RAJALAKSHMI ENGINEERING COLLEGE,
(An Autonomous Institution) - Affiliated to Anna University
THANDALAM, CHENNAI-602 105

Minutes of the 20th Academic Council Meeting held on 06.07.2024 at 02.30 pm in the Conference hall

AGENDA

S.No.	Items
AC. No.20.01	Action taken on the minutes of the 19th Academic council meeting held on 23.8.2023
AC.No.20.02	Curriculum and syllabus framed for III and IV Semesters, for the 19-UG and 9-PG programmes, based on Regulations 2023 and syllabus for semesters V to VIII for 2 UG programs based on Regulations 2019(Revised)
AC.No.20.03	Revision of Curriculum and syllabus for M.Tech. Data Science with the support of L&T Mindtree from 2024 batch onwards
AC.No.20.04	Proposal to increase the number of online courses for enabling credit transfer in both Regulation 2023 and Regulation 2019 (Revised)
AC.No.20.05	Increase in the intake in 6 UG programmes from the academic year 2024-25
AC.No.20.06	Reporting the recent developments/Achievements after the 19th Academic Council Meeting
AC.No.20.07	Any other Points

The following members were present:

S.No.	Name of the Academic Council Member	Category
1.	Dr. S.N.Murugesan	Principal & Chairman
2.	Dr.S.R.Devadasan Professor Department of Production Engineering PSG College of Technology Peelamedu, Coimbatore – 641 004	University Representative
3.	Dr.S.Balasivanandha Prabu Professor and Head Department of Mechanical Engineering CEG Campus, Anna University, Chennai – 600 025	University Representative

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4.	Dr. Suceendran K.M. Techno HR Leader, Digital Evangelist, Head - Academic Alliances TCS, Chennai	Industry Representatives
5.	Dr.C.R.Muthukrishnan Advisor, Rajalakshmi Institutions	Academician
6.	Dr.M.Subbiah, Professor Emeritus, Department of Electrical and Electronics Engineering	Academician
7.	Dr. S.P.Srinivasan Vice Principal	Member
8.	Dr. M. Muthusamy COE and HoD H&S	Member
9.	Dr.M.Palanivelan Director (PG studies)	Member
10.	Dr. Suresh Chandra Khandai HOD, Aeronautical Engineering	Member
11.	Dr.J.M.Gnanasekar Professor & HOD Artificial Intelligence and Data Science	Member
12.	Dr.K.Sekar Professor & HOD Artificial Intelligence and Machine Learning	Member
13.	Dr. K. Bhaskar Professor & HOD, Automobile Engineering	Member
14.	Dr.S.Rajkumar Professor &HOD, Biomedical Engineering	Member
15.	Dr. M.Sankar Professor & HOD, Biotechnology	Member
16.	Dr. T.R.Sundararaman Professor & HOD, Chemical Engineering	Member
17.	Dr. S.Geetha Professor & HOD, Civil Engineering	Member
18.	Dr.K.Devaki Professor & HOD, Computer Science and Business System	Member
19.	Mr.S.Gunasekar AP (SG) & For HOD, Computer Science & Design	Member
20.	Dr. K.Ananthajothi Professor & For HOD, Computer Science & Engineering	Member

21.	Mr.Benedict Jayaprakash Nicholas HoD - CSE (Cyber Security)	Member
22.	Dr.L.Bhagyalakshmi Professor & HOD, Electronics & Communication Engineering	Member
23.	Dr. S.Ramareddy Dean & For HOD, Electrical & Electronics Engineering	Member
24.	Dr.K.Ramalakshmi Professor & HOD, Food Technology	Member
25.	Dr. Priya Vijay Professor & HOD, Information Technology	Member
26.	Dr. R.Shanthi Professor & HOD, Mechanical Engineering	Member
27.	Dr.Ritesh Ramakrishna Bhat Professor & HOD, Mechatronics Engineering	Member
28.	Dr. R. Giri Professor & HOD, Robotics & Automation	Member
29.	Dr. M.Uma Raman, Professor &HOD Management Studies	Member
30.	Dr.V.Prasanna Kumari, Coordinator - IQAC	Teachers' Representative
31.	Dr. Johanna Rajkumar, Dean , Biotechnology	Teachers' Representative
32.	Mr.I.Philip Praveen, Director (Training & Placement)	Teachers' Representative
33.	Dr. V. Murali Bhaskaran, Dean (Academics)	Member Secretary

