



**RAJALAKSHMI
ENGINEERING COLLEGE**
An AUTONOMOUS Institution
Affiliated to ANNA UNIVERSITY, Chennai



Dr.S.N.Murugesan, M.E., Ph.D.
Principal

1st November, 2022

To
The Members of Governing Body
Rajalakshmi Engineering College, Chennai

Dear Sir / Madam,

We are submitting herewith the Final version of the Minutes of the 10th Governing Body meeting held on 23.09.2022, after incorporating the suggestions of all the members, for your kind approval and signature.

Thanking you with kind regards,

Yours sincerely,

S.N. Murugesan
PRINCIPAL 1/11/22

Dr.S.N. MURUGESAN, M.E., Ph.D.
Principal
Rajalakshmi Engineering College
Thandalam, Chennai - 602 105.



RAJALAKSHMI ENGINEERING COLLEGE, THANDALAM, CHENNAI

(An Autonomous institution)

Affiliated to Anna University, Approved by AICTE

Minutes of the 10th Meeting of the Governing Body held on 23-09-2022
at Board Room, REC

AGENDA

GB10.01	Action taken report on the Ninth meeting of the Governing Body held on 16-03-2022
GB10.02	Seeking Governing Body's approval for the following: From the academic year 2022-2023 onwards Starting the one new UG program B.Tech. – Artificial Intelligence and Data Science with 60 Seats Increase in Intake 1. B.Tech.– Computer Science and Business System from 60 to 120 2. B.Tech.– Artificial Intelligence and Machine Learning from 120 to 180 3. B.Tech. – Information Technology from 120 to 180 Reduction in Intake B.E. – Mechanical Engineering from 180 to 120 Honours and Minor degree programs Also for the proposal for offering Honours and Minor degree programs from the academic year 2023-2024, for the students joined in the academic year 2021-2022 when they are commencing 5 th Semester of studies.
GB10.03	Reporting the proceedings of the 13 th & 14 th Academic Council meetings held on 30.04.2022 & 01.07.2022 (by circulation) respectively.
GB10.04	Seeking council's approval for award of Ranks for the UG & PG batches passing out under the Autonomous programme and also newly instituted students' Awards.
GB10.05	Reporting the accomplishments of the students, faculty and institution, funded projects, consultancy activities and patents.
GB10.06	Reporting the policies of the college, updated and newly introduced, for various areas of functions, for the approval of the Governing Body.
GB10.07	Reporting the activities of the Internal Quality Assurance Cell
GB10.08	Reporting recent NBA accreditation results and planning and preparation for the forthcoming visit of the NAAC

S.L. Sampath

The following members attended the meeting:

S.No.	Name	Category
1	Dr. (Mrs.) Thangam Meganathan, M.A., M.Phil., Ph.D.	Member
2	Mr. K. Jayaramakrishnan, Former Vice-President, Tata Consultancy Services	Member - Trust Nominee
3	Dr. C.R. Muthukrishnan Advisor, Rajalakshmi Institutions, Former Deputy Director, IIT-M & Consulting Advisor, TCS	Academician –Trust Nominee
4	Prof. R. Govindarajan, Department of Computer Science and Automation and Supercomputer Education and Research Center Indian Institute of Science, Bangalore	UGC Nominee
5	Dr. T.V. Gopal Coordinator, Centre for Applied Research in Indic Technologies (CARIT) & Professor, Department of Computer Science and Engineering Anna University, Chennai - 600 025	Anna University Nominee
6	Mr. R. Vijayakumar Manager, Rajalakshmi Automobiles Pvt. Ltd.,	Industrialist – Trust nominee
7	Dr. M. Subbiah, Professor Emeritus, Department of Electrical & Electronics Engineering	Faculty Member of the College
8	Dr. T. Thamizhselvan Associate Professor, Department of Electrical & Electronics Engineering	Faculty Member of the College
9	Dr. S.N. Murugesan, M.E., Ph. D, Principal	Member Secretary / Ex- Officio

S. V. Murugesan

The following members requested leave of absence to attend the meeting:

S.No.	Name of the Member	Category
1	Thiru. S. Meganathan, B.E., F.I.E.	Chairman
2	Thiru. M. Abhay Shankar, B.E., M.S.	Member
3	Dr. M. Haree Shankar, M.B.B.S., M.D.	Member

Dr. Mrs. Thangam Meganathan chaired the meeting.

