Agenda and Minutes of the
34th Meeting of the Academic council
28th November 2022

Government College of Technology
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Coimbatore - 641013

GOVERNMENT COLLEGE OF TECHNOLOGY, COIMBATORE- 641 013

(An Autonomous Institution Affiliated to Anna University, Chennai)

34th MEETING OF THE ACADEMIC COUNCIL

Lr. No. GCT/AUT/ACM-34/MEETING/2022, Date : 17.11.2022.

Dear Sir / Madam,

Sub : Government College of Technology, Coimbatore - 34th meeting
of the Academic Council on 28.11.2022 - Intimation - Reg.

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It is informed that the 34th meeting of the Academic Council of Government College of Technology, Coimbatore is scheduled on 28.11.2022 (Monday), at 10.00 AM in the Office of the Controller of Examinations, Annexure Building of our College.

All the members are requested to make it convenient to attend the meeting.

The tentative agenda for the meeting is enclosed.

The outstation members are eligible for TA and DA as per the norms.

Yours Sincerely

Dr. P.THAMARAI 17/11/2022

PRINCIPAL & CHAIRMAN / ACADEMIC COUNCIL

Encl : Agenda Items   17.11.22

To

1. All the members of the Academic Council (as per list enclosed)
2. Controller of Examinations - Member Secretary for n.a
3. Controller of Examinations - Office file
4. Academic file -with steno
5. Standing Committee file -with steno

ITEM Nos.	PARTICULARS
ITEM : 34.1	Confirmation of the minutes of the 33rd meeting of the Academic Council held on 10.03.2022.
ITEM : 34.2	Review of the Academic Performance - I : Abstract of results of Autonomous Examinations held during Nov/ Dec 2021, April / May 2022 and August 2022.
ITEM : 34.3	Review of the Academic Performance - II : List of candidates for the award of degree - Autonomous Examinations held during Nov/ Dec 2021, April / May 2022 and August 2022.
ITEM : 34.4	To consider and ratify the recommendation of the Standing Committee towards: i) Withdrawal of courses. ii) Break of Study. iii) Readmission candidates. iv) Transferred candidates. v) Credit transfer of SWAYAM Courses. vi) Online Internship and Industrial training. vii) Nov / Dec 2021 and Feb 2022 Online Examinations: Late submission of Soft Copy of the answer scripts.
ITEM : 34.5	To consider and ratify amendments in 2012 Part time B.E. and 2018 M.E. Regulations for the students admitted from the academic year 2021 - 2022 onwards.
ITEM : 34.6	To consider and ratify the changes in Regulations, Curricula and Syllabi of 2018 Regulations: i) B.E. Civil Engineering: • Revision of PEOs and PSOs. • Revision of Course Articulation Matrices. • Inclusion of Value Added Courses. ii) B.E Mechanical Engineering: • Removal of an Open Elective course. • Inclusion of Value Added Courses. iii) B.E Electrical and Electronics Engineering: • Revision of Course Articulation Matrices. • Inclusion of Industry based Elective Courses. • Inclusion of Value Added Courses. iv) B.E Electronics and Communication Engineering: • Inclusion of Employability Enhancement Courses. • Inclusion of Value Added Courses. V) B.E Production Engineering: • Inclusion of Value Added Courses. Vi) B.E Electronics and Instrumentation Engineering: • Revision of Mission. • Revision of Course Articulation Matrices. • Inclusion of Industry based Elective Courses. • Inclusion of Value Added Courses.

ITEM Nos.	PARTICULARS

ITEM : 34.6	vii) B.E Computer Science and Engineering:
	   • Inclusion of Employability Enhancement Courses.
	   • Inclusion of Value Added Courses.
	viii) B.Tech . Information Technology:
	   • Renaming of Professional Elective Courses.
	   • Removal of Pre-Requisites for the Professional Elective Courses.
	   • Inclusion of Employability Enhancement Courses.
	   • Inclusion of Value Added Courses.
	ix) B.Tech . Industrial Biotechnology:
	   • Inclusion of Value Added Courses.

ITEM : 34.7	i) To consider and ratify changes in 2018 Regulations (Regulations 2018A) for the students admitted in the Academic Year 2021-2022.
	   • Introduction of Research Publications.
	   • Evaluation Methods and Award of Letter Grades.
	ii) To discuss and approve the changes in 2018 Regulations (Regulations 2018 A) for the students admitted in the Academic Year 2021-2022.
	   • Restriction on number of SWAYAM courses considered for credit transfer.
	   • Eligibility for Advancement of Courses.
	   • Introduction of UG Honors / Honors with specialization / Minor degree.
	   • Honors / Honors with specialization / Minor degree - Verticals.

ITEM : 34.8	To consider and ratify Ph.D Course Work courses of Regulations 2018 and 2018A.
ITEM : 34.9	To consider and ratify the two level Question Paper Scrutiny process of End Semester Examinations.
ITEM : 34.10	To consider and ratify the pattern of Question Paper Paper (Continuous Assessment Test) for 2021 batch students of Regulations 2018A and 2021 and 2022 batch students of Regulations 2012 and 2018 PG.
ITEM : 34.11	To discuss and approve the 2022 Regulations and Key Performance Indicators of UG Programmes.
ITEM : 34.12	To discuss and approve the First year curricula and syllabi of UG 2022 Regulations.
ITEM : 34.13	To discuss and approve the examinations reforms to be implemented in the UG Regulations 2022.
ITEM : 34.14	To consider and ratify the relaxation of number of theory courses applied for Revaluation.
ITEM : 34.15	To consider and ratify the Finance Committee Minutes held on 30.08.2022.

ITEM : 34.16	Any other matter:
	i) Regulations 2022 of UG Programmes:
	   • Introduction of CDIO Courses.
	   • Introduction of Comprehensive Examinations.
	ii) Regulations 2023 of PG Programmes:
	   • Open Book Examinations.
	iii) Others.

34th Academic Council Meeting 28th November 2022 - Attendance

S.No	NAME	DESIGNATION	SIGNATURE
1	Dr. P. Thamarai	Principal & Chairperson	P. Th 28/11/22
2	Dr. R. Thenmozhi	HOD / B.E. Civil Engg. - Full Time & Part Time, M.E. Structural Engg. & Geotechnical Engg / Chairperson BOS in Civil Engg. & COE	RThen 28.11.22
3	Dr. J. Jeyanthi	HOD/M.E.Environmental Engg/ Chairperson BOS in Environmental Engg.	28/11/22
4	Dr.K.Ramesh	HOD/ B.E. Mechanical Engg. - Full Time & Part Time, M.E.Thermal Engg./Chairman BOS in Mechanical Engg.	28/11/2022
5	Dr.N.Nandakumar	HOD/ M.E. Engg. Design / Chairman BOS in Engg. Design	28/11/2022
6	Dr.T.Sekar	HOD/ M.E. Manufacturing Engg./Chairman BOS in Manufacturing Engg.	28/11/2022
7	Dr. V.Gopalakrishnan	HOD/B.E. EEE- Full Time & Part Time, M.E. Power Systems Engg., & Power Electronics and Drives / Chairman BOS in EEE	28/11/22
8	Dr. C. Vasanthanayaki	HOD/M.E. Applied Electronics and VLSI Design / Chairperson BOS in M.E. Applied Electronics & VLSI Design	C.V 28/11/22
9	Dr. C.Santhi	HOD/B.E. ECE-Full Time & Part Time, Chairperson BOS in ECE	28/11/22
10	Dr.S.Srinivasa Moorthy	HOD / B.E. Production Engg./ Chairman BOS in Production Engg.	28/11/2022
11	Dr.V. Prasanna Moorthy	HOD / B.E. EIE / Chairman BOS in EIE	28/11/2022
12	Dr.J.C.Miraclin Joyce Pamila	HOD/B.E. & M.E. CSE / Chairperson BOS in CSE	28/11/2022
13	Dr.S.Rathi	HOD/B.Tech. IT / Chairperson BOS in IT & DCOE	28/11/22

