

# **SRI RAMAKRISHNA ENGINEERING COLLEGE**

[Educational Service : SNR Sons Charitable Trust]  
[Autonomous Institution, Accredited by NAAC with 'A' Grade]  
[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]  
[ISO 9001:2015 Certified and all eligible Programmes Accredited by NBA]  
VATTAMALAIPALAYAM, N.G.G.O. COLONY POST, COIMBATORE - 641 022.

**INTERNAL QUALITY ASSURANCE CELL(IQAC)**



## **Action Taken Report**

**(2019-2020)**







# SRI RAMAKRISHNA ENGINEERING COLLEGE

[Educational Service: SNR Sons Charitable Trust]

[Autonomous Institution, Accredited by NAAC with 'A' Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001-2015 Certified and all eligible programmes Accredited by NBA]

VATTAMALAIPALAYAM, N.G.G.O. COLONY POST, COIMBATORE - 641 022.

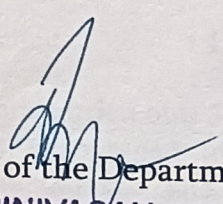


## INTERNAL QUALITY ASSURANCE CELL

### AAA- Action taken report -2019-2020

#### Department of Electronics and Instrumentation Engineering

S.NO	COMMENTS RECEIVED	ACTION TAKEN WITH DETAILS
1.	Quality Publications to be improved.	Faculty members has published good number of publications. 19 papers has indexed in scopus and web of science. Total number of publication in 2020-21 :24
2.	Research funding from government agencies has to be improved.	<ul style="list-style-type: none"><li>Received fund from US-INDIA PARTNERSHIP 2020 : ALAMO Colleges District of \$6230</li><li>Received Rs. 93,000 from AICTE-ATAL for conduction of Faculty development Programme</li><li>Received from SREC - SEED project fund of Rs. 1,00,000</li><li>Faculty members have applied funding proposal of about Rs. 5 Lakhs in various government agencies in 2020-2021</li></ul>

  
Head of the Department  
Dr. K. SRINIVASAN, M.E., Ph.D.,  
Professor & Head  
Dept. of Electronics & Instrumentation Engg.,  
Sri Ramakrishna Engineering College,  
COIMBATORE - 641 022.





# SRI RAMAKRISHNA ENGINEERING COLLEGE

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Accredited by NAAC with 'A' Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001-2015 Certified and all eligible programmes Accredited by NBA]

VATTAMALAIPALAYAM, N.G.G.O. COLONY POST, COIMBATORE - 641 022.



**INTERNAL QUALITY ASSURANCE CELL**

Date: 25.10.2021

## AAA- Action Taken Report (2019-2020)

### Department of Electrical and Electronics Engineering

S.No.	COMMENTS RECEIVED	ACTION TAKEN WITH DETAILS
1.	Faculty participation in FDPs/Seminars/workshops is much appreciated.	Faculty members are always encouraged to participate in FDPs/Seminars/workshops organized by NITs and IITs regularly. The <b>participation Details</b> of faculty members for the Academic year <b>2020-2021</b> are as follows, Total No. of FDPs attended : <b>341</b> Total No. of Seminars attended : <b>110</b> Total No. of workshops attended : <b>35</b>
2.	Online Certifications obtained by Faculty members & Students are remarkable.	Faculty and Student members are highly motivated to obtain Online Certification and avail course waiver in their regular curriculum as per the regulations. The <b>Online Certification Details</b> of faculty and student members for the Academic year <b>2020-2021</b> are as follows, Total no. of NPTEL Certifications by Faculty : <b>16</b> Total no. of other Certifications by Faculty : <b>64</b> Total no. of NPTEL Certifications by Students : <b>22</b> Total no. of Other Certifications by Students : <b>103</b>
3.	Department should work closely towards research funding from Government and other agencies.	The faculty members are instructed to submit proposals to various funding agencies regularly and motivated to obtain funding for their research proposals. <b>Academic Year 2020-2021</b> Total no. of proposals submitted : <b>11</b> Total no. of funds received : <b>3</b> Total no. of Consultancy work carried out: <b>3</b>
4.	Faculty should be motivated for quality publications.	The Faculty members are encouraged to publish research articles in Scopus indexed and Web of Science indexed research journals with good impact factor. <b>Academic Year 2020-2021</b> Total No. of Scopus indexed Journal Publications : <b>27</b> Total No. of Web of Science Research Publications : <b>3</b> Total No. of other Research Publications : <b>51</b>

