



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



22 Sep, 2020

SECOND ACADEMIC COUNCIL MEETING LIST OF MEMBERS

| SL. NO. | MEMBERS AS PER UGC NORMS | MEMBERS NOMINATED |
|---------|---|--|
| 1. | The Principal (Chairman) | Dr. C. Venkatesh |
| 2. | All the Heads of Departments in the college | <ol style="list-style-type: none">1. Dr. R. Shanmugam, Chairman, BOS / Civil2. Dr. M. Sakthivel, Chairman, BOS / CSE3. Dr. C. Aarthi, Chairman, BOS / ECE4. Dr. K. Umadevi, Chairman, BOS / EEE5. Dr. M. Selvakumar, Chairman, BOS / Mech6. Dr. P. Govindasamy Chairman, BOS / MBA7. Prof. P. Thangarasu, Chairman, BOS / Chemistry |
| 3. | Four Teachers of the college representing different categories of teaching staff by rotation on the basis of seniority of service in the college. | <ol style="list-style-type: none">1. Dr. B. Sujatha, Dean (Academics)2. Dr. G. Jayamurugan, AsP / CSE3. Prof. T. Gohila, AsP/ EEE4. Prof. S. Bhuvana, HOD / English |
| 4. | Not less than four experts from outside the college representing such area as Industry, Commerce, Law, Education, Medicine, Engineering, etc., To be nominated by the Governing Body. | <ol style="list-style-type: none">1. Mr. V. S. Ramesh, Director, M/s. STEPS Knowledge Services Pvt. Ltd, Coimbatore.2. Shri T.N. Thirukkumar, MD, Jansons Industries, Tiruchengode.3. Dr. N. Nagarajan, Principal, Coimbatore Institute of Engineering and Technology, Coimbatore.4. Dr. R. Satish Kumar, Principal, Sengunthar College of Engineering, Tiruchengode. |
| 5. | Three nominees of the university | <ol style="list-style-type: none">1. Dr. K. Chinnakali, Professor/Physics, CEG, Anna University, Chennai-25.2. Dr. B. Kothandaraman, Professor/Rubber and Plastic Technology, Anna University, Chennai-44.3. Dr. S. Moorthy Babu, Professor/Crystal Growth Centre, Anna University, Chennai-25. |
| 6. | A faculty member nominated by the Principal (Member Secretary). | Dr. K. L. Palanisamy, Chairman, BOS / S& H |





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



SECOND ACADEMIC COUNCIL MEETING

22 Sep, 2020

AGENDA

- | Item No. | Points to be discussed |
|------------|---|
| Item 2.2 a | To confirm the minutes of the first academic council meeting. |
| Item 2.2 b | To discuss and resolve recommendations of Second Board of Studies meeting held during the month of August 2020 for the entire Departments (UG/PG). |
| Item 2.2 c | To approve the Ratifications and changes in the subject code and titles in curriculum without the alteration of the syllabi. |
| Item 2.2 d | To approve and conduct online examinations, question paper pattern (MCQ) and evaluation of the Final semester for the Undergraduate and Postgraduate students in this pandemic outbreak. |
| Item 2.2 e | To Approve Question paper setters and evaluators recommended by the Board of Studies for the entire departments (UG/PG) for the Academic year 2020-2021. |
| Item 2.3 | To approve the Publication of the results of Regular Courses of Undergraduate and Postgraduate programmes from first to pre-final years (except final semesters) for April/May 2020 End Semester Examinations of the Academic Year 2019 – 2020, as per the guidelines of Revenue and Disaster Management (D.M.IV) Department, Govt. of Tamil Nadu and Anna University, Chennai in view of pandemic situation. |
| Item 2.4 | The plan of action for the academic year 2020 – 2021 in the view of COVID -19. |
| Item 2.4 a | To discuss the modalities for conducting Online classes and Online Assessment in this pandemic situation. |
| Item 2.4 b | To discuss and approve the Inclusion of blended learning. |
| Item 2.5 | Any other items brought forward by the Chairman and the members of the Academic Council. |





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



I. LIST OF MEMBERS PRESENT

The Second Academic Council Meeting of **SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)** held on 22.09.2020 at 11.00 a.m. through Google Meet in IQAC board Room with the presence of internal board members during this COVID-19 pandemic situation. The following Members were attended the meeting.

| S. No. | Name of the Faculty & Designation | Position in Committee | Signature with Date |
|--------|--|-----------------------|---------------------------------------|
| 1 | Dr.C.Venkatesh, Principal, Sengunthar Engineering College. | Chairman | <i>Ammanabath</i> 22/09/2020 |
| 2 | Dr. K. Chinnakali, Professor/Physics, CEG, Anna University, Chennai-25. | University Nominee | Attended through Google Meet |
| 3 | Dr. B. Kothandaraman, Professor/Rubber and Plastic Technology, Anna University, Chennai-44. | University Nominee | Attended through Google Meet |
| 4 | Dr. S. Moorthy Babu, Professor/Crystal Growth Centre, Anna University, Chennai-25. | University Nominee | Attended through Google Meet |
| 5 | Mr. V. S. Ramesh, Director, M/s. STEPS Knowledge Services Pvt. Ltd, Coimbatore. | Industrial Expert | Attended through Google Meet |
| 6 | Shri T.N. Thirukkumar, MD, Jansons Industries, Tiruchengode. | Industrial Expert | Attended through Google Meet |



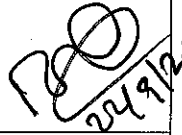
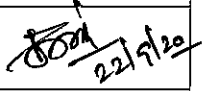
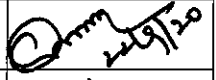
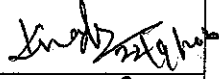
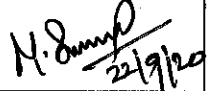
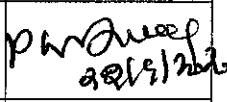
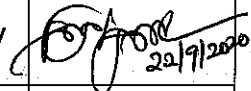
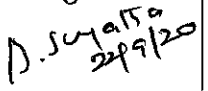

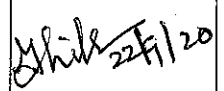
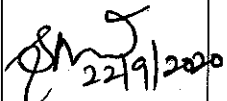
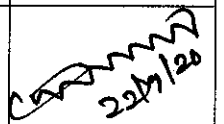


SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| | | | |
|----|---|---|--|
| 7 | Dr. N. Nagarajan, Principal, Coimbatore Institute of Engineering and Information Technology, Coimbatore. | Academic Expert | Attended through Google Meet |
| 8 | Dr. R. Satish Kumar, Principal, Sengunthar College of Engineering, Tiruchengode. | Academic Expert |  22/9/2020 |
| 9 | Dr. R. Shanmugam | Chairman, BOS / Civil | R. Shanmugam 22/9/20 |
| 10 | Dr. M. Sakthivel | Chairman, BOS / CSE |  22/9/20 |
| 11 | Dr. C. Aarthi | Chairman, BOS / ECE |  22/9/20 |
| 12 | Dr. K. Umadevi | Chairman, BOS / EEE |  22/9/20 |
| 13 | Dr. M. Selvakumar | Chairman, BOS / Mech |  22/9/20 |
| 14 | Dr. P. Govindasamy | Chairman, BOS / MBA |  22/9/2020 |
| 15 | Prof. P. Thangarasu | Chairman, BOS / Chemistry |  22/9/2020 |
| 16 | Dr. B. Sujatha Dean (Academics) | Teacher Representative |  22/9/20 |
| 17 | Dr. G. Jayamurugan AsP / CSE | Teacher Representative |  22/9/2020 |
| 18 | Prof. T. Gohila AsP / EEE | Teacher Representative |  22/9/20 |
| 19 | Prof. S. Bhuvana HoD / English | Teacher Representative |  22/9/2020 |
| 20 | Dr. K. L. Palanisamy, Chairman, BOS / S & H | Faculty Nominated by the Principal (Member Secretary) |  22/9/20 |





