NARAYANA ENGINEERING COLLEGE::NELLORE

AUTONOMOUS

IQAC Internal Quality Assurance Cell

Date: 04.10.2021

Internal
Academic and Administrative Audit
For
Semester- I & II, AY: 2020-2021

Academic and Administrative Audit report for the academic year 2020-21, semester I & II 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	Computer Science and Engineering		
Date of Audit	03.10.2021		
Academic year	2020-21	Semester	I & II
Audit Team			
Sl.No	Name	Designation	Department
1.	Dr AVS Prasad	Professor	CE
2.	Dr R Gayathri	Professor	ECE
3.	Mrs N Santhi Kumari	Assistant Professor	EEE
4.	Dr P Penchalaiah	IQAC Coordinator	CSE

Name of the Head of the Department		Dr. C Rajendra				
Mail ID	hodcse@necn.ac.in		Mobile No		7013372266	
Sl. No	Program offered	Strength				
		I	II	III	IV	Total
1	B.Tech I SEM	193	133	124	119	569
2	B.Tech II SEM	192	131	122	118	563

Section-2: Aspects, Observations, Remarks/Suggestions

	ACADEMIC AUDIT
Sl. No	**Aspects/Activities – Observations – Remarks/Suggestions**
1	**Academic Calendar- Implementation**
	Observations: The department prepares its own academic event calendar per semester in accordance to JNTUA schedules and has been following strictly the changes in JNTUA Calendar due to Covid-Pandemic. For I B.Tech I & II semesters Autonomous Academic calendars were prepared and conducted all exams and events specified in calendars. Remarks/suggestions: As per academic calendar, classes were conducted online & offline smoothly and activities were conducted with some deviation due to Covid-19.
2	**Syllabus coverage**
	Observations: It was observed that syllabus coverage was verified based on syllabus completion targets in online once in two weeks. Few subjects were deviated from the schedule due to health issues of faculty. Remarks/suggestions: The syllabus was completed in-time by taking extra classes for some subjects.
3	**Moodle Upload**
	Observations: College Learning Management System (LMS) was extensively used by both faculty & students for question banks of assignments and Mid-term examinations. Remarks/suggestions: Appreciation to Moodle coordinator for extensive use of Moodle.
4	**Course files**
	Observations: Department is maintaining course files for all individual subjects of the respective regulations. Remarks/suggestions: CAT & attainment sheets are yet to be filed for some courses.
5	**Mapping of COs and POs/PSOs**
	Observations: COs of R-20 Regulation courses were defined and CO-PO & PSOs mapping was done and filed properly. Remarks/suggestions: OBE coordinator was suggested to take necessary actions for verification of action verb & learning statement of COs of all the subjects.
6	**CO Attainment & PO Attainment**
	Observations: 1. CO Attainments of 2019-20 I & II semesters and 2020-21 I semester was done and not attained COs were listed.

		2. PO Attainment for 2016-20 & 2017-21 batches was done. Remarks/suggestions: Suggested to list the action taken for not attained POs.
7	**ICT usage**	
		Observations: The department was practicing the blended teaching learning methods implemented during the pandemic like ICT usage, online classes, assignments for students etc for effective lecture delivery and making student engaged. Remarks/suggestions: Appreciated the department for improvement in ICT usage compared to last semester.
8	**Quality of Question Papers**	
		Observations: The department is conducting Internal question paper quality verification before the commencement of the mid examinations. Remarks/suggestions: Advised to verify the question paper quality atleast three days in prior to mid examination.
9	**Evaluation of Answer Scripts**	
		Observations: Evaluation of all assignment & Mid-term answer scripts was done and marks were posted after circulating among students. Remarks/suggestions: Advised to evaluate the answer scripts within three days of completion of the examination.
10	**Slow and Advanced Learners**	
		Observations: Based on the result analysis up to previous semester, the students were divided into slow learners & advanced learners for two semesters and the lists were filed. Remarks/suggestions: Advised to send the advanced learners list to all the advanced learner activities in-charges for their reference.
11	**Remedial Classes**	
		Observations: It was observed that no remedial classes were conducted due to pandemic for AY 2020-21. Remarks/suggestions: -------
12	**Remedial Coaching**	
		Observations: It is observed that no remedial coaching was arranged due to pandemic. Remarks/suggestions: All the related documents are maintaining properly.