Dr.C.Kathirve  
HoD/EEE

25/10/2021





# SRI RAMAKRISHNA ENGINEERING COLLEGE

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Accredited by NAAC with 'A' Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001-2015 Certified and all eligible programmes Accredited by NBA]

VATTAMALAIPALAYAM, N.G.G.O. COLONY POST, COIMBATORE - 641 022.

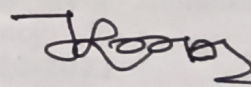


## INTERNAL QUALITY ASSURANCE CELL

### AAA- Action taken report -2019-2020

#### Department of Mechanical Engineering

S.NO	COMMENTS RECEIVED	ACTION TAKEN WITH DETAILS
1.	Interaction with outside world could be improved.	Significant improvement is noticed in the interaction with outside world.
2.	Participation of faculty members in FDPs/workshops to be improved.	There is a continual improvement in the participation of FDP/STC and Workshops from 54 nos to 71 nos
3.	Students could be motivated to take part in Hackathons.	Students are motivated and two batches have won national award worth Rs.5,70,000.

  
26/10

Head of the department

**Dr. P. Karuppuswamy Ph.D**  
Professor & Head

Department of Mechanical Engineering  
Sri Ramakrishna Engineering College  
Coimbatore - 641 022





# SRI RAMAKRISHNA ENGINEERING COLLEGE

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Accredited by NAAC with 'A' Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001-2015 Certified and all eligible programmes Accredited by NBA]

VATTAMALAIPALAYAM, N.G.G.O. COLONY POST, COIMBATORE - 641 022.



## INTERNAL QUALITY ASSURANCE CELL

### AAA- Action taken report -2019-2020 Department of Information Technology

S.NO	COMMENTS RECEIVED	ACTION TAKEN WITH DETAILS
1	Industrial Consultancy activities to be improved	<p>During the academic year the following consultancy projects have undergone under IAMPL(Rolls-Royce) and Cameron</p> <p>Academic Year: 2021-2022</p> <ul style="list-style-type: none"><li>• Cameron Manufacturing India Private Limited</li></ul> <p>Academic Year: 2020-2021</p> <ul style="list-style-type: none"><li>• International Aerospace Manufacturing Private Limited, Bengaluru (A Joint Venture of Rolls-Royce &amp; Hindustan Aeronautics Limited)</li></ul>
2	Research funding to be obtained	<p>During the academic year the following industry research projects have undergone under GE Healthcare and Honeywell</p> <p>Academic Year: 2020-2021</p> <ul style="list-style-type: none"><li>• Context Based Searching in Pilot Manual</li><li>• Telemedicine</li><li>• Sentiment Analysis</li><li>• Face Mask Detection and Removal</li></ul> <p>Research Proposals were submitted under various funding agency</p> <p>Academic Year 2020-2021</p> <ul style="list-style-type: none"><li>• Proposal submitted under Sathyabama portal-Ministry of Mines</li><li>• Proposal submitted under DBT</li><li>• Proposal submitted under DST-NGP</li></ul>
3	Ph.D holders to obtain supervisor status.	<ul style="list-style-type: none"><li>• Research publication during the academic year 2020-2021: 29</li><li>• Dr.N.Suresh Kumar has applied for supervisor recognition</li></ul>
4	Faculty publications and its Consistency are much appreciated.	-

*M. Senthamil Selvi*  
Head of the department

(Dr.M.Senthamil Selvi)

Dr. M. SENTHAMIL SELVI  
Professor and Head  
Dept. of Information Technology  
Sri Ramakrishna Engg. College  
Vattamalaipalayam, Coimbatore - 22





# SRI RAMAKRISHNA ENGINEERING COLLEGE

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Accredited by NAAC with 'A' Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001:2015 Certified and all eligible programmes Accredited by NBA]

VATTAMALAIPALAYAM, N.G.G.O. COLONY POST, COIMBATORE - 641 022.