The following members expressed their inability to attend this meeting:

Dr.R.Senthil Professor, Dept, Civil Engineering, CEG, Anna University, Chennai-600 025	University Nominee
Prof. Satyanarayanan R. Chakravarthy Professor Department of Aerospace Engineering IITM, Chennai	Academician

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The Chairman welcomed the members of the Academic Council and invited the Dean (Academics) to present the details of the Agenda items and initiate the discussion.

AC. No.20.01	Action taken on the minutes of the 19th Academic Council meeting held on 23.8.2023

The following points approved in the 19th Academic Council meeting have been implemented:

- Passing requirements as per the UG and PG Regulations 2019 Revised (i.e.) for Theory cum laboratory courses, that a minimum of 45% in the end semester examination in each theory part and laboratory part is separately required for passing [i.e. instead of taking 45% of marks considering theory and laboratory components together].

- Regulations 2023 for both UG and PG Programmes and also curriculum and syllabus for I and II semesters for all the 19 UG and 9 PG Programmes.

- It was also highlighted that the assessment pattern for theory, practical, combined theory and practical courses and final year project are as per the guidelines of Anna University which is common for all the Autonomous institutions affiliated to Anna University Chennai

AC.No.20.02	Curriculum and syllabus framed for III and IV Semesters, for the 19-UG and 9-PG programmes, based on Regulations 2023 and syllabus for semesters V to VIII for 2 UG programs based on Regulations 2019(Revised)

Dean (Academics) requested the council to give suggestions on the curriculum and syllabus for the III and IV semesters based on regulations 2023 of the following 19 UG and 9 PG degree programmes, as recommended by the respective Board of Studies(BoS) from the academic year 2024-25 onwards.

UG courses	PG Courses
1. B.E. Aeronautical Engineering	1. M.E. Avionics
2. B.E. Automobile Engineering	2. M.E. Medical Electronics
3. B.E. Biomedical Engineering	3. M.Tech. Biotech
4. B.Tech. Biotechnology	4. M.E. Computer Science and Engg.
5. B.Tech. Chemical Engineering	5. M.E. Communication Systems
6. B.E. Civil Engineering	6. M.E. Embedded System Tech
7. B.E. Computer Science and Engg.	7. M.E. Engineering Design
8. B.E. Electronics and Communication Engg.	8. M.Tech. Data Science (L&T EduTech)
9. B.E. Electrical and Electronics Engg.	9. M B A. Master of Business Administration
10. B.Tech. Information Technology	
11. B.E. Mechanical Engineering	
12. B.E. Mechatronics	
13. B.Tech. Food Technology	

14. B.Tech. Computer Science and Business Sytems 15. B.Tech. Artificial Intelligence and Machine Learning 16. B.E. Robotics and Automation 17. B.E. Computer Science and Design 18. B.Tech. Artificial Intelligence and Data Science 19. B.E. Computer Science and Engg. (Cyber Security)	

Also, the curriculum and syllabus as per Regulations 2019(Revised) for the following programmes have been framed and recommended by the respective Board of Studies:

- B.Tech. degree programme on AI & DS (Started in 2022) for semesters V to VIII,

- B.E. degree programme on Computer Science and Design(Started in2021)for semesters VII and VIII

- Additional electives have been included in B.E. CSE and electives are regrouped as 7 verticals in B.E. Mechanical Engineering

Dr. Balasivanandha Prabhu asked whether the total credit range of 160-165 is enough for accommodating all the necessary courses and their contents in any programme. The Advisor replied that the courses and contents are not compromised and certain essential courses have been made as mandatory courses in the curriculum but with zero credits.

After a detailed discussion of the various points, the council RESOLVED TO APPROVE the proposed curriculum and syllabus of the various programmes.

AC.No.20.03	Revision of Curriculum and syllabus for M.Tech. Data Science course with the support of L&T Mindtree from 2024 batch onwards

Dean (Academics) requested the members of the council to give suggestions on the curriculum and syllabus for M.Tech. Data Science courses, revised with the support of L&T Mindtree based on regulations 2023 and recommended by the BoS for the students to be admitted from the 2024 onwards.

