



FRANCIS XAVIERTM ENGINEERING COLLEGE AN AUTONOMOUS INSTITUTION

ACCREDITED BY NBA : DST-FIST Supported Institution
Vannarpettai, Tirunelveli

5th ACADEMIC COUNCIL MEETING



Date & Time: 29.7.2021 & 5 p.m

Mode: online - Zoom

Meeting ID: 96046304050 Passcode: 1234

Minutes of the Academic Council Meeting held on 29th July 2021 at 5 p.m through ZOOM.

Members Present

Sl. No	Name	Designation	Position in Academic Council
1	Dr.V.Velmurugan	Principal & Chairman, Academic Council, Francis Xavier Engineering College	Chairman
2	Dr.S.Ganesan	Professor Department of Medical Physics CEG campus, Anna University, Chennai	University Nominee
3.	Dr.M.Meenakshi	Professor & Chairman Department of Electronics and Communication Engineering CEG campus, Anna University, Chennai	University Nominee
4.	Dr.S.Srinivasan	Professor Department of Instrumentation Engineering MIT Campus, Chrompet , Chennai	University Nominee
5	Dr. Balaji Venkataraman	President TVS Sensing Solutions Private Limited (Formerly ZF Electronics TVS (India) Private Limited) Madurai-Melur Road, Vellaripatti, Madurai – 625 122,	Industrial Expert



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6	Mr.Rajendran	President - Allience Tyre Group ATG Tyre, Yokohama Rubber Company Industrial Growth Centre, Gangaikondan, Tirunelveli,	Industrial Expert
7	Dr. K Sivakumar	Dean - PDS, Sr. Professor, Dept. of Mechanical Engineering, Bannari Amman Institute of Technology, Erode - 638 401	Academic Expert Member
8	Dr.K.Jeya Kumar	Principal, SCAD College of Engineering and Technology & GM (D) SCAD Group of Institutions.	Academic Expert Member
9	Dr.L.R Priya	Professor /Academics	Member Secretary
10	Dr.A.Gnana Saravanan	Professor /Placement & Industry Institute Interaction	Member
11	Dr.S.Balaji	Professor/Training & Skill Development	Member
12	Prof.J.Zaharia Gabriel	Asso. Professor / CSE Department & Campus Manager	Member of Various Category
13	Dr.Lourdes Poobala Rayen	Professor/EDC	Member of Various Category
14	Dr.A.Amarkarthick	Asso.Professor, Dept. of Mechanical Engineering Bannari Amman Institute of Technology, Erode -638 401	Special Invitee
15	Prof. Samuel Prabhakaran	Asst. Professor & Head i/c- Civil	Chairpersons of BOS
16	Dr. Aravind Swaminathan	Professor & Head - CSE	



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17	Prof. J. Friska	Asso.Professor & Head - ECE	
18	Dr.J. Jasper Gana Chandran	Professor & Head - EEE	
19	Prof.D. P Rufus	Asso.Professor & Head - MECH	
20	Prof.G. Prince Devaraj	Asso.Professor & Head - IT	
21	Prof. D.Annie Rose Nirmala	Asso.Professor & Head -MBA	
22	Prof.D.Angeline Ranjithamani	Asso.Professor & Head - MCA	
23	Prof.J.David Ayling	Asso.Professor,English/ Co-ordinator S&H	Member
24	Dr.G. Rajakumar	COE & Professor /ECE Department	Member
25	Dr.M.Caroline Viola Stella Mary	Professor/IT Department	Member

Member Absent:

Dr. S. Ganean, Profesor, Department of Medical Physics, CEG Campus, Anna University, Chennai - University Nominee could not attend due to his prior commitments and unavoidable reasons and was granted leave of absence.



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Agenda

AC/5.1: Welcome Address

AC/5.2: Review & Confirmation of Minutes of the Meeting of the 4th Academic Council.

AC/5.3: To consider and approve the change of Board Chairman, Department of CSE and Department of Mechanical Engineering and the change of BOS Members in the Department of Electrical and Electronics Engineering.

AC/5.4: To consider and approve the List of Specialization/Minor Courses for B.E/B.Tech Programmes

AC/5.5: To consider and approve UG & PG Regulation 2021 to be implemented from the Academic Year 2021-2022 onwards.

AC/5.6: To consider and approve the amendments in Regulation 2019 UG & PG

AC/5.7: To consider and approve the recommendations and resolutions passed in the BOS Meeting, Department of Civil Engineering with regard to the UG curriculum 2021.

