

Sri Sivasubramaniya Nadar College of Engineering (Autonomous)

Old Mahabalipuram Road, Kalavakkam -603110

IQAC -External Audit

Date of the Audit: 03.11.2023

List of External Auditors

S.No	Name	Designation	Institution	Department Assigned
1	Capt. Dr. A. Suresh Babu	Professor	Department of Manufacturing Engineering, College of Engineering, Guindy	Mechanical Engineering
2	Dr. Kaviyarasu A	Assistant professor	Deputy Director IQAC Department of Aerospace Engineering MIT, Chromepet,	MBA Department
3	Dr. Rajesh Kanna B	Associate Professor & HoD	Rajiv Gandhi National Institute of Youth Development (RGNIYD), Sriperumbudur	Computer Science Engineering
4	Dr. M. Latha Kumari	Assistant Professor	ETHIRAJ COLLEGE FOR WOMEN 70, Ethiraj Salai, Chennai.	Humanities and Sciences
5	Dr. V. Prasanna Kumari	Professor	IQAC Coordinator, Rajalakshmi Engineering College, Tandalam, Chennai	Information Technology
6	Dr P.Prakash	Professor	Department of Electronics and Communication Engineering MIT, Chromepet, Chennai	Bio-Medical Engineering
7	Dr.Nakeeran	Professor	School of Electronics and Technology, Pondicherry University	Electrical and Electronics Engineering
8	Dr. Manoj kumar Rajagopal	Professor	Vellore Institute of Technology, Chennai	Electronics and Communication Engineering
9	Dr. R M Hariharan	Assistant Professor	Department of Physics and Nanotechnology, SRM University, Kattankulathur - Chennai	Chemical Engineering
10	Dr. S. Gopinath	Professor	Department of Mechanical Engineering, Sri Venkateswara College of Engineering, Chennai	Civil Engineering



Dr. N. VENKATESWARAN, Ph.D.
Professor - *co-ordinator IQAC*
Department of Biomedical Engineering
SSN College of Engineering
Rajiv Gandhi Salai (OMR)
Kalavakkam, Tamilnadu, India - 603 110

SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING
Rajiv Gandhi Salai (OMR), Kalavakkam – 603 110, TN, India

NAAC Academic Audit

Date: 03.11.2023

IQAC - External Audit

SCHEDULE

Time	Activity	In charge
08:30am – 09:00am	Receiving the Expert members and Breakfast	IQAC Coordinator
09:00am – 09:20am	Meeting with Principal/ Vice Principal Conference Hall (Admin Block)	IQAC Coordinator
09:20am – 09:30am	To reach to the respective departments	Dept. IQAC Coordinator
09:30am – 09:45am	Meeting with the department team	HoD and team
09:45am – 10:15am	Department Lab Visits	Respective Lab In-charges
10:15am – 10:30am	Tea break	
10:30am – 12:15 pm	Department Files verification	Dept. IQAC Coordinator
12:15pm - 01:15pm	Lunch	
01:15pm - 02:15pm	Department Files verification (Cont..)	Dept. IQAC Coordinator
02:15pm - 02:30pm	Report Preparation	Expert Member
02:30pm - 02:45pm	Feedback of the department - Meeting with HoD and Faculty	HoD, All Staff members
02:45pm - 03:30pm	Exit feedback	IQAC Coordinator

Prepared by
Jubaly
Co-ordinator - IQAC



Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam - 603110
Academic Audit Form - 2022 -2023

Department Information		
Name of the Department		
No. of Full-time permanent Faculty		
Academic Programmes in the Department	UG	
	PG	
	PhD	
Student Strength Program wise	UG	
	PG	
No. of PhD Students	FT	
	PT	
Name, designation, and affiliation of the External Expert		
Signature of the External Expert		
- The External Expert can grade each parameter with points 0,1,2,3,4 based on assessment. - Wherever applicable, ratings may be based on the data available for the last academic years.		

Criterion 1: Curricular Aspects								
Sl. No.	Scope of Audit	Dept Data	Rating					
			4	3	2	1	0	
1.1 Curriculum Design and Development								
1.1.1	Curricula is relevant to the local / national / regional / global developmental needs							
1.1.2	Adequacy / frequency of syllabus revision carried out							
1.1.3	Number of courses that focus on employability / entrepreneurship / skill development to the total number of courses							
1.2 Academic Flexibility								
1.2.1	Number of new courses introduced to the total number of courses							
1.2.2	Implementation of CBCS / elective courses in all the programs offered in the department							
1.3 Curriculum Enrichment								
1.3.1	Percentage of Courses relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics in the Curriculum							
1.3.2	Number of value-added courses conducted during the year							
	Number of NPTEL-SWAYAM courses students have enrolled and successfully completed							
1.3.3	Percentage of Student enrolment in the value-added courses and NPTEL-SWAYAM courses							
1.3.4	Percentage of students undertaking field projects							
	Percentage of students undertaking internships							
1.4 Feedback System								
1.4.1	System of feedback from 1) Students, 2) Teachers, 3) Employers, 4) Alumni 5) Parents, for design and review of syllabus							
1.4.2	System of feedback collection and action taken							
Criterion 2: Teaching- Learning and Evaluation								
2.1 Student Enrolment and Profile								
2.1.1	Percentage of students from other States in all the programs							
2.1.2	Ratio of students to mentors							
2.1.3	Student - Full time teacher ratio							
2.2 Catering to Student Diversity								
2.2.1	Number of special programs organized for advanced learners							
	Number of special programs (Remedial / Bridge courses) organized for slow learners							

Sl. No.	Scope of Audit	Dept Data	Rating				
			4	3	2	1	0
2.2.2	Evidence of mentoring process to ensure motivation of slow learners						
2.2.3	Percentage of differently abled students (Divyangjan) on roll.						
2.3 Teaching-Learning Process							
2.3.1	Course files and Teaching plans are available with faculty members						
2.3.2	Use of Learning Management Systems (LMS) and e-resources (Lecture Notes/ PPTs etc.)						
2.4 Teacher Profile and Quality							
2.4.1	Percentage of full-time faculty against sanctioned posts						
2.4.2	Percentage of full-time faculty with Ph.D.						
2.4.3	Average teaching experience of full-time teachers (in years)						
2.4.4	Percentage of teachers received awards, recognition, fellowships at State, National, International level						
2.4.5	Percentage of full-time teachers from other States in the department						
2.5 Evaluation Process and Reforms							
2.5.1	Question Paper explores all the elements of Blooms Taxonomy						
2.5.2	Evaluation process is in accordance with the course objectives.						
2.5.3	Percentage of student grievances (revaluation applied) about evaluation						
2.5.4	Integration of IT in the Examination process						
2.6 Student Performance and Learning Outcomes							
2.6.1	POs, PSOs and COs for all Programs offered by the department are stated and displayed, communicated to teachers and students						
2.6.2	CO-PO attainment is computed for the 2022-2023 passed out Batch and the gap analysis is performed for the courses of the department						
2.6.3	Involvement of students in the learning/training initiatives by Government and corporate bodies.						
2.6.4	Pass percentage of students completed the program in 2022-2023						

Sl. No.	Scope of Audit	Dept Data	Rating				
			4	3	2	1	0
2.7 Student satisfaction Survey							
2.7.1	Assessment of the student satisfaction survey on teaching learning process.						
Criterion 3: Research, Innovations and Extension							
3.1 Promotion of Research and Facilities							
3.1.1	Policy for promotion of research in the department						
3.1.2	Faculty received SSN internal seed funding for research during the year						
3.1.3	Number of teachers awarded international fellowship for advanced studies/research during the year						
3.1.4	Assessment on the availability of Central facilities within the department for research.						
3.2 Resource Mobilization for Research							
3.2.1	Number of teachers having sponsored research projects						
3.2.2	Total Grants received through research projects sponsored by the government and non-government sources (in Lakhs INR)						
3.2.3	Percentage of teachers recognized as research guides						
3.3 Innovation Ecosystem							
3.3.1	Assessment on the Participation of the department in the innovations and Incubation centers of the institution.						
3.3.2	Number of Workshops/ seminars conducted on Intellectual Property Rights (IPR) and Industry - Academia Innovative practices.						
3.3.3	Number of awards for innovation/research won by teachers/ research scholars/students during the year.						
3.3.4	Number of start-ups incubated on campus from the department.						
3.4 Research Publications and Awards							
3.4.1	Average number of Research Scholars per Research Guide in the Department						
3.4.2	Number of research papers published per faculty in WOS/Scopus Journals						
3.4.3	Number of books and chapters in edited volumes published						
3.4.4	Bibliometrics of the publications during the last five years based on average citation index in Web of Science / Scopus						

Sl. No.	Scope of Audit	Dept Data	Rating				
			4	3	2	1	0
3.4.5	Total number of Ph.Ds awarded during the year						
3.4.6	Number of Patents/copyright published/awarded						
3.5 Consultancy							
3.5.1	Revenue generated from consultancy and corporate training (in Lakhs INR)						
3.5.2	Total value of revenue shared to the faculty during the year by way of consultancy activities by faculty.						
3.5.3	Assessment on the efforts of the department to publicize the available expertise for consultancy						
3.6 Extension Activities							
3.6.1	Number of students participated in the extension activities of neighborhood community						
3.6.2	Number of students participated in outreach programs such as Swachh Bharat etc., in collaboration with industry and NGOs through NSS/NCC/Red cross/YRC etc.						
3.6.3	Number of courses integrated with outreach activity (Sensitizing students to social issues)						
3.7 Collaboration							
3.7.1	Number of Collaborative activities (research, faculty exchange, Student exchange)						
3.7.2	Number of industry link (for internship, on the- job training, project work, sharing of research facilities etc.)						
3.7.3	Number of MoUs with other Institutions, industries, corporate houses etc. during the year						
Criterion 4: Infrastructure and Learning Resources							
4.1 Physical Facilities							
4.1.1	Assessment on the adequacy of department facilities for teaching – learning, (classrooms, laboratories, computing equipment, etc.)						
4.1.2	Assessment on promotion of cultural activities and yoga in the department						
4.1.3	Adequacy of classrooms and seminar halls with ICT – enabled facilities such as smart class, LMS, etc.						
4.1.4	Percentage of Department Budget allocation for infrastructure augmentation.						
4.2 Library as a Learning Resource							
4.2.1	Availability of remote access to e-resources of the library						

Sl. No.	Scope of Audit	Dept Data	Rating				
			4	3	2	1	0
4.3 IT Infrastructure							
4.3.1	Frequency of updates of IT facilities including Wi-Fi						
4.3.2	Student - Computer ratio in the department						
4.3.3	Adequacy of bandwidth available of internet connection						
4.3.4	Assessment on facilities for e-content development						
Criterion 5: Student Support and Progression							
5.1 Student Support							
5.1.1	Percentage of students benefited by scholarships provided by the institution						
5.1.2	Number of programs organized for students such as Guidance for competitive examinations, Career Counselling, etc.,						
5.1.3	Percentage of students benefited by Guidance for competitive examinations, Career Counselling, etc.,						
5.2 Student Progression							
5.2.1	Percentage of placement of the outgoing Batch (2019 - 2023)						
5.2.2	Percentage of student progression to higher education and as entrepreneurs (2019 – 2023 Batch)						
5.2.3	Number of Students qualifying in state/ national/ international level examinations during last year						
5.2.4	Number of students as members of Professional societies/chapters						
5.3 Student Participation and Activities							
5.3.1	Number of awards/medals received by students for outstanding performance in sports/cultural activities at national/international level						
5.3.2	Evidence of the presence of an active Student Council & representation of students on academic & administrative committees						
5.4 Alumni Engagement							
5.4.1	Number of Alumni invited for presentations (knowledge sharing, Department activities etc.)						
5.4.2	Number of Alumni participated in the alumni Association meetings held						
	Alumni financial contribution (in Lakhs INR)						



Department:

Academic Year:
2022 – 2023

External Audit: IQAC

Overall Assessment

Strengths of the Department

Weaknesses of the Department

Best practices followed by the Department.

Overall Report and Recommendations for Improvement

Signature of the External Expert

Sri Sivasubramaniya Nadar College of Engineering (Autonomous)
Old Mahabalipuram Road, Kalavakkam -603110
IQAC – External Audit – AY 2022-23
Rubrics for Assessment

Criterion 1: Curricular Aspects					
M.No	Scope of Audit	4	3	2	1
1.1 Curriculum Design and Development					
1.1.1	Curricula is relevant to the local / national / regional / global developmental needs	Qualitative Assessment			
1.1.2	Adequacy / frequency of syllabus revision carried out	Score = No. of revisions per programme in the last five years			
1.1.3	Number of courses that focus on employability / entrepreneurship / skill development to the total number of courses	>30%	20 to 30%	10 to 20%	5 to 10%
1.2 Academic Flexibility					
1.2.1	Percentage of new courses introduced to the total number of courses	>20% -	15 to 20%	10 to 15%	5 to 10%
1.2.2	Implementation of CBCS / elective courses in all the programs offered in the department	Qualitative Assessment			
1.3 Curriculum Enrichment					
1.3.1	Percentage of Courses relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics in the Curriculum	>15%	10 to 15%	5 to 10%	1 to 5%
1.3.2	Number of value-added courses conducted during the year	Score = 2 * No. of Value-Added Courses of at least 30 contact hours conducted			
	Number of NPTEL-SWAYAM courses students have enrolled and successfully completed	>10	7 to 10	5 to 7	1 to 5
1.3.3	Percentage of Students enrolment in the value-added courses and NPTEL-SWAYAM courses	>40%	30 to 40%	20 to 30%	10 to 20%
1.3.4	Percentage of students undertaking field projects	>20%	15 to 20%	10 to 15%	5 to 10%
	Percentage of students undertaking internships	>60%	40 to 60%	20 to 40%	1 to 20%
1.4 Feedback System					
1.4.1	System of feedback from 1) Students, 2) Teachers, 3) Employers, 4) Alumni 5) Parents, for design and review of syllabus	Score = No. of stakeholders from whom feedback is collected			
1.4.2	System of feedback collection and action taken	Feedback collected – 1 “& analysed – 2 “& action taken – 3 “& implemented in curriculum design - 4			
Criterion 2: Teaching- Learning and Evaluation					
2.1 Student Enrolment and Profile					
2.1.1	Percentage of students from other States in all the programs	>15%	10 to 15%	5 to 10 %	1 to 5%
2.1.2	Ratio of students to mentors	20:1 - 4	30:1 - 3	50:1 - 2	60:1 - 1
2.1.3	Student - Full time teacher ratio	15:1 - 4	20:1 - 3	25:1 - 2	30:1 - 1
2.2 Catering to Student Diversity					
2.2.1	Number of special programs organized for advanced learners	Qualitative Assessment			
	Number of special programs (Remedial / Bridge courses) organized for slow learners	Qualitative Assessment			
2.2.2	Evidence of mentoring process to ensure motivation of slow learners	Qualitative Assessment			
2.2.3	Percentage of differently abled students (Divyangjan) on roll.	>5 %	< 5 %	-	-
2.3 Teaching-Learning Process					
2.3.1	Course files and Teaching plans are available with faculty members	Qualitative Assessment			
2.3.2	Use of Learning Management Systems (LMS) and e-resources (Lecture Notes/ PPTs etc.)	Qualitative Assessment			
2.4 Teacher Profile and Quality					
2.4.1	Percentage of full-time faculty against sanctioned posts	>=90%	80 to 89%	70 to 79%	50 to 69%
2.4.2	Percentage of full-time faculty with Ph.D.	>=70%	60 to 69%	50 to 59%	40 to 49 %
2.4.3	Average teaching experience of full-time teachers (in years)	>=15	12 to 15	9 to 12	6 to 9
2.4.4	Percentage of teachers received awards, recognition, fellowships at State, National, International level	>15%	10 to 15%	5 to 10 %	1 to 5%
2.4.5	Percentage of full-time teachers from other States in the department	>15%	10 to 15%	5 to 10 %	1 to 5%
2.5 Evaluation Process and Reforms					
2.5.1	Question Paper explores all the elements of Blooms Taxonomy	Qualitative Assessment			
2.5.2	Evaluation process is in accordance with the course objectives.	Qualitative Assessment			

M.No	Scope of Audit	4	3	2	1
2.5.3	Percentage of student grievances (reevaluation applied) about evaluation	< 1%	1 to 5 %	5 to 10 %	10 to 15 %
2.5.4	Integration of IT in the Examination process	Qualitative Assessment			
2.6 Student Performance and Learning Outcomes					
2.6.1	POs, PSOs and COs for all Programs offered by the department are stated and displayed, communicated to teachers and students	Qualitative Assessment			
2.6.2	CO-PO attainment is computed for the 2022-2023 passed out Batch and the gap analysis is performed for the courses of the department	Qualitative Assessment			
2.6.3	Involvement of students in the learning/training initiatives by Government and corporate bodies.	Qualitative Assessment			
2.6.4	Pass percentage of students completed the program in 2022- 2023	>= 90%	80 to 89%	70 to 79%	60 to 69%
2.7 Student satisfaction Survey					
2.7.1	Assessment of the student satisfaction survey on teaching learning process.	Qualitative Assessment			
Criterion 3: Research, Innovations and Extension					
3.1 Promotion of Research and Facilities					
3.1.1	Policy for promotion of research in the department	Qualitative Assessment			
3.1.2	Faculty received SSN internal seed funding (in lakhs) for research during the year	>20 Lakhs	10 to 20 lakhs	5 to 10 lakhs	1 to 5 lakhs
3.1.3	Number of teachers awarded international fellowship for advanced studies/research during the year	>=5%	4 to 5%	2 to 4 %	0 to 2%
3.1.4	Assessment on the availability of Central facilities within the department for research.	Qualitative Assessment			
3.2 Resource Mobilization for Research					
3.2.1	Number of teachers having sponsored research projects	>= 30%	20 to 30%	10 to 20 %	5 to 10%
3.2.2	Total Grants received through research projects sponsored by the government and non-government sources (in Lakhs INR)	>50 Lakhs	40 to 50 lakhs	20 to 40 lakhs	10 to 20 lakhs
3.2.3	Percentage of teachers recognized as research guides	>= 80%	60 to 80%	40 to 60 %	20 to 40%
3.3 Innovation Ecosystem					
3.3.1	Assessment on the Participation of the department in the innovations and Incubation centers of the institution.	Qualitative Assessment			
3.3.2	Number of Workshops/ seminars conducted on Intellectual Property Rights (IPR) and Industry - Academia Innovative practices.	>10	8 to 10	6 & 8	4 & 6
3.3.3	Number of awards for innovation/research won by teachers/ research scholars/students during the year.	>5	4 & 5	2 & 3	1 & 2
3.3.4	Number of start-ups incubated on campus from the department.	>5	4 & 5	2 & 3	1 & 2
3.4 Research Publications and Awards					
3.4.1	Average number of Research Scholars per Research Guide in the Department	>= 6	4 & 5	2 & 3	1 & 2
3.4.2	Number of research papers published per faculty in WOS/Scopus Journals	>= 6	4 & 5	2 & 3	1 & 2
3.4.3	Number of books and chapters in edited volumes published	>=4	3	2	1
3.4.4	Bibliometrics of the publications during the last five years based on average citation index in Scopus	Average >=8	Average 6-8	Average 3-6	Average 1-3
	Bibliometrics of the publications during the last five years based on average citation index in Web of Science				
3.4.5	Total number of Ph.Ds awarded during the year	>3	3	2	1
3.4.6	Number of Patents/copyright published/awarded	>3	3	2	1
3.5 Consultancy					
3.5.1	Revenue generated from consultancy and corporate training (in Lakhs INR)	>10	8 to 10	6 to 8	2 to 6
3.5.2	Total value of revenue shared to the faculty during the year by way of consultancy activities by faculty. (in Lakhs INR)	>3	2 to 3	1 to 2	<1
3.5.3	Assessment on the efforts of the department to publicize the available expertise for consultancy	Qualitative Assessment			
3.6 Extension Activities					
3.6.1	Number of students participated in the extension activities of neighborhood community	>20%	15 to 20%	10 to 15%	5 to 10%