Dr. Balasivanandha Prabhu asked what the rolls are for the L&T Mindtree in implementing this course. Dean (Academics) stated that the following supports are extended by the **L&T Mindtree** :

- Developing curriculum and syllabus
- Training the faculty members to teach the subjects
- Few courses will be handled by L&T Mindtree
- Offering internship to the students and also placement

After a detailed discussion, the council RESOLVED TO APPROVE the revised curriculum and syllabus for M.Tech. Data Science as per **Regulations for 2023 with the support of L&T Mindtree.**

AC.No.20.04	**Increase in the number of online courses for enabling credit transfer** • **From 3 to 5 courses for Regulations 2023** • **From 2 to 5 courses for Regulations 2019(revised)**

In line with National Education Policy (NEP) 2020, to facilitate Academic Bank of credits, and inculcate the self- learning practices among the students, Dean (Academics) presented the proposal to increase the number of online courses from 3 to 5 in Regulations 2023 and from 2 to 5 in Regulations 2019 (Revised), subject to a maximum of 15 credits in both regulations (instead of 9 credits for Regulations 2023 and 6 credits for Regulations 2019(Revised)

Dr.S.R.Devadasan asked about the examination pattern followed for the online courses offered by industries. The Dean (Academics) replayed that as per regulations, the college is also conducting an assessment for the online courses offered by industries. Only those students who secure pass marks are eligible to apply credit transfer in lieu of the elective course(s).

In this context, Dr Succendran mentioned that TCS is also offering online industry courses for REC students and Dean Academics said that the assessment of students performance for these courses is conducted by REC

After the detailed discussion, the council RESOLVED TO APPROVE the proposal of increasing the number of online courses from **3 to 5 courses in Regulations 2023 and from 2 to 5 courses in Regulations 2019 (Revised)**

AC.No. 20.05	**Increase in intake for the 6 UG programmes from the academic year 2024-25**

Dean (Academics) presented to the Council the details on increase in intake for the following courses from the academic year 2024-25

- B.E.- Electronics and Communication Engineering from 240 to 360
- B.E.-Computer Science and Engineering from 300 to 540
- B.E.-Computer Science and Engineering (Cyber Security) from 60 to 120
- B.Tech.-Information Technology from 240 to 300
- B.Tech.-Artificial Intelligence and Machine learning 180 to 240
- B.Tech.-Artificial Intelligence and Data Science 180 to 300

The council was informed that AICTE has given approval for the above increase in the intake from the academic year 2024-25 onwards and the approval of Anna University, Chennai, is awaited

AC.No. 20.06	Reporting the recent developments /Achievements after the 19the Academic Council Meeting

A. Institutional Level Achievements

- Anna University approved our college **as an Institute Level Research Center** in May 2024, valid for Three years.
- QS I-GAUGE rated REC as **DIAMOND** in 2023.
- Signed MoUs with **Zoho, Hexaware** and **Wipro** for strategic Hiring
- Departments have signed **13 MoUs** with different industries and organizations

B. NBA Expert Committee Visit

The NBA Expert Committee visited our campus for the accreditation of following two programmes during 24-26 May, 2024.

- B.Tech. Chemical Engineering
- B.Tech. Food Technology

These two programmes have been accredited for THREE years (valid till June 2027)

C. NPTEL Ranking

In all India level, our college has secured

- 38th Rank with AA star during JAN-April 2024
- 37th Rank with AA star during JUL - Nov 2023

D. Collaboration with Universities abroad:

- Organized a workshop on Design Thinking during OCT 16-18, 2023, by Prof. Michael V. Testani Senior Director of Industry Outreach, Binghamton University, USA

- Organized a course on Deep learning for students during June/July 2024 by Prof Dr. Richard K Min, University of Texas Dallas. USA

E. Details of Journal Publications

Publications	All	Scopus	WoS*	ABDC*
Aug-Dec 2023	334	250	75	9
Jan 2024 to Jun 2024	303	216	86	1
Total	**637**	**466**	**161**	**10**

