

### GOVERNMENT COLLEGE OF ENGINEERING, SALEM-636011

#### INTERNAL QUALITY ASSURANCE CELL

# EXTERNAL AUDIT REPORT 2022-23

**Dr.C.Dhavamani,** Professor and Head,
Department of Aeronautical Engineering
Mahendra Engineering College, Namakkal

**Dr. P. Suresh,** Professor & Head
Department of Mechatronics Engineering
Sona College of Tech, Salem

Member1

Member 2

Date: 15.11.2023

Date: 15.11.2023

From:

Dr.C.Dhavamani, Professor and Head/Aeronautical
Mahendra Engineering College
Namakkal, Tamil Nadu - 637503
Dr.P.Suresh, Professor/ Mechatronics
Sona College of Technology, Salem.

To:

The Principal
Government College of Engineering
Salem.

Respected Sir,

Sub: External Audit Committee – GCE, Salem – Submission of Audit Report – reg Ref: GCE Salem/IQAC/ 2022-2023/External Audit dated 13.10.2023.

With reference to the letter cited above, the external audit was carried out on 15.11.2023 to evaluate the academic performance and governance of your esteemed institution for the academic year 2022-2023. The report of the same is enclosed for your kind reference.

Thanking you

2. Permyoth

# The report of the External Audit conducted on 15.11.2023 for the academic 2022-2023 at GCE Salem-11

#### General Observations:

- > Curriculum and Syllabi in all programs was revised in Regulation 2022.
- ➤ IQAC of this institution has taken steps to stream line the process in CO-PO & PSO attainment calculation by adopting common structure. OBE manual has been prepared and posted in college website. Collecting feedback online from students, faculty, alumni, parent and employer has been initiated and well maintained by IQAC. Academic internal audit and external audit has been conducted regularly by IQAC.
- > Gender Audit has been initiated by IQAC to evaluate gender distribution studentwise, faculty -wise and technical staff wise. IQAC directed Women empowerment cell to evaluate the same.
- > Initiative of Collaboration of TANSIM with CIBI has been taken to enhance entrepreneurship and employability skills among students.

#### Recommendations:

- > National/International conferences were not conducted in the audit period, so it is recommended to organize it.
- > Consultancy activities are being carried out only in civil department. Other department HODs are requested to initiate the same.
- ➤ Research funding from the faculty members is not available. So, it is recommended to get research funds from DST/UGC and any other government agencies.
- A course that is relevant to gender may be included in curriculum for all UG programmes, when next revision of curriculum happens.



Government College of Engineering, Salem – 636 011
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Ph: 0427-2346102/57, E-mail: iqac@gcesalem.edu.in

#### **EXTERNAL AUDIT REPORT 2022-2023**

15.11.2023

#### Part - 1: Preliminary Information

Name of the Department	:	Civil Engineering
Address of the Institute	:	GCE, Salem
Date and time of visit	:	15.11.2023
Members of the Audit Committee	:	Signature
<ol> <li>Dr.C.Dhavamani, Professor and Head,         Department of Aeronautical Engineering         Mahendra Engineering College,         Namakkal, Tamil Nadu- 637503.</li> <li>Dr. P. Suresh Professor &amp; Head         Department of Mechatronics Engineering         Sona College of Tech, Salem</li> </ol>		15,11.23 Porty 15,11.23

#### Part - 2: Academics Information

Metric No	Description			
	Criteria 1 Curricular Aspects			
1.1 Curriculum Design and Development	1.1.1 Curricula developed and implemented have relevance to the local, regional, national, and global developmental needs, which is reflected in the Programme outcomes (Pos) and Course Outcomes(Cos) of the Programmes			
	> Vision & Mission			
THE DES	> Programmme Educational Objectives (PEO)	Yes		
	➤ Program Outcomes (PO) – UG & PG			
	Program Specific Outcomes (PSO) – UG & PG			
	> R2018 – Curriculum and Syllabus with CO – UG & PG			
, 's ma	> R2022 – Curriculum and Syllabus with CO – UG & PG			



Taran Sala	<ul> <li>Process for designing vision, mission, PEO,</li> <li>Program curriculum, New regulation, Teaching</li> <li>Process</li> </ul>	
	> Syllabi book for 2018 and 2022 Regulations	
	<ul> <li>Circular and Action taken report for Department level Committee, Program Advisory Committee and Board of Studies Minutes</li> </ul>	
	1.1.2 The programmes focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate	Yes
	contemporary requirements  ➤ R2018 & R2022 - Course categorization & Comparison charts	105
1.2 Academic Flexibility	1.2.1 New courses introduced out of the total number of courses	
	➤ List of new courses with syllabi for R2018	Yes
1.3 Curriculum	<ul> <li>Minutes of Board of Studies meeting clearly specifying the syllabus approval of new courses (R2018)</li> <li>1.3.1 Integrating cross-cutting issues relevant to Professional Ethics, Gender, Human Values,</li> </ul>	
	specifying the syllabus approval of new courses (R2018)  1.3.1 Integrating cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the	2
Curriculum	specifying the syllabus approval of new courses (R2018)  1.3.1 Integrating cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  > List of courses for Human Values, Gender, and	Yes
Curriculum	specifying the syllabus approval of new courses (R2018)  1.3.1 Integrating cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  > List of courses for Human Values, Gender, and Professional Ethics with Syllabus  > List of courses for Environment and Sustainability	Yes
Curriculum	specifying the syllabus approval of new courses (R2018)  1.3.1 Integrating cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  > List of courses for Human Values, Gender, and Professional Ethics with Syllabus  > List of courses for Environment and Sustainability with Syllabus  > List of faculty members attending the course "Universal human values"	Yes
Curriculum	specifying the syllabus approval of new courses (R2018)  1.3.1 Integrating cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  > List of courses for Human Values, Gender, and Professional Ethics with Syllabus  > List of courses for Environment and Sustainability with Syllabus  > List of faculty members attending the course "Universal human values"  1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms	
Curriculum	specifying the syllabus approval of new courses (R2018)  1.3.1 Integrating cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  > List of courses for Human Values, Gender, and Professional Ethics with Syllabus  > List of courses for Environment and Sustainability with Syllabus  > List of faculty members attending the course "Universal human values"  1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other	Yes



			Evaluated sample project r	
			Internship completion lette	
	takeholder s, Alumn	Employers	ction is regularly obtain	System
Yes	-		Parent, Employer, Alumni,	
100			Feedback analysis report	
	nalysis	eedback a	Action taken report on the	
	_		Circular and Action taken level Committee, Program A Board of Studies Minutes	Lby con the
	luation	g and Eval	riteria 2 Teaching-learnin	I ELLEN
	• <u>*</u>		nent percentage	Student
7.7		2022	Year	Enrolment
1 Yes		UG		and Profile
Yes	PG		o of Seats sanctioned	
Yes	18 15	120 112	o of Seats sanctioned Filled	
	18 15 ng levels o	120 112 the learni ecial Prog		2.2 Catering to
	18 15 ng levels og grammes t student	120 112 the learni ecial Prog eds of the	Filled The department assesses udents and organises sp o differential learning nee	2.2 Catering to Student c
	18 15 ng levels og grammes t student	120 112 the learni ecial Prog eds of the	Filled The department assesses udents and organises sp o differential learning need Remedial Classes Schedule	2.2 2 2 Catering to Student c
	18 15 ng levels ogrammes testudent	120 112 the learni ecial Prog eds of the	Filled The department assesses udents and organises spondifferential learning need a commentation of the c	2.2 2 2 Catering to Student c
	18 15 ng levels of grammes to student	120 112 the learni ecial Prog eds of the and Minute	Filled The department assesses udents and organises spondifferential learning need a classes Schedule Class Committee Circulars Mentor – Mentee Files	2.2 Catering to Student c
	18 15 ng levels ogrammes t student es	120 112 the learni ecial Progeds of the seand Minute for slow lead	Filled The department assesses udents and organises spondifferential learning need a committee Circulars Mentor – Mentee Files Placement Courses offered to	2.2 2 2 Catering to Student c
	18 15 ng levels ogrammes t student es	120 112 the learni ecial Progeds of the seand Minute for slow lead	Filled The department assesses udents and organises spondifferential learning need and Classes Schedule Class Committee Circulars Mentor – Mentee Files Placement Courses offered to Regulation R2018 – Fast training assessments.	2.2 Catering to Student C
	18 15 ng levels of grammes to student es rners .	120 112 the learni ecial Prog eds of the and Minute for slow lea ack System and certif	Filled The department assesses udents and organises spondifferential learning need remedial Classes Schedule Class Committee Circulars Mentor – Mentee Files Placement Courses offered to Regulation R2018 – Fast transport	2.2 Catering to Student Diversity
	18 15 ng levels of grammes to student es rners	120 112 the learni ecial Progeds of the seand Minute for slow leads of the seand Minut	Filled The department assesses udents and organises spondifferential learning need and committee Circulars Mentor – Mentee Files Placement Courses offered to Regulation R2018 – Fast transport Courses Registration GATE/CAT Programs 2 Student – Full time Year	2.2 Catering to Student Diversity
	18 15 ng levels of grammes to student es rners	120 112 the learni ecial Progeds of the seand Minute for slow leads of the seand Minut	Filled The department assesses udents and organises spondifferential learning need and classes Schedule Class Committee Circulars Mentor – Mentee Files Placement Courses offered to Regulation R2018 – Fast transport of the Courses Registration GATE/CAT Programs  2 Student – Full time	2.2 Catering to Student Diversity



Teaching- Learning Process	learning, participative learning and problem solving methodologies are used for enhancing learning experience and teachers use ICT- enabled tools including online resources for effective teaching and	7
	learning process	-
	> Experiential learning – Sample Internship letter,	
	Naan Mudhalvan courses,	
	Sample Industrial Project, if any Industrial Visit Reports	
	> Participative learning –	Yes
	Technical Seminar for M.E. Circular and other	
	supporting documents	
	Learning through various social activities and technical association events: Invitation, Schedule,	
	Attendance sheet and Report with Photographs	
	> Problem solving methodologies - Sample	
	Assignments, Tutorials, Mini Project, Project work Report	
	> SWAYAM/NPTEL Courses	
	2.3.2 The department adopts effective Mentor- Mentee Schemes to address academics and student psychological issues	
	Mentee Schemes to address academics and student psychological issues  > List of Active mentors	Yes
	Mentee Schemes to address academics and student psychological issues  > List of Active mentors  > Mentor allocation circulars	Yes
	Mentee Schemes to address academics and student psychological issues  > List of Active mentors  > Mentor allocation circulars  > Mentor Student Mapping	Yes
	Mentee Schemes to address academics and student psychological issues  > List of Active mentors  > Mentor allocation circulars  > Mentor Student Mapping  > Sample Counselling Forms	Yes
	Mentee Schemes to address academics and student psychological issues  > List of Active mentors  > Mentor allocation circulars  > Mentor Student Mapping	Yes
	Mentee Schemes to address academics and student psychological issues  > List of Active mentors  > Mentor allocation circulars  > Mentor Student Mapping  > Sample Counselling Forms  2.3.3 Preparation and adherence of Academic	Yes
	Mentee Schemes to address academics and student psychological issues  > List of Active mentors  > Mentor allocation circulars  > Mentor Student Mapping  > Sample Counselling Forms  2.3.3 Preparation and adherence of Academic Calendar and Teaching plans by the institution	
2.4	Mentee Schemes to address academics and student psychological issues  > List of Active mentors  > Mentor allocation circulars  > Mentor Student Mapping  > Sample Counselling Forms  2.3.3 Preparation and adherence of Academic Calendar and Teaching plans by the institution  > Academic Calendar	
2.4 Student	Mentee Schemes to address academics and student psychological issues  > List of Active mentors  > Mentor allocation circulars  > Mentor Student Mapping  > Sample Counselling Forms  2.3.3 Preparation and adherence of Academic Calendar and Teaching plans by the institution  > Academic Calendar  > Teaching Plan	
Student	Mentee Schemes to address academics and student psychological issues  > List of Active mentors  > Mentor allocation circulars  > Mentor Student Mapping  > Sample Counselling Forms  2.3.3 Preparation and adherence of Academic Calendar and Teaching plans by the institution  > Academic Calendar  > Teaching Plan  2.4.1 The department has stated learning outcomes (programme and course outcome)/graduate attributes which are integrated into the assessment process and	
Student erformance	Mentee Schemes to address academics and student psychological issues  > List of Active mentors  > Mentor allocation circulars  > Mentor Student Mapping  > Sample Counselling Forms  2.3.3 Preparation and adherence of Academic Calendar and Teaching plans by the institution  > Academic Calendar  > Teaching Plan  2.4.1 The department has stated learning outcomes (programme and course outcome)/graduate attributes	
Student erformance d Learning	Mentee Schemes to address academics and student psychological issues  > List of Active mentors  > Mentor allocation circulars  > Mentor Student Mapping  > Sample Counselling Forms  2.3.3 Preparation and adherence of Academic Calendar and Teaching plans by the institution  > Academic Calendar  > Teaching Plan  2.4.1 The department has stated learning outcomes (programme and course outcome)/graduate attributes which are integrated into the assessment process and	Yes
Student rformance d Learning	Mentee Schemes to address academics and student psychological issues  > List of Active mentors  > Mentor allocation circulars  > Mentor Student Mapping  > Sample Counselling Forms  2.3.3 Preparation and adherence of Academic Calendar and Teaching plans by the institution  > Academic Calendar  > Teaching Plan  2.4.1 The department has stated learning outcomes (programme and course outcome)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents and the attainment of the same are evaluated by the institution	
	Mentee Schemes to address academics and student psychological issues  > List of Active mentors  > Mentor allocation circulars  > Mentor Student Mapping  > Sample Counselling Forms  2.3.3 Preparation and adherence of Academic Calendar and Teaching plans by the institution  > Academic Calendar  > Teaching Plan  2.4.1 The department has stated learning outcomes (programme and course outcome)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents and the attainment of the same are evaluated by the institution  > Course File for each course	Yes
Student erformance d Learning	Mentee Schemes to address academics and student psychological issues  > List of Active mentors  > Mentor allocation circulars  > Mentor Student Mapping  > Sample Counselling Forms  2.3.3 Preparation and adherence of Academic Calendar and Teaching plans by the institution  > Academic Calendar  > Teaching Plan  2.4.1 The department has stated learning outcomes (programme and course outcome)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents and the attainment of the same are evaluated by the institution	Yes
Student erformance d Learning	Mentee Schemes to address academics and student psychological issues  > List of Active mentors  > Mentor allocation circulars  > Mentor Student Mapping  > Sample Counselling Forms  2.3.3 Preparation and adherence of Academic Calendar and Teaching plans by the institution  > Academic Calendar  > Teaching Plan  2.4.1 The department has stated learning outcomes (programme and course outcome)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents and the attainment of the same are evaluated by the institution  > Course File for each course	Yes