M.No	Scope of Audit	4	3	2	1
3.6.2	Number of students participated in outreach programs such as Swachh Bharat etc., in collaboration with industry and NGOs through NSS/NCC/Red cross/YRC etc.	>20%	15 to 20%	10 to 15%	5 to 10%
3.6.3	Number of courses integrated with outreach activity (Sensitizing students to social issues)	>20%	15 to 20%	10 to 15%	5 to 10%
3.7 Collaboration					
3.7.1	Number of Collaborative activities (research, faculty exchange, Student exchange)	>=6	4 & 5	2 & 3	1 & 2
3.7.2	Number of industry link (for internship, on the- job training, project work, sharing of research facilities etc.)	>=15	12 to 15	9 to 12	6 to 9
3.7.3	Number of MoUs with other Institutions, industries, corporate houses etc. during the year	>=6	4 & 5	2 & 3	1 & 2
Criterion 4: Infrastructure and Learning Resources					
4.1 Physical Facilities					
4.1.1	Assessment on the adequacy of department facilities for teaching – learning, (classrooms, laboratories, computing equipment, etc.)	Qualitative Assessment			
4.1.2	Assessment on promotion of cultural activities and yoga in the department	Qualitative Assessment			
4.1.3	Adequacy of classrooms and seminar halls with ICT – enabled facilities such as smart class, LMS, etc.	Qualitative Assessment			
4.1.4	Percentage of Department Budget allocation for infrastructure augmentation.	>=35%	25 to 35%	15 to 25%	5 to 15%
4.2 Library as a Learning Resource					
4.2.1	Availability of remote access to e-resources of the library	Qualitative Assessment			
4.3 IT Infrastructure					
4.3.1	Frequency of updates of IT facilities including Wi-Fi	Qualitative Assessment			
4.3.2	Student - Computer ratio in the department	<=5:1	5:1 - 10:1	10:1 - 15:1	15:1 - 25:1
4.3.3	Adequacy of bandwidth available of internet connection	Qualitative Assessment			
4.3.4	Assessment on facilities for e-content development	Qualitative Assessment			
Criterion 5: Student Support and Progression					
5.1 Student Support					
5.1.1	Percentage of students benefited by scholarships provided by the institution	>=20%	15 to 20%	10 to 15%	5 to 10%
5.1.2	Number of programs organized for students such as Guidance for competitive examinations, Career Counselling, etc., 1.Soft skills 2. Language and communication skills 3. Life skills (Yoga, physical fitness, health and hygiene) 4. Awareness of trends in technology	All the above	Any 3 of the above	Any 2 of the above	Any 1 of the above
5.1.3	Percentage of students benefited by Guidance for competitive examinations, Career Counselling, etc.,	>=20%	15 to 20%	10 to 15%	5 to 10%
5.2 Student Progression					
5.2.1	Percentage of placement of the outgoing Batch (2019 - 2023)	>=80%	60 to 80%	40 to 60%	20 to 40%
5.2.2	Percentage of student progression to higher education and as entrepreneurs (2019 – 2023 Batch)	>=20%	15 to 20%	10 to 15%	5 to 10%
5.2.3	Number of Students qualifying in state/ national/ international level examinations during last year	>=1%	0.8 to 1%	0.6 to 0.8%	0.4 to 0.6%
5.2.4	Number of students as members of Professional societies/chapters	>=20%	15 to 20%	10 to 15%	5 to 10%
5.3 Student Participation and Activities					
5.3.1	Number of awards/medals received by students for outstanding performance in sports/cultural activities at national/international level	>=10	8 to10	6 to 8	2 to 6
5.3.2	Evidence of the presence of an active Student Council & representation of students on academic & administrative committees	Qualitative Assessment			
5.4 Alumni Engagement					
5.4.1	Number of Alumni invited for presentations (knowledge sharing, Department activities etc.)	>=10	8 to10	6 to 8	2 to 6
5.4.2	Number of Alumni participated in the alumni Association meetings held	Qualitative Assessment			
	Alumni financial contribution (in Lakhs INR)	>5	3 - 5	2-3	<2

Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam - 603110

Academic Audit Form - 2022-2023

Department Information		
Name of the Department	Dept. of Electrical and Electronics Engineering	
No. of Full-time permanent Faculty	28	
Academic Programmes in the Department	UG	BE (EEE)
	PG	ME (PED)
	PhD	EEE
Student Strength Program wise	UG	345
	PG	10
No. of PhD Students	FT	27
	PT	44
Name, designation, and affiliation of the External Expert	Dr. R. Nakkeeran Professor Dept. of Electronics Engg. School of Engg. & Technology Pondicherry University Pondicherry - 605 014	
Signature of the External Expert	R. Nakkeeran	
- The External Expert can grade each parameter with points 0,1,2,3,4 based on assessment. - Wherever applicable, ratings may be based on the data available for the last academic years.		

Criterion 1: Curricular Aspects									
Sl. No.	Scope of Audit	Dept Data	Rating						
			4	3	2	1	0		
1.1 Curriculum Design and Development									
1.1.1	Curricula is relevant to the local / national / regional / global developmental needs	✓	4						
1.1.2	Adequacy / frequency of syllabus revision carried out	✓	4						
1.1.3	Number of courses that focus on employability / entrepreneurship / skill development to the total number of courses	✓		3					
1.2 Academic Flexibility									
1.2.1	Number of new courses introduced to the total number of courses	✓	4						
1.2.2	Implementation of CBCS / elective courses in all the programs offered in the department	✓	4						
1.3 Curriculum Enrichment									
1.3.1	Percentage of Courses relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics in the Curriculum	✓	4						
1.3.2	Number of value-added courses conducted during the year	✓	4						
	Number of NPTEL-SWAYAM courses students have enrolled and successfully completed	✓	4	3					
1.3.3	Percentage of Student enrolment in the value-added courses and NPTEL-SWAYAM courses	✓		3					
1.3.4	Percentage of students undertaking field projects	✓	4						
	Percentage of students undertaking internships	✓	4						
1.4 Feedback System									
1.4.1	System of feedback from 1) Students, 2) Teachers, 3) Employers, 4) Alumni 5) Parents, for design and review of syllabus	✓	4						
1.4.2	System of feedback collection and action taken	✓	4						
Criterion 2: Teaching- Learning and Evaluation									
2.1 Student Enrolment and Profile									
2.1.1	Percentage of students from other States in all the programs	✓					1		
2.1.2	Ratio of students to mentors	✓	4						
2.1.3	Student - Full time teacher ratio	✓	4						
2.2 Catering to Student Diversity									
2.2.1	Number of special programs organized for advanced learners	✓	4						
	Number of special programs (Remedial / Bridge courses) organized for slow learners	✓	4						

Sl. No.	Scope of Audit	Dept Data	Rating				
			4	3	2	1	0
2.2.2	Evidence of mentoring process to ensure motivation of slow learners	✓	4				
2.2.3	Percentage of differently abled students (Divyangjan) on roll.	✓		3			
2.3 Teaching-Learning Process							
2.3.1	Course files and Teaching plans are available with faculty members	✓	4				
2.3.2	Use of Learning Management Systems (LMS) and e-resources (Lecture Notes/ PPTs etc.)	✓	4				
2.4 Teacher Profile and Quality							
2.4.1	Percentage of full-time faculty against sanctioned posts	✓	4				
2.4.2	Percentage of full-time faculty with Ph.D.	✓	4				
2.4.3	Average teaching experience of full-time teachers (in years)	✓	4				
2.4.4	Percentage of teachers received awards, recognition, fellowships at State, National, International level	✓		3			
2.4.5	Percentage of full-time teachers from other States in the department	✓		3			
2.5 Evaluation Process and Reforms							
2.5.1	Question Paper explores all the elements of Blooms Taxonomy	✓	4				
2.5.2	Evaluation process is in accordance with the course objectives.	✓	4				
2.5.3	Percentage of student grievances (revaluation applied) about evaluation	Not available					0
2.5.4	Integration of IT in the Examination process	Not available					0
2.6 Student Performance and Learning Outcomes							
2.6.1	POs, PSOs and COs for all Programs offered by the department are stated and displayed, communicated to teachers and students	✓	4				
2.6.2	CO-PO attainment is computed for the 2022-2023 passed out Batch and the gap analysis is performed for the courses of the department	✓	4				
2.6.3	Involvement of students in the learning/training initiatives by Government and corporate bodies.	✓	4				
2.6.4	Pass percentage of students completed the program in 2022-2023	✓	4				

Sl. No.	Scope of Audit	Dept Data	Rating				
			4	3	2	1	0
2.7 Student satisfaction Survey							
2.7.1	Assessment of the student satisfaction survey on teaching learning process.	✓	4				
Criterion 3: Research, Innovations and Extension							
3.1 Promotion of Research and Facilities							
3.1.1	Policy for promotion of research in the department	✓	4				
3.1.2	Faculty received SSN internal seed funding for research during the year	✓	4				
3.1.3	Number of teachers awarded international fellowship for advanced studies/research during the year	✓	.				0
3.1.4	Assessment on the availability of Central facilities within the department for research.	✓	4				
3.2 Resource Mobilization for Research							
3.2.1	Number of teachers having sponsored research projects	✓	4				
3.2.2	Total Grants received through research projects sponsored by the government and non-government sources (in Lakhs INR)	✓	4				
3.2.3	Percentage of teachers recognized as research guides	✓	4				
3.3 Innovation Ecosystem							
3.3.1	Assessment on the Participation of the department in the innovations and Incubation centers of the institution.	✓				1	
3.3.2	Number of Workshops/ seminars conducted on Intellectual Property Rights (IPR) and Industry - Academia Innovative practices.	✓	4				
3.3.3	Number of awards for innovation/research won by teachers/ research scholars/students during the year.	✓	4				
3.3.4	Number of start-ups incubated on campus from the department.	✓				1	
3.4 Research Publications and Awards							
3.4.1	Average number of Research Scholars per Research Guide in the Department	✓		3			
3.4.2	Number of research papers published per faculty in WOS/Scopus Journals	✓			2		
3.4.3	Number of books and chapters in edited volumes published	✓					0
3.4.4	Bibliometrics of the publications during the last five years based on average citation index in Web of Science / Scopus	✓	4				

Sl. No.	Scope of Audit	Dept Data	Rating				
			4	3	2	1	0
3.4.5	Total number of Ph.Ds awarded during the year	✓	4				
3.4.6	Number of Patents/copyright published/awarded	✓	4				
3.5 Consultancy							
3.5.1	Revenue generated from consultancy and corporate training (in Lakhs INR)	✓					0
3.5.2	Total value of revenue shared to the faculty during the year by way of consultancy activities by faculty.	✓	4				
3.5.3	Assessment on the efforts of the department to publicize the available expertise for consultancy	✓	4				
3.6 Extension Activities							
3.6.1	Number of students participated in the extension activities of neighborhood community	✓	4				
3.6.2	Number of students participated in outreach programs such as Swachh Bharat etc., in collaboration with industry and NGOs through NSS/NCC/Red cross/YRC etc.	✓	4				
3.6.3	Number of courses integrated with outreach activity (Sensitizing students to social issues)	Not Covered					0
3.7 Collaboration							
3.7.1	Number of Collaborative activities (research, faculty exchange, Student exchange)	Not Sufficient Activities					0
3.7.2	Number of industry link (for internship, on-the-job training, project work, sharing of research facilities etc.)	✓	4				
3.7.3	Number of MoUs with other Institutions, industries, corporate houses etc. during the year	✓	4				
Criterion 4: Infrastructure and Learning Resources							
4.1 Physical Facilities							
4.1.1	Assessment on the adequacy of department facilities for teaching – learning, (classrooms, laboratories, computing equipment, etc.)	✓	4				
4.1.2	Assessment on promotion of cultural activities and yoga in the department	✓	4				
4.1.3	Adequacy of classrooms and seminar halls with ICT – enabled facilities such as smart class, LMS, etc.	✓	4				
4.1.4	Percentage of Department Budget allocation for infrastructure augmentation.	✓	4				
4.2 Library as a Learning Resource							
4.2.1	Availability of remote access to e-resources of the library	✓	4				

Sl. No.	Scope of Audit	Dept Data	Rating				
			4	3	2	1	0
4.3 IT Infrastructure							
4.3.1	Frequency of updates of IT facilities including Wi-Fi	✓	4				
4.3.2	Student - Computer ratio in the department	✓			adequate		
4.3.3	Adequacy of bandwidth available of internet connection	✓			adequate		
4.3.4	Assessment on facilities for e-content development	✓			enough		
Criterion 5: Student Support and Progression							
5.1 Student Support							
5.1.1	Percentage of students benefited by scholarships provided by the institution	✓			2		
5.1.2	Number of programs organized for students such as Guidance for competitive examinations, Career Counselling, etc.,	✓	4				
5.1.3	Percentage of students benefited by Guidance for competitive examinations, Career Counselling, etc.,	✓	4				
5.2 Student Progression							
5.2.1	Percentage of placement of the outgoing Batch (2019 - 2023)	✓	4				
5.2.2	Percentage of student progression to higher education and as entrepreneurs (2019 – 2023 Batch)	✓					0
5.2.3	Number of Students qualifying in state/ national/ international level examinations during last year	✓					0
5.2.4	Number of students as members of Professional societies/chapters	✓					0
5.3 Student Participation and Activities							
5.3.1	Number of awards/medals received by students for outstanding performance in sports/cultural activities at national/international level	✓	4				
5.3.2	Evidence of the presence of an active Student Council & representation of students on academic & administrative committees	✓	4				
5.4 Alumni Engagement							
5.4.1	Number of Alumni invited for presentations (knowledge sharing, Department activities etc.)	✓	4				
5.4.2	Number of Alumni participated in the alumni Association meetings held	✓	4				
	Alumni financial contribution (in Lakhs INR)	✓	4				

Overall Assessment

Strengths of the Department

Existence of very active research laboratories that are Polarized towards product development enabled some faculty members to become entrepreneur.

Weaknesses of the Department

No exclusive research policies for the department.

Best practices followed by the Department.

To be identified

Overall Report and Recommendations for Improvement

1. overall the dept. is doing well in all aspects.
2. The dept. could help / come out with proposal to perform energy audit for the entire institute to optimize energy consumption and conservation.

Pradeep Jais
Signature of the External Expert

05.10.2020

From
Dr. N. Venkateswaran, Prof,
Coordinator - IQAC
Department of BME,
SSN College of Engineering,
Kalavakkam - 603110.

To
The Principal,
SSN College of Engineering,
Kalavakkam - 603110.

Respected Sir,

Sub: Permission to conduct the IQAC External audit as per NAAC & approval of fund - reg

I wish to inform you that the academic audit as per IQAC/NAAC requirements for the year 2022-23 is to be scheduled on in the month of OCT/NOV 2023. In this regard, about ten IQAC External academic expert members are to be invited to carry out the audit, one auditor each for the core departments of SSNCE as per NAAC criteria. The exact schedule will be drawn up based on the external auditors availability.

In this regard, I kindly request your permission to organize the IQAC external audit and approval Rs. 1,20,000/- (One lakhs and twenty thousand only/-) towards the expenses for the remuneration and transport (Rs 8,000 and approximately Rs 4,000 respectively per expert) of the external academic auditors.

Thanking you,

Yours sincerely,



Coordinator - IQAC

Forwarded to President
for kind approval pl.


6/10

Rs. 8000/- remuneration
approved for each expert. Upto
Rs. 4000/- approved for each expert
towards transport. Transport at
actuals to be paid

**Sri Sivasubramaniya Nadar College of Engineering
(Autonomous)**

Old Mahabalipuram Road, Kalavakkam -603110

IQAC -External Audit

Date of the Audit: 23.09.2022

List of External Auditors

S.No.	Name	Designation	Institution	Department assigned
1	Dr M Sasikala	Professor	CEG Campus, Anna University	Bio-Medical Engineering
2	Dr. P.K.Jawahar	Professor	B.S.Abdur Rahman Crescent Institute of Science & Technology	Chemical Engineering
3	Dr.V.Prasanna Kumari	Professor	Dept of MCA Rajalakshmi Engineering College	MBA Department
4	Dr.S.Srinivasan	Professor and Head	Department of Instrumentation Engg, MIT Campus, Chrome pet, Anna University	Mechanical Engineering
5	Dr Sendhilkumar S	Associate Professor	Department of Information Science & Technology CEG, Anna University	Computer Science Engineering
6	Dr. Rajesh Kanna B	Professor	School of Computer Science and Engineering, VIT Chennai.	Humanities and Social Sciences - First year
7.	Dr.Mary Anita Rajam V	Professor	Department of CSE CEG Campus, Anna University	Electronics and Communication Engineering
8.	Dr.Nakeeran	Professor and Head	School of Electronics and Technology, Pondicherry University	Civil Engineering
9.	Dr. Sreenath N	Professor	Pondicherry Engineering College	Information Technology
10.	Dr. Gunabalan R	Associate Professor	School of Electrical Engineering, VIT University, Chennai	Electrical and Electronics Engineering

Completed on 23/09/2022

Jawahar
Co-ordinator IQAC

Sri Sivasubramaniya Nadar College of Engineering
(Autonomous)
Old Mahabalipuram Road, Kalavakkam -603110
Tamil Nadu - 603110
Phone: 044-26374000, 26374001, 26374002
Fax: 044-26374003
Email: ssnadar@ssnadar.ac.in, ssnadar@ssnadar.edu.in
Website: www.ssnadar.ac.in

SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING

Rajiv Gandhi Salai (OMR), Kalavakkam – 603 110, TN, India

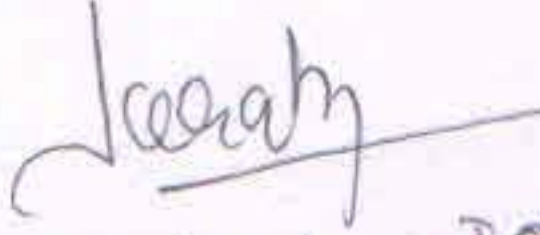
NAAC Academic Audit

Date: 23.09.2022

IQAC -External Audit

SCHEDULE

Time	Activity	Ownership
08:30am – 09:00am	Receiving the Expert members and Breakfast	IQAC Coordinator
09:00am – 09:20am	Interaction with Principal/ Vice Principal	Conference Hall, IQAC Coordinator
09:20am – 09:30am	To reach to the respective departments	Department IQAC Coordinator
09:30am – 09:50am	Meeting with the department team	HoD and team
09:50am – 10:20am	Department Lab Visits	Respective Lab In-charges
10:20am – 10:30am	Tea break	
10:30am – 12:15 pm	Department Files verification	Department IQAC Coordinator
12:15pm - 01:00pm	Lunch	
01:00pm - 01:30pm	Department Files verification (Cont..)	Department IQAC Coordinator
01:30pm - 01:40pm	Interaction with Non-Teaching Staffs	Non-Teaching Staffs
01:40pm - 02:00pm	Interaction with Teaching Staffs	Teaching Staffs
02:00pm - 02:15pm	Report Preparation	Expert Member
02:15pm - 02:30pm	Feedback of the department - Meeting with HoD and Faculty	HoD, All Staff members
02:30pm - 02:45pm	Exit feedback – Experts team Meeting with principal and Vice principal	IQAC Coordinator


Dr. N. VENKATESWARAN, Ph.D.,
Professor
Department of Biomedical Engineering
SSN College of Engineering
Rajiv Gandhi Salai (OMR)
Kalavakkam, Tamilnadu, India - 603 110

**Department:****Academic
Year:
2021 – 2022****External Audit: IQAC****Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam****Academic Audit Form**

Department Information		
Name of the Department		
No.of Full time permanent Faculty		
No.of Guest faculty		
Academic Programmes in the Department	UG	
	PG	
Student Strength Programwise	UG	
	PG	
No.of PhD Students	FT	
	PT	
Name, designation and affiliation of the External Expert		
Signature of the External Expert		
▪ The External Expert can grade each parameter with points 1,2,3,4 or 5 based on assessment. ▪ Wherever applicable, ratings may be based on the data available for the last three academic years.		

