

# **Government College of Engineering, Salem- 11**

*(An Autonomous Institution affiliated to Anna University, Chennai)*



## ***SELF-STUDY REPORT***



### **CRITERION 1**

**1.2.1 Percentage of new courses introduced out of the total number of courses across all programmes offered during the last five years.**

*(Submitted to National Assessment and Accreditation Council)*

## **Self Declaration**

This is to certify that the supporting documents for this metric exceed the 5MB upload limit. Therefore, links to sample documents and some samples are provided in the following pages. Any/all Supporting documents will be provided, if required. All links, documents and images are verified and authenticated.



**IQAC – Chairperson**

**Internal Quality Assurance Cell  
Govt. College of Engineering  
Salem - 636 011.**

## **Minutes of Academic Council & Board of Studies**

### **Supporting Documents**

**[1.2.1 / Link 1](#)**

### **Minutes of Board of Studies (BOS) meeting specifying the syllabus approval of new courses**

**R 2018**

#### **Extracts from Department of Science and Humanities**

#### **minutes of BOS curriculum and syllabi for I and II semester (Sprint Courses)**

**GOVERNMENT COLLEGE OF ENGINEERING, SALEM-11**  
**(An autonomous Institution Affiliated to Anna University, Chennai)**

Minutes of the meeting – Board of Studies (BOS) – Science and Humanities

The curriculum and syllabi for I and II semester UG-all branches of engineering, Basic science and Humanities courses offered for III, IV and V semesters UG-all branches of engineering, Mathematics and English courses offered for I and III semester PG-all branches were presented by Dr.R.Vimala, BOS, Chairman. This was followed by the discussion with all the members of the Board of Studies.

The following were resolved.

- To implement AICTE model curriculum from the academic year 2018-2019 under 2018 regulations for students admitted from 2018-2019 and onwards.
- To approve the curriculum and syllabi presented in the meeting. It is resolved to include Professional Communication lab with the credit of 0 0 2 1 as an additional course either in the I or II semester.
- To approve the following in the continuous assessment system and in the end semester examination system.

## Department of Mechanical Engineering

### Extracts from minutes of BOS curriculum and syllabi for III-VIII semester

#### Government College of Engineering, Salem – 636 011 Department of Mechanical Engineering

Minutes of Board of Studies Meeting  
(09-02-2019)

#### Agenda 1




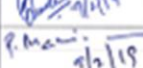
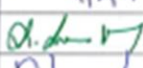
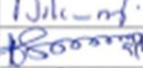


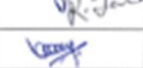





Approval of Curriculum of B.E Mechanical Engineering for semesters III – VIII and P.G. Part time programmes ( M.E. – CAD and M.E. – Thermal ) (2018- Regulations)

- ✓ B.E. Mechanical Engineering (Full Time)
- ✓ M.E. CAD ( Part time)
- ✓ M.E. Thermal (Part time)

The curriculum of B.E (Full Time)- Mechanical Engineering for semesters III- VIII and P.G. Part time programmes M.E. – CAD and M.E. - Thermal were discussed in the meeting and the suggestions made by the members have been incorporated in the corrected copies. (Annexure-I)

#### Agenda 2: Approval of Syllabi for III to VIII semester – Year (2018-Regulations)

It was resolved to approve all the suggestions made by the members and each suggestion to be incorporated in the respective syllabus. (Annexure II)