13	**Guest Lectures**
	Observations: Organized five guest lectures on 1. "IBM Call for Code" by Mr. Yuktech.C, Developer IBM Hyderabad on 24-06-2021 . 2. ."Industrialization Program" by Mr.Vijay Bhasker Varanasy, Senior Solution Architect, Fujitsu Consulting India Pvt. Ltd, Hyd on 05-06-2021. 3. " Course Training – OOPS & UML " by AVS Bhaskar, Application Development Senior Analyst, Accenture,Bangalore. on 8-8-2020. 4. "Data Analytics" by D. Anil kumar, Assoc. Tech Lead Emids, Banglore on 20-02-2021. 5. " Awareness Program Latest Developments in the IT Industry" by Ms. Abhinaya Vishnu, Sr. Software Engineer Google, Hyderabad on 12-02-2021. 6. "Software Engineering" by T. Bharat Kumar, Senior ETL Developer for Data Ware House TCS , Connecticut, USA. from 29-07-21 To 31-07-2021. 7. "Design Patterns" by D. Anil Kumar, Associate Technical Lead, Emids Technologies, Bangalore. from 24/07/2021 to 31/07/2021. 8. "Web & Internet Technologies" by Y. Kiran Kumar, Datadot Solutions Somajiguda, Hyderabad. from 31/07/2021 To 07/08/2021. **Remarks/suggestions:** Appreciated the department for conducting good number of guest lectures. All the relevant documents were filed.
14	**Lecture Schedule Verification**
	Observations: It was observed that the lecture delivery was done as per the session plans of all courses. **Remarks/suggestions:** Extra classes for deviated subjects have taken to comply with the session plan.
15	**Lab Records/Manuals**
	Observations: It was observed that stock registers and lab manuals are updated. **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 not done during semester due to pandemic. Virtual labs and simulation experiments were done in online and the remaining experiments were conducted as per JNTUA schedule. **Remarks/suggestions:** ---------
17	**Students Project Evaluation and Review**
	Observations: All the project reviews including external review were conducted as per schedule in online.

		Remarks/suggestions: All the files were updated and maintaining properly.
18		**Internships**
		Observations: Seventy (70) no. of students have completed their internship at four different companies in online mode. Remarks/suggestions: Due to pandemic, most of the companies were not allowed students to do internship physically.
19		**Partial Delivery by Industrial Experts**
		Observations: There was six partial deliveries by industry experts 1. Software Engineering for II B.Tech/ II Sem students by T. Bharath Kumar, Sr. ETL Developer, IT Analyst, TCS. 2. OOPJ for II B.Tech/ II Sem students by Mr D Anil Kumar, Associate Tech Lead, EMIDs, Bangalore. 3. Linux Environment System for III B.Tech/ II Sem students by A. Chaitanya Reddy Tech Lead Delloite India, Hyderabad. 4. Cyber Security for IV B.Tech/ II Sem by K. Suresh, Senior Analyst, IBM, Chennai 5. Web and internet Technologies for III B.Tech/I Sem by Mr. Y Kiran Kumar, Datadot solutions, Hyderabad. 6. Design Patterns for III B.Tech/ II Sem students by Mr D Anil Kumar, Associate Tech Lead, EMIDs, Bangalore. Remarks/suggestions: All the relevant documents were filed properly.
20		**Adjunct Faculty**
		Observations: Mr. D. Anil kumar, Assoc. Tech Lead, Emids, Bangalore have taken 1. Object Oriented Programming Through Java course for II CSE Students in SEM-I 2. Design Patterns course for II CSE Students in SEM-I 3. Project Work for IV CSE Students in SEM-II Remarks/suggestions: All the relevant documents were filed properly.
21		**Topic/Content Beyond Syllabus**
		Observations: Three (3) topic/content beyond syllabus classes were conducted for this semester. 1."ARM Instruction Version4" by Dr. K. Murali, Professor, Dept of ECE, NECN on 17/02/2021. 2. " Understanding the role of XAP Files" by Mrs. D. Saritha Associate Professor Dept of CSE, NECN on 19/08/2020. 3. " Real time Operating Systems" by Dr. Padugupati Penchalaiah, Professor, Dept. Of CSE, NECN on 18/09/2020. 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 and second semesters of 2020–21.	
	2. The department's Technical Magazine for I & II semester of 2020–21 has been published.	
	Remarks/suggestions: Advised to place the newsletter and technical magazines in the department library.	
23	**Student Feedback on TLP**	
	Observations:	
	Student feedback on TLP Status:	

Academic Year	Semester	Online	Offline
2019–20	II	YES	NO
2020–21	I	NO	NO
2020–21	II	NO	NO