Criterion 1: Curricular Aspects						
Key Indicators	Scope of Audit	Rating				
		1	2	3	4	5
1.1 Curriculum Design and Development	Curricula developed have relevance to the local/ national / regional/global developmental needs					
	Adequacy of syllabus revision carried out					
	Number of courses having focus on employability/ entrepreneurship/ skill development					
1.2 Academic Flexibility	Number of new courses introduced to the total number of courses in each program					
	Implementation of Choice Based Credit System (CBCS) / elective courses					
1.3 Curriculum Enrichment	Courses relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics in the Curriculum					
	Number of value-added courses imparting transferable and life skills					
	Percentage of Students enrolment in the value-added courses					
	Percentage of students undertaking field projects / internships					
1.4 Feedback System	System of receiving feedback from 1) Students, 2) Teachers, 3) Employers, 4) Alumni 5) Parents, for design and review of syllabus					
	System of Feedback collection, analysis and action taken					
Observations & Suggestions:						

Criterion 2: Teaching- Learning and Evaluation						
Key Indicators	Scope of Audit	Rating				
		1	2	3	4	5
2.1 Student Enrolment and Profile	Percentage of students in the department from other States					
	Demand Ratio for the available seats.					
	Percentage of seats filled as per the applicable reservation policy.					
2.2 Catering to Student Diversity	Department assesses the learning levels of the students and organises special programs					
	Evidence of mentoring process and System to ensure motivation of slow learners					
	Student - Full time teacher ratio.					
	Percentage of differently abled students (Divyangjan) on roll.					
2.3 Teaching-Learning Process	Preparation of course files and adherence to Teaching plans by the faculty members					
	Adaptation of Student centric teaching methods, such as experiential learning, participative learning and problem solving methods					
	Use of Learning Management Systems (LMS) and timely availability of COs/ Course Plan/ Lecture Notes/ PPTs etc.					
	Ratio of students to mentors for academic and stress related issues					
2.4 Teacher Profile and Quality	Percentage of full time faculty against sanctioned posts					
	Percentage of full time faculty with Ph.D.					
	Teaching experience of full time teachers in number of years					
	Percentage of teachers received awards, recognition, fellowships at State, National, International level					
	Percentage of full time teachers from other States					
2.5 Evaluation Process and Reforms	Department ensures fairness in the evaluation of answer scripts					
	Question Paper explores all the elements of Blooms Taxonomy in assessment.					
	Evaluation of the performance is in accordance with the course objectives.					
	System for student complaints/grievances about evaluation					
	Automation of Examination process					
2.6 Student Performance and Learning Outcomes	POs, PSOs and COs for all Programmes offered by the department are stated and displayed,communicated to teachers and students					
	Attainment of program outcomes, program specific outcomes and course outcomes are computed for the different batches.					



Department:

Academic
Year:
2021 – 2022

External Audit: IQAC

	CO-PO attainment is computed and the gap analysis is performed for the courses of the department					
	Availability of semester-wise result analysis for all the batches and average pass percentage					
2.7 Student satisfaction Survey	Student satisfaction survey report regarding teaching learning process.					

Observations & Suggestions:

Criterion 3: Research, Innovations and Extension

Key Indicators	Scope of Audit	1	2	3	4	5
3.1 Promotion of Research and Facilities	Policy for promotion of research within the department.					
	Use of SSN internal funding for research.					
	Number of teachers awarded international fellowship for advanced studies/research during the last five years.					
	Central facilities within the department for research.					
3.2 Resource Mobilization for Research	Grants received through research projects sponsored by the government and nongovernment sources.					
	Percentage of teachers recognised as research guides					
	Number of research projects per teacher funded by government and non-government agencies					
3.3 Innovation Ecosystem	Participation of the department in the ecosystem for innovations and Incubation centres of the institution.					
	Workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices.					
	Number of awards for innovation won by teachers/ research scholars/students during the last five years.					
	Number of start-ups incubated on campus from the department.					
3.4 Research Publications and Awards	Publications follows the stated Code of Ethics and efforts of the department to check malpractices and plagiarism in Research					
	Details about placement, higher education, and entrepreneurs are available?					
	Number of Research Guides in the Department					
	Number of Ph.D.s awarded					
	Number of research papers published in the WOS/Scopus Journals					
	Bibliometrics of the publications during the last five years based on average citation index					
	Number of books and chapters in edited volumes published					
	Number of Patents published/awarded					
3.5 Consultancy	Recognition of teachers who receive state, national and international recognition/awards					
	Institution has a policy on consultancy including revenue sharing between the institution and the faculty					
	Revenue generated from consultancy and corporate training					

3.6 Extension Activities	Participation in extension activities in the neighbourhood community in sensitising students to social issues and holistic development					
	Participation in extension and outreach programs such as Swachh Bharat etc., in collaboration with industry, community and NGOs through NSS/NCC/Red cross/YRC etc.					
	Awards and recognition received for extension activities from Government /recognised bodies					
3.7 Collaboration	Collaborative activities for research, faculty exchange, Student exchange per year					
	Linkages with institutions/industries for internship, on the- job training, project work, sharing of research facilities etc.					
	Functional MoUs with other Institutions, industries, corporate houses etc.					
Observations & Suggestions:						

Criterion 4: Infrastructure and Learning Resources

Key Indicators	Scope of Audit	1	2	3	4	5
4.1 Physical Facilities	Adequacy of facilities for teaching – learning, viz., classrooms, laboratories, computing equipment, etc.					
	Promotion cultural activities and yoga					
	Adequacy of classrooms and seminar halls with ICT – enabled facilities such as smart class, LMS, etc.					
	Department Budget allocation for infrastructure augmentation.					
4.2 Library as a Learning Resource	Library Automated using Integrated Library Management System (ILMS)					
	Availability of remote access to e-resources of the library					
	Percentage per day usage of library by teachers and students of the Department					
4.3 IT Infrastructure	Frequency of updates of IT facilities including Wi-Fi					
	Student - Computer ratio in the department					
	Available bandwidth of internet connection					

Observations & Suggestions:

Criterion 5: Student Support and Progression

Key Indicators (KIs)	Scope of Audit	1	2	3	4	5
5.1 Student Support	Average percentage of students benefited by scholarships provided by the Government and by the institution					
	Number of capability enhancement schemes such as 1. Guidance for competitive examinations, 2. Career Counselling, 3. Softskill development, 4. Remedial coaching 5. Language lab, 6. Bridge courses etc.,					
5.2 Student Progression	Average percentage of placement of outgoing students					
	Percentage of student progression to higher education and as entrepreneurs (previous graduating batch)					
	Students qualifying in state/ national/ international level examinations during the last five years					
	Evidences of student participation in Professional societies/chapters					
5.3 Student Participation and Activities	Number of awards/medals for outstanding performance in sports/cultural activities at national/international level					
	Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution					
5.4 Alumni Engagement	The Alumni contributes significantly to the development of the Department					
	Frequency of Alumni Association meetings held					

Observations & Suggestions:



Department:

Academic
Year:
2021 – 2022

External Audit: IQAC

Overall Assessment

Strengths of the Department

Weaknesses of the Department

Best practices followed by the Department

Overall Report and Recommendations for Improvement

Signature of the External Expert

Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam

Academic Audit Form

Department Information	
Name of the Department	Electrical and Electronics Engineering
No. of Full time permanent Faculty	27
No. of Guest faculty	visiting faculty: 01
Academic Programmes in the Department	UG BS-EEE
	PG M.E. - PED
Student Strength Programwise	UG EEE - 391
	PG PED - 07 (second year)
No. of PhD Students	FT 22
	PT 32
Name, designation and affiliation of the External Expert	Dr. R. Gunabalan Associate Professor School of Electrical Engineering, VIT-Vellore
Signature of the External Expert	 20/9/22
- The External Expert can grade each parameter with points 1,2,3,4 or 5 based on assessment. - Wherever applicable, ratings may be based on the <u>data available for the last three academic years.</u>	

Criterion 1: Curricular Aspects						
Key Indicators	Scope of Audit	Rating				
		1	2	3	4	5
1.1 Curriculum Design and Development	Curricula developed have relevance to the local/ national / regional/global developmental needs					
	Adequacy of syllabus revision carried out <i>UG-3 PA-4</i>			✓		
	Number of courses having focus on employability/ entrepreneurship/ skill development - <i>not classified</i>					
1.2 Academic Flexibility	Number of new courses introduced to the total number of courses in each program		✓			
	Implementation of Choice Based Credit System (CBCS) / elective courses				✓	
1.3 Curriculum Enrichment	Courses relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics in the Curriculum					✓
	Number of value-added courses imparting transferable and life skills			✓		
	Percentage of Students enrolment in the value-added courses <i>-15%</i>				✓	
	Percentage of students undertaking field projects / internships				✓	
1.4 Feedback System	System of receiving feedback from 1) Students, 2) Teachers, 3) Employers, 4) Alumni 5) Parents, for design and review of syllabus			✓		
	System of Feedback collection, analysis and action taken <i>BoS</i>			✓		
Observations & Suggestions: * Courses to be classified under different category such as employability / skill development etc. * New courses are introduced and not given separate list, reflected in BoS. * Value added courses are less in numbers * Feedback system for design and revision of syllabus is missing.						

Criterion 2: Teaching- Learning and Evaluation

Key Indicators	Scope of Audit	Rating				
		1	2	3	4	5
2.1 Student Enrolment and Profile 20	Percentage of students in the department from other States					
	Demand Ratio for the available seats. - AU course 117					
	Percentage of seats filled as per the applicable reservation policy. Admission Down					
2.2 Catering to Student Diversity 30	Department assesses the learning levels of the students and organises special programs →			✓		
	Evidence of mentoring process and System to ensure motivation of slow learners			✓	✓	
	Student - Full time teacher ratio. 1:18					✓
	Percentage of differently abled students (Divyangjan) on roll.					✓
2.3 Teaching-Learning Process 50	Preparation of course files and adherence to Teaching plans by the faculty members					✓
	Adoptation of Student centric teaching methods, such as experiential learning, participative learning and problem solving methods				✓	
	Use of Learning Management Systems (LMS) and timely availability of COs/ Course Plan/ Lecture Notes/ PPTs etc					✓
	Ratio of students to mentors for academic and stress related issues 1:15					✓
2.4 Teacher Profile and Quality 30	Percentage of full time faculty against sanctioned posts					✓
	Percentage of full time faculty with Ph.D.					✓
	Teaching experience of full time teachers in number of years					✓
	Percentage of teachers received awards, recognition, fellowships at State, National, International level 2%		✓			
	Percentage of full time teachers from other States 1 faculty		✓			
2.5 Evaluation Process and Reforms 30	Department ensures fairness in the evaluation of answer scripts					✓
	Question Paper explores all the elements of Blooms Taxonomy in assessment.					✓
	Evaluation of the performance is in accordance with the course objectives.					✓
	System for student complaints/grievances about evaluation					
	Automation of Examination process - COE					
2.6 Student Performance and Learning Outcomes 50	POs, PSOs and COs for all Programmes offered by the department are stated and displayed, communicated to teachers and students					✓
	Attainment of program outcomes, program specific outcomes and course outcomes are computed for the different batches.		✓			

	CO-PO attainment is computed and the gap analysis is performed for the courses of the department					
	Availability of semester-wise result analysis for all the batches and average pass percentage					✓
2.7 Student satisfaction Survey	Student satisfaction survey report regarding teaching learning process.					✓

Observations & Suggestions:

Student enrolment & profile is not available in department. It is in Admission section
 Evaluation ^{process} and reforms details are in CoE office

Criterion 3: Research, Innovations and Extension

Key Indicators	Scope of Audit	1	2	3	4	5
3.1 ¹⁰ Promotion of Research and Facilities	Policy for promotion of research within the department.	✓				✓
	Use of SSN internal funding for research.					✓
	Number of teachers awarded international fellowship for advanced studies/research during the last five years. → nil data					
	Central facilities within the department for research → 1		✓			
3.2 ¹⁰ Resource Mobilization for Research	Grants received through research projects sponsored by the government and nongovernment sources. 1, 25 crore / 8 projects				✓	✓
	Percentage of teachers recognised as research guides					✓
	Number of research projects per teacher funded by government and non-government agencies			✓		
3.3 ¹⁰ Innovation Ecosystem	Participation of the department in the ecosystem for innovations and Incubation centres of the institution.			✓		
	Workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia innovative practices.					
	Number of awards for innovation won by teachers/ research scholars/students during the last five years.		✓			
	Number of start-ups incubated on campus from the department. 2+1					
3.4 ³⁰ Research Publications and Awards	Publications follows the stated Code of Ethics and efforts of the department to check malpractices and plagiarism in Research publication			✓	✓	
	Details about placement, higher education, and entrepreneurs are available?				✓	
	Number of Research Guides in the Department - 25					✓
	Number of Ph.D.s awarded 80					✓
	Number of research papers published in the WOS/Scopus Journals					✓
	Bibliometrics of the publications during the last five years based on average citation index					✓
	Number of books and chapters in edited volumes published					✓
	Number of Patents published/awarded → 7 (minimum)			✓		
3.5 ¹⁰ Consultancy	Recognition of teachers who receive state, national and international recognition/awards		✓			
	Institution has a policy on consultancy including revenue sharing between the institution and the faculty → 20 lakhs			✓		
	Revenue generated from consultancy and corporate training 20 lakhs					

		1	2	3	4	5
3.6 Extension Activities	Participation in extension activities in the neighbourhood community in sensitising students to social issues and holistic development - virtual virtual events			✓		
	Participation in extension and outreach programs such as Swachh Bharat etc., in collaboration with industry, community and NGOs through NSS/NCC/Red cross/YRC etc.			✓	✓	
	Awards and recognition received for extension activities from Government / recognised bodies			✓		
3.7 Collaboration	Collaborative activities for research, faculty exchange, Student exchange per year		✓			
	Linkages with institutions/industries for internship, on the- job training, project work, sharing of research facilities etc.				✓	
	Functional MoUs with other Institutions, industries, corporate houses etc.			✓		
Observations & Suggestions: * central facility is available but not in data format. * Non Govt. funded project is nil. * Funded project / faculty is minimum * Innovation award by faculty is minimum * Approved research policy is required. * " consultancy policy is required * Faculty exchange, student exchange data is needed * MOU activities are minimum						

Criterion 4: Infrastructure and Learning Resources

Key Indicators	Scope of Audit	1	2	3	4	5
4.1 Physical Facilities 30	Adequacy of facilities for teaching – learning, viz., classrooms, laboratories, computing equipment, etc.					✓
	Promotion cultural activities and yoga <i>near - Student affairs central team</i>					
	Adequacy of classrooms and seminar halls with ICT – enabled facilities such as smart class, LMS, etc.					✓
	Department Budget allocation for infrastructure augmentation.					✓
4.2 Library as a Learning Resource 30	Library Automated using Integrated Library Management System (ILMS)					✓
	Availability of remote access to e-resources of the library					✓
	Percentage per day usage of library by teachers and students of the Department <i>Library</i>					
4.3 IT Infrastructure 30	Frequency of updates of IT facilities including Wi-Fi					✓
	Student - Computer ratio in the department				✓	
	Available bandwidth of internet connection <i>20 Mbps</i>					✓

Observations & Suggestions:

Infrastructure facility is Good

4.4 maintenance of campus infrastructure 20

Criterion 5: Student Support and Progression

Key Indicators (KIs)	Scope of Audit	1	2	3	4	5
5.1 Student Support 30	Average percentage of students benefited by scholarships provided by the Government and by the institution				✓	
	Number of capability enhancement schemes such as 1. Guidance for competitive examinations, 2. Career Counselling, 3. Softskill development, 4. Remedial coaching 5. Language lab, 6. Bridge courses etc.,					
5.2 Student Progression 30	Average percentage of placement of outgoing students				✓	
	Percentage of student progression to higher education and as entrepreneurs (previous graduating batch) 16 students					
	Students qualifying in state/ national/ international level examinations during the last five years			✓		
	Evidences of student participation in Professional societies/chapters				✓	
5.3 Student Participation and Activities 30	Number of awards/medals for outstanding performance in sports/cultural activities at national/international level				✓	
	Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution			✓		
5.4 Alumni Engagement 10	The Alumni contributes significantly to the development of the Department				✓	
	Frequency of Alumni Association meetings held				✓	

Observations & Suggestions:

- * Signed copy is needed for scholarship details
- * All documents must be recorded.

Overall Assessment

Strengths of the Department

- * Qualified faculty
- * Good Infrastructure & Research lab
- * 1 Hr/week for Mentoring students

Weaknesses of the Department

- * Less number of consultancy, MoU and funded project
- * PO attainment calculation is not shown.
- * Less no of patent filed and published.
- * Documentation is missing.