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



II. MINUTES OF THE MEETING

The Second Meeting of the Academic Council of **SENGUNTHAR ENGINEERING COLLEGE, TIRUCHENGODE** was held on 22nd September, 2020, Tuesday at 11.00 a.m. in the Internal Quality Assurance Cell under the Chairmanship of Dr.C.Venkatesh, Principal. On account of the COVID - 19 pandemic outbreaks, all the members were participated through Online Google meet.

At the outset, The Principal and Chairperson extended a warm welcome and briefed the Agenda of the Second Meeting of the Academic Council.

Then, the proceedings of the meeting was continued by Dr.K.L.Palanisamy, Member Secretary, Academic Council and he elaborated all the points to be resolved for subsequent approval from the members of the Academic Council for the academic year 2020 - 2021.

After a brief discussion, the following resolutions were passed.

ITEM:2.2 a To confirm the minutes of the First Academic Council meeting.

The Academic Council **resolved to confirm** the minutes of the First Council Meeting held on 24th July, 2019, unanimously without any modification.

ITEM:2.2 b To discuss and resolve recommendations of Second Board of Studies meeting held during the month of August 2020 for the Entire Departments (UG/PG).

The Academic Council reviewed the Minutes of the Second Meeting of Board of Studies which was conducted during the month of August as given below:





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



- 25.08.2020 - CSE, S & H and MBA
- 26.08.2020 - ECE, EEE and Mechanical
- 28.08.2020 - Civil.

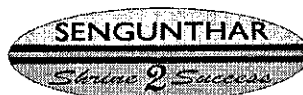
The Academic Council **resolved to approve** the Syllabi for III Semester under Regulations 2019 for all UG Programmes in CIVIL, CSE, ECE, EEE, Mechanical & Science and Humanities. Further the Academic Council is **resolved** to approve the Syllabi for III Semester under Regulations 2019 for PG Programmes in CSE, VLSI Design, Structural Engineering and MBA brought forward by the respective Chairman of Board of Studies incorporating the changes as mentioned in the minutes.

ITEM:2.2 c To approve the ratifications and changes in the subject code and titles in curriculum without the alteration of the syllabi.

The Academic Council is **resolved** to approve the ratifications and changes in the subject code and titles in curriculum without the alteration of the syllabi offered.

ITEM:2.2 d To approve and conduct online examinations, question paper pattern (MCQ) and evaluation of the Final semester for the Undergraduate and Postgraduate students in this pandemic outbreak.

Academic Council noted the Letter No. G.O. (Ms) No.505, dated 19.09.2020 received from Revenue and Disaster Management (D.M.IV) Department, Govt. of Tamil Nadu and Letter No.Endt.No.Dis.19642 / J1 / 2020, dated 21.09.2020 received from Directorate of Technical Education, Chennai. The Academic Council is **resolved** to approve the conduct of online examination, question paper pattern (answer any 30 MCQs from 40) and evaluation of the final semester for the





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



undergraduate and postgraduate students as per the directions of Revenue and Disaster Management (D.M.IV) Department, Govt. of Tamil Nadu and Anna University, Chennai.

ITEM:2.2 e To Approve Question paper setters and evaluators recommended by the Board of Studies for the entire departments (UG/PG) for the Academic year 2020-2021.

The Academic Council reviewed and **resolved** to approve the Question paper setters and evaluators recommended by the Board of Studies for the entire departments for the academic year 2020-2021.

The Academic Council is **resolved** to approve that the End Semester Practical Exam Question Papers are to be set by the Internal Examiners and the concurrence will be obtained from the External Examiners in person at least half an hour before the commencement of the End Semester Practical Examinations. It is included in the curriculum as amendment for clear reference.

ITEM:2.3 To approve the Publication of the results of Regular Courses of Undergraduate and Postgraduate programmes from first to pre-final years (except final semester) for April / May 2020 End Semester Examinations of the Academic Year 2019-2020, as per the guidelines of Revenue and Disaster Management (D.M.IV) Department, Govt. of Tamil Nadu and Anna University, Chennai in view of pandemic situation.

Academic Council noted the Letter No. அரசாணை (டி) எண்.111, dated 27.07.2020 received from உயர்கல்வித்(கே2)துறை, Government of Tamil Nadu and Letter No. 017053 / ECA3 / 2020, dated 07.08.2020 received from Directorate of Technical Education, Chennai. The Academic Council is **resolved** to approve the Publication of the results of Undergraduate and Postgraduate programmes from first to pre-final years (except final semester) for April / May 2020.





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



ITEM:2.4 The plan of action for the academic year 2020 – 2021 in the view of COVID -19.

The Academic Council reviewed and **resolved** to approve the plan of action for the academic year 2020 – 2021 in the view of COVID -19.

ITEM:2.4 a To discuss the modalities for conducting Online classes and Online Assessment in this pandemic situation.

Academic Council noted the **Letter No. 2131/ AU / CAC / Autonomous / 2020 dated on 19.09.2020** received from Anna University, Chennai along with the notification of the Previous Letter No. 2055/ AU / CAC / INT ASS / 2020 dated on 15.09.2020, received from Anna University, Chennai regarding modalities for conducting the Online Classes and Online Assessment.

The Academic Council is **resolved** to conduct Online classes and Online Assessment in this pandemic situation.

ITEM:2.4 b To discuss and approve the Inclusion of blended learning.

The Academic Council is **resolved** to continue the teaching – learning progress education through Blended learning.

ITEM:2.5 Any other items brought forward by the Chairman and the members of the Academic Council.

Nil



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

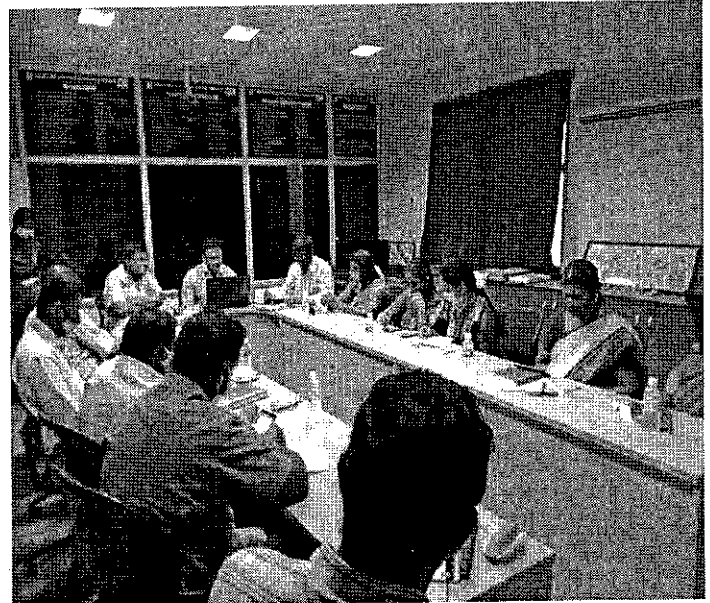
(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



The Chairman summarized the various decisions taken by the Academic Council and Dr.K.L.Palanisamy, Member Secretary, Academic Council thanked all the members for their active participation and valuable suggestions on various points discussed in the Google Online meeting.