	2.4.2 Pass percentage of students	
	<ul> <li>Departments: Result Analysis of all classes with chart</li> </ul>	h Yes
	Year 2022-23	
	Number of Students Pass 128	3.
The table of the	Criteria 3 Research, Innovations and Extension	
3.1	3.1.1 Amount of seed money provided b	y
Promotion of	institution to its teachers for research.	
Research and	Year 2022-23	
<b>Facilities</b>	Amount (INR in Lakhs)	NO
-	project, duration and amount year-wise  > Audited Income-Expenditure statement	1
	3.1.2 Teachers receiving national/ international fellowship/financial support by various agencie for advanced studies/ research	
	Year 2022-23	
	Total number of teacher -	
3.2 Resource Mobilization for Research	3.2.1 Total Grants research funding received by the institution and its faculties through Government and non-government sources such a industry, corporate houses, international bodie for research project, endowment research chairs  Year 2022-23  Amount (INR in Lakhs)  List of Extramural funding received for research,	h s s



	3.2.3 Number of teachers recognised guides	as research	
<u> </u>	Year	2022-23	Yes
	Recognised as research guides	6	
3.3 Research	3.3.1 List of candidates registered in teacher	or Ph.D per	
<b>Publications</b>	Year	2022-23	Yes
and Awards	Total Number of Candidate	24	
nd Zylami	3.3.2 List of research papers in the notified on UGC CARE list	he Journals	W
	Year	2022-23	Yes
	Total Number of Research paper	14	
	<ul> <li>Copies of Full paper (with author a details)</li> </ul>	nd affiliation	
	3.3.3 Total Number of books and edited volumes published		No
	Year	2022-23	110
	Total Number of Books/Chapters		
Townson in	Copy of the Cover page, content p page of the publication indice number and year of publication books/chapters	_	
3.4	Revenue generated from consul	tancy and	
Consultancy	corporate training		Yes
	Year	2022-23	res
	Amount (INR in Lakhs)	89.81	
3.5 Collaboration	Number of functional MoUs/link institutions/ industries in India and internship, on-the-job training, pro- student / faculty exchange and of research	l abroad for oject work, ollaborative	Yes
	Year	2022-23	
	Total Number of MoUs	1	
	Copies of documents indicating the	ne functional	
	MoUs	ic iuncuonai	



4.1	Adequate infrastructure and other facilities			
Physical				
Facilities	<ul> <li>Details of Interactive Display &amp; Smart Board</li> </ul>			
	> Details of Classrooms, Laboratory and list of			
	equipment including lab manual, Number of			
	Computers available, list of software used for	Yes		
	students			
	1. Classrooms – 8			
	2. Laboratory-11			
	3. Computer - 35  Criteria 5 Student Support and Progression			
5.1	5.1.1 Efforts taken by the institution to provide career			
Student	counselling including e-counselling and guidance for			
Support	competitive examinations			
	> Details of programmes like Career guidance	Yes		
	programme, Placement Training			
	Reports with Photograph			
	5.1.2 Capacity development and skills			
	enhancement activities are organised for			
	improving students' capability			
	Year 2022-23	No		
	Total Number of Program			
	> Report with Photographs on programmes			
	conducted for awareness of trends			
5.2	5.2.1 Number of outgoing students placed and			
Student	progressed to higher education			
rogression	Year 2022-23	37		
	Total Number of Students Placed 45	Yes		
	Total Number of progressed to higher 5			
	education			
	5.2.2 Number of students qualifying in state/			
	national/ international level examinations (eg:			
	NET/SLET/Civil Services/State government	NI -		
	examinations etc.)	No		
	Year 2022-23			
	Total Number of Students Qualified -			
5.3	Presence of an active Student Council &			
	representation of students on academic &			
Student	<u> </u>	Yes		
Student articipation	administrative bodies/committees of the	100		
	administrative bodies/committees of the institution.	103		



Government College of Engineering, Salem – 636 011
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Ph: 0427-2346102/57, E-mail: iqac@gcesalem.edu.in

	Class committee meeting	Yes
	➤ BOS minutes	Yes
	> BOG Sub committees circulars and Minutes (Student Representation)	Yes
	Criteria 6 Governance, Leadership and Management	
6.1 Faculty Empowerment Strategies	6.1.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies  Year 2022-23	
	Total Number of Teacher 3	
	Total Number of Teacher 3  6.1.2 Number of Teachers who have undergone online/ face-to-face Faculty Development Programmes (FDP)/ Management Development	

Overall Comments if any:



### INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem - 636 011

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Ph: 0427-2346102/57, E-mail: iqac@gcesalem.edu.in

#### **EXTERNAL AUDIT REPORT 2022-23**

15.11.2023

#### Part - 1: Preliminary Information

Name of the Department	:	Computer Science and Engineering
Address of the Institute	:	GCE, Salem
Date and time of visit	•	15.11.2023
Members of the Audit Committee		Signature
<ol> <li>Dr.C.Dhavamani, Professor and Head,</li> <li>Department of Aeronautical Engineering</li> <li>Mahendra Engineering College,</li> <li>Namakkal, Tamil Nadu- 637503.</li> </ol>		Domono no 15.11.23
<ol> <li>Dr. P. Suresh Professor &amp; Head         Department of Mechatronics Engineering         Sona College of Tech, Salem     </li> </ol>	•	ASOUNTA 12/1/53

#### Part - 2: Academics Information

Metric No	Description	
	Criteria 1 Curricular Aspects	
1.1 Curriculum Design and Development	1.1.1 Curricula developed and implemented have relevance to the local, regional, national, and global developmental needs, which is reflected in the Programme outcomes (POs) and Course Outcomes(COs) of the Programmes	
	> Vision & Mission	
	<ul> <li>Programmme Educational Objectives (PEO)</li> </ul>	
* 1	➤ Program Outcomes (PO) – UG & PG	Yes
	Program Specific Outcomes (PSO) – UG & PG	
	> R2018 - Curriculum and Syllabus with CO – UG & PG	
	> R2022 - Curriculum and Syllabus with CO – UG & PG	
	Process for designing vision, mission, PEO, Program curriculum, New regulation, Teaching Process	
	> Syllabi book for 2018 and 2022 Regulations	



Tret	<ul> <li>Circular and Action taken report for Department level Committee, Program Advisory Committee and Board of Studies Minutes</li> </ul>	
	1.1.2 The programmes focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements  > R2018 & R2022 - Course categorization &	Yes
	Comparison charts	
1.2 Academic	1.2.1 New courses introduced out of the total number of	
Flexibility	courses	
	➤ List of new courses with syllabi for R2018	Yes
	<ul> <li>Minutes of Board of Studies meeting clearly specifying the syllabus approval of new courses (R2018)</li> </ul>	
1.3	1.3.1 Integrating cross-cutting issues relevant to	
Curriculum	Professional Ethics, Gender, Human Values,	
Enrichment	Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy – 2020 into the	
	Curriculum	Yes
	> List of courses for Human Values, Gender, and	-
	Professional Ethics with Syllabus  List of courses for Environment and Sustainability	
	with Syllabus	
	> List of faculty members attending the course	
	"Universal human values"	
	1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms  > List of students and the attendance sheet for the above mentioned programs	Yes
	Programme brochure/notice for Value added programs	
	> Evidence of course completion	
	1.3.3 Does the programme have components of field	
	projects / research projects / internships	Yes
	> Evaluated sample project report (5) – UG & PG	
Was it and	Internship completion letter – UG & PG	
.4 Feedback System	Structured feedback for curriculum and its transaction is regularly obtained from stakeholders like Students, Teachers. Employers, Alumni, Academic peers etc.,	Yes
	> Collections of feedback forms - Students, Faculty,	



	Feedback analysis report		
	> Action taken report on the fee	dback analysis	
	<ul> <li>Circular and Action taken report</li> <li>Committee, Program Advisory</li> <li>of Studies Minutes</li> </ul>	•	
	Criteria 2 Teaching-learning	and Evaluation	
2.1	Enrolment percentage		
Student	Year	2022-23	
Enrolment	No of Seats sanctioned	60	
and Profile	Filled	5	
2.2 Catering to Student	2.2.1 The department assesses the students and organises special Prodifferential learning needs of the s	ogrammes to cater to	- 3
Diversity	➤ Remedial Classes Schedule		
	> Class Committee Circulars and	d Minutes	
	> Mentor - Mentee Files	TOTAL	Yes
	Placement Courses offered for	slow learners	
	➤ Regulation R2018 - Fast track	System.	
	> NPTEL Courses Registration a	nd certificates	
	> GATE/CAT Programs		
	2.2.2 Student - Full time teacher r	atio	
	Year	2022-23	
	No of students	174	
	Number of full time teachers	11	Yes
	List showing the number of studer programs	nts in each of the	
2.3 Teaching- Learning Process	2.3.1 Student centric methods, learning, participative learning a methodologies are used for experience and teachers use ICT- er online resources for effective te process	and problem solving enhancing learning nabled tools including	12:
	<ul> <li>Experiential learning – Sample</li> <li>Naan Mudhalvan courses,</li> <li>Sample Industrial Project, if an Industrial Visit Reports</li> </ul>		Yes
	> Participative learning – Technical Seminar for M.E supporting documents	: Circular and other	



# INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem – 636 011

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Ph: 0427-2346102/57, E-mail: iqac@gcesalem.edu.in

	Attendance sheet and Report with Photogr  Problem solving methodologies – Assignments, Tutorials, Mini Project, Propert  Report  SWAYAM/NPTEL Courses	Sample
	2.3.2 The department adopts effective Mentee Schemes to address academics and psychological issues	
	<ul> <li>List of Active mentors</li> <li>Mentor allocation circulars</li> </ul>	Yes
	➤ Mentor Student Mapping	(majorit)
	> Sample Counselling Forms  2.3.3 Preparation and adherence of Academic	Calendar
	and Teaching plans by the institution	77
	> Academic Calendar	Yes
	> Teaching Plan	Yes
		outcomes attributes ocess and nd other
Student Performance and Learning	Teaching Plan  2.4.1 The department has stated learning (programme and course outcome)/graduate which are integrated into the assessment providely publicized through the website a documents and the attainment of the statement.	outcomes attributes ocess and nd other same are
Student Performance and Learning	<ul> <li>Teaching Plan</li> <li>2.4.1 The department has stated learning (programme and course outcome)/graduate which are integrated into the assessment providely publicized through the website a documents and the attainment of the sevaluated by the institution</li> <li>Course File for each course</li> <li>Overall CO-PO &amp; PSO Attainment with Act</li> </ul>	outcomes attributes ocess and nd other same are
Student Performance and Learning	<ul> <li>Teaching Plan</li> <li>2.4.1 The department has stated learning (programme and course outcome)/graduate which are integrated into the assessment providely publicized through the website a documents and the attainment of the sevaluated by the institution</li> <li>Course File for each course</li> <li>Overall CO-PO &amp; PSO Attainment with Acta Report</li> </ul>	outcomes attributes ocess and nd other same are
Student Performance and Learning	<ul> <li>➤ Teaching Plan</li> <li>2.4.1 The department has stated learning (programme and course outcome)/graduate which are integrated into the assessment providely publicized through the website a documents and the attainment of the evaluated by the institution</li> <li>➤ Course File for each course</li> <li>➤ Overall CO-PO &amp; PSO Attainment with Acta Report</li> <li>➤ Project Review Evaluation with Rubric</li> </ul>	outcomes attributes ocess and nd other same are
Student Performance and Learning	<ul> <li>➤ Teaching Plan</li> <li>2.4.1 The department has stated learning (programme and course outcome)/graduate which are integrated into the assessment providely publicized through the website a documents and the attainment of the evaluated by the institution</li> <li>➤ Course File for each course</li> <li>➤ Overall CO-PO &amp; PSO Attainment with Acta Report</li> <li>➤ Project Review Evaluation with Rubric</li> <li>➤ Exit Survey sample forms</li> </ul>	outcomes attributes ocess and nd other same are  Yes



### INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem – 636 011 (An Autonomous Institution, Affiliated to Anna University, Chennai)