Best practices followed by the Department

- * Hands on training to students with the research facility
- * Research funding for faculty and students

Overall Report and Recommendations for Improvement

- * UG students research publications
- * Improvement of consultancy & training, Patent and
- * MoU.
- * Fully ~~auto~~ automated Examination system is needed
- * Hard copy of all documents

Signature of the External Expert

DR. R. Guasalan, Associate Professor, EEE
VIT, Chennai

Sep 21, 2022

From
Dr.N.Venkateswaran,
Professor, Dept. of ECE,
IQAC Coordinator,
SSN College of Engineering, Kalavakkam,
Tamil Nadu, India.

To
The principal,
SSN College of Engineering, Kalavakkam,
Tamil Nadu, India.

Respected Sir,

Sub: Requisition for budget approval towards remuneration for external Audit- Reg.

The external academic audit of each department towards NAAC is scheduled on Friday, 23.09.2022. The details of the invited experts to perform the audit is given below. The remuneration for each external auditor Rs.8000/- is sanctioned and provision is available in the IQAC Budget.

S.No.	Name	Designation	Address
1	Dr M Sasikala	Professor	CEG Campus, Anna University
2	Dr.Mary Anita Rajam V	Professor	Department of CSE CEG Campus, Anna University.
3	Dr. P.K.Jawahar	Professor	B.S.Abdur Rahman Crescent Institute of Science & Technology
4	Dr.Nakeeran	Professor and Head	School of Electronics and Technology, Pondicherry University
5	Dr. Sreenath N	Professor	Pondicherry Engineering College
6	Dr.V.Prasanna Kumari	Professor	Dept of MCA Rajalakshmi Engineering College
7.	Dr. Gunabalan R	Associate Professor	School of Electrical Engineering, VIT University, Chennai
8.	Dr.S. Srinivasan	Professor and Head	Dept, of Instrumentation, Madras Institute of Technology
9.	Dr Sendhilkumar S	Associate Professor	Department of Information Science & Technology CEG, Anna University
10.	Dr. Rajesh Kanna B	Professor	School of Computer Science and Engineering, VIT, Chennai

Hence, I request you to kindly sanction the total amount of **Rs.80,000/-** (Rupees eighty thousand only) towards remuneration.

Thanking You

TO
AFM



Yours faithfully,



N.Venkateswaran,
IQAC - coordinator

ACADEMIC AUDIT

Date of audit:

Department	:		Academic Year	:	2022 – 2023 (Odd/Even)
Name of the Programme	:				

Part-A

1. Whether COs / Course plan / lecture notes / Handouts / PPTs / Unit Summary etc., for the entire content is made timely available in LMS?

Yes ☐ No ☐ Partially ☐

2. Whether the Blooms taxonomy level of the CO appropriately matches the level of the question paper?

Yes ☐ No ☐ Partially ☐

3. Does the system ensure fairness in the evaluation of answer scrips? (Answer Key & scheme of Evaluation should be made available)

Yes ☐ No ☐ Partially ☐

4. Whether all the faculty members have prepared the course file as per the directions of HoD / Principal?

Yes ☐ No ☐ Partially ☐

Part-B (to be done for the entire Department/Programme)

5. Is there a system to ensure motivation of slow learners by the mentors?

Yes ☐ No ☐ Partially ☐

6. Are the assessment tools used for computation of the CO & PO attainment adequate?

Yes ☐ No ☐

7. Are there measures taken to compensate for the gaps identified from the PO attainment?

Yes ☐ No ☐

8. Whether, any Innovative Teaching – Learning / Active Learning Methods adopted ? (If Yes, Please specify)

Yes ☐ No ☐

9. Whether the reports and followups are implemented and communicated with IQAC?

Yes ☐ No ☐

10. Any curricular gap identified is addressed adequately? (If Yes, Please specify)

Yes ☐ No ☐

11. Whether the Rubrics framed for practical courses / Project work are based on the stakeholders inputs?

Yes ☐ No ☐

12. Whether COs for lab courses/project work are updated/refined (Skill/affective domain) regularly?

Yes ☐ No ☐

Audited by:

**Signature with Name
(Auditor 1)**

**Signature with Name
(Auditor 2)**

ACADEMIC AUDIT

Date of audit:

Department	:		Academic Year	:	2021 – 2022 (Odd/Even)
Name of the Programme	:				

Part-A

1. Whether COs / Course plan / lecture notes / Handouts / PPTs / Unit Summary etc., for the entire content is made timely available in LMS?

Yes ☐ No ☐ Partially ☐

2. Whether the Blooms taxonomy level of the CO appropriately matches the level of the question paper?

Yes ☐ No ☐ Partially ☐

3. Does the system ensure fairness in the evaluation of answer scrips? (Answer Key & scheme of Evaluation should be made available)

Yes ☐ No ☐ Partially ☐

4. Whether all the faculty members have prepared the course file as per the directions of HoD / Principal?

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Part-B (to be done for the entire Department/Programme)

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8. Whether, any Innovative Teaching – Learning / Active Learning Methods adopted ? (If Yes, Please specify)

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9. Whether the reports and followups are implemented and communicated with IQAC?

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10. Any curricular gap identified is addressed adequately? (If Yes, Please specify)

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11. Whether the Rubrics framed for practical courses / Project work are based on the stakeholders inputs?

Yes ☐ No ☐

12. Whether COs for lab courses/project work are updated/refined (Skill/affective domain) regularly?

Yes ☐ No ☐

Audited by:

**Signature with Name
(Auditor 1)**

**Signature with Name
(Auditor 2)**

ACADEMIC AUDIT

Date of audit:

Department	:		Academic Year	:	2020 – 2021 (Odd/Even)
Name of the Programme	:				

Part-A

1. Whether COs / Course plan / lecture notes / Handouts / PPTs / Unit Summary etc., for the entire content is made timely available in LMS?

Yes ☐ No ☐ Partially ☐

2. Whether the Blooms taxonomy level of the CO appropriately matches the level of the question paper?

Yes ☐ No ☐ Partially ☐

3. Does the system ensure fairness in the evaluation of answer scrips? (Answer Key & scheme of Evaluation should be made available)

Yes ☐ No ☐ Partially ☐

4. Whether all the faculty members have prepared the course file as per the directions of HoD / Principal?

Yes ☐ No ☐ Partially ☐

Part-B (to be done for the entire Department/Programme)

5. Is there a system to ensure motivation of slow learners by the mentors?

Yes ☐ No ☐ Partially ☐

6. Are the assessment tools used for computation of the CO & PO attainment adequate?

Yes ☐ No ☐

7. Are there measures taken to compensate for the gaps identified from the PO attainment?

Yes ☐ No ☐

8. Whether, any Innovative Teaching – Learning / Active Learning Methods adopted ? (If Yes, Please specify)

Yes ☐ No ☐

9. Whether the reports and followups are implemented and communicated with IQAC?

Yes ☐ No ☐

10. Any curricular gap identified is addressed adequately? (If Yes, Please specify)

Yes ☐ No ☐

11. Whether the Rubrics framed for practical courses / Project work are based on the stakeholders inputs?

Yes ☐ No ☐

12. Whether COs for lab courses/project work are updated/refined (Skill/affective domain) regularly?

Yes ☐ No ☐

Audited by:

**Signature with Name
(Auditor 1)**

**Signature with Name
(Auditor 2)**

SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110
IQAC Committee Members for the period 1.1.2023 - 31.12.2024

S. No.	Committee	Members
1.	Chairperson: Head of the Institution	Dr.V.E. Annamalai, Principal, SSNCE
2.	A few senior administrative officers (senior administrators, persons in charge of institutional services such as library, computer center, estate, student welfare, administration, academic tasks, examinations and planning and development)	Dr. S. Ramanagopal, Prof., Civil Dr. S. Narasimman, CoE & Prof., Maths Mr. Ajit Paul, Assistant Director, Data Centre Mr. R. Gopalakrishnan, Dy. Manager - Admin Mr. T. Shivkumar, AGM - Projects Dr. S. Nanda, Student Counsellor Dr. G. Sethuraman, Librarian Ms. Joyce Jennifer, HR executive
3.	Three to eight teachers	Dr. S. Ramprabhu, ASP / ECE Dr. Mrunal Deshpande, ASP / EEE Dr. T. Thiruvankadam, ASP / MBA Dr. S. Karthika, ASP / IT Dr. Anirudh Venkatraman Krishnan, AP /Mech. Ms. R. Sumetha, AP/ Civil Dr. M. Dhanalakshmi, AP / BME Dr. Nalinkanth V Ghone, ASP/ Chemical Dr. R. Sundareswaran, ASP / Maths
4.	One member from the Management	Dr. S. Radha, Vice Principal, SSNCE
5.	One/two nominees from local society, Students and Alumni	<u>Student:</u> 1. Nithin B.K., III B. Tech. (IT) Mobile no: 9025331162 Nithin2010845@ssn.edu.in 2. S. Geetha, III B.Tech. (Chemical) Mobile no: 6381297075 geetha2010469@ssn.edu.in <u>Alumni:</u> 1. Mr. Varun Krishnan (BE ECE – 2006) Director of Engineering, Flatirons solutions Varun.Krishnan@flatironssolutions.com +91 98405 42412 2. Dr. S. Raja (B.E. Mech - 2015) Senior Project officer, Dept. of Mechanical Engg.IIT Madras. Mobile: +91 87 78 222 854 rajha93@gmail.com
6.	One/two nominees from Employers / Industrialists / stakeholders	1. Mr. V. Kumarasubramanian Sr. Manager (Retd), TI-IIIC (Murugappa Group) Presently Director (Technical), Zygote India Chennai. Mobile: 9840707535 Email: kumarasubramanianv@zygoteindia.com 2. Mr. N. Sivasankaran General Manager, New Product Innovation, Preethi Kitchen Appliances Pvt. Ltd., Chennai. Mobile: 9677005578 Email: sivashankaran@preethi.in
7.	One of the senior teachers as the coordinator/Director of the IQAC	Dr. N. Venkateswaran, Professor / BME


Dr. V.E. ANNAMALAI
Principal
Sri Sivasubramaniya Nadar
College of Engineering
Rajiv Gandhi Salai (OMR)
Kalavakkam-603 110

Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam – 603 110
(An Autonomous Institution, Affiliated to Anna University, Chennai)

NAAC Department Coordinator

Dept	NAAC Coordinator	Email id	Ext No
BME	Dr. Vijay J	vijayj@ssn.edu.in	427
Chemical	Dr. Nalinkanth V Ghone	nalinkanthv@ssn.edu.in	421
Civil	Ms. R. Sumetha	sumethar@ssn.edu.in	567
CSE	Dr. Thenmozhi D	theni_d@ssn.edu.in	379
ECE	Dr. Anbuselvi	anbuselvim@ssn.edu.in	353
EEE	Dr. Premanand Chandramani Dr. Sajith Ali	premanandc@ssn.edu.in shajithali@ssn.edu.in	
IT	Dr. V. Thanikachalam	thanikachalamv@ssn.edu.in	373
Mech	Dr. Anirudh V K	anirudhv@ssn.edu.in	510
MBA	Dr. T. Thiruvankadam	thiruvankadam@ssn.edu.in	244
Physics	Dr. S. Singaravadivelu Dr. A. Chandrasekaran	singarams@ssn.edu.in chandrasekarana@ssn.edu.in	358
Chemistry	Dr. Murugesan A	murugesana@ssn.edu.in	238
Mathematics	Dr. C. Kalaivani	kalaivanic@ssn.edu.in	398
English	Dr. Divya John	divyajohn@ssn.edu.in	242

MINUTES OF THE EIGHTH IQAC MEETING (2023-24)

Held on 22.03.2023 at 10.00 AM.

03.04.2023

The following members were present:

- Dr. V.E. Annamalai, Principal, SSNCE
- Dr. S. Radha, Vice Principal, SSNCE
- Mr. V. Kumarasubramanian, Sr. Manager (Retd), TI-IIIC (Murugappa Group), Director (Technical), Zygote India
- Mr. N. Sivasankaran, Viruksa Manufacturing Solutions Pvt Ltd, Chennai
- Dr. S. Ramanagopal, Prof., Civil
- Mr. Ajit Paul, Assistant Director, Data Centre
- Ms. Joyce Jennifer, HR executive
- Dr. S. Ramprabhu, Asso. Prof / ECE
- Dr. Mrunal Deshpande, Asso. Prof / EEE
- Dr. T. Thiruvenkadam, Asso. Prof / MBA
- Dr. Anirudh Venkatraman Krishnan, Asso. Prof / Mech
- Dr. M. Dhanalakshmi, Assistant Prof / BME
- Dr. Nalinkanth V Ghone, Asso. Prof / Chemical
- Dr. R. Sundareswaran, Asso. Prof / Maths
- Dr. N. Venkateswaran, Professor / ECE, Coordinator -IQAC

Leave of absence:

- Mr. T. Shivkumar, Group Manager, Projects
- Dr. S. Nanda, Student Counsellor
- Mr. R. Gopalakrishnan, Dy. Manager – Admin
- Dr. S. Narasimman, CoE & Prof., Maths
- Dr. G. Sethuraman, Librarian
- Dr. S. Karthika, Asso. Prof / IT
- Ms. R. Sumetha Assistant Prof / Civil

Agenda

- Welcome address by Dr. V. E. Annamalai, Principal, Chairman, IQAC
- To confirm the minutes of the last meeting of IQAC held on 31.12.2022(minutes attached for your reference) – Coordinator IQAC
- To appraise the members on submission of the AQAR for the year 2021-22 –Coordinator, IQAC
- To appraise the workshop on “Technology enabled learning”– Dr. R. Kanchana, ASP, CSE Dept.
- Any other points are open for discussion.
- Concluding remarks

Minutes

The meeting started at 10.00AM. The IQAC Coordinator welcomed all the members for the meeting. Thereafter following subjects have been discussed and deliberated.

Item No.1. Welcome address by Dr. V. E. Annamalai, Principal, Chairman, IQAC

The IQAC Chairman, Dr. V. E. Annamalai, Principal, IQAC welcomed the members and gave a brief about the new members. Thereafter following subjects have been discussed and deliberated.

Item No.2. To confirm the minutes of the last meeting of IQAC held on 28.12.2022, Coordinator IQAC

The coordinator presented a brief about the previous meeting and informed about actions taken. Earlier, the minutes was sent by email to all the members of the committee. In this regard the coordinator presented the actions taken on improving the industry orientation of the students and faculty. A new initiative with CTS has been initiated where certain topics of regular syllabus will be taught by the experts from CTS. The event has been finalized and being implemented during this semester.

Item No 3. To appraise the members on submission of the AQAR for the year 2021-22 –Coordinator, IQAC

The IQAC Chairman Dr. V. E. Annamalai, Principal, said the AQAR for the year 2021- 2022 was submitted to NAAC portal during last week of February 2023. He appreciated the department coordinates for their timely support in providing the data.

Item No 4. To appraise the workshop on “Technology enabled learning”– Dr. R. Kanchana, ASP, CSE Dept.

The IQAC Chairman Dr. V. E. Annamalai, Principal, initially presented the initiatives by IQAC towards technology enabled learning in our college. In this regard he said the views of Professor Raj Reddy, Research Advisory Committee on the suggestion that teaching continuously for 50 minutes is of little help. Then, he pointed out that few selected faculty from each department is undergoing “Discovery workshop” conducted by Professor Pravin Garmilla and this team of learning engineers. Then Dr. Kanchana, Associate Professor, CSE department gave a brief about the initiative such as the objectives, ABC method for writing objectives, backward design of instructions, assessments, big picture diagraming and roadmap towards active learning implementation.

Item No 5. Any other points are open for discussion.

Dr. Radha, Management Representative and Vice-principal, outlined the road map for NAAC reaccreditation. She gave certain deadlines for submission for letter of interest and the SSR. She also said, She will nominate coordinators for SSR preparation and it will be shared soon. Later, prepared SSR will also be reviewed by Dr. Samudra, once it is ready.

Mr. V. Kumara Subramanian, Industry Expert member-IQAC said that the actions taken towards the improving the quality of learning is quite interesting and it is similar to what exactly the industry is doing. He further said this process will help the industry once the entire cycle is completed.

Industry Expert member-IQAC, Shri.N. Siva Sankaran, agreed with the views of Mr. Kumara Subramanian and appreciated the big picture thinking and said that the way of changing the teaching method is in the right direction.

Item No. 4: Concluding remarks by Chairman and members of IQAC

In his concluding remarks the Chairman thanked all the members for their contribution in the enhancement of quality in all departments of SSNCE. Since there were no further items for discussion, the meeting came to an end at 10.45 am.


Dr. N. Venkateswaran
Coordinator (IQAC)


Dr.V.E. Annamalai
Chairman (IQAC), Principal
Dr. V.E. ANNAMALAI
Principal
Sri Sivasubramaniya Nadar
College of Engineering
Rajiv Gandhi Salai (OMR)
Kalavakkam 603119

MINUTES OF THE EIGHTH IQAC MEETING (2023-24)

Held on 30.06.2023 at 10.00 AM.

The following members were present:

- Dr. V.E. Annamalai, Principal, SSNCE
- Mr. V. Kumarasubramanian, Sr. Manager (Retd), TI-IIIC (Murugappa Group), Director (Technical), Zygote India
- Dr. S. Karthika, Asso. Prof / IT
- Dr. S. Ramanagopal, Prof., Civil
- Dr. Mrunal Deshpande, Asso. Prof / EEE
- Dr. T. Thiruvankadam, Asso. Prof / MBA
- Dr. Anirudh Venkatraman Krishnan, Asso. Prof / Mech
- Dr. Nalinkanth V Ghone, Asso. Prof / Chemical
- Dr. R. Sundareswaran, Asso. Prof / Maths
- Ms. R. Sumetha, Assistant Prof / Civil
- Dr. Vinothkumar, Asso. Prof / ECE
- Dr. N. Venkateswaran, Professor / ECE, Coordinator -IQAC
- Mr. B.K. Nithin, III year B.Tech / IT
- Ms. S.Geetha, III year B.Tech / Chemical
- Dr. Durgadevi, Assistant professor/ IT
- Dr. E. M. Malathy, Asso professor/ IT
- Dr. M. Dhanalakshmi, Assistant Prof / BME

Agenda

- Welcome address by Dr.V.E. Annamalai, Principal, Chairman, IQAC
- To confirm the minutes of the last meeting of IQAC held on 22.03.2023(minutes attached for your reference) – Coordinator IQAC
- NBA visit on PG accreditation – Dr.S. Radha, Vice Principal
- To appraise the members on the submission of the SSR for the third cycle of NAAC accreditation– Coordinator, IQAC
- Discussion on NEP2020 – All members
- Any other points are open for discussion.
- Concluding remarks - Dr. V.E. Annamalai

Minutes

The meeting started at 10.00AM. The IQAC Coordinator welcomed all the members for the meeting. Thereafter following subjects have been discussed and deliberated.

