

**Agenda and Minutes of the
33rd Meeting of the Academic council
10th March 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)

33rd MEETING OF THE ACADEMIC COUNCIL

Lr. No. GCT/AUT/ACM-33/MEETING/2022, Date : 04.03.2022.

Dear Sir / Madam,

Sub : Government College of Technology, Coimbatore - 33rd meeting
of the Academic Council on 10.03.2022 - Intimation -Reg.

It is informed that the 33rd meeting of the Academic Council of Government College of Technology, Coimbatore is scheduled on 10.03.2022 (Thursday), at 10.30 AM through hybrid mode (online for External members and In-person for Internal members).

Venue : Board room of the Office of the Controller of Examinations GCT,
Coimbatore.

Gmeet link : meet.google.com/wep-ggrv-etf

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

The tentative agenda for the meeting is enclosed.

Yours Sincerely

DR. P.THAMARAI

04/03/2022

PRINCIPAL & CHAIRMAN / ACADEMIC COUNCIL

Encl : Agenda Items

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



GOVERNMENT COLLEGE OF TECHNOLOGY, COIMBATORE- 641 013

(An Autonomous Institution Affiliated to Anna University, Chennai)

33rd MEETING OF THE ACADEMIC COUNCIL

AGENDA

GCT - COE

WELCOME ADDRESS AND INTRODUCTORY REMARKS

BY THE CHAIRMAN

ITEM Nos.	PARTICULARS
ITEM : 33.1	Confirmation of the minutes of the 32 nd meeting of the Academic Council held on 08.07.2020
ITEM : 33.2	Review of the Academic Performance - I : Abstract of Results of Autonomous Examinations held during APR / MAY 2020 to APR / MAY 2021
ITEM : 33.3	Review of the Academic Performance - II : List of candidates for the Award of Degree - Autonomous Examinations held during APR/MAY 2020 to APR / MAY 2021
ITEM : 33.4	To discuss and ratify the recommendations of the Standing Committees towards the issues related to the QP pattern , conduct of Examinations, issues faced during proctored online end semester examinations and preparation of results of Examinations and Re-Examinations conducted through online from April / May 2020 to April / May 2021.
ITEM : 33.5	To discuss and ratify the recommendations of the Standing Committee towards withdrawal of courses, Re-admission of candidates , Candidates transferred to GCT from various Govt. Colleges / University campuses, Self study courses , Online Courses, Open Elective replacements and Re-registration courses.
ITEM : 33.6	To ratify the recommendations of autonomous finance committee meeting held on 07.10.2021
ITEM : 33.7	To discuss and ratify the amendments made in 2018 regulations UG / PG curricula and syllabi .
ITEM : 33.8	To discuss and approve the guidelines for the formulation of 2022 Regulations for Full Time UG
ITEM : 33.9	To discuss and approve the guidelines for the formulation of 2022 Regulations for Full Time PG



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33rd MEETING OF THE ACADEMIC COUNCIL

AGENDA

GCT - COE

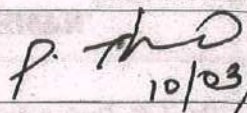
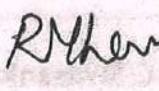

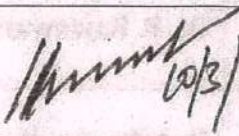
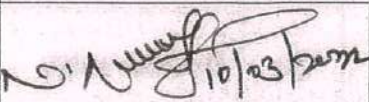
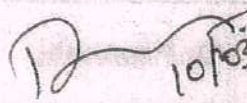
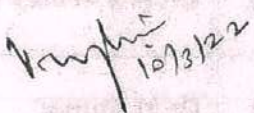
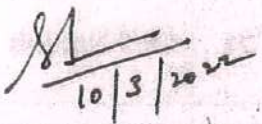
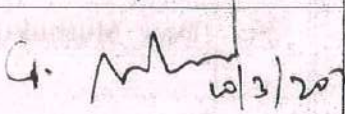
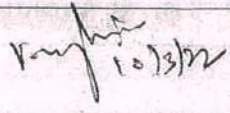
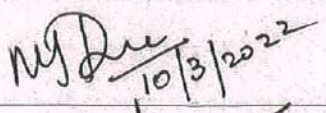
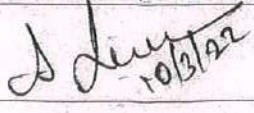
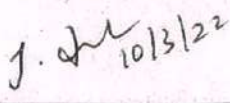
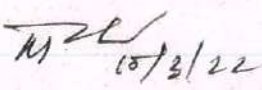
WELCOME ADDRESS AND INTRODUCTORY REMARKS BY THE CHAIRMAN