34th Academic Council Meeting 28th November 2022 - Attendance

S.No	NAME	DESIGNATION	SIGNATURE
14	Dr. J. Jeyanthi	HOD/B.Tech. IBT / Chairperson BOS in IBT	
15	Prof. R. Rajendran	HOD / Maths & English /Chairman BOS in Basic Sciences and Humanities	
16	Dr. C. Sivasankari	HOD / Chemistry	
17	Prof. G. Ravindra Devi Revathy	HOD / Physics	
18	Dr.C.Meiaraj	Professor (CAS)/ Civil Engg.	
19	Dr. B. Rajeswari	Asst.Prof. /Mechanical Engg.	
20	Dr.N.Narmadhai	Professor (CAS)/EEE	
21	Dr.O.Saraniya	Asso.Prof. (CAS)/ ECE	
22	Dr.P.Ilamathi	Asst. Professor/ Prodn. Engg.	
23	Dr. A.S. Wincy Pon Annal	Asst.Prof./ EIE	
24	Dr.M.Kumar	Asst. Prof / Civil Engg. & ACOE	
25	Dr.T.Suguna	Asst. Prof / IT & ACOE	
26	Dr. C. Muthukumaran	Asst. Prof. / IBT & ACOE	
27	Dr. M. Muthuchelvam	Asst. Prof. / Maths & ACOE	

34th Academic Council Meeting 28th November 2022 - Attendance

S.No	NAME & ADDRESS	DESIGNATION	SIGNATURE
1	Dr. P.Indumathi Professor Department of Electronics Engg. MIT Campus,Anna University, Chennai – 600 044,	University Nominee	– Absent –
2	Dr. S.Velmathi Professor Department of Chemistry National Institute of Technology Trichy- 620 015	University Nominee	*(signed)* 28/11/2022
3	Dr. J. Sreerambabu Vice Principal Thanthai Periyar Government Institute of Technology, Vellore – 632 002	University Nominee	*(signed)* 28/11/22
4	Dr. S.Baskar Professor of EEE & Dean (R & D) Thiagarajar College of Engineering Madurai – 625 015	Academic Expert	– Absent –
5	Dr.G.Janardhanan, Professor and Head Centre for Environment Management, NITTTR – Chennai - 600 113	Academic Expert	*(signed)* 28/X/22
6	Dr. S. Parivallal, Ph.D. FIE Chief Scientist and Head Fatigue and Fracture Laboratory CSIR - Structural Engineering Research Centre (CSIR–SERC) Taramani – Chennai – Tamil Nadu	Industry Expert	*(signed)* 28/11/22
7	Mr. N.Senthilvelan, Global Head AI platform solutions Tata consultancy services Siruseri, Chennai, Tamilnadu	Industry Expert	*(signed)*

34th Academic Council Meeting 28th November 2022 - Attendance

S.No	NAME OF THE STUDENT	BRANCH	DESIGNATION	SIGNATURE
1	Mr.P.Pavithran Reg. No. 1911168	Civil Engg.	Student Member	
2	Mr.S.Kapil Varadhan Reg. No : 1912140	Mechanical Engg	Student Member	
3	Mr.Srihari. P Reg. No:1913147	EEE	Student Member	
4	Ms. Karishma B B Reg. No.1914119	ECE	Student Member	
5	Ms.S.Varshini Reg. No. 1915145	PRODUCTION	Student Member	
6	Mr.K. Vishal Reg. No 1916L12	EIE	Student Member	
7	Ms. S. A. Akshaya Raj Reg. no. 1917104	CSE	Student Member	
8	Mr. Kamalahasan A Reg. No. 1918L07	IT	Student Member	
9	Ms.Harshitha Devi K Reg. No. 1919126	IBT	Student Member	

34th Academic Council Meeting 28th November 2022 - Attendance

S.No	NAME & ADDRESS	DESIGNATION	SIGNATURE
1	Dr. P.Indumathi Professor Department of Electronics Engg. MIT Campus,Anna University, Chennai – 600 044	University Nominee	– Absent –
2	Dr. S.Velmathi Professor Department of Chemistry National Institute of Technology Trichy- 620 015	University Nominee	*(signed)* 28/11/2022
3	Dr. J. Sreerambabu Vice Principal Thanthai Periyar Government Institute of Technology, Vellore – 632 002	University Nominee	*(signed)* 28/11/22
4	Dr. S.Baskar Professor of EEE & Dean (R & D) Thiagarajar College of Engineering Madurai – 625 015	Academic Expert	– Absent –
5	Dr.G.Janardhanan, Professor and Head Centre for Environment Management, NITTTR – Chennai - 600 113	Academic Expert	*(signed)* 28/X/22
6	Dr. S. Parivallal, Ph.D. FIE Chief Scientist and Head Fatigue and Fracture Laboratory CSIR - Structural Engineering Research Centre (CSIR–SERC) Taramani – Chennai – Tamil Nadu	Industry Expert	*(signed)* 28/11/22
7	Mr. N.Senthilvelan, Global Head AI platform solutions Tata consultancy services Siruseri, Chennai, Tamilnadu	Industry Expert	*(signed)*

WELCOME ADDRESS AND INTRODUCTORY REMARKS BY THE CHAIRPERSON

The Principal and Chairperson welcomed all the Academic Council Members and briefed agenda to be discussed with the introduction of all the members.

ITEM 34.1	CONFIRMATION OF THE MINUTES OF THE 33rd MEETING OF THE ACADEMIC COUNCIL HELD ON 10.03.2022

The minutes of the 33rd meeting of the academic council held on 10.03.2022 is confirmed.

ITEM 34.2	REVIEW OF THE ACADEMIC PERFORMANCE - I

The Academic Council reviewed and resolved to ratify the abstract of the results of Autonomous Examinations held during the periods as given below brought forward by the Controller of Examinations.

1.Nov / Dec 2021 - B.E. / B.Tech. / M.E. Examinations (FT & PT)

2.April / May 2022 - B.E. / B.Tech. / M.E. Examinations (FT & PT)

3.August 2022 - Special Examinations for Extension students

(Copies of ANNEXURE : 34.2A were placed before the Academic council for reference and verification.)

ITEM 34.3	REVIEW OF THE ACADEMIC PERFORMANCE - II

The Academic Council reviewed and resolved to ratify the list of candidates who have been recommended for the award of degree consequent to the Examinations held during the periods as given below brought forward by the Controller of Examinations.