Item No.1. Welcome address by Dr. V. E. Annamalai, Principal, Chairman, IQAC

The IQAC Chairman, Dr. V. E. Annamalai, Principal, IQAC welcomed all the members for the meeting. He shared the information about recent NIRF ranking. He said SSNCE ranking has moved upwards in all India ranking to 45 from 48 and the overall ranking to 80 from 96 last year. All the members congratulated the principal for this achievement. Thereafter the following subjects were discussed and deliberated.

Item No.2. To confirm the minutes of the last meeting of IQAC held on 22.03.2023, Coordinator IQAC

The coordinator presented a brief about the previous meeting and informed about action taken. Earlier, the minutes were sent by email to all the members of the committee.

Item No 3. To appraise the members on NBA visit on PG program accreditation

The IQAC Chairman Dr. V. E. Annamalai, Principal, appraised members on the recent NBA expert committee visit on PG program accreditation during 16 -18 June 2023. The Chairman mentioned that the

expert team appreciated excellent facilities available and appreciated the UG admissions are more with high demand but the admission for PG is less. He also said that the committee appreciated the research and publications of the faculty, common facilities, Quality of faculty and technical staff and all general facilities. The chairman said that the current trend in PG admissions is the concern for all the Anna university colleges. He also pointed out that Anna University has been permitted to admit a single window counselling through common engineering admission procedure (CEAP – CEETA (PG)) a separate counselling in advance for its university Departments, Regional campuses, and constituent colleges. This makes PG student admissions in affiliated and autonomous colleges still more difficult.

Item No 4. To appraise the members on the submission of the SSR for the third cycle of NAAC accreditation

The IQAC Coordinator said that the NAAC portal is yet to open for IIQA submission. However, he said the collecting data for SSR submission for the third cycle of NAAC accreditation is in progress, with one coordinator assigned for each criterion.

Item No 5. Discussion on NEP 2020

The IQAC Coordinator gave a brief overview of NEP 2020 including key changes in the current curriculum framework and the immediate action plan for NEP 2020. The IQAC Chairman Dr. V. E. Annamalai, Principal, pointed out that SSNCE already started implementing some of the recommendations of NEP 2020 such as major and minor courses, learning in local languages, introduction of value added and skill enhancement courses, internship programs, Online courses and use of ICT tools.

Mr. V. Kumara Subramanian, Industry Expert member-IQAC, said that the main features of the NEP2020 are quite interesting but quite complex in implementation. He further said that it is practiced in western countries which has no affiliation system. However, usage of local language may be difficult due to non-availability textbooks in Tamil.

The Chair said the institution followed the implementation NEP 2020 as suggested by Anna University. In this regard, the chair said, Dr Durga devi, AP/ IT department was nominated as coordinator for the one-credit course on "Tamil heritage", to be taught in Tamil language in line with NEP2020 as suggested by Anna University to first year Engineering Students. Dr Durga devi, AP/ IT department explained the progress of the course during the Second semester. For this mandatory course, there were 880 students registered, out of which 312 opted for the batch taught in Tamil language. However, Students used text and reference books written in English and Tamil on Tamil Heritage. She further said Students can take their test and write in either Tamil or English language.

Item No 6. Any other points are open for discussion.

By referring to PG admissions to Mr. V. Kumara Subramanian, Industry Expert member-IQAC remarked that many institutions promote themselves through advertisement in mass media to attract students.

Item No. 7: Concluding remarks by Chairman and members of IQAC.

In his concluding remarks the Chairman thanked all the members for their contribution in the enhancement of quality in all departments of SSNCE. Since there were no further items for discussion, the meeting came to an end at 11.00 am.


Dr. N. Venkateswaran
Coordinator (IQAC)


Dr.V.E. Annamalai
Chairman (IQAC), Principal
Dr. V.E. ANNAMALAI
Principal
Sri Sivasubramaniya Nadar
College of Engineering
Rajiv Gandhi Sarai (OMR)
Kadavakkam 603110

MINUTES OF THE THIRD IQAC MEETING (2023)			
Date	11/10/2023 – 10.30 am	Venue	Conference Hall, Admin Block, SSNCE
Minutes prepared by:		Dr. N. Venkateswaran, Coordinator, IQAC	

The following members were present:

- Dr. V.E. Annamalai (VEA), Principal, SSNCE
- Dr. S. Radha (SR), Vice Principal, SSNCE
- Mr. V. Kumara Subramanian (VKS), Sr. Manager (Retd), TI-IIIC (Murugappa Group), Director (Technical), Zygote India
- Mr. N. Sivasankaran (NS), Manager, Viruksa Manufacturing Solutions Pvt Ltd.,
- Dr. S. Ramanagopal (SR), Prof., Civil
- Dr. T. Thiruvankadam (TT), Asso. Prof / MBA
- Dr. M. Dhanalakshmi (MD), Assistant Prof / BME
- Dr. Anirudh Venkatraman Krishnan (AVK), Asso. Prof / Mech
- Dr. Nalinkanth V Ghone (NVG), Asso. Prof / Chemical
- Dr. R. Sundareswaran (RSN), Asso. Prof / Maths
- Ms. R. Sumetha (RSA), Assistant Prof / Civil
- Dr. C. Vinothkumar (CV), Asso. Prof / ECE
- Dr G. Sethuraman (GS), Librarian
- Mr. B.K. Nithin (BKN), III-year B. Tech / IT
- Ms. S. Geetha (SG), III-year B. Tech / Chemical
- Dr. N. Venkateswaran (NV), Professor / BME, Coordinator -IQAC

Agenda

- ✓ Welcome address by the Principal, SSNCE and Chairman, IQAC
- ✓ Approval of Minutes of the previous meeting by the Coordinator, IQAC
- ✓ Report on the PG NBA Accreditation by the Vice- Principal, SSNCE
- ✓ Report on IQAC Internal audit the Coordinator, IQAC
- ✓ Plan of action for the External academic audit - Coordinator, IQAC
- ✓ IIQA Submission and approval regarding - Coordinator, IQAC
- ✓ Report on current Placement activities – Dr. N. Lakshmi Narasimhan
- ✓ Industry contacts for student internships and projects - All
- ✓ Report on SSN Innovation Day -Dr.N. Balaji, Coordinator, SSN Incubation foundation.
- ✓ Any other points are open for discussion.

Minutes

The meeting started at 10.30AM. The IQAC Coordinator welcomed all the members to the meeting. Thereafter the following subjects were discussed and deliberated.

Item No.1. Welcome address by the Principal, SSNCE and Chairman, IQAC

Dr. V. E. Annamalai, Chairman – IQAC welcomed all the members for the meeting and requested the members to self-introduce.

Item No.2. Approval of Minutes of the previous meeting by the Coordinator, IQAC

The coordinator presented a brief about the previous meeting and said the minutes were sent by email to all the committee members.

Item No 3. Report on the PG NBA Accreditation by the Vice- Principal, SSNCE

Dr. S. Radha, Vice principal, informed the results of the NBA visit during June 2023. She said all 5 PG programs (PED, CS, CSE, Medical Electronics, Manufacturing Engineering) have got NBA accreditation for 3 years for the period 2023-2026. Mr. N.Sivasankaran, industry expert member IQAC wanted to understand the reasons for the low percentage of admission in PG programs.

Item No 4. Report on IQAC Internal audit the Coordinator, IQAC

ISO internal audit was conducted to all academic departments covering all the 19 courses from 21.07.2023 to 29.07. 2023. The auditor's report found that the academic teaching learning process and other activities has been fully adhered to as per the process. However, a few recommendations have also been suggested for each department by the auditors to bring improvement. This will be actively considered by the department concerned. Mr. NS appreciated the efforts of the auditors and said the maximum number of non- compliances may be raised so that the quality can improve further.

Item No 5. Plan of action for the External academic audit - Coordinator, IQAC

The External Audit has been proposed to assess and ensure the quality of the academic and supporting system. Ten external audit experts will be invited, and each department will be audited by one auditor Based on the availability of external audit members it is tentatively planned during the third/Fourth week of October 2023. To a question on inviting the choice of the auditors, Dr. VEA mentioned that the expert academic members with expertise in IQAC functions from other colleges will be invited. Further, VAE insisted that the audit be completed in a single day.

Item No 6. IIQA Submission and approval regarding - Coordinator, IQAC

The IQAC Coordinator mentioned that the IIQA was submitted to NAAC last month and is waiting for the approval of NAAC for SSR submission. Dr. VEA insisted that it has to be submitted within the stipulated time and informed that NAAC gives more emphasis on NEP 2020 implementation in the accreditation process.

Item No. 7: Report on current Placement activities – Dr. N. Lakshmi Narasimhan

Dr. N. Lakshmi Narasimhan, Faculty in charge of placement gave a brief about the placement activities since the start of the semester. He gave details about different companies visited and CTC package offered. He also gave details about the number of students already placed (Super Dream, Dream, Core, Non-Core, Multiple). He was optimistic that by December 2023 almost all eligible students could get placement. Dr. NL further said that the training for placement offered during the third year was useful. Mr. NS said that now a days, the attitude of the candidate is very much essential in determining how well the candidate is suitable for the company. Dr. VEA mentioned that training for placement can start in the first year of study with an emphasis on personality development through group discussion.

Item No. 8: Industry contacts for student internships and projects – All

With reference to the industry contact, Mr. V. Kumara Subramanian, Industry Expert member-IQAC said that he can facilitate student and faculty internship. This will be more than an internship offered through placement office. He expressed that more internship opportunities that are currently available for MBA students and said he would further help in this regard to the students of MBA.

Item No. 9: Report on SSN Innovation Day - Dr.N. Balaji, Coordinator, SSN Incubation foundation.

Dr.N. Balaji, Coordinator, SSN incubation foundation, who could not be present during the meeting sent all the relevant information for discussion on the annual Innovation Day held on September 6th, 2023. Mr. Shankar Venugopal, Vice President - Technology and Innovation, Mahindra and Mahindra were the chief guest. A total of 70 innovation projects (92 faculty members and 150 students of SSNCE participated) were displayed and 41 companies along with 76 industry experts visited the event.

Item No. 10: Any other points are open for discussion.

Dr. SR mentioned that with the participation of the Mechanical, IT and Mathematics departments of SSNCE, a presentation was given to DST – FIST in New Delhi on 1-9-2023 for funding to the tune of 1.5 crores towards infrastructure development. Dr. VEA appreciated the outcome of the previous FIST project awarded to ECE department and hoped that this project may also get funded.

To a discussion on improving the perception and image of SSNCE, Mr. NS suggested the use of digital technology and visual communications. He gave a few examples of a few institutions that are adopting this method. He also suggested that alumni teams can be reached out for this purpose.

Dr. SR informed that SSNCE has received the India Research Excellence Citation Awards 2023 on 28/09/2023 awarded by Clarivate, for the quality publications and citation under college category for the period 2017- 2022. Clarivate analytics acknowledges that SSNCE has published 3234 technical papers indexed in Web of Science (WoS) journals with more than 28000 citations out of which more than 40 papers are categorized as highly cited.

In further improving the quality of research, Dr. VEA mentioned that the research advisory committee that met on 27.08.2023, suggested bringing in retired faculty from CSIR labs, who were active in research in the past five years on full time appointment basis. Further, he mentioned that Dr.TV Geetha, Retired Professor, CEG, Anna University has been recently appointed as Distinguished Visiting Faculty for the promotion of research.

In his concluding remarks the Chairman thanked all the members for their contribution and since there were no further items for discussion, the meeting came to an end at 11.45 am.

Actionable Plan:

Sl.No.	Action identified	Person	Target date
1	Conduct of External academic audit	IQAC Coordinator	31/10/2023
2	NAAC SSR submission	IQAC Team	Within 45 days of IQA approval
3	Placement training for first year	Dr. N. Lakshmi Narasimhan	During the academic year
4	Use of digital marketing to improve the perception and image of SSNCE	Dr. V. E. Annamalai	31/12/2023
5	Inviting Retired scientists from CSIR to SSNCE	All Head of Departments	31/12/2023



Dr.V.E. Annamalai

Chairman (IQAC), Principal

Dr. V.E. ANNAMALAI
Principal
Sri Sivasubramaniya Nadar
College of Engineering
Rajiv Gandhi Salai (OMR)
Kalavakkam 603114

MINUTES OF THE FOURTH IQAC MEETING (2023-24)
Held on 20.12.2023 at 11.00 AM.

The following members were present:

- Dr. V.E. Annamalai, Principal, SSNCE
- Mr. V. Kumarasubramanian, Sr. Manager (Retd), TI-IIC (Murugappa Group), Director (Technical), Zygote India.
- Mr. N. Sivasankaran, Director – Innovation & Technical, Viruksa Manufacturing Solutions Pvt Ltd, Chennai
- Mr. Varun Krishnan, Alumni (BE ECE - 2006)
- Mr. R. Gopalakrishnan, Dy. Manager – Admin
- Dr. T. Thiruvankadam, Asso. Prof / MBA
- Dr. Anirudh Venkatraman Krishnan, Asso. Prof / Mech
- Dr. Nalinkanth V Ghone, Asso. Prof / Chemical
- Dr. R. Sundareswaran, Asso. Prof / Maths
- Ms. R. Sumetha, Assistant Prof / Civil
- Dr. Malathy.E.M, Assistant professor/ IT
- Dr. Vinothkumar, Asso. Prof / ECE
- Dr. N. Venkateswaran, Professor / ECE, Coordinator -IQAC
- Dr. Durgadevi, Assistant professor/ IT

Agenda

- Welcome address by the Principal, SSNCE and Chairman, IQAC
- Approval of Minutes of the previous meeting - Coordinator, IQAC
- Report on the UG NBA Accreditation for three departments - Vice- Principal, SSNCE
- Report on IQAC External audit conducted on 03.11.2023- Coordinator, IQAC
- Report on the AQAR submission for the year 2022 -23- Coordinator, IQAC
- IIA clarifications submitted regarding - Coordinator, IQAC
- Announcement of Alumni Day regarding - Principal, SSNCE and Chairman, IQAC
- Any other points are open for discussion.

Minutes

The meeting started at 11.00AM. The IQAC Coordinator initiated the meeting. Thereafter the following subjects have been discussed and deliberated.

Item No.1. Welcome address by Dr. V. E. Annamalai, Principal, Chairman, IQAC

The IQAC Chairman, Dr. V. E. Annamalai, Principal, IQAC welcomed the members all the members for the meeting. Thereafter the following subjects were discussed and deliberated.

Item No.2. To approve the minutes of the last meeting of IQAC held on 11.10.2023.

The coordinator presented a brief about the previous meeting and informed about action taken. Earlier, the minutes were sent by email to all the members of the committee.

Item No 3. To appraise the members UG NBA Accreditation visit for three UG departments.

The IQAC Chairman Dr. V. E. Annamalai, Principal, appraised members on the recent NBA expert committee visit for the following UG program. B.E. in Mechanical Engineering, B.E. in Civil Engineering and B. Tech in Chemical Engineering during 15, 16 and 17 Dec 2023. The Chairman mentioned that the expert team appreciated excellent infrastructure and teaching learning process in SSNCE.

Item No 4. IIQA clarifications submitted regarding.

The IQAC Coordinator said after the IIQA submission, the NAAC sought few clarifications and documents. He said the details have been submitted and looking for the permission of NAAC to submit the SSR for the third cycle of NAAC accreditation.

Item No 5. Report on IQAC External audit conducted on 03.11.2023.

The IQAC Coordinator gave a brief about External Academic Audit (AA) for the academic year 2022-2023 conducted on 3rd Nov 2023, by the Internal Quality Assurance Cell (IQAC) of SSNCE. Ten External academic experts were invited to carry out the audit. He presented the views and suggestions of the external audit members about the various departments audited to the IQAC members.

Item No 6. Report on the AQAR submission for the year 2022 -23

The IQAC Coordinator said the data templates and evidence of the seven criteria for AQAR 2022 -23 is collected and to be entered in the NAAC website. He said that it will be submitted well before the deadline.

Item No 7. Other points are open for discussion.

1. Mr. V. Kumara Subramanian, Industry Expert member-IQAC, said that currently there is a slackening of requirements across industry and hoped that it will only be temporary and revived during the next financial year.
2. The Dr. V. E. Annamalai pointed out a few externally funded projects received by SSNCE recently. He appraised the members about the grant of 27 Lakhs by SERB -CRG, DST sanction of Rs.57 lakhs under -FIST (Fund for Infrastructure development in science and Technology) and another 40 lakhs for setting up of 5G use case lab.
3. **Indian Green Building Council:** Indian Green Building Council had rated SSNCE Campus with the highest rating of Platinum and the award was received in the IGBC conference, conducted during Nov 24-27. SSNCE also won the performance challenge award.
4. **Vistors to SSNCE:** The Chair mentioned the recent visit of members from Arizona State University for possible Collaboration. Dr. Nalinkanth V Ghone, described the visit of delegates from the

countries viz. Malaysia, Myanmar, Syria, Guinea, Sri Lanka, Sria, Ethiopia, Fiji, Zimbabwe, Ghana, Niger, Madagascar, Uzbekistan, Botswana, and Tajikistan as a part of One Day International Training Program on "QUALITY ASSURANCE THROUGH ACCREDITATION IN HIGHER EDUCATION FOR DEVELOPING COUNTRIES" organized by IQAC, SSNCE along with NITTTR, Chennai.

5. Green Hydrogen Project: The Chair briefed them on the green hydrogen Project and thanked the effort of Mr. Sivasankaran, Industry expert member. He further said that now DST has called for project proposals under Green Hydrogen initiative.
6. The Chair informed the members about the new approval process in AICTE for the period 2024-2027 by the Chairman Dr. T. G. Sitharam. He said Well performing colleges need not apply every year and get affiliation for three years in one step.
7. Mr. Sivasankaran appreciated SSN for getting 10 patent grants in a quick time. He said that he will help build industry links in the coming days. To a point on improving the placement, he suggested students create personal branding.

Item No. 7: Concluding remarks by Chairman and members of IQAC.

In his concluding remarks the Chairman thanked all the members for their contribution in the enhancement of quality in all departments of SSNCE. Since there were no further items for discussion, the meeting came to an end at 11.30 am.