ITEM Nos.	PARTICULARS
ITEM : 33.10	To discuss and approve the Vision and Mission of the Institution
ITEM : 33.11	To discuss and approve the introduction of CDIO courses in 2022 regulations UG curricula
ITEM : 33.12	Any other matter

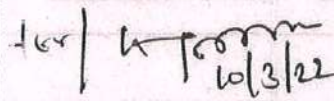
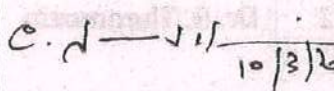
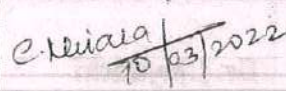
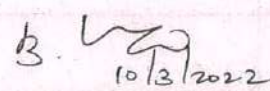
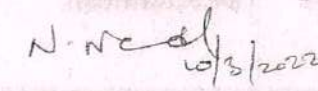
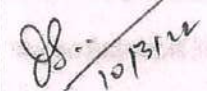
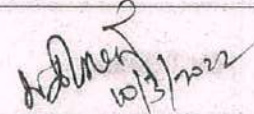
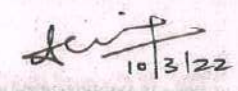

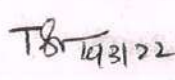

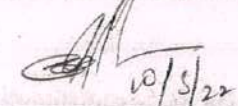
Date : 04.03.2022


Dr. P. THAMARAI
PRINCIPAL & CHAIRMAN
ACADEMIC COUNCIL

33rd Academic Council Meeting 10th March 2022 - Attendance

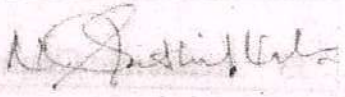
S.No	NAME	DESIGNATION	SIGNATURE
1	Dr. P. Thamarai	Principal & Chairperson	 10/03/22
2	Dr. R. Thenmozhi	HOD / B.E. Civil Engg. - Full Time & Part Time, M.E. Structural Engg. & Geotechnical Engg / Chairperson BOS in Civil Engg. & COE	 10.03.22
3	Dr. J. Jeyanthi	HOD/M.E.Environmental Engg/ Chairperson BOS in Environmental Engg.	 10/3/22
4	Dr.K.Ramesh	HOD/ B.E. Mechanical Engg. - Full Time & Part Time, M.E.Thermal Engg:/ Chairman BOS in Mechanical Engg.	 10/3/2022
5	Dr.N.Nandakumar	HOD/ M.E. Engg. Design / Chairman BOS in Engg. Design	 10/03/2022
6	Dr.T.Sekar	HOD/ M.E. Manufacturing Engg./Chairman BOS in Manufacturing Engg.	 10/03/2022
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	 10/3/22
8	Dr. C.Santhi	HOD/B.E. ECE-Full Time & Part Time, M.E. Applied Electronics & VLSI Design / Chairperson BOS in ECE	 10/3/2022
9	Dr.S.Srinivasa Moorthy	HOD / B.E. Production Engg./ Chairman BOS in Production Engg.	 10/3/2022
10	Dr. V.Gopalakrishnan	HOD / B.E. EIE / Chairman BOS in EIE	 10/3/22
11	Dr.J.C.Miraclin Joyce Pamila	HOD/B.E. & M.E. CSE / Chairperson BOS in CSE	 10/3/2022
12	Dr.S.Rathi	HOD/B.Tech. IT / Chairperson BOS in IT & ACOE	 10/3/22
13	Dr. J. Jeyanthi	HOD/B.Tech. IBT / Chairperson BOS in IBT	 10/3/22
14	Dr. M. Thamilselvan	HOD / Physics & English Chairman BOS in Basic Sciences	 10/3/22

33rd Academic Council Meeting 10th March 2022 - Attendance

S.No	NAME	DESIGNATION	SIGNATURE
15	Prof. R. Rajendran	HOD/ Maths	 10/3/22
16	Dr. C. Sivasankari	HOD / Chemistry	 10/3/22
17	Dr.C.Meiaraj	Professor (CAS)/ Civil Engg.	 10/3/2022
18	Dr. B. Rajeswari	Asst.Prof. /Mechanical Engg.	 10/3/2022
19	Dr.N.Narmadhai	Professor (CAS)/EEE	 10/3/2022
20	Dr.O.Saraniya	Asso.Prof. (CAS)/ ECE	 10/3/22
21	Dr.P.Ilamathi	Asst. Professor/ Prodn. Engg.	 10/3/2022
22	Dr. A.S. Wincy Pon Annal	Asst.Prof./ EIE	 10/3/22
23	Dr.M.Kumar	Asst. Prof / Civil Engg. & ACOE	 10/3/22
24	Dr.T.Suguna	Asst. Prof / IT & ACOE	 10/3/22
25	Dr. C. Muthukumaran	Asst. Prof. / IBT & ACOE	 10/3/22
26	Dr. M. Muthuchelvam	Asst. Prof. / Maths & ACOE	 10/3/22