S. No.	PERIOD OF EXAMINATIONS	NO. OF STUDENTS REGISTERED				NO. OF STUDENTS RECOMMENDED FOR THE AWARD OF DEGREE			
		UG		PG	TOTAL	UG		PG	TOTAL
		FT	PT			FT	PT		
1	NOV / DEC 2021	14	96	7	117	12	96	7	115
2	April / May 2022	738	Nil	118	856	736	Nil	117	853
3	August 2022	1	3	Nil	4	0	0	Nil	0
	TOTAL/PERCENTAGE	753	99	125	977	748 (99%)	96 (97%)	124 (99%)	968 (99%)

ITEM : 34.4	To consider and ratify the recommendation of the Standing Committee towards: i) Withdrawal of Courses. ii) Break of Study. iii) Readmission candidates. iv) Transferred candidates. v) Credit transfer of SWAYAM Courses. vi) Online Internship and Industrial training. vii) Nov / Dec 2021 and Feb 2022 Online Examinations: Late submission of Soft Copy of the answer scripts.

i) Withdrawal of Courses.

The Academic council reviewed and resolved to ratify the decision of standing committee on courses withdrawal from the end semester Nov / Dec 2021 and April / May 2022 Examinations by the students, brought forward by the Controller of Examinations.

(Copies of ANNEXURE : 34.4.1A pertaining to the minutes of 6th standing committee was placed before the Academic council for reference and verification)

ii) Break of Study.

The Academic Council discussed and resolved to ratify the break of study of the students during the Academic year 2021-2022 and 2022-2023, brought forward by the Controller of Examinations.

(Copies of ANNEXURE : 34.4.2A pertaining to the minutes of 6th standing committee was placed before the Academic council for reference and verification)

iii) Readmission candidates.

The Academic council discussed and resolved to ratify **the readmission of the candidates discontinued and rejoined in the Academic Years 2021 - 2022 and 2022 - 2023,** brought forward by the Controller of Examinations.

(Copies of ANNEXURE : 34.4.3A pertaining to the minutes of 6th standing committee was placed before the Academic council for reference and verification)

iv) Transferred candidates.

The Academic council discussed and resolved to ratify the details of additional / exempted courses for the candidates transferred to GCT in the academic year 2020 - 2021 and 2022 - 2023, brought forward by the Controller of Examinations.

(Copies of ANNEXURE : 34.4.4A pertaining to the minutes of 6th standing committee was placed before the Academic council for reference and verification)

v) Credit transfer of SWAYAM Courses.

The Academic council reviewed and resolved to ratify the credit transfer of "Online courses / SWAYAM courses" studied by the candidates during the academic year 2021 - 2022 and 2022 - 2023, brought forward by the Controller of Examinations.

(Copies of ANNEXURE : 34.4.5A pertaining to the minutes of 6th standing committee was placed before the Academic council for reference and verification)

vi) Online Internship and Industrial training.

The Academic Council discussed and resolved to ratify the "Online internship" & "Online Industrial Training" attended by the candidates during the academic years 2021 – 2022, brought forward by the Controller of Examinations.

(Copies of ANNEXURE : 34.4.6A pertaining to the minutes of 6th standing committee was placed before the Academic council for reference and verification)

vii) Nov / Dec 2021 and Feb 2022 Online Examinations: Late submission of Soft Copy of the answer scripts.

The Academic Council discussed and resolved to ratify the recommendation of the standing committee towards the late submission of soft copy of the answer scripts and the marks scored by the students to be considered for the publishing the results, brought forward by the Controller of Examinations.

(Copies of ANNEXURE : 34.4.7A pertaining to the minutes of 2nd standing committee was placed before the Academic council for reference and verification)

ITEM : 34.5	To consider and ratify amendments in 2012 Part time B.E. and 2018 M.E. Regulations for the students admitted from the academic year 2021 - 2022 onwards.

With reference to the letter No : 4041/AU/CAC/Rel. Grading/2022, dt: 25.06.2022, the evaluation method consists of the norms for the award of marks for internal and end semester examinations of all types of course, passing requirements, relative grading and award of letter grades and classifications of degree shall be followed as per the details provided in **Annexure 34.5A**, for the evaluation and passing of results for all UG/PG students who have joined from the academic year 2021-2022 onwards and the same is amended in 2012 Part Time B.E. and 2018 M.E. Regulations.

After discussion , the Academic Council resolved to ratify the amendments in 2012 Part time B.E. and 2018 M.E. Regulations for the students admitted from the academic year 2021 - 2022 onwards.

(Copies of ANNEXURE : 34.5A was placed before the 34th Academic Council for reference and verification.)

ITEM : 34.6	To consider and ratify the changes in Regulations, Curricula and Syllabi of 2018 and 2018A Regulations : **i) B.E. Civil Engineering:** • Revision of PEOs and PSOs. • Revision of Course Articulation Matrices. • Inclusion of Value Added Courses. **ii) B.E Mechanical Engineering:** • Removal of an Open Elective course. • Inclusion of Value Added Courses. **iii) B.E Electrical and Electronics Engineering:** • Revision of Course Articulation Matrices. • Inclusion of Industry based Elective Courses. • Inclusion of Value Added Courses. **iv) B.E Electronics and Communication Engineering:** • Inclusion of Employability Enhancement Courses. • Inclusion of Value Added Courses. **v) B.E Production Engineering:** • Inclusion of Value Added Courses. **vi) B.E Electronics and Instrumentation Engineering:** • Revision of Mission. • Revision of Course Articulation Matrices. • Inclusion of Industry based Elective Courses. • Inclusion of Value Added Courses. **vii) B.E Computer Science and Engineering:** • Inclusion of Employability Enhancement Courses. • Inclusion of Value Added Courses. **viii) B.Tech . Information Technology:** • Renaming of Professional Elective Courses. • Removal of Pre-Requisites for the Professional Elective Courses. • Inclusion of Employability Enhancement Courses. • Inclusion of Value Added Courses. **ix) B.Tech . Industrial Biotechnology:** • Inclusion of Value Added Courses.

34.6.1 F.T. B.E. CIVIL ENGINEERING

34.6.1.1 Revision of PEOs and PSOs

To consider the recommendations of the BOS of Civil Engineering to revise the Programme Educational Objectives (PEOs) and Programmes Specific Outcomes (PSOs) in 2018 Regulations of Full Time B.E. Civil Engineering.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)
PEO1: To produce competent Engineers to achieve a high level of technical expertise for the development of sustainable infrastructure.
PEO2: To prepare the graduates to be a part of an organization or entrepreneur or researcher for adopting towards emerging technologies.
PEO3: To inculcate among the students the sense of ethics, moral values, professionalism and leadership with social concern.
PROGRAMME SPECIFIC OUTCOMES (PSOs)
PSO1: Graduates will be able to design and execute various buildings and infrastructure projects in a sustainable manner.
PSO2: Graduates will be able to excel in their professional career and development in research and innovation.
PSO3: Graduates will be able to give solution for the complex Civil Engineering problems with professional ethics, leadership and good communication capabilities.

After discussion , the Academic Council resolved to ratify the revision of PEOs and PSOs in 2018 and 2018A Regulations.

34.6.1.2 Revision of Course Articulation matrices

To consider the recommendations of the BOS of Civil Engineering to revise the course articulation matrices of 2018 Regulations B.E. Civil Engineering as given in the Annexure 34.6.1.2A

After discussion , the Academic Council resolved to ratify the revision of course articulation matrices in 2018 and 2018A Regulations.