Dr. N. Venkateswaran
Coordinator (IQAC)


Dr.V.E. Annamalai
Chairman (IQAC), Principal

Dr. V.E. ANNAMALAI
Principal
Sri Sivasubramaniya Nadar
College of Engineering
Rajiv Gandhi Salai (OMR)
Kalavakkam 603110

MINUTES OF THE FIFTH IQAC MEETING (2021-23)

Held on 28.03.2022 at 11.00 AM

The following members were present:

- Dr.V.E. Annamalai, Principal, SSNCE, Chairman – IQAC
- Mr. N. Sivasankaran, General Manager, Preethi Kitchen Appliances Pvt. Ltd., Chennai.
- Dr. C. Aravindan, Prof., CSE
- Dr. G. Sethuraman, Librarian
- Dr. C. Vinothkumar, Asso. Prof / ECE
- Dr. M. Pandi Kumar, Asso. Prof / EEE
- Dr. Kilaru Harshavardhan, Asso. Prof / Chemical
- Dr. D. Thenmozhi, Asso. Prof / CSE
- Dr. V. Thanikachalam, Asso. Prof / IT
- Dr. Julie Charles, Asso. Prof / Physics
- Dr. P. Sreehari, Professor / Civil
- Dr. J. Suganthi/ Dr.J.Vijay, Asso. Prof / BME
- Dr. N. Venkateswaran, Professor / ECE , Coordinator -IQAC

Leave of absence:

- Mr. V. Kumarasubramanian, Sr. Manager (Retd), TI-IIIC (Murugappa Group), Director (Technical), Zygot India
- Mr. T. Shivkumar, Group Manager, Projects
- Dr. S. Nanda, Student Counsellor
- Mr. R. Gopalakrishnan, Dy. Manager - Admin
- Dr. S. Ramanagopal, Prof., Civil
- Dr. S. Narasimman, CoE & Prof., Maths
- Dr. Sunita Nair, Prof., Chemistry
- Mr. Anam Saatvik Reddy, IV B. Tech. (IT)
- Ms. S. Sadhana Smruthi, IV B.E. (CSE)
- Mr Mohinish Kumar, Data Analyst, LatentView Analytics
- Mr. Santosh Naranapatty, Product Engineer, Kaay Labs Pvt. Ltd.

Agenda

- To confirm the minutes of the last meeting of IQAC held on 24.12.2021.
- Understanding the QS IGAUGE rating – Dr.N. Venkateswaran
- Need for Green audit for next cycle of accreditation - Dr.N. Venkateswaran
- Forthcoming External Academic audit plan – Dr. Srinivas Gumparthi
- Preparing students for Industry ready – Shri.N. Sivasankaran, Industry Expert member-IQAC
- Any other points open for discussion with the permission of Chairman
- Concluding remarks - Dr. V.E. Annamalai.

Minutes

The IQAC Coordinator welcomed the members and gave a brief about the previous meeting. Thereafter following subjects have been discussed.

Item No. 1: Understanding the QS I-GAUGE rating

The IQAC coordinator gave a brief about QS I-GAUGE. It is a brand incorporated as an independent private-sector initiative for quality rating of colleges and universities in India in line with UK based QS (Quacquarelli Symonds). Apart from evaluating the core criteria, QS I-GAUGE also evaluates two of the advanced criteria. The institutions can choose between research and teaching type institutions. He explained the QS I-GAUGE rating process by taking an example of another institution. The result of the rating can be used as a scorecard to understand the strength and weakness and can be used a tool for institutional research and planning.

Item No. 2: Need for Green audit for next cycle of accreditation

The IQAC coordinator said that the NAAC requires to submit quality audits on environment and energy regularly. In this regard, he informed members about the green campus measures already in practice in our Institution such as restricted entry of automobiles, use of bicycles, the ban on use of plastic and landscaping with plants and trees etc. He also apprised to the members about the maintenance of various facilities such as sanitation and drainage, first aid kits, security and other safety measures. Further, he apprised about the water, waste and energy management practices of the Institution to meet the environmental sustainability.

Item No. 3: Forthcoming External Academic audit plan

Dr. Srinivas Gumparthi, ISO coordinator detailed about the preparations for academic audit and said it will be scheduled after two weeks of the announcement of the academic results during April 2022. He plans to conduct a two tier audit system covering more sample size.

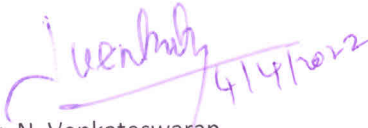
Item No. 4: Preparing students for industry ready.

Shri.N. Sivasankaran, Industry Expert member-IQAC, addressed the expectations of the industry and ways to prepare students to be Industry ready. He pointed out students should develop the right set of abilities to meet the current and future needs of the industry. He said knowledge, Skills and attitude are the three most important qualifies for students to be successful in working with industries. He further stressed the need for right attitude to be Innovative.

Item No. 5: Concluding remarks by Chairman - IQAC

Dr.V.E. Annamalai, Principal, Chairman– IQAC, said that QS I-GAUGE rating is one more measure similar to ISO, NBA, NAAC and NIRF ranking. He further added that the institution is preparing towards the Sustainability Tracking, Assessment & Rating System (STARS). It is a transparent, self-reporting framework for colleges and universities to measure their sustainability performance. The framework of STARS encompasses long-term sustainability that is suitable for our institution.

Since there were no items for discussion, the meeting came to an end at 12Noon.


Dr. N. Venkateswaran
Coordinator (IQAC)


Dr.V.E. Annamalai
Chairman (IQAC), Principal

MINUTES OF THE SIXTH IQAC MEETING (2021-23)

Held on 25.07.2022 at 10.30 AM

28.07.2022

The following members were present:

- Mr. V. Kumarasubramanian, Sr. Manager (Retd), TI-IIIC (Murugappa Group), Director (Technical), Zygo India
- Mr. N. Sivasankaran, Viruxa Manufacturing Solutions Pvt Ltd, Chennai
- Dr. G. Sethuraman, Librarian
- Mr. Anam Saatvik Reddy, B. Tech. IT Department
- Dr. C. Vinothkumar, Asso. Prof / ECE
- Dr. Kilaru Harshavardhan, Asso. Prof / Chemical
- Dr. D. Thenmozhi, Asso. Prof / CSE
- Dr. V. Thanikachalam, Asso. Prof / IT
- Dr. Julie Charles, Asso. Prof / Physics
- Dr. J. Suganthi/ Dr.J.Vijay, Asso. Prof / BME
- Dr. S. Ramanagopal, Prof., Civil
- Dr. Shajit Ali, Asso.prof,EEE
- Dr. N. Venkateswaran, Professor / ECE, Coordinator -IQAC
- Dr. K.T Selvan, Prof/ECE
- Dr. Premanand Chandramani, Prof/ECE

Leave of absence:

- Dr. V.E. Annamalai, Principal, SSNCE
- Mr. T. Shivkumar, Group Manager, Projects
- Dr. S. Nanda, Student Counsellor
- Mr. R. Gopalakrishnan, Dy. Manager – Admin
- Dr. C. Aravindan, Prof., CSE
- Dr. S. Narasimman, CoE & Prof., Maths
- Dr. Sunita Nair, Prof., Chemistry
- Ms. S.Sadhana Smruthi, CSE Department
- Mr. Mohinish Kumar, Data Analyst, LatentView Analytics
- Mr. Santosh Naranapatty, Product Engineer, Kaay Labs Pvt. Ltd.

Agenda

- To confirm the minutes of the last meeting of IQAC held on 28.03.2022.
- Integrating values into institutional culture – Dr.KT. Selvan, Professor, ECE
- Learning Outcomes – CO, PO and PSO attainment - Dr. Premanand Chandramani, Prof, ECE
- Course file preparation - Dr. Vijay, Associate Professor, BME
- Procedures for the forthcoming audit plan – Dr.Srinivas Gumparthi, MBA
- Improving the NAAC rating – key focus areas - Dr.N. Venkateswaran, BME
- Any other points open for discussion
- Concluding remarks

Minutes

The IQAC Coordinator welcomed the members and gave a brief about the previous meeting. Thereafter following subjects have been discussed and deliberated.

Item No. 1: Integrating values into institutional culture

Dr.K.T. Selvan, professor gave a short presentation on values in knowledge institutions. He elaborated on the importance of the value system that drives institutions in pursuit of excellence. He also explained "respect as a value" and ways to infuse respect as a culture in an organization.

Item No. 2: Learning Outcomes – CO, PO and PSO attainment

Dr. Premanand Chandramani, Professor, ECE Department explained the procedure followed for CO, PO and PSO attainment in the Outcome-Based Education (OBE). He said Course Outcomes are framed based on the expected outcomes of a course on a higher knowledge level and attainment of COs are measured both direct and indirect ways. He suggested that increased weightage for internals and slightly lower weightage for end semester examinations for arriving the final grade. Further, he said contribution of indirect assessment may be increased in the overall attainment.

Item No. 3: Plan for the Forthcoming audit

Dr. Srinivas Gumparthi, ISO coordinator detailed about the preparations for academic audit and administrative audit. He explained the working of the IQAC cell in infusing the quality. In the audit plan, he recommended a two-tier audit system covering more sample size. He also outlined the preparations for the eighth cycle of ISO certification planned in the month of December 2022.

Item No. 4: Course file management and contents

Dr. Vijay, Associate Professor, BME Department presented a system for Course file management with an emphasis on course material arrangement which is important for NAAC, NBA, and ISO audits. He suggested for a comprehensive course plan (course description, Co-PO mapping, CO assessment method and concept mapping) that can be followed for subsequent batches by taking some remedial measures for any deficiencies. He also suggested that course file may contain concept mapping and methods for experiential learning as well.

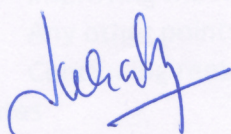
Item No. 5: Improving the NAAC rating – key focus areas:

Dr.N. Venkateswaran, Professor, BME, presented the key focus areas under autonomous system where NAAC evaluation can be improved upon based on the previous cycle of evaluation. He further said criteria wise analysis can be presented in the next meeting.

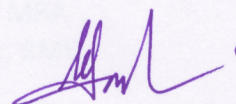
Item No. 6: Concluding remarks

Mr. V. Kumarasubramanian, Industry Expert member-IQAC said all the ongoing efforts presented in today's meeting are very relevant and will yield good results to the organization. Shri.N. Sivasankaran, Industry Expert member-IQAC, appreciated the presentation on Integrating values into the institutional culture and said the values can be based on the Mission and vision of the organization.

Since there were no further items for discussion, the meeting came to an end at 11.35 am.



Dr. N. Venkateswaran
Coordinator (IQAC)



Dr.V.E. Annamalai
Chairman (IQAC), Principal

MINUTES OF THE SEVENTH IQAC MEETING (2021-23)

Held on 31.10.2022 at 11.00 AM

08.11.2022

The following members were present:

- Dr. V.E. Annamalai, Principal, SSNCE
- Mr. V. Kumarasubramanian, Sr. Manager (Retd), TI-IIC (Murugappa Group), Director (Technical), Zygote India
- Mr. N. Sivasankaran, Viruxa Manufacturing Solutions Pvt Ltd, Chennai
- Dr. C. Aravindan, Prof., CSE
- Dr. G. Sethuraman, Librarian
- Mr. Anam Saatvik Reddy, B. Tech. IT Department
- Dr. C. Vinothkumar, Asso. Prof / ECE
- Dr. Kilaru Harshavardhan, Asso. Prof / Chemical
- Dr. D. Thenmozhi, Asso. Prof / CSE
- Dr. V. Thanikachalam, Asso. Prof / IT
- Dr. Julie Charles, Asso. Prof / Physics
- Dr. S. Ramanagopal, Prof., Civil
- Dr. Shajit Ali, Asso.prof,EEE
- Dr.Jino Hans, Associate Professor ECE.
- Dr.Kaythry, Associate Professor ECE.
- Dr. N. Venkateswaran, Professor / ECE, Coordinator -IQAC

Leave of absence:

- Mr. T. Shivkumar, Group Manager, Projects
- Dr. S. Nanda, Student Counsellor
- Mr. R. Gopalakrishnan, Dy. Manager – Admin
- Dr.J.Vijay, Asso. Prof / BME
- Dr. S. Narasimman, CoE & Prof., Maths
- Ms. S.Sadhana Smruthi, CSE Department
- Mr. Mohinish Kumar, Data Analyst, LatentView Analytics
- Mr. Santosh Naranapatty, Product Engineer, Kaay Labs Pvt. Ltd.

Agenda

- To confirm the minutes of the last meeting of IQAC held on 25.07.2022.
- Report on Internal Academic Audit held during Aug 2022
- Report on Academic Audit – External held during Sep 2022
- Gap analysis based on academic audits
- Plan of action for submission of AQAR 2021-2022
- Future Model of Assessment & Accreditation based on NEP 2020 - NAC
- Plan of action for SSR submission in May /June 2023 for the 3rd cycle of Accreditation
- Any other points open for discussion as permitted by the Chair
- Any other points open for discussion
- Concluding remarks

Minutes

The IQAC Coordinator welcomed the members and gave a brief about the previous meeting minutes of IQAC held on 25.07.2022. Thereafter following subjects have been discussed and deliberated.

Item No. 1: Report on Internal Academic Audit held during Aug 2022-

The coordinator detailed the process for the internal audit that was recently conducted. The audit was conducted for all academic departments during the period from 25.07.2022 to 29.07.2022. He

presented the observations by the auditors in terms of best practices and recommendations of each department. The same was shared with the department to take necessary actions.

Item No. 2: Report on Academic Audit – External held during Sep 2022 Gap analysis based on academic audits

The coordinator detailed the process of the external audit conducted by inviting ten experts from various other Institutions. The external academic audit was conducted for each academic departments including Humanities 23.09.2022. He presented a report on the consolidated evaluation by the external auditors in terms of the strengths, Weakness and best practices followed in SSNCE.

Item No. 3: Gap analysis based on academic audits

Based on the external auditor's reports, few gaps that are indicated in the report was presented by the IQAC coordinator. The same was informed to the departments to initiate actions towards closure of the gaps. The same will be verified in the month of November/December 2022.

Item No. 4: Community outreach activities – NSS Program Officers

The NSS program officers Dr.P. Kaythry and Dr. Jino Hans explained to the members the outreach and community activities conducted in the recent past and how those activities are beneficial to the members of the community. They also listed the number extension activities along with the routine activities and collaboration with the outside Organizations for the next few months.

Item No. 5: Plan of action for submission of AQAR 2021-2022 and SSR submission in May 2023

The IQAC Coordinator informed that the Submission of AQAR is opened last week for entry of data for the period June1,2022 to Aug 31, 2022. AQAR 2021-22 has few additional data to be entered compared to 2020 -21. He sought the cooperation of the department IQAC coordinators. He also outlined the plan of action with an eight-step process for the next cycle NBA accreditation.

Item No. 6: Future Model of Assessment & Accreditation based on NEP 2020

Based on the inputs received from a workshop attended by the IQAC coordinator, informed that NAAC 's Assessment and Accreditation process shall undergo an overhaul considering NEP2020 and Sustainable Development Goals 2030. The revised framework NAC will award binary decision on accreditation. Student learning beyond the scope of the program is considered important.

Item No. 6: Concluding remarks by Chairman and members of IQAC

Mr. V. Kumara Subramanian, Industry Expert member-IQAC appreciated the ongoing efforts are very positive and said the IQAC cell is putting up consistent efforts in the good direction for improving the quality culture in the Institution. He further appreciated the conduct of separate teams for external audit. Shri.N. Siva Sankaran, Industry Expert member-IQAC, appreciating the efforts and said as the students are the products of the institutions and encouraged to have more of audit with Employers.

In his concluding remarks Dr. V.E. Annamalai, Principal, Chairman -IQAC, said the institution focus is on more of socially responsible and sustainable activities. More programs will be planned for high school students with the focus on rural education. Dr. V.E. Annamalai, further said the need to associate with corporates and effort to be made to connect CSR with the large pool of available volunteers to utilize resources available in the form of CSR fund.

Since there were no further items for discussion, the meeting came to an end at 12.00 Noon.


Dr. N. Venkateswaran
Coordinator (IQAC)


Dr.V.E. Annamalai
Chairman (IQAC), Principal

MINUTES OF THE EIGHTH IQAC MEETING (2021-23)
Held on 31.12.2022 at 10.30 AM

31.12.2022

The following members were present:

- Dr. V.E. Annamalai, Principal, SSNCE
- Mr. V. Kumarasubramanian, Sr. Manager (Retd), TI-IIIC (Murugappa Group), Director (Technical), Zygote India
- Mr. N. Sivasankaran, Viruxsa Manufacturing Solutions Pvt Ltd, Chennai
- Dr. G. Sethuraman, Librarian
- Mr. Anam Saatvik Reddy, B. Tech. IT Department
- Dr. C. Vinothkumar, Asso. Prof / ECE
- Dr. Kilaru Harshavardhan, Asso. Prof / Chemical
- Dr. D. Thenmozhi, Asso. Prof / CSE
- Dr. V. Thanikachalam, Asso. Prof / IT
- Dr. Julie Charles, Asso. Prof / Physics
- Dr. S. Ramanagopal, Prof., Civil
- Dr. Shajit Ali, Asso.prof,EEE
- Dr. N. Venkateswaran, Professor / ECE, Coordinator -IQAC

Leave of absence:

- Dr. C. Aravindan, Prof., CSE
- Mr. T. Shivkumar, Group Manager, Projects
- Dr. S. Nanda, Student Counsellor
- Mr. R. Gopalakrishnan, Dy. Manager – Admin
- Dr.J. Vijay, Asso. Prof / BME
- Dr. S. Narasimman, CoE & Prof., Maths
- Ms. S.Sadhana Smruthi, CSE Department
- Mr. Mohinish Kumar, Data Analyst, Latent View Analytics
- Mr. Santosh Naranapatty, Product Engineer, Kaay Labs Pvt. Ltd.

Agenda

- To confirm the minutes of the last meeting of IQAC .
- “Future Forward - New Initiatives for 2023” – a presentation by Dr.V.E. Annamalai, Principal, SSNCE and Chairman, IQAC
- Any other points open for discussion as permitted by the Chair
- Concluding remarks

Minutes

The meeting started at 10.30AM. The IQAC Coordinator welcomed all the members for the meeting. Thereafter following subjects have been discussed and deliberated.

Item No. 1: To confirm the minutes of the last meeting of IQAC

The coordinator presented a brief about the previous meeting and informed actions taken. Earlier, the minutes was sent by email to all the members of the Committee. The same was agreed and adopted.

Item No. 2: “Future Forward - New Initiatives for 2023” – a presentation by Dr.V.E. Annamalai, Principal, SSNCE and Chairman, IQAC

Dr.V.E. Annamalai, Principal, SSNCE and Chairman, IQAC shared the Institutions plans for 2023 as “Future Forward”. He pointed out the recent engagement with the three bodies namely the IQAC committee, Governing Body and Research Advisory Council are very useful. Both Governing Body and

Research Advisory Council have appreciated the progress in Outcome based / Quantity based Metrics like Student outcomes [Higher studies and Placements] and Faculty Outcomes [Research, Publications, Patents, Projects]. Based on the discussions with the Governing Body and Research Advisory Council, the following generic points that are uniquely indicative of SSN have been identified.

- 1.Improving the Industry Orientation of Students and faculty
- 2.Improving the Quality of Learning
- 3.Measuring the Sustainability and Impact on Society
- 4.Quality Orientation in all actions -Shifting from quantity to quality

For each of these generic points the chair gave following suggestions and future actions.

