

**GOVERNMENT COLLEGE OF ENGINEERING,
SALEM**



**STRATEGIC PLAN
2020-2025
PROGRESS REPORT**

Internal Quality Assurance Cell

Internal Quality Assurance Cell
Government College of Engineering, Salem-11



Strategic plan (2020-2025)
Progress Report

Internal Quality Assurance Cell

Strategic plan (2020-2025)

1 Among Top Five State Technical Institutions

- ✚ Enhance Academic Excellence
- ✚ Improve Infrastructure & Resources
- ✚ Enhance Institutions Reputation & Ranking

2 Multi- Dimensional Skill Delivery beyond Classroom

- ✚ To provide broad range of skills including technical, practical and soft skills
- ✚ Implement hands-on learning experiences and real-world applications

3 Major Destination for Industries to Pick Engineers

- ✚ To Strengthen MoUs with leading industries for Internship and Placements
- ✚ Enhance Employability of students

4 Entrepreneurial Culture and Startups

- ✚ To Creating Entrepreneurial mind set among students

5 Infusing Unlimited Soft Skills

- ✚ Integrate Soft Skills Training into the Curriculum
- ✚ Create a Culture of Continuous Soft Skills Development

6 Excellent Synergy with Industries

- ✚ Establish Industry collaboration for enhanced learning
- ✚ Establish Industry Collaboration for consultancy and research projects

7 Focus on Research Activities

- ✚ Establish & Promote research ethics in institution
- ✚ Enhance Research Output and Quality

8 National Level Achievements in Sports with Modern Indoor Stadium

- ✚ Develop top-tier sports facilities and programs
- ✚ Achieve national recognition in sports competitions

9 Outstanding Alumni Relationship for Institutional development

- ✚ Strengthen Relationships with Alumni
- ✚ Utilize Alumni for Mentorship, Networking, and Support

2020-2021

Among Top Five State Technical Institutions

- ✚ Started upgrading laboratories and libraries with state-of – art equipment and resources
- ✚ Started and continued encouraging the faculty members to pursue higher studies
- ✚ Begin establishing partnerships with industries for designing the Curriculum framework with industry requirements
- ✚ Enriching the curriculum with cross-cutting issues

Multi-Dimensional Skill Delivery beyond Classroom Learning

- ✚ Encourages students to utilize online resources like NPTEL courses
- ✚ Initiate integrating project-based learning courses into the curriculum
- ✚ Regularly industrial visits arranged

Major Destination for Industries to Pick Engineers

- ✚ Established MoUs with industries for industry specific training programmes
- ✚ Efforts made to improve On-Campus Recruitment Drives

Entrepreneurial Culture and Startups

- ✚ Started establishing Entrepreneurship/IPR cell
- ✚ Begin establishing partnership with local start-ups

Infusing Unlimited Soft Skills

- ✚ Started integrating courses such as induction program in first year and internship in higher semesters that could provide soft skills
- ✚ Offered core courses with outcomes having higher order thinking skills to solve complex problems
- ✚ Social extension activities were conducted through various clubs such as NCC, NSS, TLA, ELA, Standards Club,etc.

Excellent Synergy with Industries

- ✚ Updated course content in relevant to industry trends and advancements

- ✚ Industry Experts on various advisory committees involved
- ✚ Activities such as internship, training program for competitive exams including GATE/IELTS for students conducted by signed MoUs with a few companies in ECE, EEE & CSE departments
- ✚ Consultancy activities in collaboration with government departments carried out by civil department

Focus on Research Activities

- ✚ Research funding received through TEQIP
- ✚ Encouraged faculty members for research grant from Govt institutions
- ✚ Encouraged faculty members to publish papers in high impact journals
- ✚ Encourage faculty members to publish books/chapters

National Level Achievements in Sports with Modern Indoor Stadium

- ✚ Initiated establishing modern indoor stadium

Outstanding Alumni Relationship for Institutional development

- ✚ Started the process of registering Alumni Association in 2018 and continued establishing Registered Alumni Association
- ✚ Started involving Alumni in Various Academic Committee such as PAC, BoS, IQAC, Academic Council, and BOG Committee