AC/5.8: To consider and approve the recommendations and resolutions passed in the BOS Meeting, Department of Computer Science and Engineering for the programmes

1) B.E CSE (UG & PG)

2) B.E CS&BS (UG)

AC/5.9: To consider and approve the recommendations and resolutions passed in the BOS Meeting, Department of ECE with regard to the UG & PG curriculum 2021.

AC/5.10: To consider and approve the recommendations and resolutions passed in the BOS Meeting, Department of EEE with regard to the UG & PG curriculum 2021.

AC/5.11: To consider and approve the recommendations and resolutions passed in the BOS, Department of MECH with regard to the UG & PG curriculum 2021.



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AC/5.12: To consider the recommendations and resolutions passed in the BOS, Department of IT with regard to the curriculum 2021 for

2) B.Tech IT (UG & PG)

2) B.Tech AI & DS (UG)

AC/5.13: To consider and approve the recommendations and resolutions passed in the BOS Meeting, Department of MBA with regard to the curriculum 2021.

AC/5.14: To consider and approve the recommendations and resolutions passed in the BOS Meeting, Department of MCA with regard to the curriculum 2021.

AC/ 5.15: Any other point of discussion

The Academic Council started with a prayer by Dr.Aravind Swaminathan, Head/CSE

AC/ 5.1: Welcome Address - Mr. Rufus, HOD/Mech

Mr. Rufus, HOD/Mech welcomed the chairman of the Academic Council, University Nominees, Industry Experts, Academic Experts, Special Invitees and all the members of the Council for the 5th Academic Council Meeting.

AC/5.2: Review & Confirmation of Minutes of the meeting of the 4th Academic Council.

The council resolved and approved the minutes of the 4th Academic Council as all the amendments approved to be implemented with regard to Open Elective, Guided Study Course, Online Courses, Value added Courses and Creation of for Minor and Specialization are executed.

AC/5.3: To consider and approve the change of Board Chairman, Department of CSE and Department of Mechanical Engineering and the change of BOS Members in the Department of Electrical and Electronics Engineering.



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The Council approved the change of Board Chairman in the Department of CSE and Mechanical Engineering with effect from the date as stated below and the change of BOS Members in the Department of Electrical and Electronics Engineering.

Department of CSE - Dr. Aravind Swaminathan w.e.f 14.6.2020

Department of Mech - Prof. D P Rufus w.e.f 16.7.2021

AC/5.4: To consider and approve the List of Specialization/Minor Courses for various Programmes

The following courses were presented to the council.

S.No	Minor Degree /B.E/B.Tech (Hons)	To be offered as Hons for the following Major Degree	To be offered as Minor Degree	Department Offering
1	Disaster Management and Mitigation	Civil	CSE,ECE,EEE,IT Mech	Civil
2	Cyber Security	CSE,IT and ECE	EEE,Civil and Mech	CSE
3	Data Science	CSE,IT and ECE	EEE,Civil and Mech	IT
4	Internet of Things	CSE,ECE,EEE,IT	Civil,Mech	ECE
5	Robotics in Industrial Automation	EEE,Mech	Civil,ECE,CSE,IT,Mech	EEE
6	Additive Manufacturing	Mech	Civil,CSE,ECE,EEE,IT	Mech



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The Council resolved and approved the List of Specialization/Minor Courses to be conducted with effect from the present academic year onwards.

The curriculum and the List of courses are attached in Annexure I.

AC/5.5: To consider and approve the UG & PG Regulation 2021 to be implemented from the Academic Year 2021-2022 onwards.

UG & PG Regulation 2021 was presented to the Council.

- AC 5.5.1 The council resolved and approved the credits range as stipulated in the Regulation 2021 - i.e **163-168 for the UG Regular and 123-128 for Lateral.**
- AC 5.5.2 Resolved to approve the categorization of the courses and the range of credits as stated in the Regulation 2021. However, it was suggested that the **credit range for the EEC courses shall be increased.**
- AC 5.5.3 Resolved to approve the **Honours Degree/Minors Degree to be implemented in Regulation 2021 and 2020 Batch of Regulation 2019**
- AC 5.5.4 Resolved to approve to offer courses under **Practical cum Theory category with effect from Academic year 2021-2022 onwards.**
- AC 5.5.5 Resolved to approve the inclusion of **Project I in TWO Phases and Project II** with the credit as mentioned below.
 - Project I [6 Credits]
 - Phase I [6th Semester]
 - Phase II [7th Semester]
 - Project II (6 Credits) [8th Semester]
- AC 5.5.6 Resolved to offer Professional Skill Training (PST) Courses on Programming, Communication, Problem solving and Aptitude skills of the students from the second year onwards.
- AC 5.5.7 Resolved to approve the start up initiative under EEC. However, the council suggested the following to be incorporated in the regulation 2021.
 - A committee must be formulated, in which one Industry Expert must be constituted to



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receive inputs with regard to financial or economical stature and work towards the development of the product and process to convert it into a scalable business model with high potential for creation of wealth & employment.