The Meeting concluded by 11.50 a.m.



Amunshahishw
22/09/2020

Dr. C. VENKATESH
PRINCIPAL
CHAIRMAN-ACADEMIC COUNCIL



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



27 March, 2021

THIRD ACADEMIC COUNCIL MEETING

LIST OF MEMBERS

| SL. NO. | MEMBERS AS PER UGC NORMS | MEMBERS NOMINATED |
|---------|---|--|
| 1. | The Principal (Chairman) | Dr. C. Venkatesh |
| 2. | All the Heads of Departments in the college | <ol style="list-style-type: none">1. Dr. M. Seenirajan, Chairman, BOS / Civil2. Dr. M. Sakthivel, Chairman, BOS / CSE3. Dr. C. Aarathi, Chairman, BOS / ECE4. Dr. K. Umadevi, Chairman, BOS / EEE5. Dr. M. Selvakumar, Chairman, BOS / Mech6. Dr. P. Govindasamy Chairman, BOS / MBA7. Prof. P. Thangarasu, Chairman, BOS / Chemistry |
| 3. | Four Teachers of the college representing different categories of teaching staff by rotation on the basis of seniority of service in the college. | <ol style="list-style-type: none">1. Dr. B. Sujatha, Dean (Academics)2. Dr. G. Jayamurugan, AsP / CSE3. Prof. T. Gohila, AsP/ EEE4. Prof. S. Bhuvana, HOD / English |
| 4. | Not less than four experts from outside the college representing such area as Industry, Commerce, Law, Education, Medicine, Engineering, etc., To be nominated by the Governing Body. | <ol style="list-style-type: none">1. Mr. V. S. Ramesh, Director, M/s. STEPS Knowledge Services Pvt. Ltd, Coimbatore.2. Shri T.N. Thirukkumar, MD, Jansons Industries, Tiruchengode.3. Dr. N. Nagarajan, Principal, Coimbatore Institute of Engineering and Technology, Coimbatore.4. Dr. R. Satish Kumar, Principal, Sengunthar College of Engineering, Tiruchengode. |
| 5. | Three nominees of the university | <ol style="list-style-type: none">1. Dr. K. Chinnakali, Professor/Physics, CEG, Anna University, Chennai-25.2. Dr. B. Kothandaraman, Professor/Rubber and Plastic Technology, Anna University, Chennai-44.3. Dr. S. Moorthy Babu, Professor/Crystal Growth Centre, Anna University, Chennai-25. |
| 6. | A faculty member nominated by the Principal (Member Secretary). | Dr. K. L. Palanisamy, Chairman, BOS / S& H |



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



27 March, 2021

THIRD ACADEMIC COUNCIL MEETING AGENDA

- | Item No. | Points to be Discussed |
|--------------|--|
| Item 3.1 | To confirm the minutes of the Previous (Second) Academic Council meeting held on 22.09.2020. |
| Item 3.2 | To ratify the conduction of the Supplementary Examination for the students who were absent for the examinations and for some who could not complete the Proctored Online End Semester Examinations April/May 2020 due to technical glitches such as problem in the internet connectivity, disruption of electricity and device problems. |
| Item 3.3 | To ratify the Publication of Result for the Terminal Semester Examinations (April / May 2020) of all UG/PG Programmes. |
| Item 3.4 | To ratify the Conduction of the End Semester (Odd Semester) Examinations of UG/PG students and arrear subjects during Nov/Dec 2020 of the Regulations 2017 and the Regulations 2019 as per the direction given by Anna University, Chennai to the Autonomous Colleges (applicable to pandemic period of covid-19). |
| Item 3.5 | To consider and approve the B.E. Civil Engineering Programme Syllabi from V to VIII Semesters under Regulations 2019. |
| Item 3.6 | To consider and approve the B.E. Computer Science and Engineering Programme Syllabi from V to VIII Semesters under Regulations 2019. |
| Item 3.7 | To consider and approve the B.E. Electrical and Electronics Engineering Programme Syllabi from V to VIII Semesters under Regulations 2019. |
| Item 3.8 | To consider and approve the B.E. Electronics and Communication Engineering Programme Syllabi from V to VIII Semesters under Regulations 2019. |
| Item 3.9 | To consider and approve the B.E. Mechanical Engineering Programme Syllabi from V to VIII Semesters under Regulations 2019. |
| Item 3.10(a) | To ratify the constitution of Academic Steering Committee and its functions. |



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



- Item 3.10(b) To ratify all the minutes of the meeting of the Academic Steering Committee.
- Item 3.11(a) To ratify the conduction of Theory / Practical / Project classes for the UG / PG programmes through Physical / Online Mode in the Even Semester (Except second semester UG/PG) for the academic year 2020-2021.
- Item 3.11(b) To approve the conduction of Theory / Practical / Project classes for the UG / PG programmes through Physical / Online Mode in the Second Semester UG/PG for the academic year 2020-2021.
- Item 3.12 To ratify the modalities to conduct the Continuous Internal Assessment for UG / PG programmes of the Regulations 2017 and the Regulations 2019 in the Even Semester (Except Second Semester) for the academic year 2020-2021.
- Item 3.13 To discuss and approve the modalities to conduct the Continuous Internal Assessment for UG / PG programmes of Regulations 2019 in the Second Semester for the academic year 2020-2021.
- Item 3.14 To discuss and approve the modalities to conduct the End Semester Examinations of Even Semester for the academic year 2020-2021 to the UG / PG programmes for the Regulations 2017 and the Regulations 2019.
- Item 3.15 To discuss and approve for the conduction of Virtual Internship, Value added Courses, accomplish of Conferences, Symposia, Workshops and Webinars in the Even Semester for the academic year 2020-2021 to the UG / PG programmes.
- Item 3.16 To suggest the Governing Body for the proposal of new programme of study in the academic year 2021-2022.
- Item 3.17 To suggest the Governing Body for providing Awards to the students for their Outstanding Performance in the Academic and the Extracurricular Activities.
- Item 3.18 To discuss and approve the composition of Selection Committee to Honor the Outstanding performance of both the students and the faculty members.
- Item 3.19 Any other matter brought forward by the Chairman and the members of the Academic Council.