Ph: 0427-2346102/57, E-mail: iqac@gcesalem.edu.in

	Criteria 3 Research, Innovations and		
3.1	3.1.1 Amount of seed money provided	by institution	
Promotion of	to its teachers for research.		
Research and	Year	2022-23	
Facilities	Amount (INR in Lakhs)	72	NO
	<ul> <li>List of faculty who have been provided money for research along with the title duration and amount year-wise</li> <li>Audited Income-Expenditure statemen</li> </ul>	of the project,	NO
	3.1.2 Teachers receiving national/ fellowship/financial support by various advanced studies/ research		NO
	Year	2022-23	
	Total number of teacher	-	
	project, endowment research chairs	for research	NO
	Year Amount (INR in Lakhs)  List of Extramural funding received fo Endowment Research Chairs received	2022-23	NO
	Year Amount (INR in Lakhs)  > List of Extramural funding received fo	r research,  per teacher ent, industry,	NO
	Year Amount (INR in Lakhs)  > List of Extramural funding received for Endowment Research Chairs received  3.2.2 Number of research projects funded by government, non-government, non-government, received Year  Number of research projects per teacher  3.2.3 Number of teachers recognised guides	per teacher ent, industry,	No
	Year Amount (INR in Lakhs)  List of Extramural funding received for Endowment Research Chairs received  3.2.2 Number of research projects funded by government, non-government, non-government, received  Year  Number of research projects per teacher  3.2.3 Number of teachers recognised guides  Year	2022-23 r research,  per teacher ent, industry, 2022-23 as research 2022-23	No
	Year Amount (INR in Lakhs)  > List of Extramural funding received for Endowment Research Chairs received  3.2.2 Number of research projects funded by government, non-government, non-government, received Year  Number of research projects per teacher  3.2.3 Number of teachers recognised guides	per teacher ent, industry,	No
3.3 Research	Year Amount (INR in Lakhs)  List of Extramural funding received for Endowment Research Chairs received  3.2.2 Number of research projects funded by government, non-government, non-government, received  Year  Number of research projects per teacher  3.2.3 Number of teachers recognised guides  Year	2022-23 r research,  per teacher industry, 2022-23 as research 2022-23 2	No
	Year Amount (INR in Lakhs)  List of Extramural funding received for Endowment Research Chairs received  3.2.2 Number of research projects funded by government, non-government, non-government, received  Year Number of research projects per teacher  3.2.3 Number of teachers recognised guides  Year Recognised as research guides  3.3.1 List of candidates registered	2022-23 r research,  per teacher industry, 2022-23 as research 2022-23 2	- N



### INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem – 636 011 (An Autonomous Institution, Affiliated to Anna University, Chennai)

Ph: 0427-2346102/57, E-mail: iqac@gcesalem.edu.in

	notified on UGC CARE list	2022-23	Yes
	Total Number of Research paper	9	
	* *		on
	Copies of Full paper (with authordetails)	i and anniau	.011
	3.3.3 Total Number of books and chavolumes published	pters in edit	ed No
	Year	2022-23	110
	Total Number of Books/Chapters	*	
	<ul> <li>Copy of the Cover page, content page of the publication indicating</li> </ul>		
	and year of publication for books	_	)C1
3.4	Revenue generated from consultancy		te
Consultancy	training	and corpora	
	Year	2022-23	No
	Icai	2022-20	
3.5 ollaboration	Number of functional MoUs/li institutions/ industries in India as internship, on-the-job training, student / faculty exchange and	nd abroad i project wo	rk,
	Number of functional MoUs/li institutions/ industries in India a internship, on-the-job training, student / faculty exchange and research	nd abroad i project woi collaborati	for rk,
	Number of functional MoUs/li institutions/ industries in India as internship, on-the-job training, student / faculty exchange and research	nd abroad in project won collaborating 2022-23	for rk,
3.5 ollaboration	Number of functional MoUs/li institutions/ industries in India ar internship, on-the-job training, student / faculty exchange and research  Year Total Number of MoUs	nd abroad is project wor collaboration 2022-23	for rk, ve Yes
	Number of functional MoUs/li institutions/ industries in India as internship, on-the-job training, student / faculty exchange and research	nd abroad is project wor collaboration 2022-23	for rk, ve Yes
	Number of functional MoUs/li institutions/ industries in India ar internship, on-the-job training, student / faculty exchange and research  Year Total Number of MoUs  Copies of documents indicating	nd abroad in project work collaboration 2022-23 3 the function	for rk, ve Yes
	Number of functional MoUs/li institutions/ industries in India as internship, on-the-job training, student / faculty exchange and research  Year  Total Number of MoUs  Copies of documents indicating MoUs	nd abroad is project work collaboration with the function port	for rk, ve Yes
ollaboration 4.1	Number of functional MoUs/li institutions/ industries in India ar internship, on-the-job training, student / faculty exchange and research  Year  Total Number of MoUs  Copies of documents indicating MoUs  List of year wise activities with re-	nd abroad in project won collaboration with the function porting Resources	for rk, ve Yes
ollaboration	Number of functional MoUs/li institutions/ industries in India ar internship, on-the-job training, student / faculty exchange and research  Year  Total Number of MoUs  Copies of documents indicating MoUs  List of year wise activities with reg	nd abroad in project work collaboration with the function porting Resources cilities	for rk, ve Yes



	Criteria 5 Student Support and Progression	1
5.1 Student Support	Efforts taken by the institution to provide career counselling including e-counselling and guidance for competitive examinations	Yes
	<ul> <li>Details of programmes like Career guidance programme, Placement Training</li> <li>Reports with Photograph</li> </ul>	. 168
	Capacity development and skills enhancement activities are organised for improving students' capability  Year  Year  Total Number of Program  Report with Photographs on programmes	NO
	conducted for awareness of trends	
5.2 Student Progression	5.2.1 Number of outgoing students placed and progressed to higher education  Year  Total Number of Students Placed  Total Number of progressed to higher education  education	Yes
	5.2.2 Number of students qualifying in state/ national/ international level examinations (eg: NET/SLET/Civil Services/State government examinations etc.)  Year 2022-23 Total Number of Students Qualified	No
5.3		
Student articipation nd Activities	Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution.	Yes
articipation	representation of students on academic & administrative bodies/committees of the	Yes
articipation	representation of students on academic & administrative bodies/committees of the institution.	
articipation	representation of students on academic & administrative bodies/committees of the institution.  > Technical Symposium	Yes



# INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem – 636 011

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Ph: 0427-2346102/57, E-mail: <u>iqac@gcesalem.edu.in</u>

Criteria 6 Governance, Leadership and	Management	
support to attend conferences/wo	rkshops and	Yes
Year	2022-23	
Total Number of Teacher	1	
online/ face-to-face Faculty Programmes (FDP)/ Management	Development	
Programs (MDP)		Yes
Programs (MDP)  Year	2022-23	Yes
	support to attend conferences/wo towards membership fee of profession  Year  Total Number of Teacher  6.1.2 Number of Teachers who have online/ face-to-face Faculty	Total Number of Teacher 1  6.1.2 Number of Teachers who have undergone online/ face-to-face Faculty Development

Overall Comments if any:



# INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem - 636 011

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Ph: 0427-2346102/57, E-mail: iqac@gcesalem.edu.in

#### **EXTERNAL AUDIT REPORT 2022-23**

15.11.2023

#### Part - 1: Preliminary Information

N	ame of the Department	:	Electronics and Communication Engineering
A	ddress of the Institute	:	GCE, Salem
D	ate and time of visit	:	15.11.2023
M	embers of the Audit Committee		Signature
1.	Dr.C.Dhavamani, Professor and Head, Department of Aeronautical Engineering Mahendra Engineering College, Namakkal, Tamil Nadu- 637503.	•	Dmomon'. 123
2.	Dr. P. Suresh Professor & Head  Department of Mechatronics Engineering  Sona College of Tech, Salem	:	Beautista 36"

#### Part - 2: Academics Information

Metric No	Description	Yes/No
	Criteria 1 Curricular Aspects	
1.1 Curriculum Design and Development	1.1.1 Curricula developed and implemented have relevance to the local, regional, national, and global developmental needs, which is reflected in the Programme outcomes (POs) and Course Outcomes(COs) of the Programmes	
	➤ Vision & Mission	
	<ul> <li>Programmme Educational Objectives (PEO)</li> </ul>	
	> Program Outcomes (PO) - UG & PG	Yes
	Program Specific Outcomes (PSO) – UG & PG	
	<ul> <li>R2018 - Curriculum and Syllabus with CO – UG</li> <li>&amp; PG</li> </ul>	
	<ul> <li>R2022 - Curriculum and Syllabus with CO – UG</li> <li>PG</li> </ul>	
	Process for designing vision, mission, PEO, Program curriculum, New regulation, Teaching Process	



# INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem - 636 011

(An Autonomous Institution, Affiliated to Anna University, Chennai) Ph: 0427-2346102/57, E-mail: <a href="mailto:iqac@gcesalem.edu.in">iqac@gcesalem.edu.in</a>

	> Syllabi book for 2018 and 2022 Regulations	
	<ul> <li>Circular and Action taken report for Department level Committee, Program Advisory Committee and Board of Studies Minutes</li> </ul>	
	1.1.2 The programmes focus on employability/entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements  > R2018 & R2022 - Course categorization &	Yes
34	Comparison charts	
1.2 Academic Flexibility	1.2.1 New courses introduced out of the total number of courses	
	List of new courses with syllabi for R2018	Yes
	Minutes of Board of Studies meeting clearly specifying the syllabus approval of new courses (R2018)	
Enrichment	Environment and Sustainability and other value	
Enrichment	framework enshrined in Sustainable Development Goals and National Education Policy – 2020 into the Curriculum	Yes
Enrichment	framework enshrined in Sustainable Development Goals and National Education Policy – 2020 into the	Yes
Enrichment	framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  List of courses for Human Values, Gender, and Professional Ethics with Syllabus  List of courses for Environment and Sustainability with Syllabus	Yes
Enrichment	framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  List of courses for Human Values, Gender, and Professional Ethics with Syllabus  List of courses for Environment and Sustainability with Syllabus	Yes
Enrichment	framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  List of courses for Human Values, Gender, and Professional Ethics with Syllabus  List of courses for Environment and Sustainability with Syllabus  List of faculty members attending the course "Universal human values"  1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms  List of students and the attendance sheet for the	Yes
Enrichment	framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  List of courses for Human Values, Gender, and Professional Ethics with Syllabus  List of courses for Environment and Sustainability with Syllabus  List of faculty members attending the course "Universal human values"  1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms	
Enrichment	framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  List of courses for Human Values, Gender, and Professional Ethics with Syllabus  List of courses for Environment and Sustainability with Syllabus  List of faculty members attending the course "Universal human values"  1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms  List of students and the attendance sheet for the above mentioned programs  Programme brochure/notice for Value added	
Enrichment	framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  List of courses for Human Values, Gender, and Professional Ethics with Syllabus  List of courses for Environment and Sustainability with Syllabus  List of faculty members attending the course "Universal human values"  1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms  List of students and the attendance sheet for the above mentioned programs  Programme brochure/notice for Value added programs	Yes
Enrichment	framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  > List of courses for Human Values, Gender, and Professional Ethics with Syllabus  > List of courses for Environment and Sustainability with Syllabus  > List of faculty members attending the course "Universal human values"  1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms  > List of students and the attendance sheet for the above mentioned programs  > Programme brochure/notice for Value added programs  > Evidence of course completion  1.3.3 Does the programme have components of field	



	transaction is regularly obtained like Students, Teachers, I Academic peers etc.,			
	<ul><li>Collections of feedback form Parent, Employer, Alumni,</li></ul>		_	Yes
	Feedback analysis report			
	> Action taken report on the	feedback	analysis	
	<ul> <li>Circular and Action taken level Committee, Program and Board of Studies Minu</li> </ul>	Advisor	_	
	Criteria 2 Teaching-learnin	g and Ev	aluation	
2.1	Enrolment percentage			
Student	Year		22-23	
Enrolment and Profile	No of Seats sanctioned	UG 60	PG 18	
and I folic	Filled	48	2	
	<ul><li>Class Committee Circulars</li><li>Mentor - Mentee Files</li></ul>	and Min	utes	Yes
				Yes
	> Placement Courses offered			4
g	Regulation R2018 - Fast tra			
	> NPTEL Courses Registration	n and cer	tilicates	
	> GATE/CAT Programs  2.2.2 Student - Full time teache		7-1	
	2.2.2 Student - Full time teache		2022-23	
	Year		185	+-
	Year No of students			Yes
			10	ies
	No of students	S		ies



	<ul> <li>Experiential learning – Sample Internship letter,</li> <li>Naan Mudhalvan courses,</li> <li>Sample Industrial Project, if any</li> <li>Industrial Visit Reports</li> </ul>	
	<ul> <li>Participative learning –         Technical Seminar for M.E: Circular and other supporting documents         Learning through various social activities and technical association events: Invitation, Schedule,         Attendance sheet and Report with Photographs</li> </ul>	
	<ul> <li>Problem solving methodologies – Sample Assignments, Tutorials, Mini Project, Project work Report</li> </ul>	
	> SWAYAM/NPTEL Courses	
	2.3.2 The department adopts effective Mentor- Mentee Schemes to address academics and student psychological issues	
	➤ List of Active mentors	Yes
	> Mentor allocation circulars	4-
	> Mentor Student Mapping	
	> Sample Counselling Forms	
	2.3.3 Preparation and adherence of Academic Calendar and Teaching plans by the institution	
	> Academic Calendar	Yes
	> Teaching Plan	
2.4 Student	> Teaching Plan  2.4.1 The department has stated learning outcomes	
	> Teaching Plan	
Student Performance and Learning	> Teaching Plan  2.4.1 The department has stated learning outcomes (programme and course outcome)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents and the attainment of the same	Yes
Student Performance and Learning	> Teaching Plan  2.4.1 The department has stated learning outcomes (programme and course outcome)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents and the attainment of the same are evaluated by the institution  > Course File for each course > Overall CO-PO & PSO Attainment with Action	Yes