In introductory remarks, Chairperson expressed that two batches of UG and four batches PG students have passed out so far in the autonomous programme of REC, started in the academic year 2017-18. She also mentioned that the infrastructural facilities have been substantially improved in the institution and there is a proposal to seek University status for the institution in the near future.

The Principal then gave a detailed power point presentation on the various agenda points.

GB10.01 Action taken report on the Ninth meeting of the Governing Body held on 16-03-2022

The Principal informed the members of the Governing Body that the following steps have been taken as per the approval given in the 9th meeting of the Governing Body:

In the last meeting, Dr. Gopal suggested that a check is to be made whether the variation in the total number of credits for the UG programmes reflects in the computation of the CGPA and hence the rank order of students (considering all the programmes) be listed and placed on record for the next meeting.

In reply to this, in the present meeting, Principal presented a table listing the Top 50 students, considering all the 12 disciplines of the 2017-2021 and 2018-2022 batches of students (i.e., the first two batches of UG programmes), based on CGPA secured by them, at the end of the 8th semester. This shows that ranks are spread over many disciplines, irrespective of small variation in their total credits.

Dr. Gopal was of the view that an analysis of the data presented shows that students belonging to programmes, with lesser total credits seem to have an advantage in terms of securing higher CGPA.

S. N. Mungam

Two observations by Dr. T V Gopal are as follows:

- i. 180 and above credits for different programmes are on the higher side.
- ii. The variation of 5 credits ranging from 180 – 185 results in a disadvantage due to non-uniformity, on account of the effort on the part of students, as some students of programs with less total credit requirement would have higher CGPA compared to students of programs with higher total credit requirement.

Principal noted that the range of total credit requirement has been reduced from 180 - 185 in Regulation R17 to 160 – 165 in the Regulation 2019 (adopting the AICTE recommendations and on the lines of the Anna University 2017 curriculum) currently in force. As the total credit requirement has been brought from 180 to 160, the average credit per semester, typically, is only 20, with contact hours per week for the students being within 25. Thus providing more time for co-curricular and extra-curricular activities.

Moreover, in the ensuing 2023 regulation, having a uniform or possibly with a small variation in the total number of credits for various programs will be considered.

However, Principal highlighted that for any purpose, the rank list alone (prepared based on CGPA across different programmes) is not used. Even for the placement, the CGPA is only an initial filter and many more skills are expected by the companies offering placement. Advisor mentioned that in the selection of Best Outgoing student also, there are other parameters apart from CGPA. Further, Principal added that there is no restriction for the students to carryout inter-disciplinary projects and there is also set of open electives which can be chosen by students of all programmes.

GB10.02 Presenting the new programmes and the proposed change in the intake in 4 UG programmes for the overview of the Governing Body

From the academic year 2022-2023 onwards

Starting the one new UG program

B.Tech. – Artificial Intelligence and Data Science with 60 Seats

Increase in Intake

1. B.Tech.– Computer Science and Business System from 60 to 120
2. B.Tech.– Artificial Intelligence and Machine Learning from 120 to 180
3. B.Tech. – Information Technology from 120 to 180

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Reduction in Intake

B.E. – Mechanical Engineering from 180 to 120

Honours and Minor degree programs

Offering Honours and Minor degree programs from the academic year 2023-2024, for the students joined in the academic year 2021-2022, when they are commencing 5th Semester of studies.

Principal explained the reasons for these initiatives.

He said that the new programmes, in which the increase in intake is proposed, are framed with courses in the emerging fields, preferred by a large number of students.

Regarding Minor degree programmes, students in core branches would also be interested to take courses in these areas. The core industries are going in for industry 4.0 advancements in their respective field of operation and so they require students with specialisation in the areas mentioned in the Table for minor degrees:

Minor degree Courses	Internet of Things (IoT)	Data Science	Block Chain and Cyber security	AR and VR	Electrical Vehicle	Robotics
DEPT.	ECE	IT	CSE	CSE	EEE/Auto	MCT/RA
Eligible departments	All branches except ECE	All branches except CSE,CSD,C SBS,AI ML, AIDS,CSE	All branches except CSE,CSD,C SBS,AI ML, AIDS,CSE	All branches except CSE,CSD,C SBS,AI ML, AIDS,CSE	All branches except EEE & Auto	All branches except MCT & RA
Subject-1	Introduction to Internet of Things	Introduction to Data Science	Fundamentals of Block chain	Computer Graphics for Virtual Reality	Energy Systems and Electric Machines	Introduction to Robotics
Subject-2	Introduction to Security of Cyber Physical Systems	Introduction to AI and ML	Block chain Security and Performance	Concepts of Virtual and Augmented Reality	Control of Electric Drives	Mechanics of Robots