Sl.No	Category	Name	Signature
1.	Chairman	Dr. R. Vijayan Professor Department of Mechanical Engineering, GCE, Salem	
2.	University Nominee	Dr. M.R. Swaminathan Associate Professor / Department of Mechanical Engineering Anna University, Guindy, Chennai	
3.	Subject Expert	Dr. V. Mariappan Associate Professor/ Department of Mechanical Engineering NIT, Trichirappalli	
4.		Dr. S. Suresh, Associate Professor/ Department of Mechanical Engineering NIT, Trichirappalli	
5.		Dr. P. Mahalingam Professor / Department of Mechanical Engineering Pondicherry Engineering College, Pondicherry	
6.		Prof. Leena Mary, HOD/Department of Mathematics	
7.	Members in the Department	Dr. T. Balasamy, Assistant Professor Department of Mechanical Engineering, GCE, Salem	
8.		Prof. A. Barunraj, Assistant Professor Department of Mechanical Engineering, GCE, Salem	
9.		Dr. S. Sivakrishni, Assistant Professor Department of Mechanical Engineering, GCE, Salem	
10.		Dr. R. Vivekanathan, Assistant Professor Department of Mechanical Engineering, GCE, Salem	
11.		Dr. M. Raja, Assistant Professor Department of Mechanical Engineering, GCE, Salem	
12.		Prof. R. Jeyaraj, Assistant Professor Department of Mechanical Engineering, GCE, Salem	
13.		Prof. K. Kavitha, Assistant Professor Department of Mechanical Engineering, GCE, Salem	
14.		Prof. P. Natarajan, Assistant Professor Department of Mechanical Engineering, GCE, Salem	

## Department of Electrical and Electronics Engineering

### Extracts from minutes of BOS curriculum and syllabi for III-VIII semester

#### ELECTRICAL AND ELECTRONICS ENGINEERING

##### MINUTES OF BOARD OF STUDIES IN EEE

01.02.2019

The Board of studies in Electrical and Electronics Engineering was held on 01.02.2019, at 10.00 AM, in the Seminar Hall, Department of EEE, Government College of Engineering, Salem – 636 011 to discuss and approve the Curriculum and Syllabi of Regulation 2018 for Under Graduate Programme Electrical and Electronics Engineering from III to VIII semester for the students admitted during 2018 – 2019 academic year and onwards and also to approve the syllabus of a special elective offered in the PG Programme. The following members were present:

#### ELECTRICAL AND ELECTRONICS ENGINEERING

##### MINUTES OF BOARD OF STUDIES IN EEE

01.02.2019

After going through the proposed syllabi content the members appreciated the efforts of the faculty members and approved the proposed curriculum and syllabi ( from third to eight semesters) of the UG-EEE under 2018 Regulation. The Chairman thanked all the members and the meeting came to an end by 2.15 PM.



HOD - EEE  
&  
Chairman / BOS in EEE



## Department of Electronics and Communication Engineering

### Extracts from minutes of BOS curriculum and syllabi for III-VIII semester



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
(Accredited by NBA)  
GOVERNMENT COLLEGE OF ENGINEERING, SALEM-11  
(An Autonomous Institution Affiliated to Anna University, Chennai)

DATE: 8.2.2019

#### Minutes of BoS meeting held on 5-2-2019 for UG Programme B.E ECE (FT)

The first BoS meeting to revise 2018 Regulations Curriculum and Syllabi for UG Programme B.E ECE (FT) was held on 5-2-2019 at Department of Electronics and Communication Engineering,

- Suggestions were given on renaming/replacement of the following subjects:
  - i) Electronic Devices and Circuits can be renamed as Semiconductor Physics and Devices
  - ii) Waveguides and Antenna can be replaced with Antennas and Wave Propagation
  - iii) Fourier Series, Fourier Transform and Z - Transform can be renamed as Complex variables and Transforms
  - iv) The elective course Telecom Switching System and Network Management can be renamed as Switching Theory.
  - v) The elective course, Testing of VLSI can be renamed as VLSI Testing.
- It was suggested to modify the contents of the two courses, Network theory and Synthesis, Microprocessor and Microcontroller was modified.
- Program Electives can be grouped under the subject domains such as Communication, VLSI, Signal Processing and RF.
- Courses like IoT, Biomedical Engineering, ASIC, Microwave ICs, Wireless Standards are added in Program elective list as per the suggestions given by the members
- Industry member, Thiru. Alagappan Krishnan suggested that adding courses on new concepts will be useful to understand the needs of Industrial automation. Based on this, courses like, Neural Networks, Artificial Intelligence and Machine Learning, JAVA, Python Programming and Pattern Recognition courses were recommended by the members as open elective courses for ECE students.