Among Top Five State Technical Institutions

- ✚ Continue upgrading laboratories and libraries with state-of – art equipment and resources
- ✚ Continued encouraging the faculty members to pursue higher studies
- ✚ Continue establishing partnerships with industries for designing the Curriculum framework with industry requirements
- ✚ Begin establishing Centre of Excellence
- ✚ Participated in NIRF in 2024

Multi-Dimensional Skill Delivery beyond Classroom Learning

- ✚ Steps taken integrating project-based learning courses into the curriculum
- ✚ Encouraged students to utilize online resources like NPTEL courses
- ✚ Regularly industrial visits arranged

Major Destination for Industries to Pick Engineers

- ✚ Established MoUs with industries for industry specific training programmes
- ✚ Efforts made to improve On-Campus Recruitment Drives

Entrepreneurial Culture and Startups

- ✚ Workshops organized through Entrepreneurship/IPR cell
- ✚ No progress in establishing partnership with local start-ups

Infusing Unlimited Soft Skills

- ✚ Continued the courses such as induction program in first year and internship in higher semesters that could provide soft skills
- ✚ Offered core courses with outcomes having higher order thinking skills to solve complex problems
- ✚ Initiated sprint and protosem courses by integrating them into the curriculum for experiential and participative learning to promote student-centric methods

- ✚ Social extension activities were conducted through various clubs such as NCC, NSS, TLA, ELA, Standards Club, etc.

Excellent Synergy with Industries

- ✚ Activities such as internship, training program for competitive exams including GATE/IELTS for students conducted by signed MoUs with a few companies in ECE, EEE & CSE departments
- ✚ Signed MoU with M/s Forge company with funding from TANSIM and initiated industry based projects
- ✚ Consultancy activities in collaboration with government departments carried out by civil department
- ✚ Initiated to establish MoUs with top companies

Focus on Research Activities

- ✚ Encouraged faculty members for research grant from Govt institutions
- ✚ Encouraged faculty members to publish papers in high impact journals
- ✚ Encourage faculty members to publish books/chapters

National Level Achievements in Sports with Modern Indoor Stadium

- ✚ Proposal was in place in establishing modern indoor stadium

Outstanding Alumni Relationship for Institutional development

- ✚ Continued establishing Registered Alumni Association
- ✚ Organized Career Guidance Programmes through Alumni

2022-2023

Among Top Five State Technical Institutions

- ✚ Continued upgrading laboratories and libraries with state-of – art equipment and resources
- ✚ Continued encouraging the faculty members to pursue higher studies
- ✚ Continue establishing partnerships with industries for designing the Curriculum framework with industry requirements
- ✚ Proposal was sent in establishing Centre of Excellence
- ✚ Participated in NIRF in 2024

Multi-Dimensional Skill Delivery beyond Classroom Learning

- ✚ Integrated project-based learning courses into the curriculum for ECE and CSE branches
- ✚ Internship was mandated for all UG students
- ✚ Regularly industrial visits arranged

Major Destination for Industries to Pick Engineers

- ✚ Established MoUs with industries for industry specific training programmes
- ✚ Efforts made to improve On-Campus Recruitment Drives
- ✚ Integrated employability courses into the curriculum

Entrepreneurial Culture and Startups

- ✚ Workshops organized through Entrepreneurship/IPR cell
- ✚ No progress in establishing partnership with local start-ups

Infusing Unlimited Soft Skills

- ✚ Offered sprint and protosem courses by integrating them into the curriculum for experiential and participative learning to promote student-centric methods
- ✚ Social extension activities were conducted through various clubs such as NCC, NSS, TLA, ELA, Standards Club,etc.

Excellent Synergy with Industries

- ✚ Industry based projects carried out in partnership with M/s Forge
- ✚ Steps initiated for other departments to carry out consultancy activities
- ✚ Initiated to establish MoUs with top companies

Focus on Research Activities

- ✚ No progress in receiving research grant from Govt institutions
- ✚ Publications and citations increased in high impact journals
- ✚ Bibliometric of the publications: h-index is increased to 28
- ✚ Faculty members started publishing books

National Level Achievements in Sports with Modern Indoor Stadium

- ✚ Proposal Sanctioned for establishing modern indoor stadium and construction work was in progress

Outstanding Alumni Relationship for Institutional development

- ✚ Continued establishing Registered Alumni Association
- ✚ Create Alumni mentorship programs for startups
- ✚ Organized Placement related activities through Alumni