## INTERNAL QUALITY ASSURANCE CELL

### AAA- Action taken report -2019-2020

#### Department of Computer Science and Engineering

S.NO	COMMENTS RECEIVED	ACTION TAKEN WITH DETAILS
1.	To enhance Alumni network and make use of the same.	<ul style="list-style-type: none"><li>• Conduction of "Webinar Talk Series" from 06.06.2020 to till date has enhanced our Alumni network.</li><li>• Conducted Hands-on workshop on "REACT JS" from 08.08.2020 to 09.08.2020 through 2018 alumnus Mr. Aravind Manoharan and Mr. Arun Kumar, ACKO, Bangalore.</li></ul>
2.	To improve international Collaborations.	<ul style="list-style-type: none"><li>• Initiated the International Collaboration with Ariel University, Israel.</li><li>• Two faculty members from CSE department will be taking up the training on "Cyber Range".</li></ul>
3.	Faculty members to be motivated to apply for funded projects.	<p>Faculty members are motivated to apply for the funded projects under different schemes.</p> <ul style="list-style-type: none"><li>• Received Rs.7,500 from Tamil Nadu State Council for Science and Technology (TNSCT) - Student Project Scheme on 04.08.2020.</li></ul>
4.	Collaborative publications are to be encouraged.	<ul style="list-style-type: none"><li>• Initiated the collaborative publications with Wipro - GE Healthcare Technologies, Bangalore for the ongoing consultancy projects.</li></ul>

Head of the department

**Dr. A. GRACE SELVARANI,**  
Professor & Head,  
Dept. of Computer Science & Engg.  
Sri Ramakrishna Engg. College,  
Vattamalaipalayam,  
Coimbatore- 641 022.





# SRI RAMAKRISHNA ENGINEERING COLLEGE

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Accredited by NAAC with 'A' Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001-2015 Certified and all eligible programmes Accredited by NBA]

VATTAMALAIPALAYAM, N.G.G.O. COLONY POST, COIMBATORE - 641 022.



## INTERNAL QUALITY ASSURANCE CELL

### AAA- Action taken report -2019-2020

#### Department of Electronics and Communication Engineering

S.NO	COMMENTS RECEIVED	ACTION TAKEN WITH DETAILS
1.	Consultancy activities are to be enhanced	Motivated Faculty Members to get involved in Consultancy Activities.
2.	IPR activities to be encouraged.	Initiatives were taken by Faculty Members and in turn patent(s) got published and few patents granted.
3.	Interaction with outside world to be improved.	Encouraged Faculty Members to participate as Resource Persons in SDP/Seminar/Workshop/STTP/ Training program
4.	Students to be encouraged to take part in the Hackathons & similar other events	Students have been motivated to take part in co-curricular and extracurricular activities as a result many students participated in both National and International Level events like hackathons, project contests and won Prizes and Recognitions

Head of the department

Dr. M. JAGADEESWARI, M.E., Ph.D.,  
Professor & Head

Department of Electronics & Communication Engineering  
Sri Ramakrishna Engineering College  
Coimbatore - 641 022.





# SRI RAMAKRISHNA ENGINEERING COLLEGE

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Accredited by NAAC with 'A' Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001-2015 Certified and all eligible programmes Accredited by NBA]

VATTAMALAIPALAYAM, N.G.G.O. COLONY POST, COIMBATORE - 641 022.