Based on the suggestions given by the members, necessary modifications were incorporated in 2018 regulations curriculum and syllabi.

*D.V. N. Thirumala*  
8/2/19  
BoS Chairperson/ECE

## Department of Computer Science and Engineering

### Extracts from minutes of BOS curriculum and syllabi for III-VIII semester

**GOVERNMENT COLLEGE OF ENGINEERING –SALEM-11**  
(Autonomous Institution affiliated to Anna University, Chennai)  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**Board of Studies**

**MINUTES OF MEETING**

The Board of Studies meeting was held on 22.02.2019.at 10.00 A.M in the Department of Computer Science and Engineering. The following points were discussed.

- In the third semester, topics of Searching and Sorting should be included in the first unit using array in Data Structures and Algorithms
- In the fourth semester, the course name - Object Oriented Programming can be changed as Object Oriented Programming Using C++.
- In the sixth semester, Web Technology can be included instead of Data Mining and Warehousing that may be useful for Mini Project.
- Multimedia Concepts should be included in Computer Graphics. The Course name Computer Graphics can be changed as Computer Graphics and Multimedia.
- In Seventh Semester, the course name Network Security and GUI Laboratory can be changed as Network Security.
- Latest editions may be suggested for the text book reference.
- Recent Technology such as Deep learning, Block Chain, Social Network Analysis, Software Defined Network and Green Computing may be included as elective subjects.
- Internships, MOOC courses, Induction programme are suggested to take up beyond the curriculum.

## Department of Metallurgical Engineering

### Extracts from minutes of BOS curriculum and syllabi for III-VIII semester



**Department of Metallurgical Engineering**  
**Government College of Engineering, Salem-11**  
(An Autonomous Institution, Affiliated to Anna University, Chennai)

11.02.2019

**MINUTES OF THE BOARD OF STUDIES MEETING OF B.E. METALLURGICAL  
ENGINEERING PROGRAMME AS PER AICTE MODEL CURRICULUM – 2018  
REGULATION**

- First, the Chairman of BOS Prof. P.Sundararaj welcomed the BOS Members.
- After detailed discussions, the Committee finalized and approved the Curriculum and Syllabus of 2018 regulation of B.E., Metallurgical Engineering Programme. The approved Curriculum and Syllabus is enclosed with Minutes of the Meeting.
- The Academic Expert members Dr.S.Raman Sankarnarayanan, Dr.B.Ravishankar and Dr.R.Subramanian recommended to introduce the following experiments in the respective Laboratories:

S.No.	Course Code	Course Name	Experiments title to be modified
1	18MT404	Materials Testing Laboratory	<ul style="list-style-type: none"><li>• Tensile testing of base material</li><li>• Tensile testing of weldments</li><li>• Bend test of base materials /weldments</li></ul>

- Dr.S.Raman Sankarnarayanan and Dr.B.Ravishankar recommend the Course "Welding Process and Metallurgy & Foundry processes and Metallurgy" as Professional courses instead of Professional Elective courses.
- Dr.R.Subramanian recommended to add [www.matter.org](http://www.matter.org) / [www.doitpoms.sc.uk](http://www.doitpoms.sc.uk) as E-reference for the course 18MT301.



## Department of Civil Engineering

### Extracts from minutes of BOS curriculum and syllabi for III-VIII semester

GOVERNMENT COLLEGE OF ENGINEERING, Salem -636 011

(An Autonomous Institution affiliated to Anna University- Chennai)

DEPARTMENT OF CIVIL ENGINEERING

Minutes of Board of Studies Meeting held on 18.02.2019

To approve the Curriculum and Syllabus of Regulation 2018 for B.E Civil Engineering (Full Time and Part Time)

It is resolved to implement the following suggestions

1. All the Course objectives have to be worked based on Blooms Taxonomy with individual objectives and five Course outcomes for each subject.

"Engineering mechanics and solids" paper in third semester is renamed as "Mechanics of Solids" with revision in syllabus pertaining to solid mechanics.