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

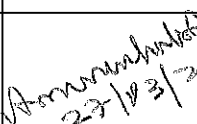
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



I. LIST OF MEMBERS PRESENT

The Third Academic Council Meeting was held on 27.03.2021, Saturday at 11.00 a.m. in the IQAC board Room through Google online meet under the Chairmanship of Dr.C.Venkatesh, Principal along with the presence of internal board members during this COVID-19. The following Members were attended the meeting.

| S. No. | Name of the Faculty & Designation | Position in Committee | Signature with Date |
|--------|--|-----------------------|---|
| 1 | Dr.C.Venkatesh, Principal, Sengunthar Engineering College. | Chairman |  27/03/2021 |
| 2 | Dr. K. Chinnakali, Professor/Physics, CEG, Anna University, Chennai-25. | University Nominee | Attended through Google Meet |
| 3 | Dr. B. Kothandaraman, Professor/Rubber and Plastic Technology, Anna University, Chennai-44. | University Nominee | Attended through Google Meet |
| 4 | Dr. S. Moorthy Babu, Professor/Crystal Growth Centre, Anna University, Chennai-25. | University Nominee | Attended through Google Meet |
| 5 | Mr. V. S. Ramesh, Director, M/s. STEPS Knowledge Services Pvt. Ltd, Coimbatore. | Industrial Expert | Attended through Google Meet |
| 6 | Shri T.N. Thirukkumar, MD, Jansons Industries, Tiruchengode. | Industrial Expert | Attended through Google Meet |
| 7 | Dr. N. Nagarajan, Principal, Coimbatore Institute of Engineering and Information Technology, Coimbatore. | Academic Expert | Attended through Google Meet |



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| | | | |
|----|--|---|----------------|
| 8 | Dr. R. Satish Kumar, Principal, Sengunthar College of Engineering, Tiruchengode. | Academic Expert | 27/3/2021 |
| 9 | Dr. M. Seenirajan | Chairman, BOS / Civil | 27.3.21 |
| 10 | Dr. M. Sakthivel | Chairman, BOS / CSE | 27/3/21 |
| 11 | Dr. C. Aarthi | Chairman, BOS / ECE | 27/3/21 |
| 12 | Dr. K. Umadevi | Chairman, BOS / EEE | 27/3/21 |
| 13 | Dr. M. Selvakumar | Chairman, BOS / Mech | 27/3/21 |
| 14 | Dr. P. Govindasamy | Chairman, BOS / MBA | 27/3/2021 |
| 15 | Prof. P. Thangarasu | Chairman, BOS / Chemistry | 27/3/2021 |
| 16 | Dr. B. Sujatha Dean (Academics) | Teacher Representative | 27/03/2021 |
| 17 | Dr. G. Jayamurugan AsP / CSE | Teacher Representative | 27/3/21 |
| 18 | Prof. T. Gohila AsP / EEE | Teacher Representative | 27/3/21 |
| 19 | Prof. S. Bhuvana HoD / English | Teacher Representative | 27/3/21 |
| 20 | Dr. K. L. Palanisamy, Chairman, BOS / S & H | Faculty Nominated by the Principal (Member Secretary) | 27/3/21 |

II. MINUTES OF THE MEETING

The Third Academic Council meeting was held on 27.03.2021 at 11.a.m. through Google Meet (Online Mode) with the approval of Centre for Academic Courses, Anna





SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



University, Chennai (CAC Letter No: 167/AU/CAC/2021, Dated: 19.01.2021) as in **Annexure I**. This permission is granted as a special case and one time measure only in view of the prevailing COVID 19 situation. Besides, On account of COVID - 19 pandemic outbreaks, all the members were participated through Online Google meet.

The meeting began with the welcome address by the Principal Dr.C. Venkatesh, Chairman of the Academic Council, Sengunthar Engineering College (Autonomous). Then, the proceedings of the meeting were continued by Dr.K.L. Palanisamy, Member Secretary, Academic Council and he outlined briefly the various agenda items to be presented at the meeting. After a brief discussion, the following agenda items are considered and resolved by the 3rd Academic Council.

Item 3.1 To confirm the minutes of the Previous (Second) Academic Council meeting held on 22.09.2020.

The minutes of the 2nd **Academic** Council Meeting which was held on **22/09/2020**, were communicated to the members through email dated **23/09/2020**. The comments received have been incorporated and placed for confirmation. The same was **approved** by the council.

Item 3.2 To ratify the conduction of the Supplementary Examination for the students who were absent for the Proctored Online End Semester Examinations April/May 2020 and for some who could not complete the examinations due to technical glitches such as problem in the internet connectivity, disruption of electricity and device problems.

The Academic Council noted the Letter number: 15189/C12/2020, dated: 21.11.2020 as in **Annexure II** received from Anna University, Chennai and **Resolved to approve** the conduction of the Supplementary Examination





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



for the students who were absent for the Proctored Online End Semester Examinations April/May 2020 and for some who could not complete the examinations due to technical glitches such as problem in the internet connectivity, disruption of electricity and device problems.

Item 3.3 To ratify the Publication of Result for the Terminal Semester Examinations April / May 2020 of all UG/PG Programmes.

The Academic Council noted the Letter number: 2265/AU/CAC/Final Yr Mod/2020, dated: 01.10.2020 as in **Annexure III** received from the Centre for Academic Courses, Anna University, Chennai and **Resolved to approve** the Publication of Result for the Terminal Semester Examinations April / May 2020 of all UG/PG Programmes.

Item 3.4 To ratify the Conduction of the End Semester (Odd Semester) Examinations of UG / PG students and arrear subjects during Nov/Dec 2020 of the Regulations 2017 and the Regulations 2019 as per the direction given by Anna University, Chennai to the Autonomous Colleges (applicable to pandemic period of Covid-19).

The Academic Council noted the following letters

1. Letter No: 19707/C12/2020, dated: 23.11.2020 received from Anna University, Chennai,
2. Letter No: 19707/C12/2020, dated: 30.11.2020 received from Anna University, Chennai and
3. G.O. (Ms). No: 640, dated: 13.11.2020 received from Revenue and Disaster Management (DM-IV) Department.



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



4. Letter No: 19707/C12/2020, dated: 26.02.2021 to the Principals of all Non-Autonomous Affiliated Colleges issued by the Controller of Examinations, Anna University, Chennai as in as in **Annexure IV** and the End Semester Examinations Nov/Dec 2020 (Odd Semester) conducted in accordance with the above mentioned letters from the competent authorities as per the following mode.

| Regulations | Programme | Semester | Mode of Examination | |
|-------------|-----------|-----------------------------------|---------------------|---------------------|
| | | | Theory | Practical / Project |
| 2017 | UG | 5 th & 7 th | Proctored Online | Proctored Online |
| 2019 | UG/PG | 3 th | Proctored Online | Proctored Online |
| 2019 | UG/PG | 1 st | Proctored Online | Physical Mode |

Resolved to approve the conduction of the End Semester (Odd Semester) Examinations of UG / PG students and arrear subjects during Nov/Dec 2020 of the Regulations 2017 and the Regulations 2019 as per the direction given by Anna University, Chennai to the Autonomous Colleges (applicable to pandemic period of Covid-19).

Item 3.5 To consider and approve the B.E. Civil Engineering Programme Syllabi from V to VIII Semesters under Regulations 2019.

The academic council reviewed the whole minutes of the third Board of studies Meeting of B.E. Civil Engineering Programme was conducted on 09.01.2021 which incorporating the changes as mentioned in the minutes



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



and **Resolved to approve** the Syllabi from V to VIII Semesters under Regulations 2019 of B.E. Civil Engineering Programme as in **Annexure V**.

Item 3.6 To consider and approve the B.E. Computer Science and Engineering Programme Syllabi from V to VIII Semesters under Regulations 2019.