33rd Academic Council Meeting 10th March 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	P Indumathi
2	Dr. S.Velmathi Professor Department of Chemistry National Institute of Technology Trichy- 620 015	University Nominee	S. Velmathi 10.03.2022
3	Dr. J. Sreerambabu Vice Principal Thanthai Periyar Government Institute of Technology, Vellore - 632 002	University Nominee	
4	Dr. S.Baskar Professor of EEE & Dean (R & D) Thiagarajar College of Engineering Madurai - 625 015	Academic Expert	— ABSENT —
5	Dr. G.Janardhanan, Associate Professor and Head (i/c) Centre for Environment Management, NITTTR - Chennai 600 113	Academic Expert	T. Janardhanan 10/3/22
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	S. Parivallal

7	Mr. N.Senthilvelan, Global Head AI platform solutions Tata consultancy services Siruseri, Chennai, Tamilnadu	Industry Expert	
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33rd Academic Council Meeting 10th March 2022 - Attendance

S.No	NAME OF THE STUDENT	BRANCH	DESIGNATION	SIGNATURE
1	Ms.R.Sivabalaselvi Reg.No.1811197	Civil Engg.	Student Member	<i>Sivabalaselvi R</i> 10/3/2022
2	Mr.P.Pavithran Reg. No. 1911168	Civil Engg.	Student Member	<i>P. Pavithran</i> 10/3/22
3	Ms.N.Priyaa Reg. No : 1812173	Mechanical Engg	Student Member	<i>N. Priyaa</i> 10/3/22
4	Mr.S.Kapil Varadhan Reg. No : 1912140	Mechanical Engg	Student Member	<i>S. Kapil</i> 10/3/22
5	Mr. Vikraman R Reg. No:1813154	EEE	Student Member	<i>Vikraman R</i> 15/3/22
6	Mr.Srihari. P Reg. No:1913147	EEE	Student Member	<i>P. Srihari</i> 10/3/22
7	Ms. Karishma B B Reg. No.1914119	ECE	Student Member	<i>Karishma</i> 10/03/22
8	Ms. Krishna kumari M.S Reg. No. 1814302	ECE	Student Member	<i>M.S. Krishnakumari</i> 10/03/22
9	Mr.U.Sridharkumar Reg. No 1815144	PRODUCTION	Student Member	<i>U. Sridharkumar</i> 10/03/22
10	Ms.S.Varshini Reg. No. 1915145	PRODUCTION	Student Member	<i>S. Varshini</i> 10/03/22
11	Ms.N. SathyaPriya Reg. No. 1816142	EIE	Student Member	<i>N. SathyaPriya</i>
12	Mr.K. Vishal Reg. No 1916L12	EIE	Student Member	— AB —
13	Ms. S.Mirnalini, Reg. no. 1817131	CSE	Student Member	<i>S. Mirnalini</i>
14	Mr. S. A. Akshaya Raj, Reg. no. 1917104	CSE	Student Member	<i>S. A. Akshaya Raj</i> 10/3/2022
15	Ms. Gomathi A Reg. No. 1818121	IT	Student Member	— AB —
16	Mr. Kamalahasan A Reg. No. 1918L07	IT	Student Member	<i>A. Kamalahasan</i>