Revision in syllabus for the subject "Professional practice, ethics and building byelaws" in seventh semester is to be made.

Geotechnical Engineering paper was divided into two papers; Mechanics of Soils and Foundation Engineering.

Demonstration of Total station is added in survey practical syllabus

Structural Analysis I is renamed as Basic Structural Analysis and Structural Analysis II is renamed as Advanced Structural Analysis and necessary corrections in contents to be made.

Environmental Engineering paper is divided into Water Supply Engineering in fourth semester and Waste Water Engineering in sixth semester.

It is recommended that students need to undergo Internship/Industrial training/Academic attachment for a period of minimum four weeks in the sixth semester vacation and the evaluation need to be done in Seventh Semester.

Total Number of Open Electives is reduced to two and addition of Professional core subjects viz., namely Foundation Engineering and Water Supply Engineering are to be introduced instead.

# Minutes of Board of Studies (BOS) meeting specifying the syllabus approval of new courses

R 2022

## Department of Science and Humanities

### Extracts from minutes of BOS curriculum and syllabi for I and II semester

GOVERNMENT COLLEGE OF ENGINEERING, SALEM-11

DEPARTMENT OF SCIENCE AND HUMANITIES

16.02.2022

Constitution of Board of studies in the Department of Science and Humanities

The members of Board of studies in Science and Humanities departments for the period 2022 – 23 are as follows.

Heads	Name
Chairman	Dr. S. Prakash, Professor & Head/ Chemistry
Members	Dr.K.Saranya, Assistant Professor/ Physics Mrs.S.Deepa, Assistant Professor/ Physics Mrs.K.Poornima, Assistant Professor/ Chemistry Dr.T.Venugopal, Assistant Professor/ Chemistry Mr.V.Mahadevan, Assistant Professor/ Mathematics Mr.G.Sivanesan, Assistant Professor/ Mathematics Mr.P.Sakthivel, Assistant Professor/English Mr.N. K. Vivekanandhan, Assistant Professor/English Dr. D. Shoba Rajkumar, Professor & Head/ Civil Dr. A. M. Kalpana, Professor (CAS) & Head/CSE Dr. C. Vasanthanayaki, Professor & Head/ECE Dr. V. Geetha, Professor & Head/ EEE Dr. T. Balusamy, Professor (CAS) & Head/MECH Prof. D. Noorullah, Associate Professor & Head/MET
University Nominee	Dr. G. Nagasubramaniyan, Associate Professor, Department of Humanities and Social Sciences, National Institute of Technology, Tiruchirappalli – 620015. E-Mail: <a href="mailto:nagus@nitt.edu">nagus@nitt.edu</a> Contact number: +91 (431) 2501801

## Department of Mechanical Engineering

### Extracts from minutes of BOS curriculum and syllabi for III-VIII semester

Government College of Engineering, Salem – 636 011  
Department of Mechanical Engineering

#### Minutes of Board of Studies Meeting

(27-05-2022)

The Board of studies meeting was conducted in the department of Mechanical Engineering on 27<sup>th</sup> May 2022 at 10.30 am through online mode.

#### **Agenda 3 Approval of Curriculum of B.E Mechanical Engineering for semesters III – VIII (2022-Regulations)**

✓ B.E. Mechanical Engineering (Full Time)

The curriculum of B.E (Full Time)- Mechanical Engineering for semesters III- VIII was discussed in the meeting and the suggestions made by the members have been incorporated in the corrected copies. (Annexure-3)

#### **Agenda 4: Approval of Syllabi for III to VIII semester – Year (2022-Regulations)**

It was resolved to approve all the suggestions made by the members and each suggestion has been incorporated in the respective syllabus. (Annexure - 4)

#### **Agenda 5: Approval of Curriculum for B.E (Part-Time) I to VII semester – Year (2022-Regulations)**

✓ B.E. Mechanical Engineering (Part Time)

The curriculum of B.E (Full Time)- Mechanical Engineering for semesters I- VII was discussed in the meeting and the suggestions made by the members have been incorporated in the corrected copies. (Annexure-5)