	Remarks/suggestions: As per above status the student feedback on TLP has done.	
24	**Feedback on Curriculum**	
	Observations:	
	It was observed that feedback on curriculum was collected from stake holders i.e., students, faculty, employers & alumni and submitted the same to IQAC for the analysis.	
	Remarks/suggestions: Work done is appreciable.	
25	**Value added courses / Certificate Courses**	
	Observations:	
	Conducted three Value Added Courses on	
	i) "ORACLE database and Applications" by ORACLE Academy, Banglore from 18.02.2021 to 20.02.2021	
	ii) "Ethical Hacking" from 06.09.2021 to 10.09.2021	
	iii) "Deep Learning for computer vision" from 25.01.2021 to 30.01.2021	
	Remarks/suggestions: Suggested to encourage students to do certificate courses. All the documents related to Value added Course were filed properly.	
26	**Industrial Visits**	
	Observations:	
	No industrial visit was organized by the department because industries didn't allow students to do internship in pandemic.	
	Remarks/suggestions: ----------	
27	**MOUs**	

	Observations: Department has 6 active MOU's. Three activities were conducted under 8 MoU's. **Remarks/suggestions:** Appreciated for conducting good number of workshops/ seminars to the students under each MoU.
28	**Professional society activities**
	Observations: Six Programs were organized under professional society activities 1. One Day Workshop on "Computer Network Technologies" by CSI on 18-12-2021 2. One Day Seminar on "Software Technologies". by CSI on 07-01-2022 3. National Level Technical Symposium- "AROHAN 2021" by CSI on 11-03-2022 4. A Two-Day Workshop on "Cyber Physical systems". by IEEECS on 28 & 29-12-2021 5. National Level Conference – "Technologies and Trends" by IEEECS on 06-04-2022 6. A One-Day Expert Lecture on "Block chain Technologies". by IE on 07-04-2022 **Remarks/suggestions:** Appreciated the department for conducting good number of activities by professional society bodies.
29	**Industry Institute Interaction Cell Activities**
	Observations: Four programmes were conducted by IIIC. 1. Workshop on Complete oracle SQL Bootcamp by Mr. D Madhu Babu Senior S/E from 26-06-2021 To 28-06-2021. 2. Training Classes by Mr. D. Kanthi Kiran & Mr. S. Padma Kiran Manager, New Edge Overseas Consultancy Private Limited on 7-01-21. 3. Training Classes by Mr. Amitesh Reddy Matta Senior Trainer, Code Tantra Tech Solutions Pvt. Ltd on 9-7-2021 4. Internship Program by Bala Maheshwar Software Engineer, Brainovision Solutions Pvt.Ltd from 15-07-2021 To 25-08-2021. **Remarks/suggestions:** Appreciated for conducting seminars under IIIC cell even in pandemic.
30	**Student Association Activities**
	Observations: No activities were organized by the department under student association due to pandemic. **Remarks/suggestions:** ------
31	**Student External Participation**
	Observations: Fifty Eight (58) no. of students have participated in events like PPT, Poster Presentation, Technical Quiz, Coding, Technical Treasure hunt, fashion show, etc…. and secured 16 prizes in various events. **Remarks/suggestions:** All sample certificates were filed and are advised to post the list of

		prize winners in all student whatsapp groups.
32	**Workshops/Seminars/Conferences/NLTS Etc., Conducted**	
	Observations: Seven workshops & Twelve Webinars were organized by the department. Remarks/suggestions: All relevant documents were filed.	
33	**Placement Training (Internal & External)**	
	Observations: Placement related training programmes on Aptitude, Verbal, Technical, coding on C and JAVA were organized by the department and placement cell. Remarks/suggestions: Suggested to invite companies that offer high package.	
34	**Placements**	
	Observations: Seventy Five (75) no. of students got placed in different companies. Remarks/suggestions: Appreciated the department for getting the better placements than previous academic years.	
35	**Counseling/Mentoring**	
	Observations: It was observed that counseling was done for every fortnight by the mentors on academic issues in online. Personal counseling has been done for few students. Remarks/suggestions: Appreciated The procedure that was implemented.	
36	**Career Counseling**	
	Observations: Fifteen (15) career counseling programmes were organized by the department in both online & off line modes. Remarks/suggestions: Appreciated for organizing good number of career guidance programs for the students.	
37	**Professional Development Programmes Conducted For Faculty**	
	Observations: Two Professional development programmes were organized for faculty 1. "FDP on Techniques in Deep Learning" from 30-03-2021 To 03-04-2021. 2. "National Level One Week FDP on Multi Technology" from 28-06-2021 To 03-07-2021. Remarks/suggestions: Appreciated for conducting two Faculty Development programmes.	
38	**Professional Development Programmes Attended by faculty**	
	Observations: Total 23 faculty members attended for different FDP's in both online and offline.	

