeee@necn.ac.in			Mobile 1	No	7780	555391
Sl. No	Program offered	Strength				
		I	II	Ш	IV	Total
1	B.Tech I SEM	66	66	108	115	355

Section-2: Aspects, Observations, Remarks/Suggestions

	ACADEMIC AUDIT
Sl. No	Aspects/Activities – Observations – Remarks/Suggestions
1	Academic Calendar- Implementation
	Observations: The department has been adhering to JNTUA schedules by creating its own academic event calendar for each semester.
	Remarks/suggestions: Classes were conducted smoothly and activities were carried out with some deviation from the academic calendar.
2	Syllabus coverage
	Observations: It was observed that syllabus coverage was verified based on syllabus completion targets in every fort night. Few subjects were deviated and completed by taking extra classes.
	Remarks/suggestions: Suggested to complete the syllabus as per syllabus completion targets.
3	Moodle Upload
	Observations: College Learning Management System (LMS) was extensively used by both faculty & students for course materials, PPTs, E-Resources & question banks of assignments and Mid-term examinations. Though some of the faculty were not uploaded the data in Moodle on or before the given date.
	Remarks/suggestions: Advised to upload the course contents in Moodle before the starting of the semester.
4	Course files
	Observations: For each individual course under the relevant regulations, the department maintains course files. Though Some of the course files didn't have all the contents to be filed.
	Remarks/suggestions: Some of the course files were incomplete and lacked some necessary information.
5	Mapping of COs and POs/PSOs
	Observations: R-21 Regulations COs were defined and CO-PO & PSOs mapping was done and filed properly.
	Remarks/suggestions: OBE coordinator was suggested to verify the action verb & learning statement of all COs of all courses.
6	CO Attainment & PO Attainment
	Observations: 1. CO Attainments of 2020-21 I semester was done and not attained COs were listed.

	2. PO Attainment for 2017-21 batch was done and the relevant documents were filed properly.				
	DOA				
	Remarks/suggestions: Suggested to list the action taken for not attained POs.				
7	ICT usage				
	Observations: The department practicing the blended teaching learning methods like ICT usage, assignments for students etc for effective lecture delivery and to make student engaged.				
	Remarks/suggestions: Appreciated the department for improvement in ICT usage compared to last semester.				
8	Quality of Question Papers				
	Observations: All Midterm and Assignment question papers are preparing as per OBE standards.				
	Remarks/suggestions: Appreciated for the quality of question paper.				
9	Evaluation of Answer Scripts				
	Observations: All midterm and assignment answer scripts were evaluated, and after circulating among the students, marks were posted. Remarks/suggestions: Appreciated the department for submitting the marks for				
	examination section with in specified time.				
10	Slow and Advanced Learners				
	Observations: 1. The slow and advanced learners list given by the examination section was filed. 2. The activities for slow learners were conducted by the department and relevant documents were filed properly. 3. The activities for advanced learners were conducted by the department and relevant documents were filed properly.				
	Remarks/suggestions: Advised to conduct the programmes as per the schedule given in Academic calendar.				
11	Remedial Classes				
	Observations:				
	The following remedial classes were conducted for this semester.				
	1. HVDC & FACTS for III-I				
	2. CONTROL SYSTEMS for III-I				
	3. AC MACHINES for III-I				
	4. DSP for IV-I				
	5. FACTS for IV-I				
	6. PSOC for IV-I				
	7. DCMT for II-I				