33rd Academic Council Meeting 10th March 2022 - Attendance

S.No	NAME OF THE STUDENT	BRANCH	DESIGNATION	SIGNATURE
17	Mr. Chandilyan R K Reg. No. 1819118	IBT	Student Member	Chandilyan
18	Ms. Harshitha Devi K Reg. No. 1919126	IBT	Student Member	Harshitha
19	Ms. S. Srinithi Reg. No. 2071115	STRUCTURAL ENGG.	Student Member	S. Srinithi
20	Mr. A. Gokul Reg. No. 71772171105	STRUCTURAL ENGG.	Student Member	A. Gokul
21	Ms. S. Sujithaadevi Reg. No. 2071212	ENVIRONMENTAL ENGINEERING	Student Member	S. Sujithaadevi
22	Mr. M. Gnanasekar Reg. No. 71772171203	ENVIRONMENTAL ENGINEERING	Student Member	M. Gnanasekar
23	Mr. G. Sudarmani Reg. No. 2071316	GEOTECHNICAL ENGINEERING	Student Member	G. Sudarmani
24	Mr. L. Deepak Reg. No. 71772171301	GEOTECHNICAL ENGINEERING	Student Member	L. Deepak
25	Mr. T. HarihraSudhan Reg. No : 2072103	ENGINEERING DESIGN	Student Member	T. HarihraSudhan
26	Ms. Dharshini S Reg. No : 71772172102	ENGINEERING DESIGN	Student Member	Dharshini S
27	Mr. V.R.R. Dilibban Reg. No : 2072202	MANUFACTURING ENGINEERING	Student Member	V.R.R. Dilibban
28	Ms. K.R. Haritha Reg. No : 71772172202	MANUFACTURING ENGINEERING	Student Member	K.R. Haritha

33rd Academic Council Meeting 10th March 2022 - Attendance

S.No	NAME OF THE STUDENT	BRANCH	DESIGNATION	SIGNATURE
29	Mr.M. Gowthamakannan Reg.No. 2072404	THERMAL ENGG.	Student Member	M. Gowthamakannan 10/03/2022
30	Mr.B.S.Gopi Reg. No : 71772172403	THERMAL ENGG.	Student Member	B.S. Gopi
31	Ms. Reshma.M Reg. No: 2073111	POWER SYSTEMS ENGINEERING	Student Member	Ms. Reshma
32	Mr. Thilip Viswanath A Reg. No : 71772173104	POWER SYSTEMS ENGINEERING	Student Member	Thilip
33	Ms.A.R. Kamali Reg. No: 2073204	POWER ELECTRONICS AND DRIVES	Student Member	A.R. Kamali
34	Mr.Prathab T Reg. No : 71772173203	POWER ELECTRONICS AND DRIVES	Student Member	P. Prathab
35	Ms. Supriya.P Reg. No: 2074106	APPLIED ELECTRONICS	Student Member	P. Supriya 10/3/22
36	Ms. Arokia mary caroline.P Reg. No: 71772174102	APPLIED ELECTRONICS	Student Member	A. Mary Caroline
37	Ms.Santhiya N Reg. No: 2074306	VLSI DESIGN	Student Member	N. Santhiya 10/3/22
38	Ms.Bakkialakshmy K Reg. No: 71772174301	VLSI DESIGN	Student Member	B. Bakkialakshmy
39	Mr. Arun. G Reg.no.2077102	CSE	Student Member	Arun G
40	Ms. Gayathiri. K Reg. No : 71772177101	CSE	Student Member	G. Gayathiri

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 33.1 CONFIRMATION OF THE MINUTES OF THE 32nd MEETING OF THE ACADEMIC COUNCIL HELD ON 08.07.2020

The minutes of the 32nd meeting of the academic council held on 08.07.2020 is confirmed.

ITEM 33.2 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. April / May 2020 - B.E. / B.Tech. / M.E. Examinations (FT & PT)
2. September 2020 - B.E. / B.Tech. / M.E. Examinations (FT)
3. Nov / Dec 2020 - B.E. / B.Tech. / M.E. Examinations (FT & PT)
4. March 2021 - B.E. / B.Tech. Examinations (FT & PT)
5. June / July 2021 - B.E. / B.Tech. / M.E. Examinations (FT & PT)
6. August 2021 - M.E. Examinations

(Copies of ANNEXURE : 33-2-A were placed before the Academic council for reference and verification.)

ITEM 33.3 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	TO-TAL	UG		PG	TO-TAL
		FT	PT			FT	PT		
1	SEPTEMBER 2020	686	---	167	853	481	---	150	631
2	NOV / DEC 2020 & FEB 2021	289	422	18	729	220	129	14	363
3	MARCH 2021	703	---	---	703	639	---	---	639
4	JUNE / JULY 2021 (UG-2016 Regulations - Re-examinations) (PG-2018 Regulations - Re-examinations)	81	---	154	235	69	---	145	214
5	JUNE / JULY 2021 (UG- 1994, 1998, 2003, 2008 & 2012 Regulations - Re-Examinations)	34	307	---	341	32	121	---	153
TOTAL/PERCENTAGE		1821	812	351	2984	1451 (80%)	330 (41%)	330 (94%)	2111 (71%)

ITEM 33.4	To discuss and ratify the recommendations of the Standing Committees towards the issues related to the QP pattern , conduct of Examinations, issues faced during proctored online end semester examinations and preparation of results of Examinations and Re-Examinations conducted through online from April / May 2020 to April / May 2021.
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The Academic Council reviewed and resolved to ratify the recommendations of 1st to 9th standing committee minutes of the 33rd Academic Council , brought forward by the Controller of Examinations.