	<ul><li>Departments: Result Analysis of al chart</li></ul>	l classes with	Yes
	Year	2022-23	
4	Number of Students Pass	66	
	Criteria 3 Research, Innovations and	Extension	B.L.
3.1	3.1.1 Amount of seed money p	,	
Promotion of	institution to its teachers for research		
Research and	Year	2022-23	0.5
Facilities	Amount (INR in Lakhs)	=	NO
	<ul> <li>List of faculty who have been provided money for research along with the tite project, duration and amount year-wear-wear-wear-wear-wear-wear-wear-w</li></ul>	tle of the vise	
	3.1.2 Teachers receiving national/ in fellowship/financial support by various for advanced studies/ research	us agencies	NO
	Year	2022-23	
	m . 1 1 C. 1		
3.2	Total number of teacher  3.2.1 Total Grants research funding	received by	
3.2 Resource Mobilization for Research	3.2.1 Total Grants research funding the institution and its facultie Government and non-government so as industry, corporate houses, in bodies for research project, endowmer chairs  Year	es through ources such outernational	NO
Resource Mobilization	3.2.1 Total Grants research funding the institution and its facultie Government and non-government seas industry, corporate houses, in bodies for research project, endowmer chairs	es through ources such aternational ent research	NO
Resource Mobilization	3.2.1 Total Grants research funding the institution and its facultie Government and non-government so as industry, corporate houses, in bodies for research project, endowmer chairs  Year  Amount (INR in Lakhs)  List of Extramural funding received	es through ources such aternational ent research 2022-23 	NO
Resource Mobilization	3.2.1 Total Grants research funding the institution and its facultie Government and non-government seas industry, corporate houses, in bodies for research project, endowmer chairs  Year  Amount (INR in Lakhs)  List of Extramural funding received Endowment Research Chairs received  3.2.2 Number of research projects funded by government, non-gindustry, corporate houses, international search projects in the search projects in the search projects funded by government, non-gindustry, corporate houses, international search projects in the search projects in the search projects funded by government, non-gindustry, corporate houses, international search projects in the search project projects in the search project projects in the search project p	es through ources such aternational ent research 2022-23 - for research, per teacher overnment, ional bodies	
Resource Mobilization	3.2.1 Total Grants research funding the institution and its facultie Government and non-government so as industry, corporate houses, in bodies for research project, endowmer chairs  Year  Amount (INR in Lakhs)  List of Extramural funding received Endowment Research Chairs received  3.2.2 Number of research projects funded by government, non-gindustry, corporate houses, internating the state of the search projects funded by government, non-gindustry, corporate houses, internating the search projects in the search projects in the search projects funded by government, non-gindustry, corporate houses, internating the search projects in the	es through ources such ternational ent research  2022-23  for research,  per teacher overnment, ional bodies 2022-23	No
Resource Mobilization	3.2.1 Total Grants research funding the institution and its facultie Government and non-government seas industry, corporate houses, in bodies for research project, endowmer chairs  Year  Amount (INR in Lakhs)  List of Extramural funding received Endowment Research Chairs received  3.2.2 Number of research projects funded by government, non-gindustry, corporate houses, international Year  Number of research projects per teacher  3.2.3 Number of teachers recognised	es through ources such ternational ent research  2022-23  for research,  per teacher overnment, ional bodies 2022-23	



Publications	teacher	2022-23	Yes
and Awards	Year Total Number of Candidate	2022-23	
	3.3.2 List of research papers in t notified on UGC CARE list	the Journals	Yes
	Year	2022-23	
	Total Number of Research paper	34	
	Copies of Full paper (with affiliation details)	author and	
	3.3.3 Total Number of books and edited volumes published	- 10	Yes
	Year	2022-23	105
	Total Number of Books/Chapters	1	
	page of the publication indi- number and year of pub- books/chapters	lication for	
3.4 Consultancy	Revenue generated from consu	ltancy and	
constitution	corporate training Year	2022-23	No
	Amount (INR in Lakhs)	2022-23	
3.5 Collaboration	Number of functional MoUs/line institutions/ industries in India and internship, on-the-job training, pr student / faculty exchange and or research	d abroad for oject work, collaborative	No
	institutions/ industries in India and internship, on-the-job training, pr student / faculty exchange and cresearch  Year	d abroad for oject work,	No
	institutions/ industries in India and internship, on-the-job training, prestudent / faculty exchange and cresearch  Year  Total Number of MoUs	d abroad for oject work, collaborative	No
	institutions/ industries in India and internship, on-the-job training, pr student / faculty exchange and cresearch  Year	d abroad for oject work, collaborative	No
	institutions/ industries in India and internship, on-the-job training, pr student / faculty exchange and cresearch  Year  Total Number of MoUs  Copies of documents indicating the state of	d abroad for oject work, collaborative  2022-23	No
	institutions/ industries in India and internship, on-the-job training, pr student / faculty exchange and cresearch  Year  Total Number of MoUs  Copies of documents indicating the MoUs	d abroad for oject work, collaborative  2022-23	No
d.1	institutions/ industries in India and internship, on-the-job training, pr student / faculty exchange and cresearch  Year  Total Number of MoUs  Copies of documents indicating to MoUs  List of year wise activities with re	d abroad for oject work, collaborative  2022-23 he functional eport Resources	No
collaboration	institutions/ industries in India and internship, on-the-job training, pr student / faculty exchange and cresearch  Year  Total Number of MoUs  Copies of documents indicating to MoUs  List of year wise activities with recrease and creaming to the composition of the composition of the creaming to the c	d abroad for oject work, collaborative  2022-23	No



1 1 1 2 2 3	Computers available, list of software used for students			
	1. Classrooms – 5			
	<ul><li>2. Laboratory-6</li><li>3. Computer - 77</li></ul>	page .		
	Criteria 5 Student Support and Progression			
5.1	5.1.1 Efforts taken by the institution to provide			
Student	career counselling including e-counselling and			
Support	guidance for competitive examinations			
	> Details of programmes like Career guidance	Yes		
	programme, Placement Training			
	<ul><li>Reports with Photograph</li></ul>			
	5.1.2 Capacity development and skills			
	enhancement activities are organised for			
	improving students' capability			
	Year 2022-23	No		
	Total Number of Program -			
	> Report with Photographs on programmes	um U		
	conducted for awareness of trends			
5.2	5.2.1 Number of outgoing students placed and			
Student	progressed to higher education			
Progression	Year 2022-23	Yes		
	Total Number of Students Placed 34			
	Total Number of progressed to higher			
	education			
	5.2.2 Number of students qualifying in state/ national/ international level examinations (eg: NET/SLET/Civil Services/State government examinations etc.)	No		
	Year 2022-23			
	Total Number of Students Qualified -			
5.3	Presence of an active Student Council &			
Student	representation of students on academic &			
Participation	administrative bodies/committees of the	Yes		
and Activities	institution.			
	> Technical Symposium	Yes		
	> Class committee meeting	Yes		
	> BOS minutes	Yes		
	DOG Sub committees circulars and Minutes (Student Representation)	Yes		



### INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem - 636 011

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Ph: 0427-2346102/57, E-mail: iqac@gcesalem.edu.in

	Criteria 6 Governance, Leadership an	d Management	
6.1 Faculty Empowerment	6.1.1 Number of teachers provided support to attend conferences/w towards membership fee of profess	orkshops and	Yes
Strategies	Year	2022-23	-
	Total Number of Teacher	3	
	6.1.2 Number of Teachers who had online/ face-to-face Faculty Programmes (FDP)/ Management Programs (MDP)	Development	Yes
	Year	2022-23	
	Total Number of Teacher	6	
	Total Number of Teacher  List of Faculty attended FDP/N		

#### Overall Comments if any:

- Department has well-defined curriculum framework.
- Course content can also be included when remedial class is scheduled.
- · Faculties are encouraged to take steps for research funding.



### INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem – 636 011

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Ph: 0427-2346102/57, E-mail: iqac@gcesalem.edu.in

#### **EXTERNAL AUDIT REPORT 2022-23**

15.11.2023

#### Part - 1: Preliminary Information

N	ame of the Department	:	Electrical and Electronics Engineering
A	ddress of the Institute	:	GCE, Salem
D	ate and time of visit	:	15.11.2023
M	embers of the Audit Committee	:	Signature
1.	Dr.C.Dhavamani, Professor and Head, Department of Aeronautical Engineering Mahendra Engineering College, Namakkal, Tamil Nadu- 637503.	*	Morrono. 11.23
2.	Dr. P. Suresh Professor & Head  Department of Mechatronics Engineering  Sona College of Tech, Salem	**	PSOON/nethfulu

#### Part - 2: Academics Information

Metric No	Description	Yes/No
	Criteria 1 Curricular Aspects	
1.1 Curriculum Design and Development	1.1.1 Curricula developed and implemented have relevance to the local, regional, national, and global developmental needs, which is reflected in the Programme outcomes (POs) and Course Outcomes(COs) of the Programmes	
	➤ Vision & Mission	
	<ul> <li>Programmme Educational Objectives (PEO)</li> </ul>	
	Program Outcomes (PO) – UG & PG	Yes
	Program Specific Outcomes (PSO) – UG & PG	
	> R2018 - Curriculum and Syllabus with CO – UG & PG	
	> R2022 - Curriculum and Syllabus with CO – UG & PG	
	<ul> <li>Process for designing vision, mission, PEO, Program curriculum, New regulation, Teaching Process</li> </ul>	
	> Syllabi book for 2018 and 2022 Regulations	



Irw .	<ul> <li>Circular and Action taken report for Department level</li> <li>Committee, Program Advisory Committee and Board of Studies Minutes</li> </ul>	
	1.1.2 The programmes focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements  > R2018 & R2022 - Course categorization &	Yes
	Comparison charts	
1.2 Academic Flexibility	New courses introduced out of the total number of courses	
	<ul> <li>List of new courses with syllabi for R2018</li> <li>Minutes of Board of Studies meeting clearly specifying the syllabus approval of new courses (R2018)</li> </ul>	Yes
1.3	1.3.1 Integrating cross-cutting issues relevant to	
Curriculum Enrichment	Professional Ethics, Gender, Human Values, Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy – 2020 into the	
	Curriculum  ➤ List of courses for Human Values, Gender, and Professional Ethics with Syllabus  ➤ List of courses for Environment and Sustainability with Syllabus	Yes
	<ul> <li>List of faculty members attending the course "Universal human values"</li> <li>1.3.2 Number of certificate/value added</li> </ul>	
	courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms  > List of students and the attendance sheet for the above mentioned programs  > Programme brochure/notice for Value added	Yes
	programs  > Evidence of course completion	
	1.3.3 Does the programme have components of field projects / research projects / internships	37
	> Evaluated sample project report (5) – UG & PG	Yes
	➤ Internship completion letter – UG & PG	
.4 Feedback System	Structured feedback for curriculum and its transaction is regularly obtained from stakeholders like Students, Teachers, Employers, Alumni, Academic peers etc.,	Yes
	<ul> <li>Collections of feedback forms – Students, Faculty,</li> <li>Parent, Employer, Alumni, Exit Survey</li> </ul>	



	-	Feedback analysis report			
	>	Action taken report on the fee	dback anal	ysis	
	>	Circular and Action taken rep Committee, Program Advisory of Studies Minutes	-		
		Criteria 2 Teaching-learning	g and Evalu	ation	
2.1	Enrol	ment percentage			
Student					
Enrolment		Year		22-23	Yes
and Profile			UG	PG	100
		No of Seats sanctioned	60	18	
2.2	0.5.5	Filled  The department assesses the	59	7	
Student Diversity	>	Remedial Classes Schedule			
		Class Committee Circulars an	ia Minutes		***
	> Mentor - Mentee Files			Yes	
	>	Placement Courses offered for	slow learne	ers	
	➤ Regulation R2018 - Fast track System.				
	>	NPTEL Courses Registration a	and certifica	ites	
	>	GATE/CAT Programs			
	2.2.2	Student - Full time teacher i	ratio		
		Year		2022-23	
		No of students		200	Vas
	L	Number of full time teacher	rs	12	Yes
	>	List showing the number of stude programs	ents in each o	f the	
2.3		Student centric methods,		-	
Feaching- Learning Process	metho experi	ng, participative learning odologies are used for lence and teachers use ICT- e e resources for effective to	enhancing	g learning ls including	
	proces				Yes
		Experiential learning – Sample Naan Mudhalvan courses,		etter,	
		Sample Industrial Project, if a Industrial Visit Reports	ny		



	Technical Seminar for M.E: Circular and other supporting documents  Learning through various social activities and technical association events: Invitation, Schedule, Attendance sheet and Report with Photographs	
	<ul> <li>Problem solving methodologies – Sample Assignments, Tutorials, Mini Project, Project work Report</li> </ul>	
	> SWAYAM/NPTEL Courses	
	2.3.2 The department adopts effective Mentor- Mentee Schemes to address academics and student psychological issues	
	➤ List of Active mentors	Yes
	> Mentor allocation circulars	
	> Mentor Student Mapping	
	Sample Counselling Forms	
	2.3.3 Preparation and adherence of Academic Calendar and Teaching plans by the institution	
	> Academic Calendar	Yes
	> Teaching Plan	
2.4 Student Performance and Learning Outcomes	2.4.1 The department has stated learning outcomes (programme and course outcome)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents and the attainment of the same are evaluated by the institution	
		Vec
	<ul> <li>Course File for each course</li> <li>Overall CO-PO &amp; PSO Attainment with Action Taken Report</li> </ul>	Yes
	> Overall CO-PO & PSO Attainment with Action Taken	
	> Overall CO-PO & PSO Attainment with Action Taken Report	
	<ul> <li>Overall CO-PO &amp; PSO Attainment with Action Taken Report</li> <li>Project Review Evaluation with Rubric</li> </ul>	
	<ul> <li>Overall CO-PO &amp; PSO Attainment with Action Taken Report</li> <li>Project Review Evaluation with Rubric</li> <li>Exit Survey sample forms</li> </ul>	