	8.ECS for II-I				
	9. EDC for II-I				
	Remarks/suggestions: All the documents are filed properly.				
12	Remedial Coaching				
A CONTRACTOR OF THE PARTY OF TH	Observations:				
	Remedial coaching was conducted for the following subjects: 1. "Problem Solving & Programming" for II EEE 8 students from 20.12.2021 to 22.12.2021.				
	2. " Algebra & Calculus" for II EEE students (9) from 23.12.2021 to 27.12.2021. 3. " Applied Physics" for II EEE students (25) from 28.12.2021 to 30.12.2021.				
	Remarks/suggestions: All the related documents are maintaining properly.				
13	Guest Lectures				
	Observations:				
	Organized one guest lecture on 1. "Machine Learning Applications in Electrical Engineering" by Sk. Masumsattar, Data Scientist, HP Bangalore, on 21-03-2021.				
	Remarks/suggestions: Advised to conduct more guest lectures by eminent speakers.				
14	Lecture Schedule Verification				
	Observations: It is observed that few courses were deviated from the pre scheduled lesson plan.				
	Remarks/suggestions: Extra classes for deviations have been taken in order to comply to the session plan.				
15	Lab Records/Manuals				
	Observations: It was observed that all the faculty dealt the labs have done continuous evaluation of records and manuals.				
4)	Remarks/suggestions: Soft and hard copies of all lab manuals and sample records of each laboratory for each semester are maintaining in the department for future reference.				
16	Continuous Evaluation For Practical Courses				
	Observations: Continuous evaluation of practical courses was done during semester.				
17	Remarks/suggestions: The continuous evaluation books were updated regularly. Students Project Evaluation and Review				
17	Observations:				
-	Not applicable for this semester.				
	Remarks/suggestions:				
18	Internships				

	Observations:				
	No internships were done by the students for this semester.				
	The internations were done by the arguerita for this semicore.				
	Remarks/suggestions:				
19	Partial Delivery by Industrial Experts				
	Observations:				
	There was two partial deliveries by industry experts				
	1. Power Quality for IV B. Tech/ I Sem students by Mr. S. Jagannathan,				
	Executive Engineer, Ennore Thermal Power Plant, Chennai.				
	2. Electrical Machines III for III B. Tech/ I Sem students by Mr.				
	Ravindra, Deputy Manager, Bio-Gas Power Plant, Gudiyatham, Tamil Nadu.				
	Raymara, Departy Manager, 510 Gas rower riam, Gaar, armain, Family				
	Remarks/suggestions: All the relevant documents were filed properly. Suggested to				
	organize partial delivery by industrial experts for II EEE students also.				
20	Adjunct Faculty				
20	Observations:				
	Mr. P.V. Ramanaiah, Retired DE, Transformer Division, APSPDCL, Nellore, has				
	completed 18 hours of IV EEE Energy Audit and Demand Side Management				
	coursework.				
	Coursework.				
	Remarks/suggestions: All the relevant documents were filed properly.				
21	Topic/Content Beyond Syllabus				
21	Observations:				
	1. Topics beyond syllabus for all courses of the semester were listed and the				
	materials were filed.				
	2. The relevant documents for events organized for content beyond syllabus (Not				
	mapped COs) were filed properly.				
	Remarks/suggestions: All the relevant documents were filed properly.				
22	Newsletter/Technical Magazine/Wall Papers etc.				
	Observations:				
	1. All departmental events were published in the departmental newsletters for the				
	first semester of the academic year 2021-22.				
	2. The department's Technical Magazine for I semester of 2021-22 has been				
	published.				
	published.				
	Remarks/suggestions: Newsletter and technical magazines are maintaining in				
	The second secon				
22	department library also. Student Feedback on TLP				
23	VE THE REPORT OF THE PROPERTY				
	Observations:				
	Student feedback on teaching learning process was conducted in modes 1. Online				
	2. Offline. Analysis report was filed properly.				
	Remarks/suggestions: Action taken report has to be filed.				
24	Feedback on Curriculum				