(Copies of ANNEXURE : 33-4-A - 33.4.I were placed before the Academic council for reference and verification.)

ITEM 33.5	To discuss and ratify the recommendations of the Standing Committee towards withdrawal of courses, Re-admission of candidates, Candidates transferred to GCT from various Govt. Colleges / University campuses, Self study courses, Online Courses, Open Elective replacements and Re-registration courses.
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The Academic Council reviewed and resolved to ratify the recommendations of 10th standing committee minute of the 33rd Academic Council , brought forward by the Controller of Examinations.

(Copies of ANNEXURE : 33-5-A pertaining to the minutes of 10th standing committee were placed before the Academic council for reference and verification.)

ITEM 33.6	To ratify the recommendations of Autonomous Finance Committee meeting held on 07.10.2021
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The Academic Council reviewed and resolved to approve the Autonomous finance committee meeting held on 07.10.2021.

(Copies of ANNEXURE : 33-6-A was placed before the Academic council for reference and verification.)

ITEM 33.7	To discuss and ratify the amendments made in 2018 regulations UG/PG curricula and syllabi .
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The Academic Council reviewed and resolved to ratify the amendments made in 2018 regulations UG / PG curricula and syllabi , brought forward by the respective Chairman of Board of Studies .

33.7.1 F.T. M.E. ENVIRONMENTAL ENGINEERING

33.7.1.1 Revision of Course Outcome

To consider the recommendations of the BOS of M.E. Environmental Engineering to revise the Course outcomes for the course 18EEOE05 - CLIMATE CHANGE AND ADAPTATION as given below

COURSE OUTCOME	EXISTING COURSE OUTCOME	REVISED COURSE OUTCOME
CO2	To assess the uncertainty and impact of climatic changes	To articulate the protocol and effect of climatic changes
CO3	To develop strategies for adaptation and mitigation of climatic changes	To assess the uncertainty and impact of climatic changes
CO4	To identify clean technologies for sustainable growth	To Develop strategies for adaptation and mitigation of Climatic changes

After discussion, the Academic Council resolved to ratify the above changes in the 2018 regulations

This comes into effect for the students admitted from the Academic year 2020 –2021 onwards covered under 2018 Regulations.

33.7.2 F.T. M.E. ENGINEERING DESIGN

To consider the recommendations of the BOS of M.E. Engineering Design for the following changes of PG 2018 Regulations.

33.7.2.1 Details of change in the Course title of 18EDPE20

S. NO	COURSE CODE	EXISTING COURSE TITLE	REVISED COURSE TITLE
1	18EDPE20	Computational Fluid Dynamics	Computational Fluid Dynamics for Design

33.7.2.2 Change in the Unit-V title of a course 18EDPE20

S. NO	COURSE CODE	UNIT- V - EXISTING TITLE	UNIT- V - REVISED TITLE
1	18EDPE20 - Computational Fluid dynamics for Design	Two Dimensional Random Variables	CFD Techniques for Fluid Mechanics

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

This comes into effect for the students admitted from the Academic year 2019-2020 covered under 2018 Regulations onwards.

33.7.3 F.T. B.E. ELECTRICAL & ELECTRONICS ENGINEERING

To consider the recommendations of the BOS of B.E. Electrical and Electronics Engineering for the following changes in 2018 Regulations syllabus:

33.7.3.1 Details of courses for which the course content is modified

S. NO	COURSE CODE & TITLE	EXISTING CONTENT	MODIFIED AND APPROVED CONTENT
1	18EPC504 - Control Systems Engineering	The topic "PID CONTROLLER" is present in Unit V	The topic "PID CONTROLLER" is moved to Unit IV instead of Unit V

33.7.3.2 Details of courses for which new text books are included

S. NO	COURSE CODE & TITLE	TEXT BOOK INCLUDED
1	18EPC503 - Microprocessors, Microcontrollers and Applications	John B.Peatman "Design with PIC Microcontroller" Pearson Education, India 2004

33.7.3.3 Change in the Unit-V title of a course 18EPE\$14

S.NO	COURSE CODE	UNIT- V - EXISTING TITLE	UNIT- V - REVISED TITLE
1	18EPE\$14 - Special Machines and Controllers	Harmonics, Filters and Ground return	Permanent Magnet Synchronous Motors

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

33.7.3.1 & 33.7.3.3 comes into effect for the students admitted from the Academic year 2018 - 2019 onwards covered under 2018 Regulations .