Promotion of Research and	Year	2022-23	7
Facilities	Amount (INR in Lakhs)		
			NO
	➤ List of faculty who have been provided	with seed	
	money for research along with the title	of the project,	
	duration and amount year-wise		
	> Audited Income-Expenditure statemen	t	
	3.1.2 Teachers receiving national/		
	fellowship/financial support by variou	s agencies for	NIO
	advanced studies/ research Year	2022-23	NO
	Total number of teacher	2022-23	
	Total number of teacher		
3.2	3.2.1 Total Grants research funding re	•	
Resource	institution and its faculties through		
obilization	and non-government sources such		
r Research	corporate houses, international bodies	s for research	
	project, endowment research chairs	2022-23	NO
	1001	2022-23	
	Amount (INR in Lakhs)		
	List of Extramural funding received for	r research	
	List of Extramural funding received fo Endowment Research Chairs received	r research,	
	Endowment Research Chairs received		
	Endowment Research Chairs received  3.2.2 Number of research projects	per teacher	
	Endowment Research Chairs received  3.2.2 Number of research projects funded by government, non-government	per teacher	
	3.2.2 Number of research projects funded by government, non-government corporate houses, international bodies	per teacher nt, industry,	No
	3.2.2 Number of research projects funded by government, non-government corporate houses, international bodies	per teacher	No
	3.2.2 Number of research projects funded by government, non-government corporate houses, international bodies	per teacher nt, industry,	No
	3.2.2 Number of research projects funded by government, non-government corporate houses, international bodies  Year  Number of research projects per teacher	per teacher ent, industry,	No
	3.2.2 Number of research projects funded by government, non-government corporate houses, international bodies  Year  Number of research projects per teacher  3.2.3 Number of teachers recognised	per teacher ent, industry,	No
	3.2.2 Number of research projects funded by government, non-government corporate houses, international bodies  Year  Number of research projects per teacher  3.2.3 Number of teachers recognised guides	per teacher ent, industry,	No
	3.2.2 Number of research projects funded by government, non-government corporate houses, international bodies  Year  Number of research projects per teacher  3.2.3 Number of teachers recognised guides  Year	per teacher ent, industry,  2022-23  as research  2022-23	
	3.2.2 Number of research projects funded by government, non-government corporate houses, international bodies  Year  Number of research projects per teacher  3.2.3 Number of teachers recognised guides	per teacher ent, industry,	
3.3	3.2.2 Number of research projects funded by government, non-government corporate houses, international bodies  Year  Number of research projects per teacher  3.2.3 Number of teachers recognised guides  Year	per teacher ent, industry,  2022-23  as research  2022-23  7	
	3.2.2 Number of research projects funded by government, non-government corporate houses, international bodies  Year  Number of research projects per teacher  3.2.3 Number of teachers recognised guides  Year  Recognised as research guides	per teacher ent, industry,  2022-23  as research  2022-23  7	Yes
Research	3.2.2 Number of research projects funded by government, non-government corporate houses, international bodies  Year  Number of research projects per teacher  3.2.3 Number of teachers recognised guides  Year  Recognised as research guides  3.3.1 List of candidates registered	per teacher ent, industry,  2022-23  as research  2022-23  7	
Research Iblications	3.2.2 Number of research projects funded by government, non-government corporate houses, international bodies  Year  Number of research projects per teacher  3.2.3 Number of teachers recognised guides  Year  Recognised as research guides  3.3.1 List of candidates registered teacher	per teacher ent, industry,  2022-23 as research  2022-23 7 for Ph.D per	Yes
Research Iblications	3.2.2 Number of research projects funded by government, non-government corporate houses, international bodies  Year  Number of research projects per teacher  3.2.3 Number of teachers recognised guides  Year  Recognised as research guides  3.3.1 List of candidates registered teacher  Year  Total Number of Candidate	per teacher ent, industry,  2022-23  as research  2022-23  7  for Ph.D per	Yes
Research Iblications	3.2.2 Number of research projects funded by government, non-government corporate houses, international bodies  Year  Number of research projects per teacher  3.2.3 Number of teachers recognised guides  Year  Recognised as research guides  3.3.1 List of candidates registered teacher  Year  Total Number of Candidate  3.3.2 List of research papers in teacher	per teacher ent, industry,  2022-23  as research  2022-23  7  for Ph.D per	Yes
3.3 Research iblications nd Awards	3.2.2 Number of research projects funded by government, non-government corporate houses, international bodies  Year  Number of research projects per teacher  3.2.3 Number of teachers recognised guides  Year  Recognised as research guides  3.3.1 List of candidates registered teacher  Year  Total Number of Candidate	per teacher ent, industry,  2022-23  as research  2022-23  7  for Ph.D per	Yes



	<ul> <li>Copies of Full paper (with author and affiliation details)</li> </ul>	
7	3.3.3 Total Number of books and chapters in edited volumes published  Year  Total Number of Books/Chapters	No
	Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters	
3.4 Consultancy	Revenue generated from consultancy and corporate training  Year  Amount (INR in Lakhs)	No
3.5 Collaboration	Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research  Year 2022-23 Total Number of MoUs	No
	<ul> <li>Copies of documents indicating the functional MoUs</li> <li>List of year wise activities with report</li> </ul>	
	Criteria 4 Infrastructure and Learning Resources	
4.1	Adequate infrastructure and other facilities	
Physical	> Details of Interactive Display & Smart Board	
Facilities	Details of Classrooms, Laboratory and list of equipment including lab manual, Number of Computers available, list of software used for students  1. Classrooms – 7  2. Laboratory-17  3. Computer - 40	Yes
	Criteria 5 Student Support and Progression	
5.1 Student Support	5.1.1 Efforts taken by the institution to provide career counselling including e-counselling and guidance for competitive examinations	Yes
	<ul> <li>Details of programmes like Career guidance programme, Placement Training</li> </ul>	



### INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem – 636 011 (An Autonomous Institution, Affiliated to Anna University, Chennai)

Ph: 0427-2346102/57, E-mail: iqac@gcesalem.edu.in

	Reports with Photograph	
	5.1.2 Capacity development and skills enhancement activities are organised for improving students' capability	
	Year 2022-23 Total Number of Program	No
	> Report with Photographs on programmes conducted for awareness of trends	
5.2 Student	5.2.1 Number of outgoing students placed and progressed to higher education	
Progression	Year 2022-23  Total Number of Students Placed 42  Total Number of progressed to higher 3  education	Yes
	5.2.2 Number of students qualifying in state/national/international level examinations (eg: NET/SLET/Civil Services/State government examinations etc.)  Year 2022-23	No
	C 25542	
	Total Number of Students Qualified  Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution.	Yes
Student Participation	Total Number of Students Qualified  Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the	Yes
Student Participation	Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution.	
Student Participation	Total Number of Students Qualified  Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution.  > Technical Symposium	Yes
Student Participation	Total Number of Students Qualified  Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution.  > Technical Symposium > Class committee meeting	Yes Yes
Student Participation	Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution.  > Technical Symposium > Class committee meeting > BOS minutes > BOG Sub committees circulars and Minutes (Student)	Yes Yes Yes
	Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution.  > Technical Symposium  > Class committee meeting  > BOS minutes  > BOG Sub committees circulars and Minutes (Student Representation)	Yes Yes Yes



### INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem - 636 011

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Ph: 0427-2346102/57, E-mail: <u>iqac@gcesalem.edu.in</u>

6.1.2 Number of Teachers who have undergone online/ face-to-face Faculty Development Programmes (FDP)/ Management Development Programs (MDP)	ŧ
Year 2022-23	
Total Number of Teacher 6	
➤ List of Faculty attended FDP/MDP	

#### Overall Comments if any:

- 1. It is recommended to take steps for generating revenue through consultancy works.
- 2. Steps may be taken to get MOUs with industries.
- 3. Extra classes may be conducted help students for higher studies.



### INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem - 636 011

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Ph: 0427-2346102/57, E-mail: iqac@gcesalem.edu.in

#### **EXTERNAL AUDIT REPORT 2022-23**

15.11.2023

#### Part - 1: Preliminary Information

N	ame of the Department	•	Mechanical Engineering
A	ddress of the Institute	:	GCE, Salem
D	ate and time of visit	:	15.11.2023
M	embers of the Audit Committee		Signature
1.	Dr.C.Dhavamani, Professor and Head, Department of Aeronautical Engineering Mahendra Engineering College, Namakkal, Tamil Nadu- 637503.		15.11.23
2.	Dr. P. Suresh Professor & Head  Department of Mechatronics Engineering  Sona College of Tech, Salem	:	forther 13/11

#### Part - 2: Academics Information

Metric No	Description	
	Criteria 1 Curricular Aspects	
1.1 Curriculum Design and Development	1.1.1 Curricula developed and implemented have relevance to the local, regional, national, and global developmental needs, which is reflected in the Programme outcomes (POs) and Course Outcomes(COs) of the Programmes	
	➤ Vision & Mission	
	<ul> <li>Programmme Educational Objectives (PEO)</li> </ul>	
	➤ Program Outcomes (PO) – UG & PG	Yes
	<ul><li>Program Specific Outcomes (PSO) – UG &amp; PG</li></ul>	
	<ul> <li>R2018 - Curriculum and Syllabus with CO – UG</li> <li>PG</li> </ul>	
alah me	<ul> <li>R2022 - Curriculum and Syllabus with CO – UG</li> <li>&amp; PG</li> </ul>	
	<ul> <li>Process for designing vision, mission, PEO,</li> <li>Program curriculum, New regulation, Teaching</li> <li>Process</li> </ul>	



	Syllabi book for 2018 and 2022 Regulations  Circular and Astion taken report for Department	
	<ul> <li>Circular and Action taken report for Department level Committee, Program Advisory Committee</li> </ul>	
	and Board of Studies Minutes	
	1.1.2 The programmes focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate	Yes
	> R2018 & R2022 - Course categorization &	
1.2 Academic	Comparison charts  New courses introduced out of the total number of	
Flexibility	courses	
	➤ List of new courses with syllabi for R2018	Yes
	<ul> <li>Minutes of Board of Studies meeting clearly specifying the syllabus approval of new courses (R2018)</li> </ul>	
Enrichment	Professional Ethics, Gender, Human Values, Environment and Sustainability and other value	
Enrichment		Yes
Enrichment	Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  > List of courses for Human Values, Gender, and Professional Ethics with Syllabus > List of courses for Environment and	Yes
Enrichment	Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  > List of courses for Human Values, Gender, and Professional Ethics with Syllabus  > List of courses for Environment and Sustainability with Syllabus  > List of faculty members attending the course "Universal human values"	Yes
Enrichment	Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  > List of courses for Human Values, Gender, and Professional Ethics with Syllabus > List of courses for Environment and Sustainability with Syllabus > List of faculty members attending the course "Universal human values"  1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other	
Enrichment	Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  > List of courses for Human Values, Gender, and Professional Ethics with Syllabus  > List of courses for Environment and Sustainability with Syllabus  > List of faculty members attending the course "Universal human values"  1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs,	Yes
Enrichment	Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  > List of courses for Human Values, Gender, and Professional Ethics with Syllabus  > List of courses for Environment and Sustainability with Syllabus  > List of faculty members attending the course "Universal human values"  1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms  > List of students and the attendance sheet for	
Enrichment	Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum   List of courses for Human Values, Gender, and Professional Ethics with Syllabus  List of courses for Environment and Sustainability with Syllabus  List of faculty members attending the course "Universal human values"  1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms  List of students and the attendance sheet for the above mentioned programs  Programme brochure/notice for Value added	
Enrichment	Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  > List of courses for Human Values, Gender, and Professional Ethics with Syllabus  > List of courses for Environment and Sustainability with Syllabus  > List of faculty members attending the course "Universal human values"  1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms  > List of students and the attendance sheet for the above mentioned programs  > Programme brochure/notice for Value added programs	
Enrichment	Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy – 2020 into the Curriculum  > List of courses for Human Values, Gender, and Professional Ethics with Syllabus  > List of courses for Environment and Sustainability with Syllabus  > List of faculty members attending the course "Universal human values"  1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms  > List of students and the attendance sheet for the above mentioned programs  > Programme brochure/notice for Value added programs  > Evidence of course completion  1.3.3 Does the programme have components of field	