	Remarks/suggestions: Appreciated the department for having good number of faculty participation.	
39	**Professional Development Programmes Organized for Non-Teaching Staff**	

	Observations:
	Two Professional development programmes were organized for non-teaching staff
	    1. "A One Day Training Program on Google Apps" on 21-11-2020.
	    2. "A One Day Awareness Program on Azure Admin" on 28-08-2021.
	
	Remarks/suggestions: All the relevant documents were filed properly.	

40	**Faculty Publications**	
	Observations: Total Thirty Eight (38) papers and One(1) book were published by the faculty in different international & National journals. Remarks/suggestions: Advised the department to encourage the faculty to publish more books & book chapters.	
41	**Funded Projects and consultancy**	
	Observations: Four funded projects were sanctioned by 1. Online Exam Course Content Development system for 10 Months for CodeTantra. 2. Online Exams for 6 Months for TCS iON. 3. Training Programme on JSP 6 Months Rao's Degree College, Nellore. 4. Training on Fundamentals of Computer and C Programming for 2 Months for Sri Chaitanya School, Nellore Remarks/suggestions: Appreciated for getting good number of funded projects.	
	ADMINISTRATIVE AUDIT	
1	**Classrooms**	
	Observations: Nine (9) 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 Two hundred and Eighty Six (286) 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: ------
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. Remarks/suggestions: Advised to record the minutes of meeting of professional society and coding club.
7	**General Maintenance**	
		Observations: No maintenance indent have been raised and completed. Remarks/suggestions: Advised to maintain the separate file and update the same periodically.
8	**Extension Activities (Activities, Awards, Outreach)**	
		Observations: Conducted thirty five (35) programmes under NSS by the department in the academic year 2020-21 in both online & offline modes. Remarks/suggestions: Appreciated the department for conducting more service oriented programmes.
9	**Student Grievance Redressal**	
		Observations: There are no grievances. Remarks/suggestions: -----------
10	**Alumni(Data Updates, Visits, Benefits Derived, Alumni Meets)**	
		Observations: No alumni visits and alumni meets were conducted due to pandemic. Remarks/suggestions: Advised to plan alumni meet in the upcoming semester.

11	Any other			
	Observations: ----------------			
	Remarks/suggestions:			
12	**Attendance (Final-End Semester)**			

	Year	No of Students	Promoted	Condoned	Detained
	II/I	133	131	16	2
	III/I	124	124	9	0
	IV/I	119	117	0	2
	II/II	131	131	1	0
	III/II	122	122	1	0
	IV/II	118	118	5	0

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.

Remarks/suggestions: Advised to do Effective follow up to reduce 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 encourage students to do certificate courses

2) Suggested to invite companies that offer high package

3) Advised the department to encourage the faculty to publish more books & book chapters.

4) Advised to record the minutes of meeting of professional society and coding club.

5) Advised to plan alumni meet in the upcoming semester.

Please ensure such or similar Non conduction/short comings do not recur in future.

Action Taken for previous Academic Administrative Audit (AAA):

1. Advised to conduct more guest lecturers to the students in every semester by inviting eminent speakers from industries, organizations or institutions.

Conducted eight(8) guest lectures by eminent speakers from industries, organizations and institutions.

2. Advised to conduct tutorial classes to all mathematical oriented subjects.

Because of pandemic, no tutorial classes were conducted.

3. Advised to organize the industrial visits for the students atleast one per every semester for all classes.

No industrial visits were arranged due to pandemic.

4. Encourage all the faculty members to attend more workshops / FDP.

Faculty attended very good number of FDPs and workshops in both online and offline.

5. The faculty are advised to publish research papers and to participate in R&D related activities.

Thirty eight (38) no. of papers & one book were published by the faculty.

6. Advised to organize more career guidance programs for the students.

Fifteen (15) career guidance programs were organized by the department.

REMARKS: Some of the suggested actions were unable to complete because of pandemic.

1. Signature: _____   2. Signature: _____

(Name: Dr Avs Pyasm)   (Name: _____ (Ccqayalti̇rr).

3. Signature: _____   4. Signature: _____

(Name: N- santhi Kumari)   (Name: Dr P. Penehal)