(Copies of ANNEXURE : 34.6.1.2A was placed before the 34th Academic Council for reference and verification.)

34.6.1.3 Inclusion of Value Added Courses.

To consider the recommendations of the BOS of Civil Engineering to include the value added courses from "Naan Mudhalvan scheme".

SNO	SEMESTER	COURSE CODE	COURSE TITLE	CATEGORY	CREDITS	REMARKS
1	III	18CVA$04	Microsoft Office Fundamentals	VA	2	With effect from the academic year 2022 - 2023 onwards
2	V	18CVA$05	Building Information Modelling	VA	2	
3		18CVA$06	Transportation Infrastructure-Airports, Metros & Seaports	VA	2	
4	VII	18CVA$07	High Rise Building	VA	2	
5		18CVA$08	Design and construction of Steel buildings	VA	2	

After discussion , the Academic Council resolved to ratify the inclusion of above Value Added Courses from "Naan Mudhalvan Scheme" under 2018 and 2018A Regulations.

34.6.2 F.T. B.E. MECHANICAL ENGINEERING
34.6.2.1 Removal of an Open Elective course

To consider the recommendations of the BOS of Mechanical Engineering to remove the following Open Elective course from the list of Open Electives.

REMOVED COURSE TITLE	REMARKS
18MOE$06 Renewable Energy Sources	The course content is same as 18EOE$07 Renewable Power Generation Systems

After discussion , the Academic Council resolved to ratify the above changes in the syllabus for 2018 Regulations

This comes into effect from the Academic year 2022-2023 onwards under 2018 and 2018A Regulations

34.6.2.2 Inclusion of Value Added Courses.

To consider the recommendations of the BOS of Mechanical Engineering to include the value added courses from "Naan Mudhalvan scheme".

SNO	SEMESTER	COURSE CODE	COURSE TITLE	CATEGORY	CREDITS	REMARKS
1	III	18MVA$11	Microsoft Office Fundamentals	VA	2	With effect from the academic year 2022 - 2023 onwards
2	V	18MVA$12	Powering IoT using Rashberry Pi or arduyno	VA	2	
3		18MVA$14	Machine Learning	VA	2	
4	VI	18MVA$13	Robotics simulation for Manufacturing	VA	2	
5	VII	18MVA$10	Industry 4.0	VA	2	
6		18MVA$15	Electric Vehicles	VA	2	

After discussion , the Academic Council resolved to ratify the inclusion of above Value Added Courses from "Naan Mudhalvan Scheme" under 2018 and 2018A Regulations.

34.6.3 F.T. B.E. ELECTRICAL AND ELECTRONICS ENGINEERING

34.6.3.1 Revision of Course Articulation matrices

To consider the recommendations of the BOS of Electrical and Electronics Engineering to include the correction in Course Articulation Matrix under 2018 Regulations as per the ANNEXURE **34.6.3.1A**

(Copy of ANNEXURE : 34.6.3.1A pertaining to the Course Articulation matrices was placed before the Academic council for reference and verification.)

After discussion , the Academic Council resolved to ratify the Course Articulation Matrices in 2018 and 2018A Regulations.

34.6.3.2 Inclusion of Industry based Elective.

To consider the recommendations of the BOS of Electrical and Electronics Engineering to include the following industry based elective courses.

S.NO	COURSE CODE	COURSE TITLE	REMARKS
1	18EPE$27	ELECTRONIC CIRCUIT DESIGN	With effect from the academic year 2022 - 2023 onwards
2	18EPE$28	ELECTRONIC SYSTEM DESIGN AND PRODUCTIZATION	

After discussion , the Academic Council resolved to ratify the inclusion of Industry based electives in 2018 and 2018A Regulations.

34.6.3.3 Inclusion of Value Added Courses.

To consider the recommendations of the BOS of Electrical and Electronics Engineering to include the value added courses from "Naan Mudhalvan scheme".

SNO	SEMESTER	COURSE CODE	COURSE TITLE	CATEGORY	CREDITS	REMARKS
1	V	18EVA$11	AR/VR Development	VA	2	With effect from the academic year 2022 - 2023 onwards
2		18EVA$12	IoT	VA	2	
3	V / VII	18EVA$13	Electric Vehicle Charging System	VA	2	
4		18EVA$14	Smart Energy Grid	VA	2	
5		18EVA$15	Machine Learning	VA	2	
6	VII	18EVA$16	Industry 4.0	VA	2	
7	III	18EVA$17	Microsoft Office Fundamentals	VA	2	

After discussion , the Academic Council resolved to ratify the inclusion of above Value Added Courses from "Naan Mudhalvan Scheme" under 2018 and 2018A Regulations.

34.6.4 F.T. B.E. ELECTRONICS AND COMMUNICATION ENGINEERING

34.6.4.1 Inclusion of Employability Enhancement Courses.

To consider the recommendations of BOS of Electronics and Communication Engineering to include the course "PROFESSIONAL READINESS FOR INNOVATION, EMPLOYABILITY AND ENTREPRENEURSHIP" under EEC category in 2018 Regulations as per the directions received from ICT Academy and Anna University, Chennai

The above amendments comes into effect for the students admitted from the Academic year 2019 - 2020 onwards covered under 2018 and 2018A Regulations.

After discussion , the Academic Council resolved and ratify the inclusion of Employability Enhancement Courses.

34.6.4.2 Inclusion of Value Added Courses.

To consider the recommendations of the BOS of Electronics and Communication Engineering to include the following courses from "Naan Mudhalvan scheme".

SNO	SEMESTER	COURSE CODE	COURSE TITLE	CATEGORY	CREDITS	REMARKS
1	V	18LVA$21	IoT	VA	2	With effect from academic year 2022 - 2023 onwards
2		18LVA$22	AR/VR	VA	2	
3		18LVA$23	Cloud Essentials	VA	2	
4		18LVA$24	Cyber Security	VA	2	
5		18LVA$25	Big Data	VA	2	
6	III	18LVA$26	Microsoft Office Fundamentals	VA	2	

After discussion , the Academic Council resolved to ratify the inclusion of above courses from "Naan Mudhalvan scheme" under 2018 and 2018A Regulations

34.6.5 F.T. B.E. PRODUCTION ENGINEERING
34.6.5.1 Inclusion of Value Added Courses.

To consider the recommendations of the BOS of Production Engineering to include the following courses from "Naan Mudhalvan scheme".

SNO	SEMESTER	COURSE CODE	COURSE TITLE	CATEGORY	CREDITS	REMARKS
1	III	18PVA$23	Microsoft Office Fundamentals	VA	2	With effect from academic year 2022 - 2023 onwards
2	V	18PVA$20	IoT	VA	2	
3	V/VII	18PVA$18	Machine Learning	VA	2	
4		18PVA$19	Electric Vehicle	VA	2	
5		18PVA$21	Robotics Simulation for Manufacturing	VA	2	
6	VII	18PVA$22	Industry 4.0	VA	2	

After discussion , the Academic Council resolved to ratify the inclusion of above courses from "Naan Mudhalvan scheme" under 2018 and 2018A Regulations

34.6.6 F.T. B.E. ELECTRONICS AND INSTRUMENTATION ENGINEERING
34.6.6.1 Revision of Mission statements

To consider the recommendations of the BOS of Electronics and Instrumentation Engineering to revise the mission statements as given below:

Educate and equip the students with strong theoretical foundations blended with practical Engineering skills through effective teaching learning methodologies.