- To identify some four or five generic points that are uniquely indicative of SSN, that can be tracked for qualitative improvements.
- To develop Socially Responsible support system for select schools [like Digital Library, NEET coaching etc]
- To conduct survey of Recruiting industries to understand "Industry Readiness"
- To study and select suitable Minor streams for Industry Readiness.
- To develop strategies for Learning without Teacher
- To develop training modules for mid class disruption
- To develop Value Added courses towards getting students ready for research Internships.
- To work with few industries to explore replicating their Incubator model at SSN
- To associate with few organizations and individuals for impact measurement of NSS/YRC activities.
- To consider revising PG Curriculum to facilitate one full year for projects.

He further said that six cross functional teams are created for tracking these points for qualitative and quantitative improvements.

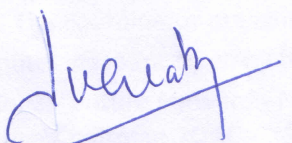
Item No. 3: Any other points open for discussion as permitted by the Chair

Industry Expert member-IQAC, Shri.N. Siva Sankaran, appreciated the points presented by the chair as future initiatives are in the right direction. He further said that there is a need to engage students with variety of activities. In the process, he appreciated the timely completion of all the industry projects with SSNCE and said the industry related projects should not be delayed. He recollected the concept namely the "Say: Do ratio" an indicator of trust and accountability. He further added that for industry related projects, faculty should remain in the front end and the ownership is with the faculty. He offered to help in getting industry projects for our students to work on.

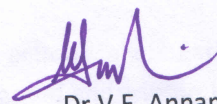
Mr. V. Kumara Subramanian, Industry Expert member-IQAC said, the sincere intent of SSNCE in all areas of quality is commendable and the ongoing efforts are in the right direction. He said the support from industry is always available. He further said that M/s Streetlights, where he is a Director, would like to take up activities along with NSS wing of SSNCE for societal improvements.

Item No. 4: Concluding remarks by Chairman and members of IQAC

In his concluding remarks the Chairman thanked all the members for their contribution in the enhancement of quality in all departments of SSNCE. Later, the members exchanged New Year's greetings! Since there were no further items for discussion, the meeting came to an end at 11.30 am.



Dr. N. Venkateswaran
Coordinator (IQAC)



Dr.V.E. Annamalai
Chairman (IQAC), Principal

MINUTES OF THE FIRST IQAC MEETING (2021-23)

Held on 19.03.2021 at 10.00 AM

The following members were present:

- Dr.V.E. Annamalai, Principal, SSNCE, Chairman – IQAC
- Mr. V. Kumarasubramanian, Sr. Manager (Retd), TI-IIIC (Murugappa Group), Director (Technical), Zygote India
- Mr. N. Sivasankaran, General Manager, Preethi Kitchen Appliances Pvt. Ltd., Chennai.
- Dr. C. Aravindan, Prof., CSE
- Dr. G. Sethuraman, Librarian
- Dr. C. Vinothkumar, Asso. Prof / ECE
- Dr. M. Pandi Kumar, Asso. Prof / EEE
- Dr. Kilaru Harshavardhan, Asso. Prof / Chemical
- Dr. D. Thenmozhi, Asso. Prof / CSE
- Dr. V. Thanikachalam, Asso. Prof / IT
- Dr. Julie Charles, Asso. Prof / Physics
- Dr. P. Sreehari, Professor / Civil
- Dr. J. Suganthi/ Dr.J.Vijay, Asso. Prof / BME
- Dr. Sunita Nair, Prof., Chemistry
- Mr.Anam Saatvik Reddy, IV B. Tech. (IT)
- Ms. S.Sadhana Smruthi, IV B.E. (CSE)
- Mr Mohinish Kumar, Data Analyst, LatentView Analytics
- Mr. Santosh Naranapatty, Product Engineer, Kaay Labs Pvt. Ltd.
- Dr. N. Venkateswaran, Professor / ECE , Coordinator -IQAC

Leave of absence:

- Mr. T. Shivkumar, Group Manager, Projects
- Dr. S. Nanda, Student Counsellor
- Mr. R. Gopalakrishnan, Dy. Manager - Admin
- Dr. S. Ramanagopal, Prof., Civil
- Dr. S. Narasimman, CoE & Prof., Maths

Agenda

- To confirm the minutes of the last meeting of IQAC and approve the Action Taken Report
- To propose quality improvement / sustenance /enhancement strategies for the year 2020-21:

Key Areas

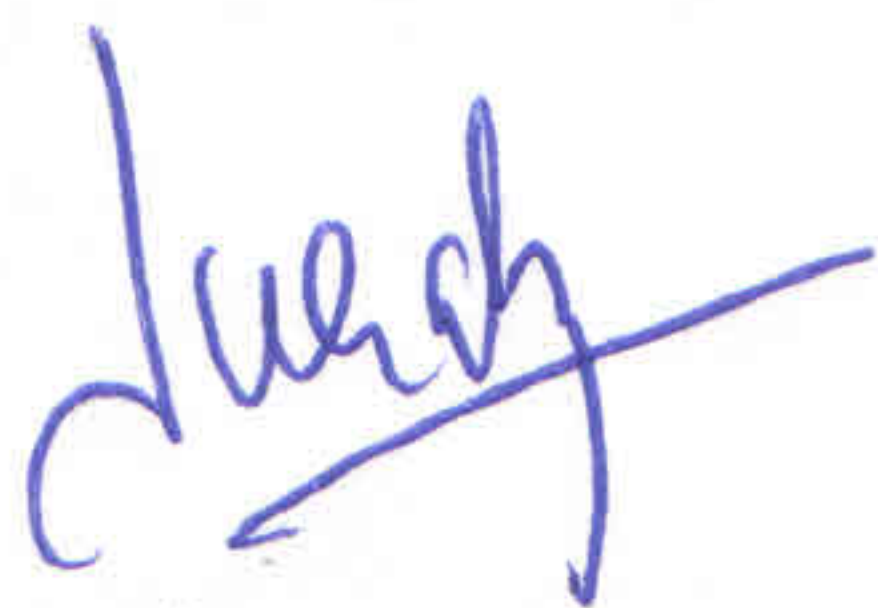
- Curriculum development
- Teaching and learning
- Examination, evaluation and reforms
- Promotion of Research and development

- Consultancy and Innovation ecosystem
- Library
- Physical Infrastructure
- Human resource management
- Industry interaction
- Student feedback
- Any other item with the permission of the Chair.

Minutes

- The IQAC coordinator welcomed the members and gave a brief introduction of the members of the committee. He thanked previous IQAC members for the timely submission of AQAR and Action taken report for last year (2019 -20) to NAAC. The details of the same is available in our college webpage. In his opening remark, he briefed about the importance and focus of Internal Quality Assurance Cell to ensure quality culture at all levels of the institution He also briefed about the importance of Annual Quality Assurance Report (AQAR) to be submitted to NAAC every year as per the format prescribed and available online.
- In his opening address, the chairman -IQAC, Dr.V.E. Annamalai, briefed about the curriculum revision (R2021), wherein number of new courses being introduced with an emphasis on academic flexibility. This exercise is expected to be completed by April 2021. The chairperson further briefed about the different facilities provided during the pandemic for teaching and learning using Online platforms such as Zoom, PANAPTO and Microsoft teams with the help of Dr.C. Aravindan. With reference to Examination and evaluation the chairman said Dr. Narasimhan, CoE team is exploring the possibility of conducting open book type of Examination.
- The chairman further explained steps taken to promote R&D activities. The institution encourages faculty to obtain external funded projects and inter disciplinary collaborative projects. With reference to innovation, he further said SSNCE is preparing for Atal Ranking of Institutions on Innovation Achievements (ARIIA) this year. However, he agreed that the institution has to improve upon activities related to consultancy and collaboration with industries.
- With reference to library access chairman said remote access is provided during pandemic through online library management system. With reference to physical infrastructure the chairman said it is always challenging as ever-expanding activities in the campus. He mentioned about the R&D projects worth 12.05 crores received from DST by Prof Ramasamy requiring additional infrastrure.
- The chairman pointed out that clean transparent performance appraisal scheme for incentives and promotions is in place. He also said our institution has the unique scheme wherein faculty members are encouraged to go for internship with industries.

- Mr. V. Kumara Subramanian, Expert member from industry and a consultant to number of industries agreed to extend his help for faculty interaction with industries. He invited details about the faculty strength in different domains.
- Mr. N. Sivasankaran, another member from industry informed the gap that exists between industry expectations vis -a vis level of the student at the time of passing out. He wanted students should be trained on leadership skills with sense of urgency (entrepreneurship). He also insisted that institution can showcase its strength through demo day.
- Mr. Mohinish Kumar, Data Analyst opined that through online platforms the content absorbed by students and tests are in general not effective. He suggested that students may be asked to compile notes on a weekly basis on the topics he/she learned.
- Mr. Santosh Naranapatty, Kaay Labs said that students on entering in to industry have to relearn/ new learn many subjects and also found lack of communication skills. The chairman responded the new regulation R2021 have incorporated more open electives and introduced activity-based learning i.e., learning by doing. Students also encouraged to take up NPTEL courses in exchange of electives in the final semester.
- With reference to communication skills both the industry experts Mr. V. Kumara Subramanian and Mr. Siva Shakaran have agreed that students may be trained more on Soft skills and group discussion and they should be free from any mind set blocks. The chairperson responded that in the revised curriculum R2021 new course on industrial practices with lab component is being introduced.
- Student representative Mr. Anand Satvik brought to the notice of flow of false and misinformation and wanted to reduce the information gap between students and college.
- Another student representative Ms. Sadhana Smrithi, wanted inculcate gender-sensitivity programs and workshops, considering the diversity of the members in the institution. Ms. Sadhana also wanted college to set up a redressal system/body for women.
- The chairperson thanked the members for their active participation in the meeting.



Dr. N. Venkateswaran
Co-ordinator -IQAC



Dr.V.E. Annamalai
Chairman (IQAC)
Principal

MINUTES OF THE SECOND IQAC MEETING (2021-23)

Held on 28.06.2021 at 10.00 AM

The following members were present:

- Mr. V. Kumarasubramanian, Sr. Manager (Retd), TI-IIIC (Murugappa Group), Director (Technical), Zygote India
- Mr. N. Sivasankaran, General Manager, Preethi Kitchen Appliances Pvt. Ltd., Chennai.
- Dr. G. Sethuraman, Librarian
- Dr. C. Vinothkumar, Asso. Prof / ECE
- Dr. M. Pandi Kumar, Asso. Prof / EEE
- Dr. Kilaru Harshavardhan, Asso. Prof / Chemical
- Dr. D. Thenmozhi, Asso. Prof / CSE
- Dr. V. Thanikachalam, Asso. Prof / IT
- Dr. Julie Charles, Asso. Prof / Physics
- Dr. P. Sreehari, Professor / Civil
- Dr. J. Suganthi/ Dr.J.Vijay, Asso. Prof / BME
- Dr. S. Nanda, Student Counsellor
- Dr. S. Ramanagopal, Prof., Civil
- Mr. Anam Saatvik Reddy, IV B. Tech. (IT)
- Ms. S. Sadhana Smruthi, IV B.E. (CSE)
- Dr. N. Venkateswaran, Professor / ECE, Coordinator -IQAC

Leave of absence:

- Mr. T. Shivkumar, Group Manager, Projects
- Mr. R. Gopalakrishnan, Dy. Manager - Admin
- Dr. S. Narasimman, CoE & Prof, Maths
- Dr. C. Aravindan, Prof., CSE
- Dr. Sunita Nair, Prof., Chemistry
- Mr Mohinish Kumar, Data Analyst, Latent View Analytics
- Mr. Santosh Naranapatty, Product Engineer, Kaay Labs Pvt. Ltd.
- Dr.V.E. Annamalai, Principal, SSNCE, Chairman – IQAC

Agenda

- To confirm the minutes of the last meeting of IQAC and Action taken report first IQAC meeting held on 19.03.2021
- NBA application submission
- Curriculum development – Revision 2021
- Human resource management-AICTE Distinguished Chair Scheme- Professor Prem Vrat, IIT (ISM) Dhanbad
- New Practices in teaching and learning
- New Initiative – Activity for Institutional Development [AID]
- Promotion of Research and development
- Industry interaction
- Student feedback
- Any other item with the permission of the Chair

6. New Initiative – Activity for Institutional Development [AID]

- Further, the chairman conveyed that for the development of the Institution, a set of major activities were identified, listed with a brief description of what is needed to be done and circulated to all faculty during the month of April 21, with a request to select two activities of their choice. After studying their choice, these activities were deployed to individuals. Few example activities were described by the coordinator and the members in general said that it will be helpful in understanding and functioning of each activity.

7. Promotion of Research and development

- Research Internship for other college students** introduced at Rs.5,000 per month to cover boarding / lodging expenses, extendable for three months, during summer. The objective of this program is that other college students can experience SSN's research culture. In the month of June 2021, 120 virtual projects were offered to students of other Institutions. The chairman shared the information that 12 international conferences have been organized across the departments and for the period July 2020 to May 2021, a total of 461 International Journal publications are reported by SSNCE faculty.
- The chairman also reported that "The SSNCE database of Tamil dysarthric speech", developed at Speech lab, SSNCE, is now released by the Linguistic Data Consortium (LDC), University of Pennsylvania, officially, for rehabilitation research. LDC is a globally renowned distributor of linguistic data. The members appreciated the team for their efforts.

8. Industry interaction. The chairman wanted to share the following information about the MoUs signed with other Institutions.

S.No.	Company for Collaboration	Month
1	SEED for Safety	March 2021 (Chemical)
2	Fisheries and Research Institute	Dec. 2020 (ECE)
3	While Blue Cloud Services	Dec. 2020 (Mech)
4	RoboRam	Dec. 2020 (Mech.)
5	Chettinad Hospital and Research and Education	Dec. 2020 (BME)
6	RMIT University	2020 (Chemical)
7	Kornerstone Devices Private Limited	2020 (BME)
8	Vital Bio-Systems Pvt. Ltd.	2020 (BME)

- Mr. V. Kumara Subramanian, Expert member from industry and a consultant said that details of few faculty who have agreed to interact with industries is received from Department of Mechanical Engineering and he will be assigning the industries to them soon.

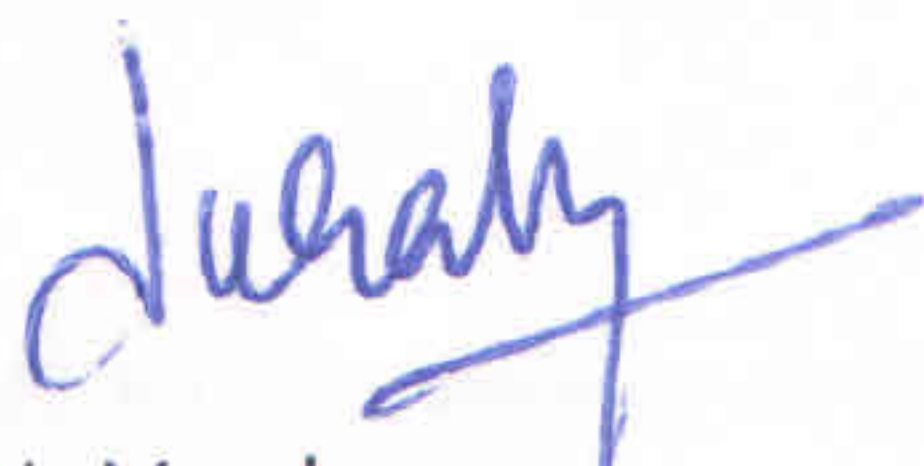
9. Student feedback:

- For a question on student feedback, the Coordinator said a formal student feedback on every subject is taken online, at the end of every semester and communicated to the concerned faculty and HoD. Corrective actions are planned between faculty and HoD, whenever the feedback score is less than 60%.

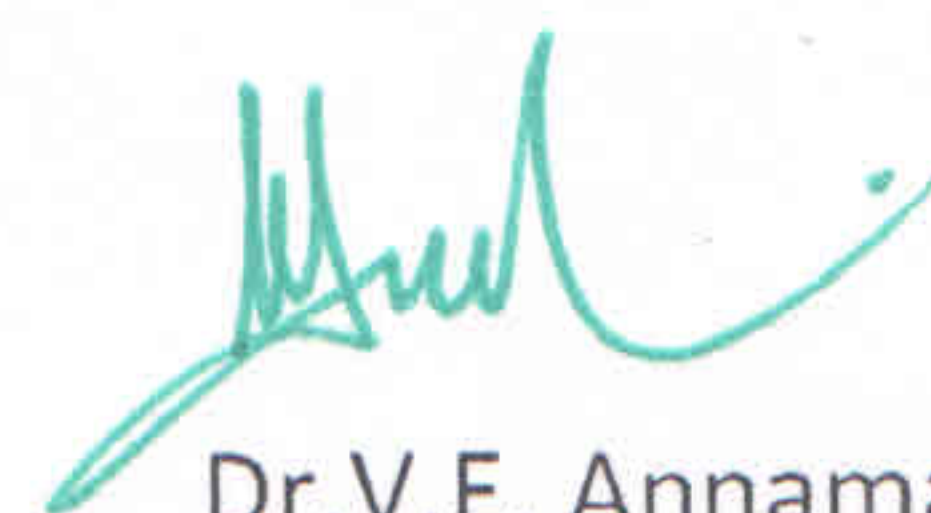
- With reference to feedback, the student representative Ms. Sadhana Smrithi, observed that the feedback form is generally faculty centric and a section on placement and training etc., can be included. She further suggested that another overall feedback for the system as a whole that includes extracurriculars, workshops etc may be collected to understand the needs of the students.

10. Other points of discussion

- Mr. N. Sivasankaran, member from industry suggested that students could learn certain industry relevant tools so that the gap between industry expectations and the level of the graduated student may be reduced. He wanted students should be trained on new skills such as innovation and problem-solving skills through a new model that can also be assigned with Certain Credits.
- 180-degree consulting chapter to seek opportunities for non-tech or non-core interested students: Student representative Ms. Sadhana Smrithi said such chapter can be opened in SSN, similar to the one started recently in NIT Trichy and IIT M. It has a tie-up with city non-profits or small companies that can't afford business solutions or professional consulting services of their own. Here, students take on a project and help find solutions. Student representative Mr. Anand Satvik, also said many international B schools have this model.
- Both the members from Industry and the student representative members said there is a need for Career fair. Most of the students attending placements look for alumni's personal placement and higher studies experiences for their preparation. Ms. Sadhana Smrithi wanted that Alumni may be invited two months prior to the start of placement to speak about their career trajectory and other role in industry post SSN.
- The coordinator said Dr.C. Aravindan, HoD IT, has agreed to present a detailed discussion on the introduction of Experiential Learning during the next meeting. The coordinator also invited suggestions and presentations from all the members so that active contribution is ensured to IQAC.
- The coordinator thanked the members for their active participation in the meeting.