#### **Agenda 6: Approval of Syllabi for B.E (Part-Time) I to VII semester – Year (2022-Regulations)**

✓ B.E. Mechanical Engineering (Part Time)

✓

It was resolved to approve all the suggestions made by the members and each suggestion has been incorporated in the respective syllabus. (Annexure - 6)

## Department of Electrical and Electronics Engineering

### Extracts from minutes of BOS curriculum and syllabi for III-VIII semester



GOVERNMENT COLLEGE OF ENGINEERING, SALEM-636011

DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
ENGINEERING

#### Minutes of Board of Studies Meeting

The Electrical and Electronics Engineering Board of Studies meeting for 2022 regulations was held on 11-07-2022 at 02.30 pm through online mode <https://meet.google.com/gnj-yrst-zus>.

GCE, Salem

The Chairman welcomed the members of BOS and presented the Agenda as follows:

- Approval of FAB LAB inclusion in the sixth semester of 2018 Regulations ( For BE-FT-EEE)
- Approval of 2022 regulations - BE EEE Curriculum and Syllabi (For FT & PT)
- Approval of 2022 regulations - Curriculum and Syllabi for ME (FT & PT) – Power Electronics and Drives

After discussion, the proposed three items were accepted and approved by all the members of BOS in EEE. The Chairman thanked all the members and the meeting came to an end by 5pm.

V. Senthil

## Department of Electronics and Communication Engineering

### Extracts from minutes of BOS curriculum and syllabi for III-VIII semester



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
(Accredited by NBA)  
GOVERNMENT COLLEGE OF ENGINEERING, SALEM-II  
(An Autonomous Institution Affiliated To Anna University, Chennai)

Date: 06.05.2022

#### Minutes of BoS Meeting

Agenda: Regulation 2022 - Revision of curriculum for UG (FT & PT) Programme and PG (Communication Systems)

The first BoS meeting to revise the 2022 Regulation and frame the Curriculum for UG Programme B.E.ECE (FT & PT) and PG Programme (M.E Communication Systems) was held online (G-Meet) on 19.04.2022 at the Department of Electronics and Communication Engineering, GCE, Salem-II.

#### Subjects included in Ratification:

**Ref1:** The Announcement made by the Honourable Minister of Higher Education for the year 2021 - 2022, dated: 26.08.2021

**Ref2:** UGC: D.O No: 1-18/2019 Dated: 15.04.2021

NCC wing commander letter no: 131/Trg, Dated: 19.05.2021

Letter from Associative NCC officer, GCE Salem, Dated: 16.05.2022

**Ref3:** AICTE 2018 Model Curriculum Vol-1 Page: 16-23 Addendum in Model

**Ref4:** Letter No. 3769/AU/CAC/2022

Curriculum for Undergraduate Degree course in Engineering and Technology.

- Based on Ref1 the course "Engineering Sprint" of 1 credit is introduced in the curriculum, based on an assessment, a total of 45 students will be selected to continue Fab Lab/Protosem with 22 credits instead of the regular sixth semester.
- Based on Ref2 NCC cadets will be studying two NCC courses each of 3 credits in semesters II and III.
- Based on Ref3 a 3 credit Universal Human Value Course will be introduced in the semester II.
- Based on Ref4 "Professional Readiness for Innovation, Employability and Entrepreneurship", with 3 credits is included in 7<sup>th</sup> semester students.



## Department of Computer Science and Engineering

### Extracts from minutes of BOS curriculum and syllabi for III-VIII semester

#### GOVERNMENT COLLEGE OF ENGINEERING,SALEM-11 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

##### Minutes of Meeting

The first Board of Studies meeting for approving the curriculum and syllabus for Regulation 2022 (R2022) (I to IV semesters) and revision of curriculum for the Regulation 2018 (R2018) (VI to VIII semester) was held on 16.06.2022 at 10.30 a.m in the CSE Department.