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	Senior Project Engineer, Prolific Systems and Technology Pvt Ltd, An AI Tanmiya
	Group (Kuwait) Company, Hyderabad (IEEE) on 12-03-2022.
	Remarks/suggestions: Appreciated the department for conducting good number of
	activities by professional society bodies.
29	Industry Institute Interaction Cell Activities
	Observations:
	The following programmes were conducted by IIIC:
	1. A two days work shop on IOT and embedded system hands on approach by
	1. Mr.Nivin Sr.Project Egineer Pantech elearning Pvt.Ltd 2.Mr.Veda
	Praneeth Sr.Project Egineer Pantech elearning Pvt.Ltd from 08-11-2021 to
	09.11.2021.
	2. A Technical talk on Introduction to Basic concepts in PCB design by
	Mr.K.Kalyan Sr.Project Engineer Prolific systems&Technologies Pvt.Ltd,
	Hyderabad. on 03-12-2021
	3. Value added course on "smart micro grid protection and relay testing" by
	Mr.SK. Amenuddin, Field operation Manager, ETCAM Institute if EEE
	Engineers, TCCGES Pvt.Ltd. Nellore on 23.11.2021 to 27.11.2021.
	4. A Technical talk on "An Overview of Artificial Intelligence Techniques in
	Power system and motor drive" by Mr.A. Praveen Kumar, Techlead-TCS,
	Bengaluru on 23.03.2022.
	Bengalar a on 23.03.2022.
	Remarks/suggestions: Appreciated for conducting good number of programmes
	under IIIC.
30	Student Association Activities
30	Observations:
	Fourteen (14) activities were organized by the department under student
*	association.
	Cladron and
	Remarks/suggestions: All the relevant documents were filed properly.
31	Student External Participation
	Observations:
	No student was participated in events of other institutions.
	Remarks/suggestions: Advised to encourage the students to participate in other
	institutions.
32	Workshops/Seminars/Conferences/NLTS Etc., Conducted
	Observations:
	One National Level Technical Symposium was organized by the department.
	Remarks/suggestions: All relevant documents were filed.
33	Placement Training (Internal & External)
	Observations:
	The department and placement cell organized training sessions for aptitude,
	verbal, technical, and coding in C and JAVA that were associated with placement.
	Remarks/suggestions: Advised to conduct training sessions on Python programming.
1	

34	Placements					
	Observations:					
	Ninety Five (95) number of students got placed in different companies.					
	Remarks/suggestions: Appreciated the department for achieving better					
	Remarks/suggestions. Appropriate					
25	placements than in prior academic years. Counseling/Mentoring					
35	Observations:					
	Mentoring on academic challenges was seen to be conducted by mentors once in					
	every two weeks. Few students have received personal counseling.					
	Remarks/suggestions: Slow learners were counseled by their mentor to improve					
	their overall performance in academics.					
36	Career Counselling					
A REPORT OF THE PARTY OF THE PA	Observations:					
	No programmes were organized by the department.					
	Remarks/suggestions: Advised to organize career counselling programmes in the					
	department for student's bright career.					
37	Professional Development Programmes Conducted For Faculty					
37	Observations:					
	A One week FDP on "Modern Research Innovative Techniques In Smart Grid					
	Technologies" from 15.02.2022 to 19.02.2022.					
	Remarks/suggestions: All the relevant documents were filed properly.					
38	Professional Development Programmes Attended by faculty					
	Observations:					
×	All the faculty members attended for Forty Three (43) different FDP's in both					
	online and offline mode.					
	a large transport of the department for having good number of					
	Remarks/suggestions: Appreciated the department for having good number of					
00000	faculty participation.					
39	Professional Development Programmes Organized for Non-Teaching Staff					
	Observations: No PDP was organized for Non-Teaching Staff in this semester.					
	1NO FOR was organized for Non-Teaching Staff in this semistre.					
	Remarks/suggestions: Advised to organize the professional development programs					
	· ·					
	for the non teaching staff in every semester.					
40	Faculty Publications Observations					
	Observations: Total Thirty Nine (39) papers were published by the faculty in different					
	international & National journals.					
	international a national journals.					
	Remarks/suggestions: Appreciated the department for publishing good number of					
	Herrian Sapposition . L.E. service					