S. N. Mungam

Subject-3	Embedded Systems for IoT	Computational Data analytics	Block chain and FinTech	Scientific and Engineering Data Visualisation	Electric Vehicles: Design, Dynamics & Testing	Microp rocesso r & Embed ded System s
Subject-4	IoT with Arduino, ESP, and Raspberry Pi	Web Data Mining	Cryptograph y and Cyber Security	Mathematica l Modelling and Computer Aided Engineering	Battery Charging Technology and Battery Manageme nt System	Control of Roboti c System s
Subject-5	Ubiquitous Sensing, Computing and Communicat ion	Social media data Analytic	Ethical Hacking and security	Mobile VR and AI in Modules	Electric Vehicle: Safety and Regulations and Future of EVs	Elemen ts of Roboti cs and kinema tics of Robot
Subject-6	Sensors Network & Internet of Things	Operation and Supply chain analytics	Information security and management	Game Development	Electric Motors and Power Electronics in EVs	Robot Mecha nics, dynami cs and motion plannin g

Dr. Gopal took up for discussion the need for two distinct provisions, one for Minor degree and other for Honours degree programmes. Principal replied that with minor degree, the students will become readily employable. Dr. Govindarajan said that Honours degree program will lead to higher studies. Further, students with Honours degree may get exemption in certain courses during their PG programme. Advisor added that Honours degree students would also prefer subsequently, taking up Ph.D. studies and carrying out advanced research.

S. W. Murthy

Dr. Gopal mentioned that on-one-hand the smaller number of total credits for a program would likely have more students at higher CGPA based on the effort on their part; on-the- other- hand, more credits are required for minors and Honors. In this respect, we may need to consider the effort aspect for those (with higher CGPA) who opt for minors and Honors.

Principal pointed out that Minor or Honours option is purely by the choice of the eligible students, who come forward to take up extra credits on voluntary basis. Counselling and Faculty-Advisor support are also available to the students. Further, the syllabus and curriculum for Minor/Honours are on the basis of recommendation/approval of the respective Boards and the Academic Council. Also, the curriculum R17 and R19 are on the lines of Choice-Based-Credit-System (CBCS)

Dr. Govindarajan said that in the context of adding a new programme and increasing the intake in 3 other programmes, additional faculty are to be provided, new facilities are to be added and the existing faculty also should prepare themselves to teach the new courses. For this Principal replied that the faculty members periodically undergo FDP programmes in the new topics. Advisor added that the general content of the syllabus in CSE & IT is underpinning the additional courses in the new programmes. Chairperson mentioned that Dr.T.V.Geetha, retired Professor of Anna University has agreed to provide guidance in strengthening the Curriculum and Syllabus in the emerging areas and also suggest suitable upskilling programmes for the faculty members offering these new courses. In these days of technology enabled learning, there is also a possibility of undergoing such programmes in a blended learning in on/off line mode.

Principal, in this context, mentioned that a class room which can accommodate 120 students with smart board and lecture capturing facility has been set up, so that a teacher very conversant in a new course can handle 2 sections of students simultaneously. Dr. Govindarajan pointed out that the teacher student ratio of 1:15 should not be overlooked and Principal also assured that it will not be compromised.

The Governing Body congratulated the Principal and his team for these visionary actions.

S. D. Hemphill

GB 10.03 Reporting the proceedings of the 13th & 14th Academic Council meetings held on 30.04.2022 (online) & 01.07.2022 (by circulation) respectively.

13th Academic Council has approved

- the proposals made in the Board of Studies meeting (held after the 12th Academic Council meeting) of the various departments.
- the starting one new UG program along with approval for its proposed curriculum and syllabus, increase in intake in 3 programmes and reduction in intake in 1 programme, mentioned in GB 10.02.

In the 14th Academic Council, it was reported that as per the direction of the Anna University, Chennai (Vide Lr. No. 3769/AU/CAC/2022 Dated 03.06.2022) the following elective course will be introduced:

“GE19612- Professional Readiness for Innovation, Employability and Entrepreneurship with L T P C : 0 0 6 3” in VII semester for B.E. ECE and CSE and B.Tech. IT degree students who have joined in 2019 and the same will be introduced in VI semester for students, who have joined in 2020, 2021 and would be joining in subsequent years.