	like	action is regularly obtain Students, Teachers,			×
		emic peers etc.,			
	>	Collections of feedback			
		Faculty, Parent, Employe		Exit Survey	Yes
	>	Feedback analysis report			
	>	Action taken report on th	e feedbacl	c analysis	2
	>	Circular and Action taker	n report for	r Department	
		level Committee, Program		y Committee	
		and Board of Studies Min	utes		
	C	riteria 2 Teaching-learnin	ng and Ev	aluation	
2.1 Student	Enrol	ment percentage			
Enrolment		Year	202	22-23	
and Profile			UG	PG	
	I	No of Seats sanctioned	120	36	
		Filled	104	7	
Student	cater	tudents and organises sp to differential learning n	eeds of tl	_	
_	cater	to differential learning n Remedial Classes Schedu	leeds of the	ne student	
Student	cater	to differential learning n Remedial Classes Schedu Class Committee Circular	leeds of the	ne student	Yes
Student	cater	to differential learning n Remedial Classes Schedu	leeds of the lees and Min	ne student nutes	
Student	cater > > >	to differential learning n Remedial Classes Schedu Class Committee Circular Mentor – Mentee Files	le rs and Min	nutes learners	
Student	cater > > > >	to differential learning in Remedial Classes Schedu Class Committee Circular Mentor – Mentee Files Placement Courses offered	le rs and Min d for slow rack Syste	learners	
Student	cater	to differential learning in Remedial Classes Schedu Class Committee Circular Mentor – Mentee Files Placement Courses offered Regulation R2018 - Fast to	le rs and Min d for slow rack Syste	learners	
Student	cater	to differential learning in Remedial Classes Schedu Class Committee Circular Mentor – Mentee Files Placement Courses offered Regulation R2018 - Fast t NPTEL Courses Registrati	d for slow crack System	learners em. rtificates	
Student	cater	to differential learning in Remedial Classes Schedu Class Committee Circular Mentor – Mentee Files Placement Courses offered Regulation R2018 - Fast t NPTEL Courses Registrati GATE/CAT Programs Student - Full time teach Year	d for slow crack System	learners em. rtificates	
Student	cater	to differential learning in Remedial Classes Schedu Class Committee Circular Mentor – Mentee Files Placement Courses offered Regulation R2018 - Fast t NPTEL Courses Registrati GATE/CAT Programs Student - Full time teach Year No of students	d for slow crack Systemer ratio	learners em. rtificates	Yes
Student	cater	to differential learning in Remedial Classes Schedu Class Committee Circular Mentor – Mentee Files Placement Courses offered Regulation R2018 - Fast t NPTEL Courses Registrati GATE/CAT Programs Student - Full time teach Year	d for slow crack Systemer ratio	learners em. rtificates	
Student	> > > > > > > > > > > > > > > > > > >	to differential learning in Remedial Classes Schedu Class Committee Circular Mentor – Mentee Files Placement Courses offered Regulation R2018 - Fast t NPTEL Courses Registrati GATE/CAT Programs Student - Full time teach Year No of students Number of full time teach List showing the number of sprograms	d for slow crack System and center ratio	learners em. rtificates  2022-23 375 22 each of the	Yes
Student	> > > > > > > > > > > > > > > > > > >	to differential learning in Remedial Classes Schedu Class Committee Circular Mentor – Mentee Files Placement Courses offered Regulation R2018 - Fast t NPTEL Courses Registrati GATE/CAT Programs Student - Full time teach Year No of students Number of full time teach List showing the number of st	d for slow rack Systemer ratio ers	learners em. rtificates  2022-23 375 22 each of the experiential	Yes



	and learning process	
	<ul> <li>Experiential learning – Sample Internship letter,</li> <li>Naan Mudhalvan courses,</li> <li>Sample Industrial Project, if any</li> <li>Industrial Visit Reports</li> </ul>	
	Participative learning – Technical Seminar for M.E: Circular and other supporting documents Learning through various social activities and technical association events: Invitation, Schedule, Attendance sheet and Report with Photographs	
	<ul> <li>Problem solving methodologies – Sample Assignments, Tutorials, Mini Project, Project work Report</li> </ul>	100
	> SWAYAM/NPTEL Courses	
	Mentee Schemes to address academics and student psychological issues  > List of Active mentors  > Mentor allocation circulars	Yes
	> Mentor Student Mapping	
	> Sample Counselling Forms	
	<ul> <li>Sample Counselling Forms</li> <li>2.3.3 Preparation and adherence of Academic Calendar and Teaching plans by the institution</li> </ul>	
	2.3.3 Preparation and adherence of Academic	Yes
	2.3.3 Preparation and adherence of Academic Calendar and Teaching plans by the institution	Yes
2.4 Student Performance nd Learning Outcomes	2.3.3 Preparation and adherence of Academic Calendar and Teaching plans by the institution  > Academic Calendar  > Teaching Plan  2.4.1 The department has stated learning outcomes (programme and course outcome)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents and the attainment of the same are evaluated by the institution	Yes
Student erformance nd Learning	2.3.3 Preparation and adherence of Academic Calendar and Teaching plans by the institution  > Academic Calendar  > Teaching Plan  2.4.1 The department has stated learning outcomes (programme and course outcome)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents and the attainment of the	
Student Performance and Learning	2.3.3 Preparation and adherence of Academic Calendar and Teaching plans by the institution  > Academic Calendar  > Teaching Plan  2.4.1 The department has stated learning outcomes (programme and course outcome)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents and the attainment of the same are evaluated by the institution  > Course File for each course  > Overall CO-PO & PSO Attainment with Action	
Student Performance nd Learning	2.3.3 Preparation and adherence of Academic Calendar and Teaching plans by the institution  > Academic Calendar  > Teaching Plan  2.4.1 The department has stated learning outcomes (programme and course outcome)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents and the attainment of the same are evaluated by the institution  > Course File for each course  > Overall CO-PO & PSO Attainment with Action Taken Report	



### INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem – 636 011 (An Autonomous Institution, Affiliated to Anna University, Chennai)

Ph: 0427-2346102/57, E-mail: iqac@gcesalem.edu.in

	chart	2022-23	
	Number of Students Pass	132	-
	Number of Students Lass	102	
	Criteria 3 Research, Innovations	and Extension	
3.1	3.1.1 Amount of seed mone		
Promotion of	institution to its teachers for re		
Research and	Year	2022-23	
<b>Facilities</b>	Amount (INR in Lakhs)	-	No
	<ul> <li>List of faculty who have been property money for research along with the project, duration and amount you have been property.</li> <li>Audited Income-Expenditure states</li> </ul>	the title of the ear-wise	
	3.1.2 Teachers receiving international fellowship/finance various agencies for advanced structure.  Year	ial support by	No
3.2	Total number of teacher  3.2.1 Total Grants research fund		
Resource Mobilization	3.2.1 Total Grants research fund the institution and its fact Government and non-government as industry, corporate houses bodies for research project research chairs	ulties through nt sources such , international t, endowment	
	3.2.1 Total Grants research fund the institution and its fact Government and non-government as industry, corporate houses bodies for research project research chairs  Year	ulties through nt sources such , international	
Resource Mobilization	3.2.1 Total Grants research fund the institution and its fact Government and non-government as industry, corporate houses bodies for research project research chairs  Year  Amount (INR in Lakhs)  List of Extramural funding receives arch,	ulties through at sources such and international and	
Resource Mobilization	3.2.1 Total Grants research fund the institution and its fact Government and non-government as industry, corporate houses bodies for research project research chairs  Year  Amount (INR in Lakhs)  List of Extramural funding received research, Endowment Research Chairs received	ulties through nt sources such and international through endowment 2022-23	
Resource Mobilization	3.2.1 Total Grants research fund the institution and its fact Government and non-government as industry, corporate houses bodies for research project research chairs  Year  Amount (INR in Lakhs)  List of Extramural funding receives arch,	eived for  cts per teacher on-government, international cts per teacher on-government, international	
Resource Mobilization	3.2.1 Total Grants research fund the institution and its fact Government and non-government as industry, corporate houses bodies for research project research chairs  Year  Amount (INR in Lakhs)  List of Extramural funding received research, Endowment Research Chairs received 3.2.2 Number of research project funded by government, not industry, corporate houses, bodies  Year	eived for  cts per teacher on-government, international cts per teacher on-government, international cher	No



Research	3.3.1 List of candidates registered fo teacher	1 11.2 pox	***
<b>Publications</b>	Year	2022-23	Yes
and Awards	Total Number of Candidate	20	
	3.3.2 List of research papers in the notified on UGC CARE list	Journals	
	Year	2022-23	Yes
	Total Number of Research paper	32	
	<ul> <li>Copies of Full paper (with a affiliation details)</li> </ul>	uthor and	
	3.3.3 Total Number of books and cledited volumes published		No
	Year	2022-23	
: *	Total Number of Books/Chapters	*	
	first page of the publication indic number and year of public books/chapters	cation for	
3.4	Revenue generated from consulta	ancy and	
Consultancy	corporate training	2022 22	No
	Year Amount (INR in Lakhs)	2022-23	
3.5 Collaboration	Number of functional MoUs/linka institutions/ industries in India and	_	
	internship, on-the-job training, proj student / faculty exchange and col research	ect work,	No
	student / faculty exchange and col research  Year	ect work,	No
	student / faculty exchange and col research	ect work, laborative	No
The same of the sa	student / faculty exchange and col research  Year	laborative	No
	student / faculty exchange and col research  Year  Total Number of MoUs  Copies of documents indicated	laborative  2022-23 ating the	No
	student / faculty exchange and col research  Year  Total Number of MoUs  Copies of documents indicate functional MoUs	2022-23 ating the	No
4.1	student / faculty exchange and col research  Year  Total Number of MoUs  Copies of documents indicated functional MoUs  List of year wise activities with reg	2022-23 ating the	No
4.1 Physical Facilities	student / faculty exchange and col research  Year  Total Number of MoUs  Copies of documents indicated functional MoUs  List of year wise activities with report of the control of the con	2022-23 ating the cort Resources	No



	Computers available, list of software used for		
	students		
	1. Classrooms – 8		
	2. Laboratory-10		
	3. Computer - 65		
	Criteria 5 Student Support and Progression		
5.1 Student Support	5.1.1 Efforts taken by the institution to provide career counselling including e-counselling and guidance for competitive examinations	Yes	
	<ul> <li>Details of programmes like Career guidance programme, Placement Training</li> <li>Reports with Photograph</li> </ul>	ies	
	5.1.2 Capacity development and skills		
	enhancement activities are organised for		
	improving students' capability	195	
	Year 2022-23	No	
	Total Number of Program -		
	> Report with Photographs on programmes		
	conducted for awareness of trends		
5.2	5.2.1 Number of outgoing students placed and		
Student	progressed to higher education		
Progression	Year 2022-23	Voc	
	Total Number of Students Placed 77	Yes	
	Total Number of progressed to higher 2		
	education		
	5.2.2 Number of students qualifying in state/ national/ international level examinations (eg: NET/SLET/Civil Services/State government examinations etc.)	No	
	Year 2022-23		
F 0	Total Number of Students Qualified		
5.3 Student Participation and Activities	Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution.	Yes	
	> Technical Symposium	Yes	
	> Class committee meeting	Yes	
	> BOS minutes	Yes	
	<ul> <li>BOG Sub committees circulars and Minutes (Student Representation)</li> </ul>	Yes	



# INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem – 636 011

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Ph: 0427-2346102/57, E-mail: iqac@gcesalem.edu.in

Management		
financial support to conferences/workshops and	attend towards	Yes
Year Total Number of Teacher	2022-23	
online/ face-to-face Faculty Programmes (FDP)/ Management	Development	Yes
Year Total Number of Teacher	2022-23	
	6.1.1 Number of teachers profinancial support to conferences/workshops and membership fee of professional books Year Total Number of Teacher  6.1.2 Number of Teachers who have online/ face-to-face Faculty Programmes (FDP)/ Management Programs (MDP)  Year	6.1.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies  Year 2022-23  Total Number of Teacher 1  6.1.2 Number of Teachers who have undergone online/ face-to-face Faculty Development Programmes (FDP)/ Management Development Programs (MDP)  Year 2022-23

#### Overall Comments if any:

- Department has well-defined curriculum framework.
- Course content can also be included when remedial class is scheduled
- · Faculties are encouraged to take steps for research funding
- An initiative for generating revenue through consultancy is needed
- Steps may be taken to get MOUs with industries.



### INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem - 636 011

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Ph: 0427-2346102/57, E-mail: iqac@gcesalem.edu.in

#### **EXTERNAL AUDIT REPORT 2022-23**

15.11.2023

Part - 1: Preliminary Information

Name of the Departme	nt	:	Metallurgical Engineering
Address of the Institut	e	:	GCE, Salem
Date and time of visit		:	15.11.2023
Members of the Audit (	Committee		Signature
<ol> <li>Dr.C.Dhavamani, Pro Department of Aerona Mahendra Engineerin Namakkal, Tamil Nad</li> </ol>	autical Engineering g College,		Momono. 1.23
2. Dr. P. Suresh Professor Department of Mecha Sona College of Tech,	tronics Engineering	:	Peopling 14.