	journals.
	ADMINISTRATIVE AUDIT
1	Classrooms
,	Observations: Eight (8) rooms were allotted for class work. All the classrooms are equipped with teaching aids such as projector, projector screen, Board and audio component.
	Remarks/suggestions:
2	Laboratories
	Observations: It is observed that laboratory files for maintenance have been updated.
	Remarks/suggestions: Advised to solve lab maintenance issues as early as possible.
3	Department Library
	Observations: Advanced learners are allowed to department library to study the academics and journals. The entry register was maintaining by the department.
	Remarks/suggestions: No maintenance issues were recorded.
4	Computing Equipment
	Observations: Total 76 computing equipments are available in the department. Remarks/suggestions: Sufficient number of computing equipment is available in the department.
5	Website Updates
	Observations: Updating regularly.
	Remarks/suggestions: Advised to update the NLTS event in the departmental window of the college website.
6	Meetings (Faculty, Cells, Committees, Student Bodies)
	Observations: Faculty meetings were conducted twice in a month. Meetings were conducted once in a month under Student Association. Class committee & Course committee meetings were organized by the department as per the schedule given in Academic Calendar.
	Remarks/suggestions: Advised to record the action taken of all the meetings.
7	General Maintenance
	Observations: One of the class room windows has to be repaired.
	Remarks/suggestions:
8	Extension Activities (Activities, Awards, Outreach)

	Observation					
	Three (3) programmes under NSS were conducted by the department.					
	1. Dr. A.P.J.ABDUL KALAM's Birthday on 15-10-2021.					
	2. HOMI	J BABA's Birthday	Event on 30-10-	2021.		
	3. ALBER	RT EINSTEIN's Birth	nday on 14.03.20	22.		
		/suggestions: Appre	eciated the depo	artment for condu	cting good number	
9		Frievance Redressal				
	Observati	ons:				
		vance was recorded a	nd resolved in th	nis semester.		
	Remarks	suggestions: Congre	atulations to t	the Departmental	class committee	
		to be a great help in				
10	Alumni(D	ata Updates, Visits, B	enefits Derived,	Alumni Meets)		
	Observati					
	Alumni m	eet was conducted or	n 08.01.2022.			
	Remarks/	'suggestions: Institut Iber of alumni were a	ional & departm	ental Alumni meet eracted with their	was organized and juniors.	
11	Any othe		· · · · · · · · · · · · · · · · · · ·			
		ions:				
		/suggestions:				
12	I teorescoorgeenticox	nce (Final-End Semest			 Detained	
	Year	No of Students	Promoted	Condoned	107 00 2 200 1 May 1 Table (2000) 100	
	II/I	66	61	8	5	
	III/I	108	103	7	5	
	IV/I	115	109	4	6	
	Observations:					
	For every 15 days attendance calculation was done, information to parents over					
	phone, mentor counseling to attendance shortage students all such information is					
	maintained in the file.					
		. /	a	tive follow up to n	reduce the shortone	
		s/suggestions: Advi	sed to do Etted	Tive tollow up to r	educe the shortage	
	of attendance.					

Section-3: Overall Observations and Recommendations

IQAC team has conducted periodical verification of various aspects pertaining to activities of entire semester. Find the following overall observations and recommendations for your department.

- 1) Suggested to complete the syllabus as per syllabus completion targets.
- 2) Advised to upload the course contents in Moodle before the starting of the semester
- 3) Suggested to conduct more certificate and value added courses for the students
- 4) Advised to conduct more guest lectures by eminent speakers.
- 5) Advised to organize more industrial visits for all class students.
- 6) Advised to conduct workshops/ seminars to the students under each MoU in the coming semester
- 7) Advised to conduct training sessions on Python programming.
- 8) Advised to organize career counselling programmes in the department for student's bright career.

Please make sure that future non-conduct or short comings are not repeated in this manner.

Action Taken for previous Academic Administrative Audit (AAA):

1. Suggested to organize the programs for not attained COs in coming semesters.

Organized the programs for the courses which are not attained their target level.

2. <u>Advised to conduct workshops/ seminars to the students under MoU in the coming semester:</u>

Conducted programmes in association with the industries having MOU with the department.

3. Suggested to invite companies offer high package:

Students got placements with good package.

4. Advised to plan alumni meet in the upcoming semester:

Alumni meet was organized by the department in this semester.

1. Signature:

(Name: Du Avs Po Asy)

3. Signature: ____Continue

(Name: Mr. N. Santhi Kymori

2. Signature:

(Name: ____). (rewindy)

(Name: Dr. P. Pendel a) el