The academic council reviewed the whole minutes of the third Board of studies Meeting of B.E. Computer Science and Engineering Programme was conducted on 09.01.2021 which incorporating the changes as mentioned in the minutes and **Resolved to approve** the Syllabi from V to VIII Semesters under Regulations 2019 of B.E. Computer Science and Engineering Programme as in as in **Annexure VI**.

Item 3.7 To consider and approve the B.E. Electrical and Electronics Engineering Programme Syllabi from V to VIII Semesters under Regulations 2019.

The academic council reviewed the whole minutes of the third Board of studies Meeting of B.E. Electrical and Electronics Engineering Programme was conducted on 08.01.2021 which incorporating the changes as mentioned in the minutes and **Resolved to approve** the Syllabi from V to VIII Semesters under Regulations 2019 of B.E. Electrical and Electronics Engineering Programme as in **Annexure VII**.

Item 3.8 To consider and approve the B.E. Electronics and Communication Engineering Programme Syllabi from V to VIII Semesters under Regulations 2019.



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



The academic council reviewed the whole minutes of the third Board of studies Meeting of B.E. Electronics and Communication Engineering Programme was conducted on 09.01.2021 which incorporating the changes as mentioned in the minutes and **Resolved to approve** the Syllabi from V to VIII Semesters under Regulations 2019 of B.E. Electronics and Communication Engineering Programme as in **Annexure VIII**.

Item 3.9 To consider and approve the B.E. Mechanical Engineering Programme Syllabi from V to VIII Semesters under Regulations 2019.

The academic council reviewed the whole minutes of the third Board of studies Meeting of B.E. Mechanical Engineering Programme was conducted on 08.01.2021 which incorporating the changes as mentioned in the minutes and **Resolved to approve** the Syllabi from V to VIII Semesters under Regulations 2019 of B.E. Mechanical Engineering Programme as in **Annexure IX**.

Item 3.10(a) To ratify the constitution of Academic Steering Committee and its functions.

Resolved to approve the constitution of Academic Steering Committee and its functions as in **Annexure X**.

Item 3.10(b) To ratify all the minutes of the meeting of the Academic Steering Committee.

Resolved to approve all the minutes of the meeting of the Academic Steering Committee as in **Annexure XI**.



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



Item 3.11(a) To ratify the conduction of Theory / Practical / Project classes for the UG / PG programmes through Physical / Online Mode in the Even Semester (Except second semester UG/PG) for the academic year 2020-2021.

The Academic Council noted the Letter No: 050/AU/CAI/2021, dated: 04.02.2021, as in **Annexure XII** and reviewed the mode of conduction of Theory / Practical / Project classes specified in the following table during the Covid-19 pandemic situation.

| Regulations | Programme | Semester | Mode of conduct of classes | |
|-------------|-----------|-----------------|----------------------------|---------------------|
| | | | Theory | Practical / Project |
| 2017 | UG | 8 th | Online / Physical | Physical* |
| 2017 | UG | 6 th | Online | Physical* |
| 2019 | UG | 4 th | Online | Physical* |
| 2019 | PG | 4 th | ----- | Physical* |

* If the students from long distance / other states / continuous illness / from the containment area - online mode.

Resolved to approve the conduction of Theory / Practical / Project classes for the UG / PG programmes through Physical / Online Mode in the Even Semester (Except second semester UG/PG) for the academic year 2020-2021.

Item 3.11(b) To approve the conduction of Theory / Practical / Project classes for the UG / PG programmes through Physical / Online Mode in the Second Semester UG/PG for the academic year 2020-2021.



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| Regulations | Programme | Semester | Mode of conduct of classes | |
|-------------|-----------|-----------------|----------------------------|-------------------|
| | | | Theory | Practical/Project |
| 2019 | UG/PG | 2 nd | Online | Physical* |

* If the Pandemic continuous, the practical classes will be conducted online mode.

Resolved to approve the conduction of Theory / Practical / Project classes for the UG / PG programmes through Physical / Online Mode in the Second Semester UG/PG for the academic year 2020-2021.

Item 3.12 To ratify the modalities to conduct the Continuous Internal Assessment for UG / PG programmes of the Regulations 2017 and the Regulations 2019 in the Even Semester (Except Second Semester) for the academic year 2020-2021.

Resolved to approve the modalities to conduct the Continuous Internal Assessment for UG / PG programmes of the Regulations 2017 and the Regulations 2019 in the Even Semester (Except Second Semester) for the academic year 2020-2021 as in **Annexure XIII**.

Item 3.13 To discuss and approve the modalities to conduct the Continuous Internal Assessment for UG / PG programmes of Regulations 2019 in the Second Semester for the academic year 2020-2021.

Resolved to approve the modalities to conduct the Continuous Internal Assessment for UG / PG programmes of Regulations 2019 in the Second Semester for the academic year 2020-2021 as in **Annexure XIV**.



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



- Item 3.14 To discuss and approve the modalities to conduct the End Semester Examinations of Even Semester for the academic year 2020-2021 to the UG / PG programmes for the Regulations 2017 and the Regulations 2019.**

The Academic Council noted the Letter No: 19707/C12/2020 dated: 26.03.2021 as in **Annexure XV** and **Resolved to approve** the modalities to conduct the End Semester Examinations of Even Semester for the academic year 2020-2021 to the UG / PG programmes for the Regulations 2017 and the Regulations 2019 as in **Annexure XVI**.

- Item 3.15 To discuss and approve for the conduction of Virtual Internship, Value Added Courses, accomplish of Conferences, Symposia, Workshops and Webinars in the Even Semester for the academic year 2020-2021 to the UG / PG programmes.**

Resolved to approve for the conduction of Virtual Internship, Value added Courses, accomplish of Conferences, Symposia, Workshops and Webinars in the Even Semester for the academic year 2020-2021 to the UG / PG programmes through online mode.

- Item 3.16 To suggest the Governing Body for the proposal of new programme of study in the academic year 2021-2022.**

The Academic Council recommended the Governing Body to give **approval** for the proposal of new programme B.E. Cyber Security Programme in the academic year 2021-2022.



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



Item 3.17 To suggest the Governing Body for providing Awards to the students for their Outstanding Performance in the Academic and the Extracurricular Activities.

The Academic Council **recommended** the Governing Body to approve the following awards to the students for their Outstanding Performance in the Academic and the Extracurricular Activities.

| S.No. | Name of the Award |
|-------|---|
| 1 | Gold Medal for the rank holders |
| 2 | Silver Medal for the rank holders |
| 3 | Best Out Going Student of the academic year |
| 4 | Best Sports man / Sports woman of the academic year |
| 5 | Best Teacher of the academic year |

The detailed description and the criteria of the awards appended as in **Annexure XVII.**

Item 3.18 To discuss and approve the composition of Selection Committee to Honor the Outstanding performance of both the students and the faculty members.

Resolved to approve the composition of Selection Committee to Honor the Outstanding performance of both the students and the faculty members as in **Annexure XVIII.**



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



Item 3.19 Any other matter brought forward by the Chairman and the members of the Academic Council.

The Chairman brought the attention of the Council Member that the introduction of the Subjects related to the Hospital Management as Core Subject/ Elective Subject in Master of Business Administration (MBA) Programme based on the more enquiries sought for the admission.

Resolved to approve the introduction of the subjects related to the Hospital Management as Core Subject / Elective Subject in Master of Business Administration (MBA) Programme.