*WoS : Web of Science   *ABDC : Australian Business Deans Council

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Funded Projects (Total Rs. 67 lakhs)

SNo	Project Details	Amount (lakhs)
01	Retrofitting of Structures with Self - Sensing Multifunctional Cementitious Nano-composite from DST –TDP in October 2023. PI- Dr.S.Geetha, Co-PI-, Dr.M.Selvakumar	45.97
02	MIC Scheme for Innovation grant for titled "AR Based Smart Education" under Yukti Innovation 2023 on 6.5.2024. PI. Dr. K. Devaki	3.00
03	Ms. Revathi M , Dr. Bagyalakshmi , Dr. A. Asha , Reconfigurable Pneumatic Wall Climbing Robot (PWCR) for Anomaly Detection and Cleaning in Industrial Environments	15.00
04	Dr. Millicent Mabel NUTRICOCAO - A Stress Relieving Dark Chocolate Fortified with Bioactive Ingredients	12.00

F. Consultancy Activities

- Number of on-going Projects - 24
- Consultancy amount secured from Aug 2023 to Jun 2024 : Rs. 77 lakhs

G. Patents details

Type	Overall			2023-24		
	Filed	Published	Granted	Filed	Published	Granted
Product	139	39	25	51	15	13
Design	154	-	58	96	-	35
Copyright	9	-	6	6	-	3
Trademark	2	-	-	1		

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H. Incentives for Faculty Members-2023

In order to motivate the faculty members and to promote the innovative ecosystem in the college; by sustaining the very high quality in Publication, Patents, Sponsored Research and Consultancy, we annually celebrate "Publication, Patents, Sponsored Research and Consultancy Day" and give awards to faculty members who have made significant contributions in these areas.

For this year, this day was celebrated on 24th April, 2024 and incentives were given to the faculty members for their contribution and achievements in year 2023 in Four categories - Research, Publications, Patents and consultancy. **Total incentives awarded Rs.85 lakhs**

I. Major Achievements of Students

- 44 in final year and 54 in I-III year student projects were selected for Tamilnadu State level -2023 project competition – "Naan Mudhalvan - Niral Thiruvizha".
- Winner in SIH 2023 held at Bhopal with 1 lakh cash prize under software category
- Overall championship in Mega All-Terrain Vehicle championship held at Goa during 10-12 May 2024 –with ₹ 50, 000 cash award
- Won the Luminous SIEP E-Bike Challenge January 2024 at Bhopal awards in six category- with total cash prize of ₹70,000
- A team of CSE and IT students has won Capture The Flag (CTF) events conducted by IITM PALS and Edith Cowan University Australia and secure top 10 ten teams of AICTE-NCIIPC Pentathon 2024. The team is identified for Vulnerability Assessment and Penetration Testing (VAPT) exercise of our Nation's Critical Information Infrastructure

J. Establishment of a TANCAM Spoke Centre

- Establishment of a **TANCAM SPOKE CENTRE** (Tamil Nadu Centre of Excellence for Advanced Manufacturing) in our campus for offering the Modeling and Simulation course using 3DEXPERIENCE (3DX)

K. LinkedIn Learning for our campus, login credential is given to

- all our faculty members for up-skilling their knowledge and skills and
- all our students for their additional learning and career development

L. Placement Record [2020-24 Batch]

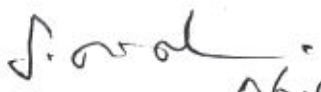| Details	CORE	IT	OTHERS	TOTAL
Companies Visited	156	167	14	337*
Offers	334	933	218	1485*

Students placed	987*
Highest CTC	18 LPA
Median CTC	4.6 LPA
Average CTC	4.61 LPA
Placement Percentage*	79.88 %
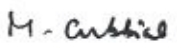
The members appreciated the academic developments and the several achievements of the institution.

Dean (Academics) thanked all the members for offering their very valuable suggestions.

Dr.S.Balasivanandha Prabu
University Representative

Dr.S.R.Devadasan
University Representative

Dr. Suceendran K.M
Industry Representatives

Dr.M.Subbiah
Academician

Dr.C.R.Muthukrishnan
Academician

Dr.V.Murali Bhaskaran
Member Secretary

Dr.S.N.Murugesan
Chairman- Academic Council

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