33.7.3.2 comes into effect for the students admitted from the Academic year 2019 - 2020 onwards covered under 2018 Regulations .

33.7.4 F.T. M.E. POWER SYSTEMS ENGINEERING & POWER ELECTRONICS AND DRIVES

To consider the recommendations of the BOS of M.E. Power Systems Engineering and M.E. Power Electronics and Drives to revise Programme Outcomes

33.7.4.1 Revision of Programme Outcome for (PSE / PED)

PROGRAMME OUTCOMES OF M.E. POWER SYSTEMS ENGINEERING	
PO1:	An ability to independently carry out research/investigation and development work to solve practical problems
PO2:	An ability to write and present a substantial technical report/document.
PO3:	Students should be able to demonstrate a degree of mastery over the area as per the specialization of the program. The mastery should be at a level higher than the requirements in the appropriate Bachelor program.
PO4:	Ability to attain professional ethics and intellectual integrity to contribute to the community for sustainable development of society
PROGRAMME OUTCOMES OF M.E. POWER ELECTRONICS AND DRIVES	
PO1:	An ability to independently carry out research/investigation and development work to solve practical problems
PO2:	An ability to write and present a substantial technical report/document.
PO3:	Students should be able to demonstrate a degree of mastery over the area as per the specialization of the program. The mastery should be at a level higher than the requirements in the appropriate bachelor program.
PO4:	An ability to find optimal solutions for power electronics and drives problems in consideration with ethics, safety, societal and environmental factors.
PO5:	An ability to engage in life-long learning independently, with a high level of passion and proficiency.

After discussion , the Academic Council resolved to ratify the above revision of Programme Outcomes for 2018 regulations

This comes into effect for the students admitted from the Academic year 2020 -2021 onwards covered under 2018 Regulations.

33.7.4.2 Details of courses for which the course content is added and modified

S. NO	COURSE CODE & TITLE	ADDED / MODIFIED AND APPROVED CONTENT
1	18PEPE10/18PSPE06 - Flexible AC Transmission Systems	1. Static synchronous series compensator (SSSC), a modern power quality FACTS device is added in the Unit II of the Syllabus 2. Co-ordination among various FACTS controllers in interconnected power system is incorporated as Unit V 3. The Units I, III, IV are reorganized without disturbing the content

33.7.4.3 Details of courses for which new text books are included

S. NO	COURSE CODE & TITLE	TEXT BOOK INCLUDED
1	18PSOE21 - Modern Automotive Systems	1. Ronald K. Jurgen, "Automotive Electronics Handbook", McGraw Hill, 2000. 2. LjuboVlasic, Michel Parent and FurnioHarshima, "Intelligent Vehicle Technologies: Theory and Applications", Butterworth Heinemann publications, 2001. 3. Denton, "Automotive Electrical and Electronic Systems", Burlington, MA 01803, Elsevier Butterworth-Heinemann, 2004. 4. Jack Erjavec, "Automotive Technology - A System Approach", Thomson Delmar Learning, 3 rd edition, 2004. 5. XC166 Family and 32-bit Tricore Family of microcontrollers

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

This comes into effect for the students admitted from the Academic year 2020 - 2021 onwards covered under 2018 Regulations.

33.7.5 F.T. - B.E. COMPUTER SCIENCE AND ENGINEERING

To consider the recommendations of the BOS of B.E. Computer Science and Engineering to include the additional text books for the following course(s)

33.7.5.1 Details of courses for which new text books are included

S. NO	COURSE CODE & TITLE	TEXT BOOK INCLUDED
1	18SPE\$07 - Cloud Engineering	1. Kai Hwang, Geoffrey C. Fox, Jack, J. Dongarra "Distributed and Cloud Computing from Parallel Processing to the Internet of Things", Elsevier 2012. 2. Rajkumar Buyya, Christian Vecchiola, S. Thamarai Selvi "Mastering Cloud Computing Foundations and Applications Programming", 2013. 3. John W. Rittinghouse, James F. Ransome, "Cloud Computing Implementation, Management, and Security", CRC Press, 2010.

After discussion, the Academic Council resolved to ratify the above revision of Programme Outcomes for 2018 regulations

This comes into effect for the students admitted from the Academic year 2018-2019 onwards covered under 2018 Regulations.