Provide students with employability and entrepreneurship skills through Industry - Institute Interaction.

Encourage students to participate in societal research projects that emphasize critical thinking, teamwork and communication skills.

Imbibe students with high professional and ethical standards through continuous learning and professional activities.

11

After discussion, the Academic Council resolved to ratify the inclusion of Mission statements in 2018 and 2018A Regulations.

34.6.6.2 Revision of Course Articulation Matrices.

To consider the recommendations of the BOS of Electronics and Instrumentation Engineering to revise the Course Articulation Matrices of 2018 Regulations B.E. EIE as given in the Annexure 34.6.6.2A.

After discussion, the Academic Council resolved to ratify the revision of Course Articulation Matrices in 2018 and 2018A Regulations.

(Copies of ANNEXURE - 34.6.6.2A was placed before the 34th Academic Council for reference and verification.)

34.6.6.3 Inclusion of Industry based Elective Courses.

To consider the recommendations of the BOS of Electronics and Instrumentation Engineering to include the following industry based elective courses.

S.NO	COURSE CODE	COURSE TITLE	REMARKS
1	18NPE$30	ELECTRONIC CIRCUIT DESIGN	With effect from the academic year 2022 - 2023 onwards
2	18NPE$31	ELECTRONIC SYSTEM DESIGN AND PRODUCTIZATION	

After discussion, the Academic Council resolved to ratify the inclusion of Industry based electives in 2018 and 2018A Regulations.

34.6.6.4 Inclusion of Value Added Courses.

To consider the recommendations of the BOS of Electronics and Instrumentation Engineering to include the following courses from "Naan Mudhalvan scheme".

SNO	SEMESTER	COURSE CODE	COURSE TITLE	CATEGORY	CREDITS	REMARKS
1	V	18NVA$05	Internet of Things	VA	2	With effect from the academic year 2022 - 2023 onwards
2		18NVA$06	Augumented Reality / Virtual Reality	VA	2	
3		18NVA$07	Cloud Essentials	VA	2	
4		18NVA$08	Cyber Security	VA	2	
5		18NVA$09	Big Data	VA	2	
6	III	18NVA$10	Microsoft Office Fundamentals	VA	2	

After discussion, the Academic Council resolved to ratify the inclusion of above courses from "Naan Mudhalvan scheme" under 2018 and 2018A Regulations.

34.6.7 F.T. B.E. COMPUTER SCIENCE AND ENGINEERING

34.6.7.1 Inclusion of Employability Enhancement Courses.

To consider the recommendations of BOS of Computer Science and Engineering to include the course "PROFESSIONAL READINESS FOR INNOVATION, EMPLOYABILITY AND ENTREPRENEURSHIP" under EEC category in 2018 Regulations as per the directions received from ICT Academy and Anna University, Chennai

The above amendments come into effect for the students admitted from the Academic year 2019 - 2020 onwards covered under 2018 and 2018A Regulations.

After discussion , the Academic Council resolved and ratify the inclusion of Employability Enhancement Courses.

34.6.7.2 Inclusion of Value Added Courses.

To consider the recommendations of the BOS of Computer Science and Engineering to include the following courses from "Naan Mudhalvan scheme".

SNO	SEMESTER	COURSE CODE	COURSE TITLE	CATEGORY	CREDITS	REMARKS
1	V /VII	18SVA$02	Machine learning with application to object recognition	VA	2	With effect from the academic year 2022 - 2023 onwards
2		18SVA$03	AR / VR	VA	2	
3		18SVA$04	Cloud Essentials	VA	2	
4		18SVA$05	Big Data	VA	2	
5		18SVA$06	Full Stack	VA	2	
6	III	18SVA$07	Microsoft Office Fundamentals	VA	2	

After discussion , the Academic Council resolved to ratify the inclusion of above courses from "Naan Mudhalvan scheme" under 2018 and 2018A Regulations.

34.6.8 F.T. B.Tech. INFORMATION TECHNOLOGY

34.6.8.1 Renaming of Professional Elective

To consider the recommendations of the BOS of Information Technology to rename the following Professional Elective course in 2018 Regulations

EXISTING COURSE TITLE	RENAMED COURSE TITLE
18IPE$14 - Soft Computing	18IPE$14 - Soft Computing and its Applications

After discussion , the Academic Council resolved to ratify the above in 2018 and 2018A Regulations.

34.6.8.2 Removal of Pre-Requisites for the Professional Elective courses

To consider the recommendations of the BOS of Information Technology to remove the Pre-requisites of the following Professional Elective courses

SNO	COURSE CODE	COURSE TITLE
1	18IPE$01	DATA MINING AND DATA WAREHOUSING
2	18IPE$04	SOFTWARE PROJECT MANAGEMENT
3	18IPE$05	SOFTWARE QUALITY ASSURANCE
4	18IPE$09	EMBEDDED SYSTEM
5	18IPE$10	CLOUD COMPUTING
6	18IPE$11	ADVANCED DATA STRUCTURES
7	18IPE$13	DISTRIBUTED SYSTEMS
8	18IPE$15	XML AND WEB SERVICES
9	18IPE$18	VIRTUALIZATION TECHNIQUES
10	18IPE$19	FUNDAMENTALS OF AUTOMATA THEORY
11	18IPE$26	FOUNDATIONS OF IMAGE PROCESSING
12	18IPE$28	SOFTWARE DEFINED NETWORKING

After discussion, the Academic Council resolved to ratify the removal of Pre-Requisites of the above Professional Elective courses under 2018 and 2018A Regulations.

34.6.8.3 Inclusion of Employability Enhancement Courses.

To consider the recommendations of BOS of Information Technology to include the course "PROFESSIONAL READINESS FOR INNOVATION, EMPLOYABILITY AND ENTREPRENEURSHIP" under EEC category in 2018 Regulations as per the directions received from ICT Academy and Anna University, Chennai

The above amendments come into effect for the students admitted from the Academic year 2019 - 2020 onwards covered under 2018 and 2018A Regulations.

After discussion , the Academic Council resolved and ratify the inclusion of Employability Enhancement Courses.

34.6.8.4 Inclusion of Value Added Courses.

To consider the recommendations of the BOS of Information Technology to include the following courses from "Naan Mudhalvan scheme".

SNO	SEMESTER	COURSE CODE	COURSE TITLE	CATEGORY	CREDITS	REMARKS
1	V / VII	18IVA$13	Machine learning with application to object recognition	VA	2	With effect from the academic year 2022 - 2023 onwards
2		18IVA$14	AR / VR	VA	2	
3		18IVA$15	Cloud Essentials	VA	2	
4		18IVA$16	Big Data	VA	2	
5		18IVA$17	Full Stack	VA	2	
6	III	18IVA$18	Microsoft Office Fundamentals	VA	2	

After discussion , the Academic Council resolved to ratify the inclusion of above courses from "Naan Mudhalvan scheme" under 2018 and 2018A Regulations.