The following suggestions were given by the Academic Council Members:

- The committee recommended that the Equivalence of Certificate should be obtained from the Government of Tamil Nadu for the new programme B.E. Cyber Security to ensure the Government Jobs for the students.
- Paper Publication in National / International Journals by the faculty member shall be considered as one of the criteria for the Best Teacher Award.
- One Credit may be added to the Virtual Internship / Value Added Courses during this Covid-19 pandemic situation.

The Chairman summarized the various decisions taken by the Academic Council and Dr.K.L.Palanisamy, Member Secretary; Academic Council thanked all the members for their active participation and valuable suggestions on various points discussed in the Google Online meeting.

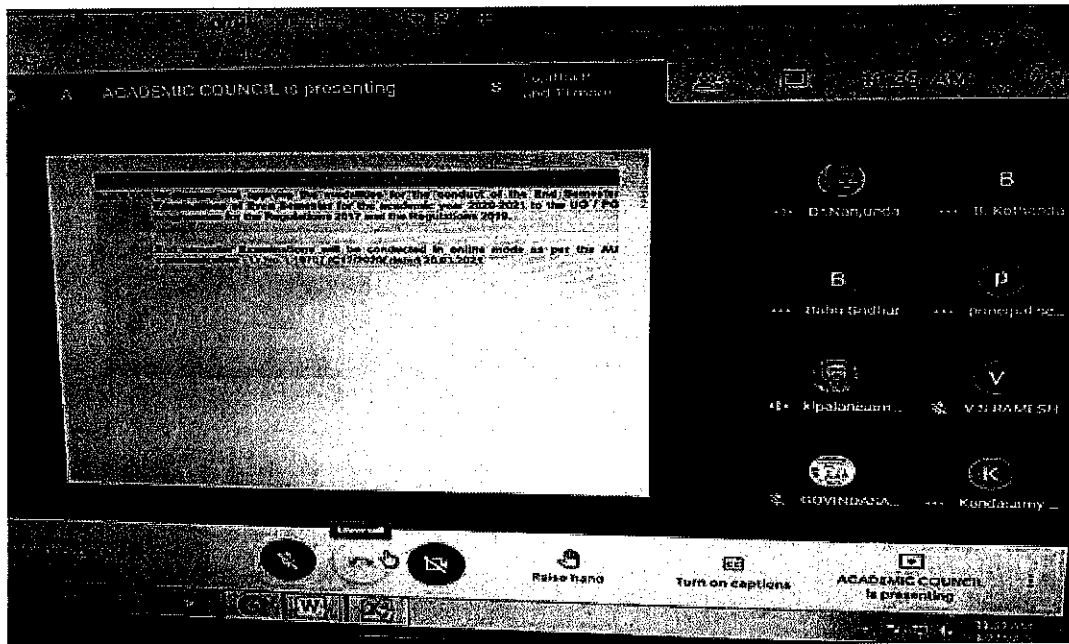
The Meeting was concluded by 12.30 p.m.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



Dr. C. Venkatesh
27/03/2021

Dr. C. VENKATESH
PRINCIPAL
CHAIRMAN - ACADEMIC COUNCIL





SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



28 August, 2020

DEPARTMENT OF CIVIL ENGINEERING

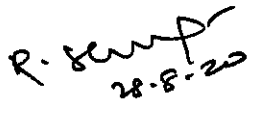
BOARD OF STUDIES MEETING

I. AGENDA

1. Approval of **Curriculum and Syllabi for Third and Fourth Semester** for B.E.-Civil Engineering under Regulations-2019 through Choice Based Credit System from the academic year 2020-21 onwards.
2. Approval of **Curriculum and Syllabi for Third and Fourth Semester** for M.E.- **Structural Engineering** under Regulations-2019 through Choice Based Credit System from the academic year 2020-21 onwards.
3. Any other points by the permission of the Chair.

II. LIST OF MEMBERS ATTENDED

As per the direction of Anna University, Chennai, the Board of Studies Meeting for the Academic year 2020-2021 for the Department of Civil Engineering held on 28.08.2020 at 10.00 a.m. through Google Meet in IQAC board Room with the presence of internal board members during the COVID - 19 pandemic situation. The following Members were attended the meeting.

| S. No. | Name of the Faculty & Designation | Position in Committee | Signature with Date |
|--------|--|-----------------------|--|
| 1 | Dr. R. Shanmugam Professor and Head of the Department, Department of Civil Engineering, Sengunthar Engineering College. | Chairman |  28.8.20 |



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade



TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU

| | | | |
|----|--|-------------------------------|-------------------------------------|
| 2 | Dr. V. M. Shanthy, Professor and Principal, Government College of Engineering, Srirangam, Trichy-620012 | University Nominee | Attended through Google Meet |
| 3 | Dr. S. S. Chandrasekaran, Professor , School of Civil Engineering, Vellore Institute of Technology, Vellore. | External Subject Expert | Attended through Google Meet |
| 4 | Dr. P. T. Ravichandran Professor, Department of Civil Engineering, SRM Institute of Science and Technology, Chennai. | External Subject Expert | Attended through Google Meet |
| 5 | Er. S. Devanandan, M.E., (Str) Managing Director, New Premier Constructions Erode. | Industry Expert | Attended through Google Meet |
| 6 | Mr. N.R.Manikandan Assistant Professor / Civil | Member | <i>N.R. Manikandan</i> 28/8/2020 |
| 7 | Mrs. N. Kiruthika Assistant Professor / Civil | Member | <i>N. Kiruthika</i> 28/08/2020 |
| 8 | Ms. K. Goumathy Assistant Professor / Civil | Member | <i>K. Goumathy</i> 28/08/2020 |
| 9 | Ms. R. Sri Ranjani Assistant Professor / Civil | Member | Attended through Google Meet |
| 10 | Mr. K. R. Kesavan Managing Director Konstruk Designers, Bangalore. | Alumnus | Attended through Google Meet |



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



III MINUTES OF THE MEETING

The **Chairman of BoS / CIVIL Dr. R. SHANMUGAM** welcomed all the members. Then all the points of agenda were taken up for discussion and after detailed discussion, the following suggestions were given by the Members of Board of Studies.

The following corrections were made,

1. **19CET303 – Building Techniques Equipments and Practices** is renamed as **19CET402 – Construction Techniques Equipments and Practices** with 3 credits.
2. **19CET402 – Construction Techniques Equipments and Practices** is swapped to Fourth Semester and **19CET303 – Construction Materials** is swapped to Third Semester with 3 credits.
3. The credits for the courses **19CET403 – Applied Hydraulics Engineering** and **19CET404 – Highway Engineering** in Fourth semester are increased from 3 to 4 credits.
4. **19CEE401 – Strength of Materials and Material Testing** is renamed as **19CEE401 – Strength of Materials**.
5. **19CEE402 – Soil Mechanics and Testing of Soil Properties** is renamed as **19CEE402 – Soil Mechanics**.

After many deliberations, the following resolutions were passed.