Part - 2: Academics Information

Metric No	Description		
	Criteria 1 Curricular Aspects		
1.1 Curriculum Design and Development	1.1.1 Curricula developed and implemented have relevance to the local, regional, national, and global developmental needs, which is reflected in the Programme outcomes (POs) and Course Outcomes(COs) of the Programmes		
	<ul><li>Vision &amp; Mission</li></ul>		
	<ul> <li>Programmme Educational Objectives (PEO)</li> </ul>		
	Program Outcomes (PO) – UG & PG	Yes	
	Program Specific Outcomes (PSO) – UG & PG		
	<ul> <li>R2018 - Curriculum and Syllabus with CO – UG</li> <li>PG</li> </ul>		
MIG ) a mag	<ul> <li>R2022 - Curriculum and Syllabus with CO – UG</li> <li>PG</li> </ul>		
100	Process for designing vision, mission, PEO, Program curriculum, New regulation, Teaching Process		



4.5	> Syllabi book for 2018 and 2022 Regulations	
I C SI	<ul> <li>Circular and Action taken report for Department level Committee, Program Advisory Committee and Board of Studies Minutes</li> </ul>	
	1.1.2 The programmes focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements	Yes
	➤ R2018 & R2022 – Course categorization & Comparison charts	
1.2 Academic Flexibility	1.2.1 New courses introduced out of the total number of courses	
	<ul> <li>List of new courses with syllabi for R2018</li> <li>Minutes of Board of Studies meeting clearly</li> </ul>	Yes
	specifying the syllabus approval of new courses (R2018)	- c
	Professional Ethics, Gender, Human Values,	
	Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy – 2020 into the	
	framework enshrined in Sustainable Development	Yes
	framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  List of courses for Human Values, Gender, and Professional Ethics with Syllabus  List of courses for Environment and Sustainability with Syllabus	Yes
	framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  List of courses for Human Values, Gender, and Professional Ethics with Syllabus  List of courses for Environment and Sustainability with Syllabus  List of faculty members attending the course "Universal human values"	Yes
To the second of	framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  List of courses for Human Values, Gender, and Professional Ethics with Syllabus  List of courses for Environment and Sustainability with Syllabus  List of faculty members attending the course "Universal human values"  1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other	Yes
	framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  List of courses for Human Values, Gender, and Professional Ethics with Syllabus  List of courses for Environment and Sustainability with Syllabus  List of faculty members attending the course "Universal human values"  1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms  List of students and the attendance sheet for the above mentioned programs  Programme brochure/notice for Value added	Yes
To deligate the state of the st	framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  List of courses for Human Values, Gender, and Professional Ethics with Syllabus  List of courses for Environment and Sustainability with Syllabus  List of faculty members attending the course "Universal human values"  1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms  List of students and the attendance sheet for the above mentioned programs	T T
	framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  List of courses for Human Values, Gender, and Professional Ethics with Syllabus  List of courses for Environment and Sustainability with Syllabus  List of faculty members attending the course "Universal human values"  1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms  List of students and the attendance sheet for the above mentioned programs  Programme brochure/notice for Value added programs	T T
	framework enshrined in Sustainable Development Goals and National Education Policy - 2020 into the Curriculum  > List of courses for Human Values, Gender, and Professional Ethics with Syllabus  > List of courses for Environment and Sustainability with Syllabus  > List of faculty members attending the course "Universal human values"  1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms  > List of students and the attendance sheet for the above mentioned programs  > Programme brochure/notice for Value added programs  > Evidence of course completion  1.3.3 Does the programme have components of field	T T



1.4 Feedback System	Structured feedback for cu transaction is regularly obtaine like Students, Teachers, E Academic peers etc.,		takeholders	
	<ul> <li>Collections of feedback form Parent, Employer, Alumni, I</li> </ul>		•	Yes
	<ul><li>Feedback analysis report</li></ul>			
	> Action taken report on the f	eedback a	analysis	
	<ul> <li>Circular and Action taken r level Committee, Program and Board of Studies Minut</li> </ul>	Advisory	<del>-</del>	
	Criteria 2 Teaching-learning	and Eva	luation	
2.1 Student	Enrolment percentage			
Enrolment and	Year		2-23	Yes
Profile		UG	PG	100
	No of Seats sanctioned Filled	60 56	18	
Diversity	<ul> <li>Remedial Classes Schedule</li> <li>Class Committee Circulars a</li> </ul>	and Minu	tes	
	➤ Mentor – Mentee Files			Yes
	➢ Placement Courses offered for a property of the property	or slow le	arners	
	Regulation R2018 - Fast tra	ck Systen	n.	
	> NPTEL Courses Registration	and cert	ificates	
	➤ GATE/CAT Programs	-111		
	2.2.2 Student - Full time teacher			
	Year No of students	20	)22-23	
	No or students  Number of full time teachers		9	Yes
	Transpor of fair time toachers			
	➤ List showing the number of students programs	dents in ea	ch of the	



	including online resources for effective teaching and learning process	
	<ul> <li>Experiential learning – Sample Internship letter,</li> <li>Naan Mudhalvan courses,</li> <li>Sample Industrial Project, if any</li> </ul>	
	Industrial Visit Reports  Participative learning – Technical Seminar for M.E: Circular and other supporting documents Learning through various social activities and technical association events: Invitation, Schedule, Attendance sheet and Report with Photographs	
	<ul> <li>Problem solving methodologies – Sample Assignments, Tutorials, Mini Project, Project work Report</li> </ul>	
	> SWAYAM/NPTEL Courses  2.3.2 The department adopts effective Mentor-	
	Mentee Schemes to address academics and student psychological issues	
	> List of Active mentors	Yes
	> Mentor allocation circulars	
	> Mentor Student Mapping	
	> Sample Counselling Forms	
	2.3.3 Preparation and adherence of Academic Calendar and Teaching plans by the institution	
	> Academic Calendar	Yes
	> Teaching Plan	
2.4 Student Performance and Learning Outcomes	2.4.1 The department has stated learning outcomes (programme and course outcome)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents and the attainment of the same are evaluated by the institution	
	<ul> <li>Course File for each course</li> <li>Overall CO-PO &amp; PSO Attainment with Action Taken Report</li> </ul>	Yes
Con Sul	<ul> <li>Project Review Evaluation with Rubric</li> <li>Exit Survey sample forms</li> </ul>	



### INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem – 636 011 (An Autonomous Institution, Affiliated to Anna University, Chennai)

Ph: 0427-2346102/57, E-mail: iqac@gcesalem.edu.in

	<ul><li>Departments: Result Analysis chart</li></ul>	of all classes with	Yes
	Year	2022-23	
	Number of Students Pass	57	
	Criteria 3 Research, Innovations	and Extension	1
3.1 Promotion of	3.1.1 Amount of seed money institution to its teachers for res		
Research and	Year	2022-23	
Facilities	Amount (INR in Lakhs)	н.	No
	<ul> <li>List of faculty who have been promoney for research along with the project, duration and amount year.</li> <li>Audited Income-Expenditure states</li> </ul>	he title of the ear-wise	
	3.1.2 Teachers receiving nationa fellowship/financial support by v for advanced studies/ research  Year	=	No
mi . ( -10	Total number of teacher	-	
	3.2.1 Total Grants research fund	ing received by ulties through at sources such , international	No
Resource Mobilization	3.2.1 Total Grants research fund the institution and its fact Government and non-government as industry, corporate houses bodies for research project, endouchairs  Year	ing received by ulties through at sources such international wment research	No
Resource Mobilization	3.2.1 Total Grants research fund the institution and its fact Government and non-government as industry, corporate houses bodies for research project, endough chairs  Year  Amount (INR in Lakhs)  List of Extramural funding rece Endowment Research Chairs received 3.2.2 Number of research projects	ing received by ulties through at sources such international wment research  2022-23 ived for research,  ets per teacher on-government, national bodies 2022-23	No
	3.2.1 Total Grants research fund the institution and its fact Government and non-government as industry, corporate houses bodies for research project, endough chairs  Year  Amount (INR in Lakhs)  List of Extramural funding rece Endowment Research Chairs received 3.2.2 Number of research project funded by government, not industry, corporate houses, interesting the search of the search chairs received the search project funded by government, not industry, corporate houses, interesting the search chairs received the search project funded by government, not industry, corporate houses, interesting the search project funded by government, not industry, corporate houses, interesting the search project funded by government, not industry, corporate houses, interesting the search project funded by government, not industry, corporate houses, interesting the search project funded by government, not industry, corporate houses, interesting the search project funded by government, not industry, corporate houses, interesting the search project funded by government, not industry, corporate houses, interesting the search project funded by government, not industry, corporate houses, interesting the search project funded by government, not industry funded by government, not i	ing received by ulties through at sources such international wment research  2022-23 ived for research,  ets per teacher on-government, national bodies 2022-23 ther -	



Research Publications	teacher Year	2022-23	Yes
and Awards	Total Number of Candidate	2	
	3.3.2 List of research papers in t notified on UGC CARE list	he Journals	V
	Year	2022-23	Yes
	Total Number of Research paper	18	
	<ul> <li>Copies of Full paper (with affiliation details)</li> </ul>	author and	,
	3.3.3 Total Number of books and edited volumes published		No
	Year	2022-23	110
	Total Number of Books/Chapters	·#:	
	Copy of the Cover page, content page of the publication indinumber and year of pubbooks/chapters	cating ISBN lication for	
3.4 Consultancy	Revenue generated from consuctorporate training  Year  Amount (INR in Lakhs)	2022-23	No
3.5 ollaboration	Number of functional MoUs/line institutions/ industries in India and internship, on-the-job training, prestudent / faculty exchange and or research  Year Total Number of MoUs	d abroad for oject work,	Yes
	> Copies of documents indi	icating the	
	functional MoUs		
	functional MoUs  > List of year wise activities with re		
		eport	
4.1	> List of year wise activities with re Criteria 4 Infrastructure and Learning	eport	
4.1 Physical Facilities	> List of year wise activities with re	eport  Resources  acilities	



	Computers available, list of software used for students  1. Classrooms – 6  2. Laboratory-10	
	3. Computer - 41	
	Criteria 5 Student Support and Progression	
5.1 Student Support	5.1.1 Efforts taken by the institution to provide career counselling including e-counselling and guidance for competitive examinations	- Yes
	<ul> <li>Details of programmes like Career guidance programme, Placement Training</li> <li>Reports with Photograph</li> </ul>	
	5.1.2 Capacity development and skills enhancement activities are organised for improving students' capability	
	Year 2022-23	No
	Total Number of Program -	
	> Report with Photographs on programmes	
	conducted for awareness of trends	
5.2 Student Progression	5.2.1 Number of outgoing students placed and progressed to higher education	
110610001011	Year 2022-23 Total Number of Students Placed 54	Yes
	Total Number of Students Flaced 54  Total Number of progressed to higher - education	
	5.2.2 Number of students qualifying in state/ national/ international level examinations (eg: NET/SLET/Civil Services/State government examinations etc.)  Year 2022-23 Total Number of Students Qualified 2	Yes
5.3 Student Participation and Activities	Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution.	Yes
	> Technical Symposium	Yes
N. S.	> Class committee meeting	Yes
	➤ BOS minutes	Yes
	> BOG Sub committees circulars and Minutes (Student Representation)	Yes



Government College of Engineering, Salem – 636 011
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Ph: 0427-2346102/57, E-mail: iqac@gcesalem.edu.in

3-1-1	Criteria 6 Governance, Leadership and	d Management	
6.1 Faculty Empowerment	6.1.1 Number of teachers provided support to attend conferences/we towards membership fee of profess	orkshops and	Yes
Strategies	Year	2022-23	
	Total Number of Teacher	3	
	6.1.2 Number of Teachers who have online/ face-to-face Faculty Programmes (FDP)/ Management Programs (MDP)	Development	Yes
	Year	2022-23	
	Total Number of Teacher	3	
	Total Number of Teacher	3	

Overall Comments if any:-



# INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem - 636 011

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Ph: 0427-2346102/57, E-mail: iqac@gcesalem.edu.in

#### **EXTERNAL AUDIT REPORT 2022-23**

15.11.2023

#### Part - 1: Preliminary Information

Na	ame of the Department	:	Science and Humanities
A	ddress of the Institute	:	GCE, Salem
D	ate and time of visit	:	15.11.2023
M	embers of the Audit Committee		Signature
1.	Dr.C.Dhavamani, Professor and Head,		Control of the contro
	Department of Aeronautical Engineering	:	· Ca mone - 22
	Mahendra Engineering College,		Mo mons 11.23
	Namakkal, Tamil Nadu- 637503.		
2.	Dr. P. Suresh Professor & Head		
	Department of Mechatronics Engineering	:	Permi Mila
	Sona College of Tech, Salem		18011/1749 July

Part - 2: Academics Information

Metric No	Description	Yes/ No
	Criteria 1 Curricular Aspects	
1.1 Curriculum Design and Development	1.1.1 Curricula developed and implemented have relevance to the local, regional, national, and global developmental needs, which is reflected in the Programme outcomes (POs) and Course Outcomes(COs) of the Programmes	
	➤ Vision & Mission	
	<ul> <li>Programmme Educational Objectives (PEO)</li> </ul>	
	Program Outcomes (PO) – UG & PG	Yes
	<ul><li>Program Specific Outcomes (PSO) – UG &amp; PG</li></ul>	
	R2018 - Curriculum and Syllabus with CO – UG & PG	
	> R2022 - Curriculum and Syllabus with CO – UG & PG	
	<ul> <li>Process for designing vision, mission, PEO,</li> <li>Program curriculum, New regulation, Teaching</li> <li>Process</li> </ul>	