33.7.6 F.T. - B.Tech. INDUSTRIAL BIOTECHNOLOGY

To consider the recommendations of the BOS of B.Tech. Industrial Biotechnology for the following changes in UG 2018 Regulations syllabus :

33.7.6.1. Change in the Course title of Open Elective

S. NO	COURSE CODE	EXISTING COURSE TITLE	REVISED COURSE TITLE
1	18BOE\$26	Biology for Engineers	Fundamental concepts of Biology for Engineers

33.7.6.2. Changes in the course content of the Professional Elective Course 18BPE\$23 - GENETICS

EXISTING CONTENT	CORRECTED CONTENT
UNIT - III: APPLIED GENETICS	UNIT - III: APPLIED GENETICS
Mendel's principles and experiments, segregation, multiple alleles-Independent Assortments, Genotypic interactions, epistasis and Sex chromosomes, Sex determination, Dosage compensation, Sex linkage and pedigree analysis	Chromosome organization, structure and variation in prokaryotes and eukaryotes, Giant chromosomes - polytene and lampbrush, deletion, inversion, translocation, duplication. Variation in chromosomal numbers - aneuploidy, euploidy, polyploidy, Ames test, Karyotyping, Linkage, Crossing over - cytological basis of crossing over, chromosome mapping - two and three factor cross - interference, somatic cell hybridization

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

This comes into effect for the students admitted from the Academic year 2018-2019 onwards covered under 2018 Regulations.

33.7.7 Changes in the calculation of Internal Assessment

The Controller of Examinations recommended the following changes in the calculation of Internal Assessment marks in 2018 regulations.

For the calculation of Continuous Assessment Marks, the Faculty incharge of the course may optionally use project based assessment in place of the Assignment and Quiz. In the case of Project based assessment, the students are supposed to complete a Mini project and submit the report of the same for the Assessment. The revised calculation of the continuous Assessment Marks is :

S. No.	Existing		Revised	
	Category	Marks	Category	Marks
1.	Unit Test1 + Unit Test 2 +Unit Test 3 (Each 50 Marks)	150 Marks reduced to 30 Marks	Unit Test 1 + Unit Test 2 +Unit Test 3 (Each 50 Marks)	150 Marks reduced to 30 Marks
2.	Assignment(15 Marks) + Quize (5 Marks)	20 Marks	Assignment (15 Marks) + Quize (5 Marks) (or) Mini Project (20 Marks)	20 Marks
TOTAL		50 Marks	TOTAL	50 Marks

After discussion , the Academic Council resolved and approve the above changes in the calculation of Internal Assessment in 2018 regulations

This comes into effect for the students admitted from the Academic year 2019-2020 onwards covered under 2018 Regulations .

33.7.8. Interdisciplinary Project

The Controller of Examinations recommended the following guidelines in 2018 regulations towards the introduction of Interdisciplinary Project.

For the final year project, students may be allowed to do interdisciplinary project. The interdisciplinary project team consists of 4 members in a Team, consisting 2 students from 2 different branches. One Project Guide shall be allotted from each branch. The continuous Assessment of the project will be carried out by the Interdisciplinary Project Review committee by the respective departments. The Project Reviews, Continuous Assessment Marks and End semester examination marks will be same as the Regular Project.

Structure of Interdisciplinary Project Review Committee

Branch X	Project Guide + 1 Senior faculty appointed by the HOD
Branch Y	Project Guide + 1 Senior faculty appointed by the HOD

Continuous Assessment Marks – breakup

Project Guide : 1 30%	Project Guide : 2 30%	Member : 1 20%	Member : 2 20%
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End Semester Marks – Breakup

Report Evaluation (20 Marks)		Viva (30 Marks)			
External Examiner:1	External Examiner:2	External Examiner:1	External Examiner:2	Internal Examiner:1	Internal Examiner: 2
10 Marks	10 Marks	10 Marks	10 Marks	05 Marks	05 Marks

Internal and External Examiners are from the two different branches (X & Y) of the students.

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

After discussion , the Academic Council resolved and approve the above guidelines towards the introduction of Inter disciplinary Project in 2018 regulations

33.7.9 UG Programmes - Research Publication

A student with minimum CGPA of 7.5 and without history of arrears can register for the Research Publication as an Elective Course. Number of credits for this course is 3. A Maximum of two students can form a team and register for this course at the beginning of the fourth semester. The outcome of the course will be a publication in SCI/SCI expanded/ SCOPUS indexed/UGC Care list . Grade for the publication will be awarded as mentioned below :

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

The grades earned from the Publication can be transferred in place of one elective course (PE/OE). If the student is not able to publish papers before the completion of seventh semester , the registration will be cancelled and he/she should register for an elective course in VII semesters.