2023-2024

Among Top Five State Technical Institutions

- ✚ Still Continued upgrading laboratories with state-of – art equipment
- ✚ Library has been automated and upgraded with e-resources
- ✚ The percentage of faculty members with PhD has been achieved 61% (>70%)
- ✚ Focusing on achieving high academic standards & student performance
- ✚ Developed Smart Classrooms (>95%)
- ✚ Proposal in establishing Centre of Excellence
- ✚ Applied for NBA & NAAC accreditation
- ✚ Participated in NIRF in 2024

Multi-Dimensional Skill Delivery beyond Classroom Learning

- ✚ Extended integrated project-based learning courses into the curriculum for Civil and Mechanical branches
- ✚ Internship was mandated for all UG students

Major Destination for Industries to Pick Engineers

- ✚ Established MoUs with industries for industry specific training programmes
- ✚ Efforts made to improve On-Campus Recruitment Drives
- ✚ Increased Placement rate to 80-90%

Entrepreneurial Culture and Startups

- ✚ Workshops organized through Entrepreneurship/IPR cell
- ✚ No progress in establishing partnership with local start-ups

Infusing Unlimited Soft Skills

- ✚ Assessment of sprint and protosem courses and its impact on student outcomes
- ✚ Begin conducting assessment of Social extension activities conducted through various clubs such as NCC, NSS, TLA, ELA, Standards Club, etc.

Excellent Synergy with Industries

- ✚ Continued to increase the number of industry based projects

- ✚ No progress made in consultancy activities by other departments, however civil department carried out consultancy activities through which the revenue generated was more than 100 lakh/year

Focus on Research Activities

- ✚ One research grant with Rs.25 Lakhs received from Tamil nadu Government
- ✚ Publications and citations increased in high impact journals
- ✚ Bibliometric of the publications: h-index is increased to 28
- ✚ Increase in Number of books published by the faculty members

National Level Achievements in Sports with Modern Indoor Stadium

- ✚ Construction completed for modern indoor stadium

Outstanding Alumni Relationship for Institutional development

- ✚ Continued establishing Registered Alumni Association and

Internal Quality Assurance Cell

Strategic plan (2020-2025) - Progress Report

Strategy 01: Among Top Five State Technical Institutions						
Objective	KPI	2020-2021	2021-2022	2022-2023	2023-2024	Updated
Enhance Academic Excellence	Involving industry experts in Curriculum design committees (Yes/No)	Yes/21	21	21	21	Every year
	Number of new courses introduced in the curriculum (>20% for 5 years)	-	-	23.51	-	Every year
	Number of Faculties with PhD (>=70%)	49	54	62	62	Every year
	Increase in pass percentage of outgoing students (>90%) and increase in percentage of higher grades (>8.5 CGPA)	93.81	93.56	97.92	--	Every year
	Percentage of students placed/progressed to higher education (>95%)	60.40	63.40	92.09	84.5	Every year
Improve Infrastructure & Resources	Percentage of expenditure for infrastructure augmentation (>50% for 5 years)	150 Lakhs	72 Lakhs	101 Lakhs	64.48 Lakhs	Every year
	Percentage of expenditure for the purchase of books/subscription to journals (>10% for 5 years)	5.64 Lakhs	8.86 Lakhs	11.23 Lakhs	9.40 lakhs	Every year
	Number of Centre of Excellence (1 in 2 years)	-	-	-	-	Every year
	Percentage of Smart Classrooms (100%)	73%	89%	89%	95%	Every year
Enhance Institutions Reputation & Ranking	Grade in NAAC accreditation (A++ by 2024)	B+	B+	B+	--	Every year
	Ranking in NIRF(within 100)	Participated	Participated	Participated	Participated	Every year

Strategy 02: Multi- Dimensional Skill Delivery beyond Classroom Learning

Objective	KPI	2020-2021	2021-2022	2022-2023	2023-2024	Updated
To provide broad range of skills including technical, practical and soft skills	Number of online/NPTEL/SWAYAM courses attended by students (10 /Year)	19	13	57	42	Every year
	Percentage of students qualified for national/international level exams (> 2%/year)	2	4	13	Nil	Every year
	Number of lectures given by international alumni experts (6/ years)	3	1	2	Nil	Every year
Implement hands-on learning experiences and real-world applications	Percentage of students completing internships before graduation (100%)	100%	100%	100%	100%	Every year
	Number of students participating in live/industry projects (>20% of students /Year /dept)	8	24	174	280	Every year
	Number of industrial Visits (6/Year/Dept)	-	-	5		Every year