## INTERNAL QUALITY ASSURANCE CELL

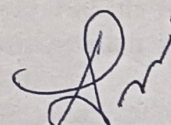
### AAA- Action taken report -2019-2020

#### Department of Nanoscience and Technology

S.NO	COMMENTS RECEIVED	ACTION TAKEN WITH DETAILS
1	Admissions to be improved.	The Department is hosting various events like webinars, certification courses, internships, idea technology contest, etc. to highlight the uniqueness, faculty competence and state-of-the-art facilities of the department. Interactions with UG departments were done through final year project students and the respective mentors. It has been planned to interact with final year UG students, those who have interests in higher education, transdisciplinary research and development.
2	MoUs with relevant industries to be increased.	COIN was approached for initiating industry related funding and MoUs. We are aiming for potential industrial collaborations for the research projects. This will lead to strong industry-academia linkages and MoUs. For eg., heat transfer and industrial heat exchanger related research will be performed through industrial collaborations.
3	Collaborative research to be enhanced.	Interdepartmental project proposal submissions were initiated with Physics, BME, Civil, EIE, ECE, EEE, Aero and IT departments. Faculty members have submitted various competitive project proposals (nano, interdisciplinary and transdisciplinary research areas) to different funding agencies such as DST, CSIR, UGC, Ministry of mines, SERB etc. In future, a greater number of project



		proposals will be submitted in the cutting-edge research areas. This shall be through interdepartmental collaborations (SREC) as well as collaborations with institutes of national importance such as IITM, Anna University – Trichy campus, MGU – Kerala, CSIR-CECRI – Karaikkudi, Bharathiar University – Coimbatore, TNAU – Coimbatore, IGCAR Kalpakkam, GRI Dindigul, University of Madras. On the other hand, research scholars and supervisors of the department are motivated to apply for prestigious government fellowships, funding and industrial stipends. The faculty members shall mentor the other department scholars as well as supervisors for the collective research growth of our institution.
4	Consultancy activities to be improved.	The faculty team is working in the niche research areas (which are associated with real-time problems and relevant to industries) such as nanomaterials and bionanoparticles, materials chemistry, advanced chemical sensors, mathematical modelling of industrial systems, nanocomposites, porous nanostructures, functionalized graphene nanostructures, environmental regeneration strategies, structural engineering etc. Testing tools and instruments were recalibrated and requisition for industry projects were initiated through COIN. Phase II of Cameron-Schlumberger, USA project will be initiated through proper channel during the forthcoming academic years.



Dr. Moorthi Pichumani  
Associate Professor and Head of the Department (i/c)  
Department of Nanoscience and Technology

**Dr. MOORTHY PICHUMANI**  
Associate Professor and Head of the Department (i/c)  
Department of Nanotechnology  
Sri Ramakrishna Engineering College  
Coimbatore - 641022 INDIA





# SRI RAMAKRISHNA ENGINEERING COLLEGE

[Educational Service ; SNR Sons Charitable Trust]

[Autonomous Institution, Accredited by NAAC with 'A' Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001-2015 Certified and all eligible programmes Accredited by NBA]

VATTAMALAIPALAYAM, N.G.G.O. COLONY POST, COIMBATORE – 641 022.