GB 10.04. Seeking Governing Body's approval for award of Ranks for the UG & PG batches, passing out under the Autonomous programme and also newly instituted students' Awards.

In this context, Principal stated that the norms of Anna University for the award of ranks for UG and PG courses had been as follows:

S.10. [Signature]

Rank Certificates shall be awarded only to the top 5% of the students in a branch, subject to a maximum of 50 students. In the case of a tie in the last rank among these 50 students, the total number shall exceed 50 by awarding the same rank to all the students with tie.

In our present Autonomous system of REC, the ranking procedure starting from the First batch of UG students passed out in 2021 has been framed as follows:

Undergraduate Courses:

For undergraduate courses, a minimum of three ranks per programme shall be awarded for strength of up to 120 students, with an addition of one rank each per 60 student batch as under:

Student Strength	Maximum Number of Ranks Awarded
up to 120	3
121 to 180	4
181 to 240	5
241 to 300	6
(so on...)	

Postgraduate Courses:

For postgraduate courses, a minimum of one rank per programme shall be awarded for strength of up to five students, with an addition of one rank each per five student batch as under:

Student Strength	Maximum Number of Ranks Awarded
minimum 5	1
6 to 10	2
11 and above	3

The Governing Body RESOLVED to approve the above pattern of awarding ranks to the passing out students in the autonomous UG and PG programmes.

J. D. Hemanth

Dr. T V Gopal noted that "giving away awards" encourages students in their pursuit of excellence and is to be appreciated. He recommended that the committee to assess projects for awards include external members and the Principal pointed out that it is in practice as of now.

In this context, Dr. T V Gopal referred to weightages for internal (formative, during the semester) and end -semester (summative) assessments and also certification (value-added) programs which are sought by and offered to students.

The Principal pointed out that we are complying with the norms for marks allocation, as stipulated by the Anna University for the Continuous Assessment Tests and End Semester examinations for the various courses, viz., theory, laboratory and combined theory & laboratory.

GB 10.05 Reporting the accomplishments of the students, faculty and institution, funded projects, consultancy activities and patents.

Principal presented the highlights of following achievements:

College Achievements since March 2022

- REC has been ranked in Top 100 ranks in NIRF 2022 under Engineering category.
- REC bagged The Excellent performance award for the year 2021-2022 for the active participation in all the training events conducted by the PALS.
- **NPTEL**
 - In top 100 for the 10th consecutive semester with Rank 55 , A Category.
 - Learners from REC have secured certificates : Toppers 28, Gold 14 and Silver 106.
 - Six of our faculty members are awarded NPTEL Star titles including NPTEL Believers, NPTEL
 - Motivated Learners and NPTEL Discipline Stars. With these we have 25 STARS from our college
 - Mr.N.Venkatasubramanian, contributed in translating NPTEL Lectures transcripts (from English to Tamil), for the course “Design Practice”, IIT Kanpur and “Applied Thermodynamics for Engineers”, IIT Guwahati.

S. V. Kumar

Research Funding

- Dr. N. Venkateshwaran received Rs.17,000 from Institution of Engineers(India) for the project "Vibration Damping And Thermal Analysis Of Various Cross-Sectional Beams Printed Using Additive Manufacturing" with a duration of 3 months on 12 May 2022.
- Dr.R. Shanthi received Rs.36,425 for a duration of 3 months from REC for the project Electric Wrench cum Jack Screwer on 17 February 2022

- **Details of Patents:**

- Filed : 17
- Published : 5
- Granted : 8

- **Guest Lectures / Workshops organized: 104**

- **Publication**

- Scopus indexed Journals Published : 194
- SCIE Journals Published : 96

International Collaboration:

- Prof. Bruce K. Gale, Chair Mechanical Engg from University of Utah, USA, visited our campus under AICTE Nehru Fulbright Programme from 28th March to 8th Apr 2022. Research discussions and seminars on various topics were offered by him to students and faculty.
- Two Faculty members and Six students Visited the University of Texas at Dallas, June 20th to August 5th, 2022. Two MOUs have been signed with UNT and UT Dallas.