1. **It is resolved** to approve the Curriculum and Syllabi offered in Third and Fourth Semester for B.E. – Civil Engineering Programme under regulations 2019 through Choice Based Credit System from the academic year 2020-21 onwards.
2. **It is resolved** to approve the Curriculum and Syllabi offered in Third and Fourth Semester for M.E- Structural Engineering under Regulations-2019 through Choice Based Credit System from the academic year 2020-21 onwards.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

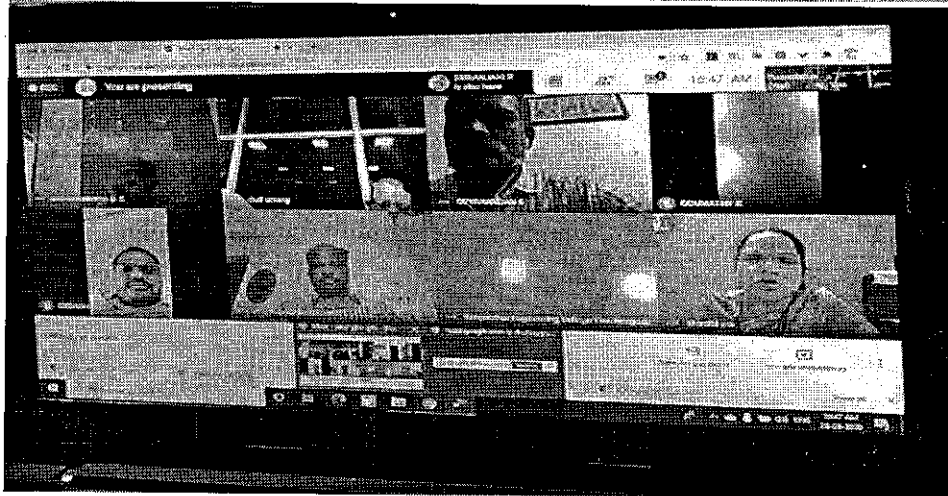
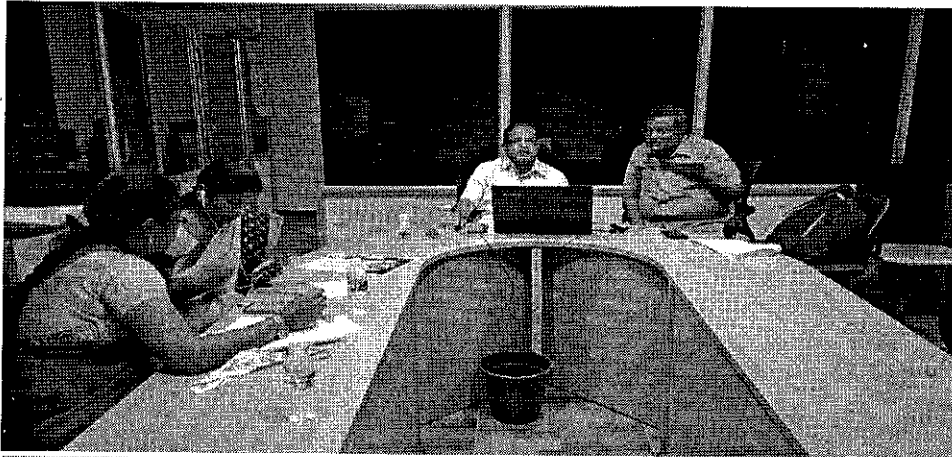
(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



Prof. Dr. R. Shanmugam, Chairman - BoS / CIVIL proposed the vote of thanks to all the Committee Members of the BoS and expressed gratitude for their suggestions and for making the meeting success.

The google meeting was concluded by 11.00 a.m.



The Audio and Video of the whole meeting has recorded.

R. Shanmugam
28.8.20

(Dr. R. SHANMUGAM)
Chairman
(BoS / CIVIL)



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



09 January, 2021

DEPARTMENT OF CIVIL ENGINEERING BOARD OF STUDIES MEETING

I. AGENDA

1. Approval of **Curricula and Syllabi from Fifth to Eighth Semester** for B.E- Civil Engineering under Regulations-2019 through Choice Based Credit System from the academic year 2021-22 onwards.
2. Ratification of prescription of exception and addition courses for a readmitted Student **Ms. B. JOTHIKA (201911501)** of B.E. Civil Engineering who has been readmitted under our Autonomous as per Anna university Regulations 2017 in the Semester- V during July 2020-December 2020 session of the academic year 2020-2021. The above said student had admitted under Muthayammal Engineering College (Autonomous) Regulations 2016 during the academic year 2017-2018 and got transferred to Sengunthar Engineering College (Autonomous) during the year 2019-2020. The above said student was debarred in the fifth semester during the academic year 2019-2020 due to her health issues. She got readmitted in the fifth semester during the year 2020-2021.
3. Any other points by the permission of the Chair.

II. LIST OF MEMBERS ATTENDED

As per the direction of Anna University, Chennai, the third Board of Studies Meeting for the Academic year 2021-2022 of the Department of Civil Engineering held on 09.01.2021 at 11.00 a.m. through Google Meet in Central library with the presence of internal board members during this COVID 19 pandemic situation. The following Members were attended the meeting.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| S. No. | Name of the Faculty & Designation | Position in Committee | Signature with Date |
|--------|--|-------------------------------|-------------------------------------|
| 1 | Dr. R. Shanmugam Associate Professor and Head of the department, Department of Civil Engineering, Sengunthar Engineering College. | Chairman | <i>R. Shanmugam</i> 09.01.2021 |
| 2 | Dr. V. M. Shanthi, Professor and Principal, Government College of Engineering, Srirangam, Trichy-620012 | University Nominee | Attend the Google Meet |
| 3 | Dr. S. S. Chandrasekaran, Professor , School of Civil Engineering, Vellore Institute of Technology, Vellore. | External Subject Expert | Attend the Google Meet |
| 4 | Dr. P. T. Ravichandran Professor, Department of Civil Engineering, SRM Institute of Science and Technology, Chennai. | External Subject Expert | Attend the Google Meet |
| 5 | Er. S. Devanandan, M.E., (Str) Managing Director, New Premier Constructions Erode. | Industry Expert | Attend the Google Meet |
| 6 | Mrs. N. Kiruthika Assistant Professor / Civil | Member | <i>N. Kiruthika</i> 9/1/2021 |
| 7 | Mr. M. Soundar Rajan Assistant Professor / Civil | Member | <i>M. Soundar Rajan</i> 9/1/2021 |
| 8 | Ms. R. Sri Ranjani Assistant Professor / Civil | Member | <i>R. Sri Ranjani</i> 09/01/2021 |



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| | | | |
|----|---|---------|------------------------|
| 9 | Ms. K. Goumathy Assistant Professor / Civil | Member | <i>K. Goumathy</i> |
| 10 | Mr. S.Anand Kumar Assistant Professor / Civil | Member | <i>S. Anand</i> |
| 11 | Mr. K. R. Kesavan Managing Director Konstruck Designers, Bangalore. | Alumnus | Attend the Google Meet |

III MINUTES OF THE MEETING

The **Chairman of BoS / CIVIL Dr. R. SHANMUGAM** welcomed all the members. Then all the points of agenda were taken up for discussion and after detailed discussion,

The following corrections made in Curriculum and Syllabi (Fifth to Eighth Semester)

1. Included the course **19CET702 - Construction Resource Planning and Management** in the Seventh Semester under Regulations-2019 through Choice Based Credit System from the academic year 2020-21 onwards in order to acquire knowledge with respect to Civil Engineering.
2. Converted the Lab Embedded theory course as **19CET603 - Design of Reinforced Concrete and Masonry structures** there of theory course in the Sixth Semester along with the changing credits points from 4 to 3.
3. Converted the theory course as **19CEE601 - Waste Water Engineering** there of Lab Embedded theory course in the Sixth Semester along with the changing credits points from 3 to 4.
4. **19MDC502 - Survey Camp** in the Fifth Semester and **19MDC701 - Industrial Training** in the Seventh Semester are included as Mandatory Courses for the industrial exposure.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



5. **19CEOX07 - Smart Materials and Smart Structures** subject name was changed into **19CEOX07 - Smart Measuring Devices**.
6. **19CET701 - Pre-Stressed Concrete Structures**, **19CEPX18 - Bridge Engineering** and **19CEPX20 - Design of Multistoried Buildings** subjects the Lecture hour changed from 3 to 2 and the Tutorial hour is changed from 0 to 2.
7. Corrections were made for all the elective subjects and its codes have been enclosed at the last.