## INTERNAL QUALITY ASSURANCE CELL

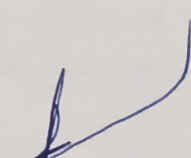
### AAA- Action taken report -2019-2020

#### Department of Civil Engineering

S.No	COMMENTS RECEIVED	ACTION TAKEN WITH DETAILS
1.	More focus towards research & development activities is expected.	Faculties are encouraged to do research and apply for research proposals. <ul style="list-style-type: none"><li>➤ Four faculties have newly registered for Ph.D under Anna University, Chennai.</li><li>➤ Three Research project proposals (Total amount of Rs.70,00,000/-) were submitted to DST, SERB and TNSCST for funding</li><li>➤ Industry Collaborative Research with M/s. Craftsman Automation Ltd, Coimbatore is ongoing.</li><li>➤ Papers published in International Conferences (2020-21) – 6</li><li>➤ Papers published in Scopus/Web of Science indexed journals (2020-21) - 10</li></ul>
2.	Industry collaboration & immersion to be improved.	<ul style="list-style-type: none"><li>➤ Industry Collaborative Research with M/s. Craftsman Automation Ltd, Coimbatore is under process.</li><li>➤ Industry Collaborative Students Research with M/s.Falcon Engineers Ltd, Sivakasi has been initiated.</li><li>➤ Industry Collaboration and MoU is planned with COCENA and One source-academy of excellence, Bangalore.</li></ul>
3.	The student's progression to be taken care of.	Students were encouraged to participate in Hackathons and Innovation contests. Final year students were encouraged for higher studies and active participation in placement drives (both campus and off campus). <ul style="list-style-type: none"><li>➤ During the academic year 2020-21, five batches participated in AICTE-ISRO-IITB MAPATHON (National level Hackathon) and became winners and notable participants.</li><li>➤ 4 students won first and second prizes in Poster Presentation conducted by Chaitanya Bharathi Institute of Technology, Hyderabad.</li><li>➤ 2 students won Second prize with Cash prize of Rs.10,000/- in International search for Budding Mind in INWIS for bids at KCT.</li></ul>



		<ul style="list-style-type: none"> <li>➤ 4 students participated in 'SSN Institution of Civil Engineers Innovation Challenge-2021 and won cash award.</li> <li>➤ Papers published by students in National Conferences (2020-21) – 3</li> <li>➤ Papers published by students in Scopus/Web of Science indexed journals (2020-21) - 2</li> <li>➤ Mr.Sajin Thomas (1809060) was selected to act as the Parade Commander representing Tamilnadu, Puducherry and Andaman and Nicobar during the Republic Day Parade 2021 in New Delhi.</li> <li>➤ Two projects received funding under TNSCST students project scheme</li> </ul>
4.	To encourage faculty members to attend FDPs/Seminars & to obtain online certifications.	<p>Faculties are instructed to attend FDP's and encouraged to complete many online courses through Coursera, Edx, Nptel certifications etc.,</p> <ul style="list-style-type: none"> <li>➤ Total number of FDP's attended by the faculty members in (2020-21) -148</li> <li>➤ Total number of Online certifications by the faculty in (2020-21) - 66</li> </ul>
5.	Consultancy to be enhanced.	<p>Consultancy Brochure has been prepared and sent for wide circulation among industries and relevant interested parties.</p> <ul style="list-style-type: none"> <li>➤ Consultancy work of Water Audits were conducted in Erode, Karur, Tiruppur, Mettupalayam Railway Stations amounting to Rs.2,15,000 /-</li> <li>➤ Consultancy work of Mix Design was carried out for M/s.Thamirabarani Constructions for an amount of Rs.50,740 /-</li> <li>➤ Green Audit was conducted for Sri Ramakrishna Dental College and Hospital for an amount of Rs.50,000 /-</li> </ul>

  
Head of the department

**Dr.E.SAROJINI, M.E., Ph.D., MISTE**  
PROFESSOR AND HEAD  
Department of Civil Engineering  
Sri Ramakrishna Engineering College,  
Coimbatore - 641 022.





# SRI RAMAKRISHNA ENGINEERING COLLEGE

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Accredited by NAAC with 'A' Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001-2015 Certified and all eligible programmes Accredited by NBA]

VATTAMALAIPALAYAM, N.G.G.O. COLONY POST, COIMBATORE – 641 022.



## INTERNAL QUALITY ASSURANCE CELL

### AAA- Action taken report -2019-2020

#### Department of Management Studies

S.NO	COMMENTS RECEIVED	ACTION TAKEN WITH DETAILS
1	Industry interactions are much appreciated	Thank you for the appreciation. Efforts will be taken to continue with the industry interactions.
2	International collaborations to be improved.	Discussions are in progress with Asia Pacific University, Malaysia and University of Cyberjaya, Malaysia for Collaborations.
3	Quality Publications to be improved.	Faculty were motivated to publish in Scopus and WoS Journals by conducting a hands-on workshop "Guidelines for Choice on Management Journal for Publications" on July 28, 2021.
4	Corporate training to be enhanced.	A Management Development Program on "Professional Grooming of Nurses" for 25 Hrs has been approved by Sri Ramakrishna Hospitals, Coimbatore.