- Mentorship companies should be invited for mentoring. The List of companies shall be prepared.
- **In-house start up with 1 credit shall be offered to support the students to begin with.**
- AC 5.5.8 Resolved to approve the following with regard to Online Courses and credit transfer.
 - ❖ 8 week and 12 week duration courses shall be offered with 2 credits and 3 credits respectively.
 - ❖ Students shall be permitted to register for online courses in any semester from 4th Semester to 8th Semester limited to a maximum of FOUR online courses in the entire course of study.
 - ❖ The credits thereby earned shall be transferred for one professional elective.
- AC 5.5.9 Resolved to approve to offer Mandatory Non CGPA Courses as follows
 - Environmental and Sustainable Engineering
 - Constitution of India and Essence of Indian Heritage
 - Universal Human Values and Ethics

Details provided in Annexure 2 /Regulation 2021 vide 4.13 ,Page 13

AC/5.6: To consider and approve the amendments in UG & PG Regulation 2019 to be implemented from the Academic Year 2021-2022 onwards.

- AC 5.6.1 Resolved to approve the strategy mentioned in the Regulation with regard to the Rank allotment of the students as mentioned below
 - A candidate who qualifies for the degree by passing the examination in all courses of the entire Programme in the first attempt within a period of Four or Five consecutive academic years.
 - Award of Rank is also applicable for the students who joined after the permitted Break of Study from the date of admission to the Programme can be given his/her position in the class as rank.
 - The Rank should be calculated with the end semester examination CGPA from 3rd semester to 08th semester. Students transferred from other institutions to FXEC in the 3rd



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AC/5.8: To consider the recommendations and resolutions passed in the BOS Meeting, Department of Computer Science and Engineering for the programmes

- 1) B.E CSE (UG & PG)
- 2) B.E CS&BS (UG)

AC 5.8.1 The Council Resolved to approve the curriculum of Regulation 2021 with the following amendments.

- Credits and courses offered in the 7th sem shall be reduced. The credits shall be shared across the semesters.
- The variation of courses in B.Tech CSBS and B.E CSE should be at least 50% in core subjects. More Business Analytics Courses and management Courses shall be incorporated in CSBS.
- Professional electives for B.Tech CSBS and B.E CSE shall not be the same.

AC 5.8.2 Resolved to approve the NPTEL courses suggested by the BOS.

The Curriculum comes into effect for the students admitted from the Academic year 2021-2022 onwards.

AC/5.9: To consider the recommendations and resolutions passed in the BOS Meeting, Department of ECE with regard to the UG & PG curriculum 2021.

The Council Resolved to approve the curriculum of Regulation 2021 with the following changes.

AC 5.9.1 In M.E Communication Systems, the course Titled "Trending Digital Communication Techniques" shall be change to "Advanced Digital Communication Techniques"

AC 5.9.2 Resolved to approve the NPTEL courses suggested by the BOS.

The Curriculum comes into effect for the students admitted from the Academic year 2021-2022 onwards.



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Semester and Lateral entry students are also eligible for the award of rank.

- Rank will be declared in a programme under 1:25 ratio.
 - The same shall also be incorporated in Regulation 2021.
- AC 5.6.2 Resolved to approve the system of Supplementary Examination and rank of a student for UG and PG as an amendment in the Regulation 2019 and to be included in Regulation 2021 as given in the Annexure:3 vide clause 19 (A),23(A)& Annexure:4 vide clause 22(A),23(A)

 - AC 5.6.3 Resolved to approve the strategies to be followed with regard to Guided study courses as follows
 - Eligibility No history of arrear & CGPA > 7.5
 - Students can study ONE course under the Professional Elective category after his /her 5th Semester.
 - Maximum number of credits is limited to 12 (4 courses) per B.E/B.Tech programme.

 - AC 5.6.4 Resolved to approve to continue with the existing UG/PG Regulation 2019 with the change in the curriculum incorporating the following amendments.
 - start up shall be initiated from the 1 semester onwards for MBA stipulating to the procedures as stated in AC 5.5.7
 - Online courses shall be increased to 2 per Programme
 - Guided study courses shall be opted by a student with no history of arrear & CGPA > 7.5. Details given in Annexure 3 UG Regulation vide Clause 4.6 (A), 4.8 (A), 4.9 (A) ; and Annexure 4 PG Regulation 2019 Amendments vide clause 3.4 (A), 3.8.2 (A), 3.10(A)

AC/5.7: To consider the recommendations and resolutions passed in the BOS Meeting, Department of Civil Engineering with regard to the UG curriculum 2021.

AC AC 5.7.1 The Council Resolved to approve the curriculum of Regulation 2021

AC 5.7.2 Resolved to approve the NPTEL courses suggested by the BOS.

The curriculum comes into effect for the students admitted from the Academic year 2021-2022 onwards.



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AC/5.10: To consider the recommendations and resolutions passed in the BOS Meeting, Department of EEE with regard to the UG & PG curriculum 2021.

The Council Resolved to approve the curriculum of Regulation 2021 with the following amendments

AC 5.10.1 Resolved to approve the NPTEL courses suggested by the BOS.

This comes into effect for the students admitted from the Academic year 2021-2022 onwards.

AC/5.11: To consider the recommendations and resolutions passed in the BOS, Department of MECH with regard to the UG & PG curriculum 2021.

The Council Resolved and approved the curriculum and the syllabi.

The Industry Supported course offered was well appreciated by the Council.

The Curriculum comes into effect for the students admitted from the Academic year 2021-2022 onwards.

AC/5.12: To consider the recommendations and resolutions passed in the BOS, Department of IT with regard to the curriculum 2021 for

3) B.Tech IT (UG & PG)

2) B.Tech AI & DS (UG)

The Council Resolved to approve the curriculum of Regulation 2021 with the following amendments

AC/5.12.1 In M.Tech IT, The Course "21IF2911 - Term Paper Writing and Seminar" shall be renamed.

The Curriculum comes into effect for the students admitted from the Academic year 2021-2022 onwards.

AC/5.13: To consider the recommendations and resolutions passed in the BOS Meeting, Department of MBA with regard to the curriculum 2021.

The Council Resolved to approve the curriculum of Regulation 2021.

The Curriculum comes into effect for the students admitted from the Academic year 2021-2022 onwards.



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AC/5.14: To consider the recommendations and resolutions passed in the BOS Meeting, Department of MCA with regard to the curriculum 2021.

The Council Resolved to approve the curriculum of Regulation 2021.

The Curriculum comes into effect for the students admitted from the Academic year 2021-2022 onwards.

AC/ 5.15: Any other point of discussion

The Council Stated the following suggestions and deliberations.

AC 5.15.1 Industry Supported courses must be added in all the Departments to support the students gain practical exposure and get academia-Industry Connect.

AC 5.15.2 Industry oriented courses with 1 credit shall be added with 15 contact hours with the support of Industry Experts adhering to the norms.

AC 5.15.3 TVS Sensing Solutions Private Limited shall be approached to start an Industry Supported course.



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AC 5.15.4 AICTE identified emerging areas need to be included in the curriculum as profession electives or open electives such as artificial intelligence (AI), Internet of Things (IoT), Block Chain, Robotics, Quantum Computing, Data Science, 3D printing and Design, Cyber Security, AR & VR.

AC 5.15.5 Interdisciplinary Courses must be added in Open Electives and Professional Electives in the curriculum 2021.

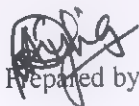
AC 5.15.6 For the Courses termed as Theory cum Practical Courses and Practical cum Theory courses shall follow the specified LPTC pattern as given in Annexure 5

AC 5.15.7 A maximum of 12 credits shall be allocated for guided study courses and online courses as specified in Regulation 21 vide 4.0 Guided Study Courses.

AC 5.15.8 Frequently opted courses by the students Courses Listed in the Swayam-NPTEL should be added in the professional electives in Curriculum 2021

AC 5.15.9 Provision shall be given to undergo Project in the industry.

The details are given in Regulation 2021 vide clause 11.2.2 (Page 23)


Prepared by

DAVID AYLING J
Asso. Prof/ English

Approved by


10/8/21
Dr. V. VELMURUGAN

Principal & Chairman

Academic Council

Francis Xavier Engineering College