34.6.9 F.T. B.Tech. INDUSTRIAL BIOTECHNOLOGY
34.6.9.1 Inclusion of Value Added Courses.

To consider the recommendations of the BOS of Industrial Biotechnology to include the following courses from "Naan Mudhalvan scheme".

SNO	SEMESTER	COURSE CODE	COURSE TITLE	CATEGORY	CREDITS	REMARKS
1	V / VII	18BVA$03	Machine Learning	VA	2	With effect from the academic year 2022 - 2023 onwards
2	III	18BVA$04	Microsoft Office Fundamentals	VA	2	

After discussion , the Academic Council resolved to ratify the inclusion of above courses from "Naan Mudhalvan scheme" under 2018 and 2018A Regulations.

ITEM : 34.7	i) To consider and ratify changes in 2018 Regulations (Regulations 2018A) for the students admitted in the Academic Year 2021-2022. • Introduction of Research Publications. • Evaluation Methods and Award of Letter Grades.

34.7.1.1 Introduction of Research Publications.

A student with minimum CGPA of 7.5 and without history of arrears can register for the Research Publication. Number of credits for this course is 2. A Maximum of two students can form a team and register for this course at the beginning of the fourth semester under the guidedance of Faculty Member(s). The outcome of the course is a publication in SCI/SCI expanded/SCOPUS indexed/UGC Care list. Grade for the publication shall be awarded as

S.No.	Category of Journal	Grade
1.	One Research Publication in SCI/SCI-Expanded Journal	O
2.	One Research Publication in SCOPUS indexed Journal	A+
3.	One Research Publication in UGC Care list Journal	A

This Research Publication shall be considered under Value Added course category. The Research Article should be successfully published (acceptance/communication shall not be considered) by the student(s) in the above mentioned Journals before the registration for the VIII semesters, failing which the registration for the Research Publication shall be cancelled.

After discussion, the Academic Council resolved to approve the same in Regulations 2018A.

34.7.1.2 Evaluation Methods and Award of Letter Grades.

With reference to the letter No : 4041/AU/CAC/Rel. Grading/2022, dt: 25.06.2022, the evaluation method consists of the norms for the award of marks for internal and end semester examinations of all types of course, passing requirements, relative grading and award of letter grades and classifications of degree shall be followed as per the details provided in **Annexure 34.7.1.2A**, for the evaluation and passing of results for all UG students who have joined from the academic year 2021-2022 onwards and the same is amended in Full Time B.E. Regulations 2018A.

After discussion, the Academic Council resolved to ratify the same in Full Time B.E. / B.Tech. Regulations 2018A.

*(Copies of **ANNEXURE - 34.7.1.2A** was placed before the 34th Academic Council for reference and verification.)*

ITEM : 34.7	ii) To discuss and approve the changes in 2018 Regulations (Regulations 2018A) for the students admitted in the Academic Year 2021-2022. • Restriction on number of SWAYAM courses considered for credit transfer. • Eligibility for Advancement of Courses. • Introduction of UG Honors / Honors with specialization / Minor degree. • Honors / Honors with specialization / Minor degree - Verticals.

34.7.2.1 Restriction on number of SWAYAM courses considered for credit transfer.

CLAUSE	EXISTING	RECOMMENDED
4.7.1	The student has to register for the credit transfer of the online course during the course registration. The online course(s) which is/are successfully completed by the student in a particular EVEN/ODD semester during the course of study is/are eligible for credit transfer in the immediate next ODD/EVEN or next EVEN/ODD semester (i.e. an online course is eligible for credit transfer for two subsequent semesters). **If the student is willing, he/she will be permitted to replace all the elective courses with the online courses, subject to the maximum of 20% of the total credits of the programme**	The student has to register for the credit transfer of the SWAYAM online course during the course registration. The online course(s) which is/are successfully completed by the student in a particular EVEN/ODD semester during the course of study is/are eligible for credit transfer in the immediate next ODD/EVEN semester. **The student is permitted to replace maximum of two elective courses with the SWAYAM courses.**

34.7.2.2 Eligibility for Advancement of Courses.

CLAUSE	EXISTING	RECOMMENDED
6.5.2	From the V to VII semesters, the student has the option of registering for one additional theory course or dropping one existing theory course with the approval of Student Counsellor and HOD. Total number of credits of such Courses cannot exceed 3. However, the maximum number of credits the student can register in a particular semester cannot exceed 30 credits (Excluding the courses for which the student has done reappearance registration).	From the Second to Final semesters, the student has the option of dropping one existing theory course in the semester during registration. The student shall undergo the **Eighth semester courses other than the project work in the sixth and seventh semesters**, provided they do **not have current arrears** and have **CGPA of 7.50** and above at the end of semester IV with the approval of Student Counsellor and HOD. Total number of credits of such courses cannot exceed 3.

CLAUSE	EXISTING	RECOMMENDED
6.5.2		However, the maximum number of credits the student can register in a particular semester **cannot exceed 36 credits** (Including EEC, Credit transfer from SWAYAM, re-registration, courses registered for Honors / Honors with specialization/ Minor and excluding value added and Re-appearance courses).

34.7.2.3 Introduction of UG Honors / Honors with specialization / Minor degree.

To consider the recommendations of the Controller of Examinations regarding the amendments in 2018 Regulations (Regulations 2018A) for 2021 admitted student for the award of Honors / Honors with specialization / Minor degree.

(Copies of ANNEXURE - 34.7.2.3A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the Amendments in 2018 Regulations (Regulations 2018A) for the students admitted in the Academic year 2021-2022.

34.7.2.4 Honors / Honors with specialization / Minor degree - Verticals.

34.7.2.4.1 F.T. B.E. CIVIL ENGINEERING

To consider the recommendations of the BOS of Civil Engineering to introduce the verticals for the award of Honors / Honors with specialization / Minor degree under 2018A Regulations from the academic year 2022-23 onwards.

(Copies of ANNEXURE - 34.7.2.4.1A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the introduction of verticals for the award of Honors / Honors with specialization / Minor under 2018A regulations for 2021 admitted students

34.7.2.4 Honors / Honors with specialization / Minor degree - Verticals.

34.7.2.4.2 F.T. B.E. MECHANICAL ENGINEERING

To consider the recommendations of the BOS of Mechanical Engineering to introduce the verticals for the award of Honors / Honors with specialization / Minor degree under 2018 Regulations from the academic year 2022-23 onwards.

(Copies of ANNEXURE - 34.7.2.4.2A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the introduction of verticals for the award of Honors / Honors with specialization / Minor under 2018A regulations for 2021 admitted students

34.7.2.4.3 F.T. B.E. ELECTRICAL AND ELECTRONICS ENGINEERING

To consider the recommendations of the BOS of Electrical and Electronics Engineering to introduce the verticals for the award of Honors / Honors with specialization / Minor degree under 2018 Regulations from the academic year 2022-23 onwards.

(Copies of ANNEXURE - 34.7.2.4.3A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the introduction of verticals for the award of Honors / Honors with specialization / Minor under 2018A regulations for 2021 admitted students.

34.7.2.4.4 F.T. B.E. ELECTRONICS AND COMMUNICATION ENGINEERING

To consider the recommendations of the BOS of Electronics and Communication Engineering to introduce the verticals for the award of Honors / Honors with specialization / Minor degree under 2018 Regulations from the academic year 2022-23 onwards.