	Syllabi book for 2018 and 2022 Regulations	
	<ul> <li>Circular and Action taken report for Department level Committee, Program Advisory Committee and</li> </ul>	
	Board of Studies Minutes  1.1.2 The programmes focus on employability/ entrepreneurship/ skill development and their course	
	syllabi are adequately revised to incorporate contemporary requirements	Yes
0.4	> R2018 & R2022 - Course categorization & Comparison charts	
	1.2.1 New courses introduced out of the total number of courses	
	<ul> <li>List of new courses with syllabi for R2018</li> <li>Minutes of Board of Studies meeting clearly</li> </ul>	Yes
	specifying the syllabus approval of new courses (R2018)	
Curriculum Enrichment	1.3.1 Integrating cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability and other value framework enshrined in Sustainable Development	
	Goals and National Education Policy - 2020 into the	
	Curriculum	Voc
	<ul> <li>List of courses for Human Values, Gender, and Professional Ethics with Syllabus</li> </ul>	Yes
	> List of courses for Human Values, Gender, and	Yes
	<ul> <li>List of courses for Human Values, Gender, and Professional Ethics with Syllabus</li> <li>List of courses for Environment and Sustainability</li> </ul>	Yes
	<ul> <li>List of courses for Human Values, Gender, and Professional Ethics with Syllabus</li> <li>List of courses for Environment and Sustainability with Syllabus</li> <li>List of faculty members attending the course "Universal human values"</li> <li>1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other</li> </ul>	Yes
	<ul> <li>List of courses for Human Values, Gender, and Professional Ethics with Syllabus</li> <li>List of courses for Environment and Sustainability with Syllabus</li> <li>List of faculty members attending the course "Universal human values"</li> <li>1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs,</li> </ul>	
	<ul> <li>List of courses for Human Values, Gender, and Professional Ethics with Syllabus</li> <li>List of courses for Environment and Sustainability with Syllabus</li> <li>List of faculty members attending the course "Universal human values"</li> <li>1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms</li> <li>List of students and the attendance sheet for the above mentioned programs</li> <li>Programme brochure/notice for Value added programs</li> <li>Evidence of course completion</li> </ul>	Yes
	<ul> <li>List of courses for Human Values, Gender, and Professional Ethics with Syllabus</li> <li>List of courses for Environment and Sustainability with Syllabus</li> <li>List of faculty members attending the course "Universal human values"</li> <li>1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms</li> <li>List of students and the attendance sheet for the above mentioned programs</li> <li>Programme brochure/notice for Value added programs</li> <li>Evidence of course completion</li> <li>1.3.3 Does the programme have components of field projects / research projects / internships</li> </ul>	Yes
	<ul> <li>List of courses for Human Values, Gender, and Professional Ethics with Syllabus</li> <li>List of courses for Environment and Sustainability with Syllabus</li> <li>List of faculty members attending the course "Universal human values"</li> <li>1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms</li> <li>List of students and the attendance sheet for the above mentioned programs</li> <li>Programme brochure/notice for Value added programs</li> <li>Evidence of course completion</li> <li>1.3.3 Does the programme have components of field</li> </ul>	



	like Students, Teachers, Employers, Alumn Academic peers etc.,	i,
	<ul> <li>Collections of feedback forms – Students, Faculty</li> <li>Parent, Employer, Alumni, Exit Survey</li> </ul>	7,
	<ul> <li>Feedback analysis report</li> </ul>	
	Action taken report on the feedback analysis	
	<ul> <li>Circular and Action taken report for Department level Committee, Program Advisory Committee and Board of Studies Minutes</li> </ul>	
of the Party of th	Criteria 2 Teaching-learning and Evaluation	
2.1 Catering to Student	2.1.1 The department assesses the learning levels of the students and organises special Programmes to cater to differential learning needs of the student	
Diversity	> Remedial Classes Schedule	
	Class Committee Circulars and Minutes	
	> Mentor - Mentee Files	Yes
	➤ Placement Courses offered for slow learners	
	➤ Regulation R2018 - Fast track System.	
	> NPTEL Courses Registration and certificates	
	> GATE/CAT Programs	
	2.1.2 Student - Full time teacher ratio	
	Year 2022-23	o i
	No of students 431	Voc
	Number of full time teachers 21	Yes
	List showing the number of students in each of the programs	
2.2	2.2.1 Student centric methods, such as experientia	
Feaching- Learning Process	learning, participative learning and problem solving methodologies are used for enhancing learning experience and teachers use ICT- enabled tools including online resources for effective teaching and learning process	S
	<ul> <li>Experiential learning – Sample Internship letter,</li> <li>Naan Mudhalvan courses,</li> <li>Sample Industrial Project, if any</li> <li>Industrial Visit Reports</li> </ul>	Yes
	<ul> <li>Participative learning –</li> <li>Technical Seminar for M.E: Circular and other</li> <li>supporting documents</li> </ul>	r



3.1	Taken Report  Project Review Evaluation with Rubric  Exit Survey sample forms  Criteria 3 Research, Innovations and Extension  3.1.1 Amount of seed money provided by institution to its teachers for research.	
2.3 Student Performance and Learning Outcomes	The department has stated learning outcomes (programme and course outcome)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents and the attainment of the same are evaluated by the institution  > Course File for each course > Overall CO-PO & PSO Attainment with Action	Yes
	Calendar and Teaching plans by the institution  > Academic Calendar  > Teaching Plan	Yes
	<ul> <li>Mentor Student Mapping</li> <li>Sample Counselling Forms</li> <li>2.2.3 Preparation and adherence of Academic</li> </ul>	
	<ul> <li>List of Active mentors</li> <li>Mentor allocation circulars</li> </ul>	Yes
	2.2.2 The department adopts effective Mentor- Mentee Schemes to address academics and student psychological issues	
	<ul> <li>Problem solving methodologies – Sample Assignments, Tutorials, Mini Project, Project work Report</li> <li>SWAYAM/NPTEL Courses</li> </ul>	



### INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem – 636 011 (An Autonomous Institution, Affiliated to Anna University, Chennai)

Ph: 0427-2346102/57, E-mail: <u>iqac@gcesalem.edu.in</u>

	3.1.2 Teachers receiving national/ifellowship/financial support by varifor advanced studies/ research	ous agencies	
	Year	2022-23	
	Total number of teacher		
3.2 Resource Mobilization for Research	3.2.1 Total Grants research funding the institution and its faculti Government and non-government s as industry, corporate houses, i bodies for research project, endowm chairs	es through sources such international ent research	
	Year	2022-23	
	Amount (INR in Lakhs)	-	
	> List of Extramural funding received Endowment Research Chairs received	for research,	
	3.2.2 Number of research projects funded by government, non-industry, corporate houses, international statements.	government, ional bodies	No
	Year	2022-23	
	Number of research projects per teacher	-	
	3.2.3 Number of teachers recognised guides		Yes
	guides Year	2022-23	Yes
	guides		Yes
3.3 Research	Year Recognised as research guides  3.3.1 List of candidates registered teacher	2022-23 3 for Ph.D per	Yes
Research Publications	Year Recognised as research guides  3.3.1 List of candidates registered teacher  Year	2022-23 3 for Ph.D per	
Research Publications	Year Recognised as research guides  3.3.1 List of candidates registered teacher  Year Total Number of Candidate	2022-23 3 <b>for Ph.D per</b> 2022-23 5	
Research	Year Recognised as research guides  3.3.1 List of candidates registered teacher  Year Total Number of Candidate  3.3.2 List of research papers in tenotified on UGC CARE list	2022-23 3  for Ph.D per  2022-23  5  he Journals	
Research Publications	Year Recognised as research guides  3.3.1 List of candidates registered teacher  Year Total Number of Candidate  3.3.2 List of research papers in tenotified on UGC CARE list  Year	2022-23 3 for Ph.D per 2022-23 5 he Journals	Yes
Research Publications	Year Recognised as research guides  3.3.1 List of candidates registered teacher  Year Total Number of Candidate  3.3.2 List of research papers in tenotified on UGC CARE list  Year Total Number of Research paper	2022-23 3  for Ph.D per  2022-23  5  he Journals	Yes
Research Publications	Year Recognised as research guides  3.3.1 List of candidates registered teacher  Year Total Number of Candidate  3.3.2 List of research papers in tenotified on UGC CARE list  Year	2022-23 3 for Ph.D per 2022-23 5 he Journals	Yes
Research Publications	Year Recognised as research guides  3.3.1 List of candidates registered teacher  Year Total Number of Candidate  3.3.2 List of research papers in tenotified on UGC CARE list  Year Total Number of Research paper  Copies of Full paper (with	2022-23 3  for Ph.D per  2022-23 5 he Journals  2022-23 29 author and	Yes
Research Publications	Year Recognised as research guides  3.3.1 List of candidates registered teacher  Year Total Number of Candidate  3.3.2 List of research papers in tenotified on UGC CARE list  Year Total Number of Research paper  Copies of Full paper (with affiliation details)  3.3.3 Total Number of books and	2022-23 3  for Ph.D per  2022-23 5 he Journals  2022-23 29 author and	Yes



	page of the publication indicating ISBN number and year of publication for books/chapters	
3.4 Consultancy	Revenue generated from consultancy and corporate training  Year 2022-23  Amount (INR in Lakhs)	No
3.5 Collaboration	Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research	No
	Year 2022-23 Total Number of MoUs	
	<ul> <li>Copies of documents indicating the functional MoUs</li> </ul>	
	List of year wise activities with report	
4.1	Criteria 4 Infrastructure and Learning Resources  Adequate infrastructure and other facilities	
Physical	> Details of Interactive Display & Smart Board	
Facilities	<ul> <li>Details of Classrooms, Laboratory and list of equipment including lab manual, Number of Computers available, list of software used for students</li> <li>Classrooms – 6</li> <li>Laboratory-3</li> <li>Computer - 10</li> </ul>	Yes
	Criteria 5 Student Support and Progression	
5.1 Student Support	5.1.1 Efforts taken by the institution to provide career counselling including e-counselling and guidance for competitive examinations  > Details of programmes like Career guidance programme, Placement Training	Yes
	> Reports with Photograph  5.1.2 Capacity development and skills enhancement activities are organised for improving students' capability	No



# INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem - 636 011

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Ph: 0427-2346102/57, E-mail: iqac@gcesalem.edu.in

	➤ Report with Photographs on programmes conducted for awareness of trends	
5.2 Student Participation and Activities	Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution.	Yes
	<ul> <li>Technical Symposium</li> </ul>	No
	Class committee meeting	Yes
	▶ BOS minutes	Yes
	<ul> <li>BOG Sub committees circulars and Minutes (Student Representation)</li> </ul>	Yes
	Criteria 6 Governance, Leadership and Management	
	6.1.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies	No
Faculty	support to attend conferences/workshops and	No
Faculty Empowerment	support to attend conferences/workshops and towards membership fee of professional bodies	No
Faculty Empowerment	support to attend conferences/workshops and towards membership fee of professional bodies  Year 2022-23  Total Number of Teacher  6.1.2 Number of Teachers who have undergone online/ face-to-face Faculty Development Programmes (FDP)/ Management Development Programs (MDP)  Year 2022-23	No
Faculty Empowerment	support to attend conferences/workshops and towards membership fee of professional bodies  Year 2022-23  Total Number of Teacher  6.1.2 Number of Teachers who have undergone online/ face-to-face Faculty Development Programmes (FDP)/ Management Development Programs (MDP)	

#### Overall Comments if any:

- Department has well-defined curriculum framework.
- Course content can also be included when remedial class is scheduled
- Faculties are encouraged to take steps for research funding
- An initiative for generating revenue through consultancy is needed
- Steps may be taken to get MOUs with industries.



# INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem - 636 011

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Ph: 0427-2346102/57, E-mail: iqac@gcesalem.edu.in

#### **EXTERNAL AUDIT REPORT 2022-23**

15.11.2023

#### Part - 1: Preliminary Information

N	ame of the Department	:	Clubs
A	ddress of the Institute	:	GCE, Salem
D	ate and time of visit	:	15.11.2023
M	embers of the Audit Committee	:	Signature
1.	Dr.C.Dhavamani, Professor and Head, Department of Aeronautical Engineering Mahendra Engineering College, Namakkal, Tamil Nadu- 637503.		D mo mo no
2.	Dr. P. Suresh Professor & Head  Department of Mechatronics Engineering  Sona College of Tech, Salem	•	\$2000/10\$# 12/ 1/57

#### Part - 2: Academics Information

Description	[ Island or	Yes/ No
Extension Activities		Car I
Number of extension and outrest conducted by the institution	ach programs	
Year	2022-23	
Total number Program Conducted	10	Yes
➤ Geotagged Photos	ce	
	Number of extension and outres conducted by the institution  Year Total number Program Conducted  Circular copy List of Students with attendant	Number of extension and outreach programs conducted by the institution  Year 2022-23  Total number Program Conducted 10  Circular copy List of Students with attendance Geotagged Photos



### INTERNAL QUALITY ASSURANCE CELL (IQAC) Government College of Engineering, Salem – 636 011

NSS	Number of extension and outreaconducted by the institution	ach programs	Yes		
	Year	2022-23	ies		
	Total number Program Conducted	18	#		
Rotary Club	Number of extension and outrea	nch programs			
	Year	2022-23	Yes		
	Total number Program Conducted	2			
Leo Club					
Number of extension and outreach programs					
	conducted by the institution		Vos		
	conducted by the institution  Year	2022-23	Yes		
		2022-23	Yes		
Environmental Club and Green Campus	Year	7			
Club and	Year Total number Program Conducted  Number of extension and outrea conducted by the institution	7 ch programs	Yes		
Club and	Year Total number Program Conducted  Number of extension and outrea	7			
	Year Total number Program Conducted  Number of extension and outrea conducted by the institution  Year Total number Program Conducted	7 ch programs			
Club and Green Campus	Year Total number Program Conducted  Number of extension and outrea conducted by the institution  Year	7 ch programs	NO		
Club and Green Campus	Year Total number Program Conducted  Number of extension and outrea conducted by the institution  Year Total number Program Conducted  Number of extension and outrea	7 ch programs	NO		



Cross	Number of extension and outread conducted by the institution	ch programs	NO
	Year	2022-23	NO
	Total number Program Conducted	-	*
Tamil Literary Association	Number of extension and outreac conducted by the institution	ch programs	Ves
	Year	2022-23	Yes
	Total number Program Conducted	2	
Association	conducted by the institution		**
	Year Total number Program Conducted	2022-23	Yes
Students Union (Dance, Music		1	
Union (Dance, Music	Total number Program Conducted  Number of extension and outreac	1	Yes
Union	Number of extension and outreac conducted by the institution	th programs	
Union (Dance, Music and Arts Club)  Women	Number of extension and outreact conducted by the institution  Year	1 2022-23 1	
Union (Dance, Music and Arts Club)  Women Empowerment	Number of extension and outreact conducted by the institution  Year  Total number Program Conducted  Number of extension and outreact conducted	1 2022-23 1	
Union (Dance, Music and Arts Club)  Women Empowerment	Number of extension and outreact conducted by the institution  Year  Total number Program Conducted  Number of extension and outreact conducted by the institution	th programs  2022-23 1  th programs	Yes



Government College of Engineering, Salem – 636 011
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Ph: 0427-2346102/57, E-mail: iqac@gcesalem.edu.in

SCIENCE ASSOCIATION	Number of extension and outreach programs conducted by the institution		
	Year	2022-23	Yes
	Total number Program Conducted	1	
Sports Club	Number of extension and outreactonducted by the institution	ch programs	Vac
Sports Club		ch programs	Yes

Overall Comments if any: