Department of Civil Engineering

Feedback Analysis and Action Taken Report for Curriculum and Syllabi of R-2022 based on Responses from Industry Experts, Alumni and Employer 2021-2022

S1.	Action Taken
No	
1.	Based on local, regional, national and global technical and Industry demands, Choice
-	Based Credit System had been introduced in R-2018 for B.E Civil Engineering, M.E
	Structural Engineering, to enrich the curriculum and address the cross-cutting issues
	with respect to Professional Ethics, Human Values, Environment and Sustainability and
	other value framework enshrined in Sustainable Development Goals and National
a.,	Education Policy 2020 into the Curriculum. The following revision has been made in the
	Faculty of B.E Civil Engineering, in R-2022 .
2.	Based on feedback given by the committee members some of the advanced topics has
	been included in some of courses like Surveying, Construction Materials etc while
	revising the curriculum of R-2022.
3.	Based on feedback given by the committee members some of the latest text books has
	been included for some of the courses like Theory of Elasticity and Plasticity during the
	curriculum revision.

The Department of Electronics and Communication Engineering has introduced the following new courses in the R-2022 curriculum.

Professional Core Courses:

- 1. Research Methodology and IPR for PG students
- 2. Audit Courses for PG Students

Professor of Civil Engineering **Government College of Engineering** Salem - 636 011.

Department of Mechanical Engineering

Feedback Analysis and Action Taken Report for Curriculum and Syllabi of R-2022 based on Responses from Faculty, Industry Experts, Alumni and Employer 2021-2022

S1.	Action Taken
No	
1.	Based on local, regional, national and global technical and Industry demands, Choice
	Based Credit System had been introduced in R-2018 for B.E Mechanical Engineering,
	M.E Thermal and M.E CAD, to enrich the curriculum and address the cross-cutting
	issues with respect to Professional Ethics, Human Values, Environment and
	Sustainability and other value framework enshrined in Sustainable Development Goals
а К.,	and National Education Policy 2020 into the Curriculum. The following revision has been
	made in the Faculty of Mechanical Engineering in R-2022 .
2.	Based on feedback given by Industry Experts, Er.K. Mageswar, AGM, Steel Melt Shop,
	JSW, Mettur, a new course named "Fire Engineering and Explosion has been introduced
· · ·	as one of the professional electives while revising the curriculum of R-2022 for M.E
	Programmes to ensure any one course related with PO10 be included.
3.	Based on feedback given by Dr. M.Udayakumar, Professor, NIT Trichy, a course entitled
	"Computational Fluid Dynamics for M.E Thermal Engineering" has been made as
	Professional Core during the curriculum revision.
4.	Based on the Alumni Dr.J.Ramarajan with respect to research exposure and writing of
	research articles, Technical Seminar in the list of Professional Core Courses has been
	introduced in First Semester for both PG Programmes in the Faculty of Mechanical
	Engineering.
5.	Establishment of Innovate-TN has been accorded at GCE, Salem-11.
-	As a part of Protosem, 4 courses are introduced and made compulsory for all the students
	starting from II Semester to V Semester.
	In this 2022 regulations, Protosem is introduced in VI semester for the students who got
	selected based on the performance of Continuous Internal Assessment of these courses.

The Department of Mechanical Engineering has introduced the following new courses in the R-2022 curriculum.

B.E (Mechanical Engineering)

Professional Core Courses:

- 1. Heritage of Tamil as Mandatory course
- 2. NCC Course (only for NCC Students)
- 3. Internship

Professional Elective Courses:

- 1. Automobile Engineering
- 2. Energy Conservation in Industries
- 3. Energy Efficient Buildings Design
- 4. Non-traditional Machining Process
- 5. Solar Energy Technology
- 6. Metal Forming Processes
- 7. Micro and Nano Machining
- 8. Design of Jigs, Fixtures and Press tools
- 9. Nano Technology
- 10. Engineering System Modelling and Simulation
- 11. Entrepreneurship Development
- 12. Industrial Safety

Open Elective Courses:

1. Renewable Sources of Energy

M.E (Thermal Engineering)

Professional Core Courses:

- 1. Hydrogen and Fuel Cell Technologies
- 2. Technical Seminar

Professional Elective Courses

- 1. Thermal Management of Electric Vehicle Battery Systems
- 2. Bio Energy Technologies
- 3. Electric and Hybrid Vehicle Technology
- 4. Advanced Energy Storage Technologies
- 5. Materials for solar devices
- 6. Fire Engineering and Explosion control.
- 7. Solar Refrigeration and Air conditioning.

M.E (Computer Aided Design)

Professional Core Courses:

- 1. Advanced Mechanics of Materials
- 2. Solid Freeform Manufacturing
- 3. Technical Seminar

Professional Elective Courses

- 1. Industry 4.0
- 2. Supply Chain Management
- 3. MEMS & NEMS Technology
- 4. Mechanical Measurement and Analysis
- 5. Quality concepts in design

Head of the Department

Department of Electrical & Electronics Engineering

Feedback Analysis and Action Taken Report for Curriculum and Syllabi of R-2022 based on Responses from Faculty, Industry Experts, Alumni and Employer 2021-2022

SI. No	Action Taken
1	Bread on global technical inductor demands. Chains Bread Credit System had been introduced in
1.	Based on global technical industry demands, Choice Based Credit System had been introduced in
	R-2018 for B.E Electrical & Electronics Engineering & M.E Power Electronics and Drives, to
	enrich the curriculum and address the cross-cutting issues with respect to Professional Ethics,
	Human Values, Environment and Sustainability and other value framework included in Sustainable
	Development Goals and National Education Policy 2020 into the Curriculum. The following
	revision has been made in the Faculty of Electrical & Electronics Engineering in R-2022.
2.	Based on feedback given by Industry Experts, Dr.D.Madhan Mohan, R&D Manager, Hitachi ABB
	Power Grids, Chennai, Electric Mobility course was introduced with suggested contents of battery
	capacity requirements, on load charger & off load charger included in the course. This course has
	been introduced as one of the professional electives while revising the curriculum of R-2022 for
	M.E Programme to ensure any one course related with PO10 be included.
3.	Based on feedback given by Dr. D.Vijayakumar, Professor, School of Electrical Engineering, VIT,
	Vellore, a course titled "Modeling and Control of Power Converters" has been included as one of
	the subjects in Verticals "Power Converters and Drives"
4.	Establishment of Innovate-TN has been accorded at GCE, Salem-11.
	Initially 4 courses are introduced and made mandate for all the students from 2 nd to 5 th Semester.
	Based on the assessment marks obtained in the qualifying exam conducted by Forge team,
	candidates are shortlisted and Protosem courses are introduced in VI semester and as per R-2022
	the selected students' are assessed based on their performance treated as Continuous Internal
	Assessment.

The Department of Electrical and Electronics Engineering has introduced the following new courses in the R-2022 curriculum.

B.E (Electrical and Electronics Engineering)

Professional Core Courses:

- 1. Communicative English
- 2. NCC Course (only for NCC Students)

- 3. NCC COURSE II (only for NCC Students)
- 4. Innovation Sprints
- 5. Placement and Soft Skills Laboratory
- 6. Design Sprints
- 7. Ideation Sprints
- 8. Smart Grid
- 9. Control and Instrumentation Laboratory
- 10. Internship

Professional Elective Courses:

- 1. Network Analysis and Synthesis
- 2. Artificial Intelligence and Computer Vision
- 3. Soft Computing
- 4. Digital Signal Processing
- 5. Electrical Energy Conservation and Auditing

Open Elective Courses:

- 1. Renewable Energy Sources
- 2. Industrial Drives

M.E (Power Electronics and Drives)

Professional Elective Courses

- 1. Artificial Intelligence and Machine Learning
- 2. System Theory
- 3. Applied Digital Control for Power Electronics
- 4. Modern Rectifiers and Resonant Converters
- 5. Digital Simulation of Power Electronics System
- 6. Modeling of Switched Mode Power Converters
- 7. Grid Integration of Renewable Energy Sources
- 8. Energy Storage Technologies

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Head of the Department

Government College of Engineering, Salem-11 Department of Electronics and Communication Engineering

Feedback Analysis and Action Taken Report for Curriculum and Syllabi of R-2022 based on Responses from Industry Experts, Alumni and Employer 2021-2022

S1.	Action Teles
No	Action Taken
1.	Based on local, regional, national and global technical and Industry demands, Choice Based Credit System had been introduced in R-2018 for B.E Electronics and Communication Engineering, M.E Communication Systems, to enrich the curriculum and address the cross-cutting issues with respect to ProfessionalEthics, Human Values, Environment and Sustainabilityand other value framework enshrined in Sustainable DevelopmentGoals and National Education Policy 2020 into the Curriculum. The following revision has been made in the Faculty of B.E Electronics and Communication Engineering, in R-2022 .
2.	Based on feedback given by Industry Evenette Mark V Al
	Flextronics, a new course named "Robotics" "Automation Director,
	C"has been introduced as one of the professional electives while revising the
	curriculum of R-2022.
3.	Based on feedback given by Dr.R.Pandeeswari, Professor, NIT Trichy, course entitled
	"Deep Learning" & "Cognitive Radio" has been made as Professional Elective during the
	curriculum revision.
4	Based on the Alumni Dr.S.Sabeenian, Sona college of Technology, Salem, with record
	to research exposure and writing of research articles, Technical Seminar in the line
ł.	Professional Core Courses has been introduced in FirstSemester for PC Dra
	the Faculty of Electronics and Communication Engineering.
5.	Establishment of InnovateTNhas been accorded at GCE, Salem-11
	As a part of Protosem, 4 courses are introduced and made compulsors for all the
	students starting from II Semester to V Semester.

	In this 2022 regulations, Protosem is introduced in VI semester for the students who
	got selected based on the performance of Continuous Internal Assessment of these
	courses.

The Department of Electronics and Communication Engineeringhas introduced the following new courses in the R-2022 curriculum.

Professional Core Courses:

- 1. Research Methodology and IPR for PG students
- 2. Audit Courses for PG Students

Professional Elective Courses

- 1. Robotics
- 2. Automotive Electronics
- 3. and Embedded C
- 4. Deep Learning
- 5. Cognitive Radio

0 A.M. OC Professor & Head

Department of Metallurgical Engineering

Feedback Analysis and Action Taken Report for Curriculum and Syllabi of R-2022 based on Responses from Industry Experts, Alumni members and Employers.

Sl. No	Action Taken
1.	Based on local, regional, national and global technical and Industry demands, Choice
	Based Credit System has been introduced for B.E Metallurgical Engineering to enrich the
	curriculum and address the cross-cutting issues with respect to Professional Ethics, Human
	Values, Environment and Sustainability and other value framework enshrined in
	Sustainable Development Goals and National Education Policy 2020 into the Curriculum.
2.	Establishment of Innovate TN has been accorded at GCE, Salem-11.
	As a part of Protosem, 4 courses are introduced and made compulsory for all the students
	starting from II Semester to V Semester.
	In the 2022 regulations, Protosem is introduced in VI semester for the students who got
	selected based on the performance of Continuous Internal Assessment of these courses.
3.	Based on the feedback given by Alumni member Mr.P.Sivakumar, a new course
	"Metallurgical waste utilization and management" was introduced for 3 rd year students.
4.	Based on the feedback given by University nominee Dr.M.Udhaya Kumar, Professor, NIT,
	Trichy a new course "Linear Algebra and Transform" was introduced for 2 nd year students.
5.	Based on the feedback given by Academic expert Dr.R.Subramanian, Professor, PSG
	College of Technology, Coimbatore a new course "Materials for automobile components"
	was introduced for 3 rd year students.

The Department of Metallurgical Engineering has introduced the following new courses in the R-2022 curriculum.

Professional Core Courses:

- 1. Material Science for Engineers for B.E
- 2. Linear Algebra and Transform for B.E
- 3. Forming processes for M.E (WT)
- 4. Foundry processes for M.E (WT)

Professional Elective Courses:

- 1. Materials for automobile components
- 2. Metallurgical waste utilization and management

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Head of the Department

Government College of Engineering, Salem-11 Department of Computer Science and Engineering

Feedback Analysis and Action Taken Report for Curriculum and Syllabi of R-2022 based on Responses from Industry Experts, Alumni and Employer 2021-2022

S1.	Action Taken
No	
1.	Based on local, regional, national and global technical and Industry demands, Choice
	Based Credit System had been introduced in R-2018 for B.E Computer Science and
	Engineering to enrich the curriculum and address the cross-cutting issues with
	respect to Professional Ethics, Human Values, Environment and Sustainability and
	other value framework enshrined in Sustainable Development Goals and National
	Education Policy 2020 into the Curriculum. The following revision has been made in
	the Faculty of Computer Science and Engineering, in R-2022 .
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2.	Establishment of InnovateTN has been accorded at GCE, Salem-11.
	As a part of Protosem, 4 courses are introduced and made compulsory for all the
	students starting from II Semester to V Semester.
	In this 2022 regulations, Protosem is introduced in VI semester for the students who
	got selected based on the performance of Continuous Internal Assessment of these
	courses.
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3.	Based on feedback given by University Naminee Dr. S.Bhuvaneshwari, Subject Experts
1.000	Dr. G.Usharani and Dr. G.Maragathan, Industry Experts, Mr. Srivivasan Angamuthu,
	the changes made in the curriculum of R-2022.

The Department of Computer Science and Engineering has introduced the following new courses in the R-2022 curriculum.

Professional Core Courses:

- 1. Discrete Mathematics
- 2. Python Programming
- 3. Machine Learning
- 4. Machine Learning Laboratory
- 5. Experimental based learning course Professional Readiness for Innovation. Employability, Entrepreneurship

Professional Elective Courses

- 1. Blockchain Technologies
- 2. Cyber Forensics
- 3. Mobile Application Development
- 4. Predictive Data Analytics
- 5. Game Theory and its Applications
- 6. Ethical Hacking

A. M. Q

Head of the Department