(Copies of ANNEXURE - 34.7.2.4.4A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the introduction of verticals for the award of Honors / Honors with specialization / Minor under 2018A regulations for 2021 admitted student

34.7.2.4.5 F.T. B.E. PRODUCTION ENGINEERING

To consider the recommendations of the BOS of Production Engineering to introduce the verticals for the award of Honors / Honors with specialization / Minor degree under 2018 Regulations from the academic year 2022-23 onwards.

(Copies of ANNEXURE - 34.7.2.4.5A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the introduction of verticals for the award of Honors / Honors with specialization / Minor under 2018A regulations for 2021 admitted students

34.7.2.4.6 F.T. B.E. ELECTRONICS AND INSTRUMENTATION ENGINEERING

To consider the recommendations of the BOS of Electronics and Instrumentation Engineering   to introduce the verticals for the award of Honors / Honors with specialization / Minor degree under 2018 Regulations from the academic year 2022-23 onwards.

(Copies of ANNEXURE - 34.7.2.4.6A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the introduction of verticals for the award of Honors / Honors with specialization / Minor under 2018A regulations for 2021 admitted students

34.7.2.4.7 F.T. B.E. COMPUTER SCIENCE AND ENGINEERING

To consider the recommendations of the BOS of Computer Science and Engineering to introduce the verticals for the award of Honors / Honors with specialization / Minor degree under 2018 Regulations from the academic year 2022-23 onwards.

(Copies of ANNEXURE - 34.7.2.4.7A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the introduction of verticals for the award of Honors / Honors with specialization / Minor under 2018A regulations for 2021 admitted students

34.7.2.4.8 F.T. B.Tech. INFORMATION TECHNOLOGY

To consider the recommendations of the BOS of Information Technology to introduce the verticals for the award of Honors / Honors with specialization / Minor degree under 2018 Regulations from the academic year 2022-23 onwards.

(Copies of ANNEXURE - 34.7.2.4.8A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the introduction of verticals for the award of Honors / Honors with specialization / Minor under 2018A regulations for 2021 admitted students

34.7.2.4.9 F.T. B.Tech. INDUSTRIAL BIOTECHNOLOGY

To consider the recommendations of the   BOS of Industrial Biotechnology to introduce the verticals for the award of Honors / Honors with specialization / Minor degree under 2018 Regulations from the academic year 2022-23 onwards.

(Copies of ANNEXURE - 34.7.2.4.9A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the introduction of verticals for the award of Honors / Honors with specialization / Minor under 2018A regulations for 2021 admitted students

ITEM : 34.8	To consider and ratify Ph.D Course Work courses of Regulations 2018 and 2018A.

34.8.1 INDUSTRIAL BIOTECHNOLOGY

To consider the recommendations of the BOS of Industrial Biotechnology to offer the following courses as course work courses for Part time Ph.D Research Scholars under 2018 Regulations 2018 and 2018A

SNO	COURSE CODE	COURSE TITLE	CREDITS
1	18IBPE01	FUNCTIONAL FOODS	3
2	18IBPE02	ADVANCED FOOD FERMENTATION TECHNOLOGY	3
3	18IBPE03	ADVANCES IN BIOPROCESS TECHNOLOGY	3

After discussion , the Academic Council resolved to ratify the same under Regulations 2018 and 2018A

34.8.2 ENGLISH

To consider the recommendations of the BOS of Basic Sciences to offer the following courses as course work courses for Part time Ph.D Research Scholars under Regulations 2018 and 2018A

SNO	COURSE CODE	COURSE TITLE	CREDITS
1	18ENPE01	ENGLISH LANGUAGE TEACHING (ELT)	4
2	18ENPE02	RESEARCH METHODOLOGY	4
3	18ENPE03	ICT IN LANGUAGE TEACHING	4
4	18ENPE04	ENGLISH FOR SPECIFIC PURPOSES	4

After discussion , the Academic Council resolved to ratify the same under Regulations 2018 and 2018A

ITEM : 34.9	To consider and ratify the two level Question Paper Scrutiny process of End Semester Examinations.

To consider and ratify the following changes in two level question paper scrutiny process of end semester examinations.

QP SCRUTINY	ORIGINAL	PROPOSED
First Level	Senior faculty (Not less than the cadre of Associate Professor or equivalent i.e. not less than ten years experience)	No change
Second Level	HOD Concerned	Senior faculty (Not less than the cadre of Professor or equivalent i.e. not less than fifteen years experience)

After discussion , the Academic Council resolved to ratify the same .

ITEM : 34.10	To consider and ratify the pattern of Question Paper (Continuous Assessment Test) for 2021 batch students of Regulations 2018A and 2021 and 2022 batch students of Regulations 2012 and 2018 PG.

To consider and ratify the recommendation of the question paper pattern for continuous Assessment Test for UG / PG students admitted from the Academic Year 2021 – 2022 onwards under the Regulations 2018A, 2012 and 2018 PG.

(Copies of ANNEXURE - 34.10A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to ratify the same.

ITEM : 34.11	To discuss and approve the 2022 Regulations and Key Performance Indicators of UG Programmes.

34.11.1 2022 Regulations.

The Controller of Examinations presented the 2022 Regulations of Full Time UG Programmes .

(Copies of ANNEXURE - 34.11A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the 2022 Regulations of Full Time UG Programmes for the students admitted during the Academic year 2022-2023 onwards

34.11.2 Key Performance Indicators.

34.11.2.1 F.T. B.E. CIVIL ENGINEERING

The chairperson of the Board of Studies of F.T.B.E. Civil Engineering presented the Key Performance Indicators of 2022 Regulations F.T.B.E. Civil Engineering Programme as enclosed in the Annexure 34.11.2.1A.

(Copies of ANNEXURE - 34.11.2.1A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the same.

34.11.2.2 F.T. B.E. MECHANICAL ENGINEERING

The chairman of the Board of Studies of F.T.B.E. Mechanical Engineering presented the Key Performance Indicators of 2022 Regulations F.T.B.E. Mechanical Engineering Programme as enclosed in the Annexure 34.11.2.2A.

(Copies of ANNEXURE - 34.11.2.2A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the same.

34.11.2.3 F.T. B.E. ELECTRICAL AND ELECTRONICS ENGINEERING

The chairman of the Board of Studies of F.T.B.E. Electrical and Electronics Engineering presented the Key Performance Indicators of 2022 Regulations F.T.B.E. Electrical and Electronics Engineering Programme as enclosed in the Annexure 34.11.2.3A.

(Copies of ANNEXURE - 34.11.2.3A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the same.

34.11.2.4 F.T. B.E. ELECTRONICS AND COMMUNICATION ENGINEERING

The chairperson of the Board of Studies of F.T.B.E. Electronics and Communication Engineering presented the Key Performance Indicators of 2022 Regulations Electronics and Communication Engineering Programme as enclosed in the Annexure 34.11.2.4A.

(Copies of ANNEXURE - 34.11.2.4A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the same.

34.11.2.5 F.T. B.E. PRODUCTION ENGINEERING

The chairman of the Board of Studies of F.T.B.E. Production Engineering presented the Key Performance Indicators of 2022 Regulations F.T.B.E. Production Engineering Programme as enclosed in the Annexure 34.11.2.5A.

(Copies of ANNEXURE - 34.11.2.5A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the same.