Major Students' Achievements since March 2022

- One batch of AI & ML students won first prize in iTECH HACKFEST2022 conducted by PSG Institute of Technology and Applied Research, Coimbatore in September 2022 with a cash prize of Rs. 1,00,000/-
- Vishwamalyan J S, Yeswanth C (AI&ML students) participated in Headshot at IIM Sambalpur and won first place with a cash award of Rs.2,000.
- They also participated in Crosshairs, IMT Ghaziabad and won first Place with a cash prize of Rs.7,000.

S.D. Hanumanth

- Harshini S and Indra SB (II CSE) won first prize in Paper Presentation, in TECHNOZARRE'22 and White Hackers Club, conducted by SRM Institute Of Science And Technology on 4 and 5 March, 22
- In the National Science Event held on 1st March 2022, (AIML students) Shivraj S won 2nd Prize in Project presentation; Samuel Joseph and Santhosh Kumaran M won 2nd Prize in Idea presentation
- Other Fifty plus prizes won by students in various events

Faculty Achievements, since March 2022

- Dr. Priya Vijay received Certificate of Excellence from WIPRO TalentNext for completing project in Big Data (January 2022 to March 2022)
- K.Jayashree, D.Sivamani, A.Sangari , D.Shyam, J.Anto Sheeba, A.Nazar Ali won Best Paper Award at IEEE Madras Section on 19 January 2022
- Dr. S. Poonkuzhali is listed as Top 51 Indian Woman Achievers in STEM
- Dr. S. Anantha Sivaprakasam received Outstanding Academician National Award 2022 on April 22nd from Kamarajar Institute of Education and Research on 22 April 2022.
- Dr.S.Senthil Murugan received Researcher award from VDGGOOD professional associations, Pondicherry on 29 April 2022
- Dr.S.P.Srinivasan and C.Devanathan received Gold in 5th Kaizen competition held by ABK –AOTS DOSOKAI, Tamilnadu Centre on 07 May 2022
- Dr V Gayathri, received the Dr Sam Thiagalingam Genotoxic Research award in the TASME 2021, Toronto, Ontario, April 2022.

Governing Body members expressed their appreciation for all these achievements.

GB 10.06 Reporting the updated policies and newly introduced seven policies, for various areas of functions, for the approval of the Governing Body.

Principal stated that necessary moderations / rephrasing were made in the policy statements as recommended by the Governing Body in the previous meeting. He further mentioned that during the course of preparation for NAAC documents, it is required that some of the existing Standard Operating Practices (SOPs) are to be documented as Policies and due approval is to be obtained from the Governing Body. Principal presented the following seven policies to be approved in addition to the existing policies:

S.V. Murugan

1. Feedback policy on Curriculum and Syllabi
2. Water conservation policy
3. Environment and energy usage
4. Green campus policy
5. Mentor mentee policy
6. Policy for physically challenged students
7. Policy for special class

- ❖ A report on activities of the Centre for Technical Support is submitted for the perusal of the Governing Body.
- ❖ Apart from adding the new Desktop computers, to match the additional intake, two additional features as detailed below have been added by the Centre.

- Lecture Capturing System

Enables recording of the entire class room proceedings with audio and the same is made available for every student for ready reference.

- Interactive Panel

A powerful tool that enables teachers to build dynamic lesson plans, import engaging content, and share lessons with students – all with one easy click. It is compatible with Windows, Android, or Chrome environment.

The Governing Body RESOLVED to approve all these policies.

GB 10.07 Reporting the activities of the Internal Quality Assurance Cell

- IQAC meeting for 2022-2023 was also conducted [13-8-2022]. The Minutes of the meeting is submitted for the kind information of the GB.
- IQAC also conducted an exclusive session on 17.09.2022 for the Review of attainment of targets set for various focus areas as per first five year strategic plan 2018-2023. The summary of the review is submitted for the kind information of the GB.

S.N. Kumar

GB 10.08 Reporting recent NBA accreditation results and planning and preparation for the forthcoming visit of the NAAC

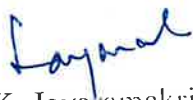
- 3 Teams of NBA audited 12 programmes after March 2022 and accorded accreditation for the period of three years.
- Preparations are going on for the ensuing NAAC accreditation and IIQA has been submitted (The current accreditation is valid till December 2022).



Prof. R. Govindarajan



Dr. T.V. Gopal



Mr. K. Jayaramakrishnan



Dr. M. Subbiah



Dr. C.R. Muthukrishnan


29/10/22

Dr. S.N. Murugesan


Dr. (Mrs.) Thangam Meganathan