Strategy 03: Major Destination for Industries to Pick Engineers

Objective	KPI	2020-2021	2021-2022	2022-2023	2023-2024	Updated
Strengthen MoUs with leading industries for Internship and Placements	Number of MoUs with Industries (1/Year/dept)	5	9	6		Every year
	Number of On-Campus Recruiters	26	71	52	49	Every year
Enhance Employability of students	Number of Employability Enhancement Courses integrated into the curriculum	194	194	226	226	Every year

Strategy 04: Entrepreneurial Culture and Startups

Objective	KPI	2020-2021	2021-2022	2022-2023	2023-2024	Updated
Creating Entrepreneurial mindset among students	Number of Entrepreneurship courses offered in the curriculum	56	56	67	67	Every year
	Number of programmes on entrepreneurship conducted	4	7	6	Nil	Every year

Strategy 05: Infusing Unlimited Soft Skills

Objective	KPI	2020-2021	2021-2022	2022-2023	2023-2024	Updated
Integrate Soft Skills Training into the Curriculum	Percentage of skill development courses introduced during curriculum revision	90	90	90.1	Nil	Every year
	Number of Courses relevant to Ethics and Management	113	113	113	113	Every year
Create a Culture of Continuous Soft Skills Development	Number of career development and guidance for competitive exam programmes (2 /dept/year)	6	7	7	7	Every year
	Number of programmes organized for extracurricular activities	3	3	5	5	Every year
	Number of extension and outreach activities organized (15/Year)	6	16	44	16	Every year

Strategy 06: Excellent Synergy with Industries

Objective	KPI	2020-2021	2021-2022	2022-2023	2023-2024	Updated
Establish Industry collaboration for enhanced learning	Frequency of curriculum updates based on recommendations from industry experts (3-4 years)	Nil	1	1	Nil	Every year
Establish Industry Collaboration for consultancy & research Project	Number of Consultancy activities carried out every year	3	12	20		Every year
	Revenue Generated through consultancy every year (35 Lakh/year)	132 Lakhs	103 Lakhs	90 Lakhs		Every year
	Number of collaborative research projects	-	-	-	-	Every year

Strategy 07: Focus on Research Activities

Objective	KPI	2020-2021	2021-2022	2022-2023	2023-2024	Updated
Establish & Promote research ethics in institution	Number of Publications in Scopus/Web of Science indexed Journals (>125/year)	135	89	170	118+	Every year
	H-index of the institution (>20)			18	18	Every year
Enhance Research Output and Quality	Number of research projects funded by government, non-government, industry and international bodies	-	-	-	-	Every year
	Amount invested in research facilities annually	9.8 Lakhs	-	50 Lakhs	Nil	Every year

Strategy 08: National Level Achievements in Sports with Modern Indoor Stadium

Objective	KPI	2020-2021	2021-2022	2022-2023	2023-2024	Updated
Develop top-tier sports facilities and programs	Students' usage rate in modern indoor stadium	Proposal submitted	Proposal submitted	Construction Work started	Construction Completed	Every year
	Number of sports programmes organized by the institution	-	1	1	2	Every year
Achieve national recognition in sports competitions	Number of awards/medals/outstanding performance in national/international level and recognitions (10/year)	-	5	14		Every year

Strategy 09: Outstanding Alumni Relationship for Institutional development

Objective	KPI	2020-2021	2021-2022	2022-2023	2023-2024	Updated
Strengthen Relationships with Alumni	Organize Alumni Meet Annually	1	1	1	1	Every year
	Number of invited talks by Notable Alumni (6/year/dept)	3	1	10	10	Every year
Utilize Alumni for Mentorship, Networking, and Support	Number of alumni participations in PAC, BoS, IQAC, Academic Council and BOG Committee (Yes/No)	Yes/ 14	Yes/ 14	Yes/ 14	Yes/ 14	Every year
	Alumni contribution for welfare students (Rs.4.00 Lakh/year)			37.56 lakhs	8.39 lakhs	Every year

Internal Quality Assurance Cell