34.11.2.6 F.T. B.E. ELECTRONICS AND INSTRUMENTATION ENGINEERING

The chairman of the Board of Studies of F.T.B.E. Electronics and Instrumentation Engineering presented the Key Performance Indicators of 2022 Regulations Electronics and Instrumentation Engineering Programme as enclosed in the Annexure 34.11.2.6A.

(Copies of ANNEXURE - 34.11.2.6A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the same.

34.11.2.7 F.T. B.E. COMPUTER SCIENCE AND ENGINEERING

The chairperson of the Board of Studies of F.T.B.E. Electronics and Instrumentation Engineering presented the Key Performance Indicators of 2022 Regulations Electronics and Instrumentation Engineering Programme as enclosed in the Annexure 34.11.2.7A.

(Copies of ANNEXURE - 34.11.2.7A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the same.

34.11.2.8 F.T. B.Tech. INFORMATION TECHNOLOGY

The chairperson of the Board of Studies of F.T.B.Tech. Information Technology presented the Key Performance Indicators of 2022 Regulations F.T.B.Tech. Information Technology Programme as enclosed in the Annexure 34.11.2.8A.

(Copies of ANNEXURE - 34.11.2.8A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the same.

34.11.2.9 F.T. B.Tech. INDUSTRIAL BIOTECHNOLOGY

The chairperson of the Board of Studies of F.T.B.Tech. Industrial Biotechnology presented the Key Performance Indicators of 2022 Regulations Industrial Biotechnology Programme as enclosed in the Annexure 34.11.2.9A.

(Copies of ANNEXURE - 34.11.2.9A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the same.

ITEM : 34.12	To discuss and approve the First year curricula and syllabi of UG 2022 Regulations.

The Chairman of the BOS of Basic Sciences presented the First and Second semester curricula and syllabi of the Full Time UG 2022 Regulations for the approval of Academic council

(Copies of ANNEXURE - 34.12A was placed before the 34th Academic Council for reference and verification.)

After discussion , the Academic Council resolved to approve the First and Second semester curricula and syllabi of the Full Time UG 2022 Regulations .

ITEM : 34.13	To discuss and approve the examinations reforms to be implemented in the UG Regulations 2022.

The Controller of Examinations presented the examinations reforms to be implemented in the UG Regulations 2022.

(i) **Two step process to connect CO and PO:**

To consider the recommendations of the standing committee to implement the CO-PO mapping at micro level, considering the competency and Indicators for each PO as recommended by NBA, in the syllabi of 2022 UG Full Time Regulations.

(ii)   Question papers with KPIs.:

To consider the recommendations of the standing committee to include the course outcomes, Bloom's Level and Key Performance Indicators in Unit Test and End semester Examinations question papers of 2022 UG Full Time Regulations. Weightage for different Bloom's levels are to be included in the syllabi and the same Weightage shall be adapted while setting the questions. This shall be verified during the question paper scrutiny. It is also resolved to adapt the following question paper Patterns for UG and PG programmes.

(Copies of ANNEXURE - 34.13.(ii)A was placed before the 34th Academic Council for reference and verification.)

(iii) Open Ended Experiments:

To consider the recommendations of the standing committee to change from expository type of instruction style to an open-ended (OEE) style in practical course, atleast one experiment in each practical course. The teaching plan for open ended experiment is a follows :

Activities	Open ended Experiment	Traditional Experiment
Briefing on theories	X	√
Complete manual	X	√
Apparatus proposal	X	√
Experiment	√	√
Report	√	√
Teamwork Evaluation	√	√
Practical skills Evaluation	√	X

(iv) Introduction of course Project:

To consider the recommendations of the standing committee to introduce course projects in few possible courses in all Full Time UG Programmes.

(v) E- Port -folios of student works:

To consider the recommendations of the standing committee to maintain E- Port folios of students by the department which is a digital collection created by a students of their course- related work, like essays, posters, photographs, videos and artwork; academic e- Portfolios can also capture other aspects of student's life, such as volunteer experiences, employment history, extracurricular activities and more.

(vi) Quality of Projects:

To consider the recommendations of the standing committee to encourage the students to do real-life or near-to-real-life projects right from micro project at course level to capstone projects at programme level.

After discussion, the Academic Council resolved to approve the Examination reforms (i), (ii), (iv), (v) and (vi) to be implemented in the 2022 Regulations.

For sub item no.(iii), External Members of the Academic Council recommended to introduce Open Ended Experiments for selected UG Programmes (Preferably non–current branches) instead of all UG Programmes.

ITEM : 34.14	To consider and ratify the relaxation of number of theory courses applied for Revaluation.

The Controller of Examinations moved the decision of standing committee towards the revaluation as follows:

" The extension candidates can apply revaluation for any number of theory courses in which he / she has failed".

After discussion, the Academic Council resolved to ratify the same.

ITEM : 34.15	To consider and ratify the Finance Committee Minutes held on 30.08.2022.

The Academic Council reviewed and resolved to ratify the Autonomous finance committee meeting held on 30.08.2022.

(Copies of ANNEXURE : 34-15-A was placed before the Academic council for reference and verification.)

ITEM : 34.16	Any other matter: i) Regulations 2022 of UG Programmes: • Introduction of CDIO Courses. • Introduction of Comprehensive Examinations. ii) Regulations 2023 of PG Programmes: • Open Book Examinations. iii) Others.

34.16.1.Regulations 2022 of UG Programmes:

34.16.1.1 Introduction of CDIO Courses:

The Controller of Examinations proposed to introduce the following CDIO courses in 2022 Regulations UG curricula

LIST OF CDIO COURSES FOR II, III & IV YEARS					
COURSE	SEMESTER	LECTURE	TUTORIAL	PRACTICAL	CREDIT
Engineering Exploration	II	1	0	2	2
Lateral thinking and Design thinking	III or IV	1	0	2	2
Mini Project	VII	0	0	8	4
Capstone Project	VIII	0	0	16	8

After discussion , the Academic Council resolved to approve the inclusion of CDIO courses in 2022 Regulations of Full Time UG programmes.

34.16.1.2 Introduction of Comprehensive Examinations:

The Controller of Examinations proposed to introduce Comprehensive examinations in 2022 Regulations of Full Time UG Programmes. The comprehensive examination shall be conducted at the end of sixth semester and the credit awarded is 3.

After discussion , the Academic Council resolved to approve the Comprehensive Examinations in 2022 Regulations of Full Time UG programmes.

34.16.2.Regulations 2023 of PG Programmes:

34.16.2.1 Open Book Examinations:

The Controller of Examinations proposed open book examination (end semester) for possible one or two courses in PG to assess higher-order thinking skills. The pattern of the question paper can be decided by the course instructor subject to the approval of Board of Studies concerned.

After discussion , the Academic Council recommended to bring this item for discussion along with 2023 Regulations.

34.16.3. Others:

Nil

| ITEM 34.17 | Concluding remarks by the Principal and chairman of Academic Council |

The Chairman summarized the various decisions taken by the academic council and thanked all the members for their active participation and valuable suggestions on various points discussed in the meeting.

The meeting came to a close by 01.30 PM

P. Th 28/11/22

Dr.P.THAMARAI
PRINCIPAL & CHAIRMAN
ACADEMIC COUNCIL