#### GOVERNMENT COLLEGE OF ENGINEERING,SALEM-11 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

##### Minutes of Meeting

The first Board of Studies meeting for approving the curriculum and syllabus for Regulation 2022 (R2022) (I to IV semesters) and revision of curriculum for the Regulation 2018 (R2018) (VI to VIII semester) was held on 16.06.2022 at 10.30 a.m in the CSE Department.

The Head of the Department formally presented the following:

- The changes in curriculum R2018 (VI to VIII semester)- the Fablab/Protosem has been introduced which offers 8 modules totalling 24 credits each of 3 credit courses in VI semester. Hence, the core subjects in VI semester (Theory and Practical) has been moved to VII semester.
- The credits in VII, VIII semester has been modified as 18 and 15 respectively in which there is no change in the overall credits (160) in R 2018.
- Inculcating experiential project based learning, assessment and evaluation through an EEC category elective course- **Professional Readiness for Innovation, Employability and Entrepreneurship** with 3 credits in the academic curriculum in R2018 (VII semester). The same course has been followed in R2022 in VII semester.
- The Fablab/Protosem has been inculcated from II to VI semester in R2022 in which from II to V semester with 1 credit courses and in VI semester totalling 24 credits each of 3 credit courses has been introduced.



## Department of Metallurgical Engineering

### Extracts from minutes of BOS curriculum and syllabi for III-VIII semester

Government College of Engineering, Salem – 636 011  
Department of Metallurgical Engineering

#### Minutes of Board of Studies Meeting (27-06-2022)

The Board of studies meeting was conducted in the Department of Metallurgical Engineering on 27<sup>th</sup> JUNE 2022 at 10.30 am through online

#### **Agenda 1 Approval of Curriculum of B.E Metallurgical Engineering for semesters III – VIII (2022-Regulations)**

##### ✓ B.E. Metallurgical Engineering (Full Time)

The curriculum of B.E (Full Time)- Metallurgical Engineering for semesters III- VIII was discussed in the meeting and the suggestions made by the members have been incorporated **including mathematics subjects** in the corrected copies.

#### **Agenda 2: Approval of Syllabi for III to VIII semester – Year (2022-Regulations)**

It was resolved to approve all the suggestions made by the members and each suggestion has been incorporated **including mathematics subjects** in the respective syllabus.


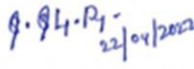
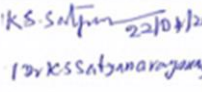
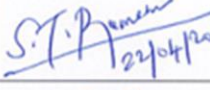

## Department of Civil Engineering

### Extracts from minutes of BOS curriculum and syllabi for III-VIII semester

#### GOVERNMENT COLLEGE OF ENGINEERING, SALEM DEPARTMENT OF CIVIL ENGINEERING

Date: 18.03.2022

The Curriculum and Syllabus of 2022 regulations of B.E. Civil Engineering (FT & PT) for III & IV semesters and Curriculum and Syllabus of 2022 regulations of M.E. Structural Engineering (FT & PT) for I & II semesters is approved by the members of Board of Studies.

Sl. No.	Category	Name	Signature
1	Chairman	Dr.D.Shoba Rajkumar, Professor and Head, Department of Civil Engineering, GCE, Salem.	
2	University Nominee	Dr.S.Shanmuga Priya, Associate Professor, Department of Civil Engineering, Coimbatore Institute of Technology, Civil Aerodrome Post, Coimbatore.	
3	Academic Subject Experts – B.E. Civil Engineering	Dr. K.S. Satyanarayanan, Professor & Head, Department of Civil Engineering, Kattankulathur Campus,SRM Institute of Science and Technology.	
4		Dr. S. T. Ramesh, Professor, Department of Civil Engineering, NIT Trichy, Tiruchirappalli.	
5	Academic Subject Experts – M.E. Structural Engineering	Dr.V.Rajkumar, Professor & Head, Department of Civil Engineering, GCE, Dharmapuri.	
6		Dr.T. Palanisamy, Associate Professor, Department of Civil Engineering, NIT Karnataka, Surathkal, Mangalore.	