Dr.N. Venkateswaran,
Coordinator(IQAC)



Dr.V.E. Annamalai
Chairman (IQAC)
Principal

MINUTES OF THE THIRD IQAC MEETING (2021-23)

Held on 28.09.2021 at 10.30 AM

The following members were present:

- Dr.V.E. Annamalai, Principal, SSNCE, Chairman – IQAC
- Mr. V. Kumarasubramanian, Sr. Manager (Retd), TI-IIIC (Murugappa Group), Director (Technical), Zygote India
- Mr. N. Sivasankaran, General Manager, Preethi Kitchen Appliances Pvt. Ltd., Chennai.
- Dr. G. Sethuraman, Librarian
- Dr. C. Vinothkumar, Asso. Prof / ECE
- Dr. Kilaru Harshavardhan, Asso. Prof / Chemical
- Dr. D. Thenmozhi, Asso. Prof / CSE
- Dr.U.Shajith Ali, Asso. Prof / CSE
- Dr. V. Thanikachalam, Asso. Prof / IT
- Dr. Julie Charles, Asso. Prof / Physics
- Dr. P. Sreehari, Professor / Civil
- Dr. J.Vijay, Asso. Prof / BME
- Mr.Anam Saatvik Reddy, IV B. Tech. (IT)
- Dr. V. Rajini, Prof/EEE
- Mr. Jothy Basu, Placement Officer
- Dr. Srinivas Gumparthy, Prof/MBA
- Dr. N. Venkateswaran, Professor / ECE, Coordinator –IQAC

Leave of absence:

- Mr. T. Shivkumar, Group Manager, Projects
- Dr. S. Nanda, Student Counsellor
- Mr. R. Gopalakrishnan, Dy. Manager - Admin
- Dr. S. Ramanagopal, Prof., Civil
- Dr. C. Aravindan, Prof., CSE
- Dr. S. Narasimman, CoE & Prof., Maths
- Dr. Sunita Nair, Prof., Chemistry
- Ms. S. Sadhana Smruthi, IV B.E. (CSE)
- Mr. Mohinish Kumar, Data Analyst, LatentView Analytics
- Mr. Santosh Naranapatty, Product Engineer, Kaay Labs Pvt. Ltd.

Agenda

- Report on IQAC audit.
- Integration of ISO and IQAC activities.
- Report on NBA visit.

- Report on NIRF 2021 SSNCE ranking.
- Report on Placement.
- Improvements in innovation teaching and learning.
- Industry engagement for student internships and projects.
- Enhancement of entrepreneurship among students.
- Any other plan of action for quality enhancement with the permission of chairman.

Minutes

- The IQAC coordinator welcomed the members and gave a brief about the previous meeting. Thereafter the following subjects have been discussed.

Item No. 1: Report on IQAC audit:

The IQAC Coordinator briefed about the Academic and Administrative Audit held during the last week of August 2021. He presented the observations of the auditors through a consolidated report on the best practices followed and recommendations for quality improvement. Further, he presented the status of the current accreditation and the criteria wise CGPA score obtained. He further said the preparation for reassessment process can start from June 2022. Further, he put forward to the members for their suggestion and follow-up required towards improving the criteria wise scores through a power point presentation.

Item No.2: Integration of ISO and IQAC activities:

Prof Srinivas Gumparathi explained the initiative of integrating the audits of ISO with IQAC. The audits for ISO and IQAC were conducted as a single audit, by the joint efforts of ISO Coordinator Prof Srinivas Gumparathi with IQAC coordinator Prof Venkateswaran.

Item No.3: Recent NBA visit.

The Chairman - IQAC, Dr.V.E. Annamalai, briefed about the NBA accreditation team visit (online) during September 17 to 19, 2021. EEE, ECE, CSE, IT and BME programs were audited by NBA and the Experts interacted online, through zoom links. The chairman shared views and the feedback of the NBA team. He proposed certain action points such as common approach in CO-PO mapping, attainment calculation etc. The chairman further explained that the taskforce has been created and the need to improve documentation of the activities.

Item No.4: Report on NIRF 2021 SSNCE ranking

Dr.V.Rajini, Professor, Department of EEE, presented the NIRF21 results through a PPT presentation. SSNCE is ranked 45th position in Engineering category and 89 in overall category. She mentioned a slight improvement in the score against last year in Engineering category. However, she mentioned that competition among institutions is growing and more

and more Institutions including centrally funded Institutes also participate in the ranking framework.

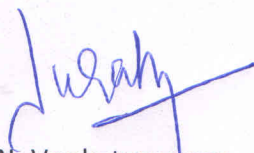
Item No.5: Review on Placement Process:

Mr. Joythibas, Manager – Placement, presented the statistics and improvements in placement over the last three years with reference to Number of companies visited, Number of offers received etc., in different categories. Mr. Joythibas also mentioned that there is significant increase in the average annual salary for every year. He further elaborated on the improvement plans and the areas of focus in the next year due to the changes in the industry dynamics due to Covid -19 pandemic.

Item No.6: Any other matter with the permission of Chair:

1. With reference to improvements in internship opportunities for the industry experts Mr. V. Kumara Subramanian, Industry expert expressed that that the internship period should be sufficiently long. The chairman -IQAC, Dr.V.E. Annamalai said that for UG courses in the 8th semester is fully available and for PG students entire 4th semester and partially 3rd semester is available. Mr. V. Kumara Subramanian, further assured that he will be able to find more internship opportunities from industry.
2. Mr. Siva Shakaran, another industry expert suggested that the need improve Research and development requirements to improve the NAAC rating. The chairman -IQAC, Dr.V.E. Annamalai said that faculty are constantly applying for research funding from external agencies to improve the R&D. Mr. Siva Shakaran further said that more consultancy opportunities may be tried by showcasing the talent. He offered support from industry towards Mentorship/Coaching for 3rd and final year students.
3. The chairman - IQAC, Dr.V.E. Annamalai thanked all the members for their participation and further said that the IQAC will focus more on the objectives related to the seven NAAC criteria.

Since there were no items for discussion, the meeting came to an end.



Dr. N. Venkateswaran
Coordinator – IQAC



Dr.V.E. Annamalai
Chairman (IQAC)
Principal

Sri Sivasubramaniya Nadar College of Engineering
(An Autonomous Institution, Affiliated to Anna University)

MINUTES OF THE FOURTH IQAC MEETING (2021 -22)

Held on 24.12.2021 at 11.00 AM

The following members were present:

- Dr.V.E. Annamalai, Principal, SSNCE, Chairman – IQAC
- Mr. V. Kumarasubramanian, Sr. Manager (Retd), TI-IIIC (Murugappa Group), Director (Technical), Zygote India
- Mr. N. Sivasankaran, General Manager, Preethi Kitchen Appliances Pvt. Ltd., Chennai.
- Mr. R. Gopalakrishnan, Dy. Manager - Admin
- Dr. C. Aravindan, Head of the Department , IT
- Dr. R. Seyezhai, Prof/EEE
- Dr. S. Ramanagopal, Prof., Civil
- Dr. G. Sethuraman, Librarian
- Dr. C. Vinothkumar, Asso. Prof / ECE
- Dr. Kilaru Harshavardhan, Asso. Prof / Chemical
- Dr. D. Thenmozhi, Asso. Prof / CSE
- Dr. U. Shajith Ali, Asso. Prof / CSE
- Dr. V. Thanikachalam, Asso. Prof / IT
- Dr. J. Vijay, Asso. Prof / BME
- Mr. Anam Saatvik Reddy, IV B. Tech. (IT)
- Dr. N. Venkateswaran, Professor / ECE, Coordinator –IQAC

Leave of absence:

- Mr. T. Shivkumar, Group Manager, Projects
- Dr. S. Nanda, Student Counsellor
- Mr. Jothy Basu, Placement Officer
- Dr. Srinivas Gumparthy, Prof/MBA
- Dr. S. Narasimman, CoE & Prof., Maths
- Dr. Sunita Nair, Prof., Chemistry
- Dr. Julie Charles, Asso. Prof / Physics
- Dr. P. Sreehari, Professor / Civil
- Ms. S. Sadhana Smruthi, IV B.E. (CSE)
- Mr. Mohinish Kumar, Data Analyst, LatentView Analytics
- Mr. Santosh Naranapatty, Product Engineer, Kaay Labs Pvt. Ltd.

Agenda

- 1: To confirm the minutes of the last meeting of IQAC held on 28.09.2021
- 2: To appraise the members on the status of the preparation of the AQAR for the year 2020-21.
- 3: To appraise of the concept of experiential learning and ways of implementation
- 4: To understand the functioning and operationalization of Institution's Innovation Council (IIC).
- 5: The role and contribution of industries towards building quality education –
- 6: Any other points open for discussion with the permission of Chairman

Minutes

The IQAC coordinator welcomed the members and gave a brief about the previous meeting. Thereafter the following subjects have been discussed.

Item No. 1: Status Report on the preparation of the AQAR for the year 2020-21.

The IQAC Coordinator briefed about the preparation and filling of AQAR details in the NACC website for the year 2020-2021. Further, he said the final submission is extended to Feb1 2022.

Item No.2: Implementation of experiential learning

In his presentation, Dr.C. Aravindan, explained the need to integrate "Experiential Learning" (EL) component in the curriculum. He shared some of initiative taken by the IT department to implement experiential learning for project integrated theory and Laboratory courses. He also outlined the rubrics to evaluate the same. Finally, he demonstrated how experiential learning can achieve program outcomes.

Item No.3: Institution's Innovation Council (IIC)

Dr. Seyezhai, Professor, Department of EEE, briefed about the formation of IIC that is aimed to foster the culture of innovation and start-up eco system in SSNCE. SSN registered for the innovation council and got the approval in the year 2020. She further elaborated the activities of IIC and said SSNCE secured 4 star - rating in the recent IIC3.0 evaluation. She also presented the plan of action for the year 2022.

Item No.4: Role of Industry in Education

Mr. V. Kumara Subramanian, Industry expert explained the role of industry in enhancing the quality of education in academic institutions. With reference to the above, he outlined the ways to improve interaction with industries through faculty and student internship, Student project work and consultancy. HE expressed that that the internship period should be

sufficiently long. Mr. Siva Shakaran, another industry expert suggested that the need improve Research and development requirements to improve the NAAC rating. The chairman -IQAC, Dr.V.E. Annamalai said that faculty are constantly applying for research funding from external agencies to improve the R&D. Mr. Siva Shakaran appreciated the efforts of SSNCE in this direction and further said that the industry need innovators and problem solvers and focus on tie-up with MSME's for consultancy opportunities.

The chairman - IQAC, Dr.V.E. Annamalai thanked all the members for their participation and further said that the IQAC will focus more on the following objectives in the year 2022.

1. To take up Curriculum Revision of all post graduate Programmes during the next year – R2022
2. To address global issues and challenges in Sustainable development and climate change and contributing to Sustainable Development Goals through engineering education.
3. To promote activities towards sustainability and participate in the Sustainability Tracking, Assessment & Rating System (STARS)
4. To have higher level of interaction with industries through Faculty internships.
5. To implement digitalization of Controller examination to enable all the examination processes including automate scheduling of exams and online exam applications, issue of hall tickets, seat allocation, conduct examination and post-examination processes such as publication results etc.,
6. To facilitate consultancy projects through Industry collaboration and to improve on the Number of patents and external funded research projects received.
7. To Promote innovation culture by providing seed money through SSN Incubation Foundation.

Since there were no items for discussion, the meeting came to an end.

Dr.V.E. Annamalai
Chairman (IQAC)
Principal

Dr. N. Venkateswaran
Coordinator – IQAC
30.12.2021

MINUTES OF MEETING WITH PRESIDENT

IQAC

On 04.07.2019

The meeting was attended by the President, Principal, Director-SOM, NIRF team and IQAC coordinators. The discussions pertaining to the agenda is as follows:

- To avoid communication gaps identified in the last meet Prof.Rajini would do follow-ups on deadlines. Prof.V. Rajini and Dr. K.S Vijaysekar to be part of the IQAC committee
- Dr.Albal and team to develop an App/software for acquiring, processing and fetching the publication data (primarily) for the institute. This should be classified for 'Accepted' and 'Published' status. The app should include Patent, Placement and Project information also. This app should be holding the institute quarterly data for easy retrieval
- AQAR data for 2017-18: Externally funded Project details to be submitted pertaining to the financial year
- Director, SASE to be contacted for additional certificate course data for AQAR 2017-18
- AQAR 2017-18 content to be submitted to Mr. Amit Tyagi for his review and value addition


IQAC Coordinators


Principal

Action Taken Report on President meet of 04.07.2019

Review of Action taken on items

- To avoid communication gaps identified in the last meet Prof. Rajini would do follow-ups on deadlines.

Prof. V. Rajini and Dr. K.S Vijaysekar were made a part of the IQAC committee and are to be involved in the AQAR 2017-18 preparation and onwards.

- Dr. Albal and team to develop an App/software for acquiring, processing and fetching the publication data (primarily) for the institute.

Task to be clubbed with ERP as the requirements match

- AQAR data for 2017-18: Externally funded Project details to be submitted pertaining to the financial year

Alteration to the data was performed to suit the financial year

- Director, SASE to be contacted for additional certificate course data for AQAR 2017-18

The data was acquired from Director SASE, on additional certificate courses

- AQAR 2017-18 content to be submitted to Mr. Amit Tyagi for his review and value addition

Submitted to Mr. Amit Tyagi for his review and his suggestions were incorporated.

C. S. S. S.
S. S. S.

S. S. S.

MINUTES OF MEETING WITH PRESIDENT

On 08.08.2019

The meeting was attended by the President, Principal, Director-SOM, NIRF team and IQAC coordinators. The discussions pertaining to the agenda is as follows:

- Corrected AQAR was verified for errors and was agreed to be ready for upload.
- Consolidation of audit results for all the departments to be prepared and discussed in the next meeting
- Comparison of NIRF and IQAC (NAAC) requirements to be listed out for the discussion in the next meeting.
- AQAR 2018-19 content to be collated from all the departments and office heads for completion by December 2019.
- Collection of data pertaining to Publication, Project, Patent & incubation for the year 2018-19



IQAC Coordinators



Principal

Action Taken Report on President meet of 08.08.2019

Review of Action taken on items

- Corrected AQAR was verified for errors and was agreed to be ready for upload.

To be uploaded shortly on NAAC website

- Consolidation of audit results for all the departments to be prepared and discussed in the next meeting

Consolidation report was prepared and is ready for discussion in the next meeting

- Comparison of NIRF and IQAC (NAAC) requirements to be listed out for the discussion in the next meeting.

A comparison chart was prepared and is ready for discussion in the next meeting

- AQAR 2018-19 content to be collated from all the departments and office heads for completion by December 2019.

Data collection process was initiated and the departments have responded quiet fast

- Collection of data pertaining to Publication, Project, Patent & incubation for the year 2018-19

The same data could be utilized from above

G. A. H. S.
J. Beelkar

S. Sahiv

SSN College of Engineering, Kalavakkam – 603110

Minutes of the IQAC meeting

The IQAC meeting with President and Principal was held on 21-8-2019 between 2.00 PM to 3.30 PM, along with all the HODs. The internal and external audit outcomes were discussed and the following action points are agreed to be put in to practice across the departments of SSNI.

1. Students' feedback form for each course that would act as an 'exit survey' needs to be prepared with appropriate amendments to the existing Students feedback form. The IQAC team will prepare the amended form within 2 weeks, in consultation with all the Heads.
2. Remedial classes for common courses can be conducted during the 7th and 8th hours of the working days. This could also be done along with the remedial classes for other courses conducted beyond working hours and on working Saturdays.
3. A separate documenting system is suggested to capture innovative teaching practices with proofs collectively by each department.
4. Separate audit forms for Practical, Theory and Project courses is suggested. Separate form for Part-A and Part-B of the external audit is also agreed upon. – IQAC team to pursue.
5. Automated tool for calculating CO-PO attainment will be prepared by Prof. T. Nagarajan, Head / IT and his team. To be implemented across departments after evaluation.
6. The end semester results are to be included in the individual course files for all courses. COE to provide support appropriately.
7. Access to 'LMS' content shall be given to all students of common courses and all the faculty members. Dr. Shashikant V. Albal and his team to implement.
8. The legends for knowledge level K1, K2 K6 shall be included in all the question papers. The marks allotted for subdivision questions are to be indicated in the question paper.
9. Separate attendance book is suggested for every course. Number of pages of the attendance book may be reduced accordingly.

The other topics that were discussed and agreed upon were:

1. The gaps identified through the internal and external audit would be taken care of by the respective departments.
2. Auditors preferably to be of Professor cadre or to have extensive domain experience
3. Both Internal and External audits to have all the three components, namely Best practices, Gaps identified and Recommendations
4. Inclusion of K4/K5 component to be compensated through projects (J-component) is left to the discretion of the faculty concerned
5. External audits for affiliated courses also

A few more topics that were discussed in general were:

- Single script for all CATs for each student
- Plagiarism tool 'URKUND' discussed as tool for PG student reports and publications
- Single credit course for 15 periods spread over different days with no end semester examination
- Prospects of day-order timetable

G. H. S.
y. S. S.

S. S. S.

Review of Action taken on items

1. Students' feedback form for each course that would act as an 'exit survey' needs to be prepared with appropriate amendments to the existing Students feedback form. The IQAC team will prepare the amended form within 2 weeks, in consultation with all the Heads.

Feedback and inputs taken from different sources. Would be consolidated and floated again for more inputs. This process is iterative.

2. Remedial classes for common courses can be conducted during the 7th and 8th hours of the working days. This could also be done along with the remedial classes for other courses conducted beyond working hours and on working Saturdays.

Implemented on immediate notice for the remaining part of the semester

3. A separate documenting system is suggested to capture innovative teaching practices with proofs collectively by each department.

Task allocated to each department through Audit forms. Refer Audit forms circulated

4. Separate audit forms for Practical, Theory and Project courses is suggested. Separate form for Part-A and Part-B of the external audit is also agreed upon. – IQAC team to pursue.

Reformed audit forms circulated

5. Automated tool for calculating CO-PO attainment will be prepared by Prof. T. Nagarajan, Head / IT and his team. To be implemented across departments after evaluation.

Follow up done. Once done would be implemented across departments

6. The end semester results are to be included in the individual course files for all courses. COE to provide support appropriately.

End semester results are included in the individual course files of all departments

7. Access to 'LMS' content shall be given to all students of common courses and all the faculty members. Dr. Shashikant V. Albal and his team to implement.

Restricted access given on the discretion of the concerned faculty and this option is already available on LMS

8. The legends for knowledge level K1, K2 K6 shall be included in all the question papers. The marks allotted for subdivision questions are to be indicated in the question paper.

Suitable instructions are added by COE while sending mails to the QP setter

9. Separate attendance book is suggested for every course. Number of pages of the attendance book may be reduced accordingly.

Not a feasible solution and hence left as it is

G. T. S.
ybeelpw

S. Salim