The Academic Council after discussion disapproved the above and suggested the following guidelines:

1. Research Publication can be considered under " Value Added Courses " category with credits not more than Two.
2. Research Publications can be considered for improving the Relative grades secured by the student in Mini / Main Project work.

This matter shall be discussed in the BOS and brought forward to the next Academic Council.

33.7.10 Plagiarism checking for PG Project Reports

The students should submit the project report along with the Plagiarism report which is attested by the Project Guide and HOD. The report will be summarily rejected if the Plagiarism exceeds 20% .

After discussion , the Academic Council resolved and approve the Plagiarism checking for PG Project Reports in 2018 regulations

This is effective for the students admitted from the Academic year 2020-2021 covered under 2018 Regulations.

ITEM 33.8	To discuss and approve the guidelines for the formulation of 2022 Regulations for Full Time UG
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The Controller of Examinations recommended the following guidelines to be adopted in the proposed 2022 regulations of Full Time UG .

33.8.1 Regulation 2022 B.E./B.Tech. Degree Programmes

Sl. No.	ITEM DESCRIPTION		GCT (For Reg. 2022)
1.	Total Credits		Min : 165 Max : 175
2	Industrial Visit	No. of visits	1 day-5 points (8 hrs) 2 days -10 points (16 hours)
		Activity pts to be earned through this category	Min: 20 points
			Max: 30 points
3	Self-Study	Eligibility	No (standing) arrear with CGPA \geq 8.5 upto the previous semester of study
4	Value Added Course	Type	Optional 2 no of 2 credits/ 4 no of 1 credit/ blend of 1 and 2 credits. Maximum of 4 credits. It should be of 50% Industry offered type course.
5	Grading Relative/ Absolute	Absolute	Practical/Project
		Relative	Theory

The Academic Council after discussion approved the Sl. No. (2), (3) & (4) and recommended the following guidelines for the Sl. No. (1) Total Credits and Sl. No. (5) Grading

Total Credits : Maximum credits of the UG Programmes shall be restricted to 170

Grading : Uniform grading shall be adopted for both theory and Practical / Project courses. This matter shall be discussed in the BOS and brought forward to the next Academic Council.

ITEM 33.9	To discuss and approve the guidelines for the formulation of 2022 Regulations for Full Time PG
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The Controller of Examinations recommended the following guidelines to be adopted in the proposed 2022 regulations of Full Time PG

The Academic Council after discussion recommended the following guidelines :

33.9.1 Regulation 2022 M.E. Degree Programmes

Sl. No.	ITEM DESCRIPTION		GCT (For Reg. 2022)
1.	Total Credits		Min : 70 Max : 75 Project: 10+16
2	Industry Training	Type	Mandatory (continuous period of training for minimum period of 2 weeks in one industry) 2 Weeks=2 credits
3	Self-Study	Eligibility	No history of arrear with CGPA \geq 8.5 upto previous Semester of study
4.	Value Added Course	Type	Optional 2 no of 1 credit/ 1 no of 2 credits Maximum of 2 credits 50% Industry offered
5	Grading Relative / Absolute	Absolute	Practical/Project
		Relative	Theory

The Academic Council after discussion, resolved to approve Sl.No.(1) to (4) and recommended the following guidelines for Sl.No.5

Grading : Uniform grading shall be adopted for both theory and Practical / Project courses. This matter shall be discussed in the BOS and brought forward to the next Academic Council.

The Academic Council resolved to approve the remaining points.

ITEM 33.10	To discuss and approve the Vision and Mission of the Institution
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The Controller of Examinations presented the Academic council , the Vision and Mission of the Institution for discussion. After discussion the revised Vision and Mission of the Institution is given below.

INSTITUTE VISION AND MISSION

VISION

- GCT inspires the humanity through Engineering Education.

MISSION

- To make Engineers competent enough and be on a par with the Global Standards.
- To enhance the realms of Research , Employability and Entrepreneurship.
- To inculcate a culture in turning the living atmosphere a harmonious and a prosperous one .

The Academic Council after discussion suggested to revise the vision as per “business, purpose and value” and modify the mission statements accordingly.

ITEM 33.11	To discuss and approve the introduction of CDIO courses in 2022 regulations UG curricula
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The Controller of Examinations request the Academic council to approve the introduction of 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

The Academic council after discussion resolved to approve the same.

ITEM 33.12	Any other Matter
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NIL

ITEM 33.13	Concluding remarks by the Principal and chairman of Academic Council
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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 1.00 PM

P. Thamarai
31/03/2022
Dr.P.THAMARAI
PRINCIPAL & CHAIRMAN
ACADEMIC COUNCIL

AS
31.3.22