Head of the Department

Dr. R. MARY METILDA, B.E., MBA, M.Phil, Ph.D  
Professor & Head,  
Department of Management Studies  
SRI RAMAKRISHNA ENGINEERING COLLEGE  
Coimbatore – 641 022.





# SRI RAMAKRISHNA ENGINEERING COLLEGE

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Accredited by NAAC with 'A' Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001-2015 Certified and all eligible programmes Accredited by NBA]

VATTAMALAIPALAYAM, N.G.G.O. COLONY POST, COIMBATORE - 641 022.



## INTERNAL QUALITY ASSURANCE CELL

25.10.2021

### AAA- Action taken report -2019-2020

#### Department of Aeronautical Engineering

S.No	COMMENTS RECEIVED	ACTION TAKEN WITH DETAILS
1	Faculty members to be made aware of the various components of NBA.	Department NBA incharge has been advised to conduct a peer enablement programme on various components of NBA
2	Targets of CO/PO and their attainments are to be properly monitored.	The CO/PO attainments calculation for 2015-2019 has been completed and for the batch 2016-2020 is in progress.
3	Quality Publications to be improved.	Faculty members are advised to publish in reputed journals. Total publications during 2020-2021 is Scopus-4 WoS-1
4	Research funding from government agencies has to be improved.	Faculty members are advised to apply for Seminar Grants, Workshop, Symposia, Conferences and research proposals to all research funding agencies.
5.	Consultancy activities could be improved.	Faculties are advised to improve Industry Institute Interaction. The department has initiated talks with 1. Air Works, Hosur. 2. Tamil Nadu Energy Solutions. 3. Wethe5pilots

Head of the department  
Professor & Head

Department of Aeronautical Engineering  
SRI RAMAKRISHNA ENGINEERING COLLEGE  
Coimbatore - 641 022.





# SRI RAMAKRISHNA ENGINEERING COLLEGE

[Educational Service : SNR Sons Charitable Trust]

[Autonomous Institution, Accredited by NAAC with 'A' Grade]

[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001-2015 Certified and all eligible programmes Accredited by NBA]

VATTAMALAIPALAYAM, N.G.G.O. COLONY POST, COIMBATORE - 641 022.

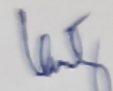


## INTERNAL QUALITY ASSURANCE CELL

### AAA- Action taken report -2019-2020

Department of BIOMEDICAL ENGINEERING

S.NO	COMMENTS RECEIVED	ACTION TAKEN WITH DETAILS
1	To enhance collaboration with reputed hospitals	Interaction with Sri Ramakrishna Hospital doctors, research coordinators are ongoing. Several student groups have pursued projects suggested by the doctors. Biomedical equipment facility at the Hospital are used to provide teach students on working, operation, maintenance aspects at the facility.
2	To conduct various events for the benefit of faculty members and students	Several activities such as guest lectures, workshops, community interactions and extension activities have been undertaken
3	Faculty immersion to be encouraged	It is not clear what is meant by this comment. Faculty members organize many socially relevant events; interact with multiple professionals like doctors, industry professionals, physiotherapists; identify experts and encourage them to interact with students; participate in outreach programs.
4	Placements to be improved	Several programs oriented to industry readiness of the students and the professional requirements of biomedical engineer have been organized such as with entrepreneurs involved in biomedical support services, equipment training, regulatory awareness. As a consequence, placement in core industries have increased in the current cycle.

  
HoD - BME

Professor V. Ramamurthy,  
Head, Dept of Biomedical Engineering,  
Sri Ramakrishna Engineering College,  
Coimbatore - 641 022.