After many deliberations, the following resolutions were passed.

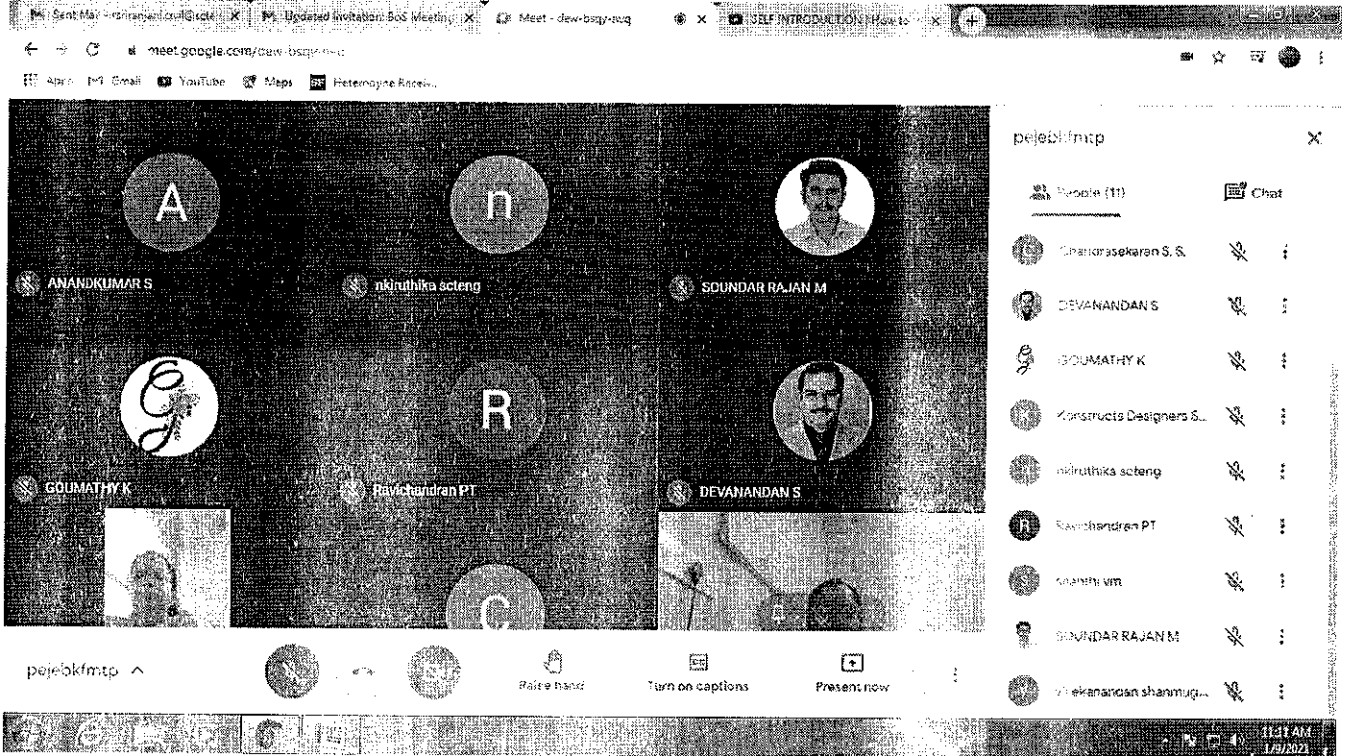
1. **It is resolved** to approve the Curricula and Syllabi from Fifth to Eighth Semester B.E. – Civil Engineering Programme under regulations 2019 through Choice Based Credit System from the academic year 2021-22 onwards.
2. **Ratified** that the readmitted student **Ms. B. JOTHIKA (201911501)** has to follow the curricula and syllabi of B.E. Civil Engineering from V semester onwards under our Autonomous (as per Anna University Regulations 2017) of Sengunthar Engineering College. There is an exemption of course **CE8511- Soil Mechanics Laboratory** in the V semester in the academic year 2020-2021 since this practical has been studied by the student in the IV semester as **Soil Mechanics (Embedded)** includes practical component **and** also there is need for an additional course **CE8311- Construction Materials Laboratory** to be studied by the above said student in the V semester in the academic year 2020-2021 which was not studied by the student in the previous semesters'.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



Assistant Professor Mr. M. Soundar Rajan, Member of BoS / CIVIL proposed the vote of thanks to all the Committee Members of the BoS and expressed gratitude for their suggestions and for making the meeting success.

The Audio and video of whole meeting has recorded.

The meeting was concluded by 12.45 p.m.

R-Shanmugam
09-01-2021
Dr. R. SHANMUGAM
Chairman
(BoS/CIVIL)





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



Corrections were made for all the elective subjects and its codes have been enclosed, such as

| Course Code | Name of the Subject |
|-------------|--|
| 19CEPX01 | Architecture and Town Planning |
| 19CEPX02 | Construction Planning and Scheduling |
| 19CEPX03 | Advanced Surveying |
| 19CEPX04 | Environmental Health Engineering |
| 19CEPX05 | Digital Cadastre |
| 19CEPX06 | Design of Machine Foundation |
| 19CEPX07 | Industrial Pollution Prevention and Cleaner Production |
| 19CEPX08 | Traffic Engineering and Management |
| 19CEPX09 | Housing Planning and Management |
| 19CEPX10 | Railways, Airports and Harbour Engineering |
| 19CEPX11 | Design of Industrial Structures |
| 19CEPX12 | Environmental Impact Assessment |
| 19CEPX13 | Dynamics and Aseismic Design |
| 19CEPX14 | Ground Improvement Techniques |
| 19CEPX15 | Air Quality Monitoring and Modelling |



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| | |
|----------|--|
| 19CEPX16 | Repair and Rehabilitation of Structures |
| 19CEPX17 | Tall Buildings |
| 19CEPX18 | Bridge Engineering |
| 19CEPX19 | Design of Special Structures |
| 19CEPX20 | Design of Multistoried Buildings |
| 19CEPX21 | Prefabricated Structures |
| 19CEPX22 | Advanced RCC Design |
| 19CEPX23 | Ground Water Contamination and Quality Monitoring and Modeling |
| 19CEPX24 | Computer Aided Design of Structures |
| 19CEPX25 | Pavement Engineering |



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



25 August, 2020

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BOARD OF STUDIES MEETING

I. AGENDA

1. Approval of **Curriculum and Syllabi for Third and Fourth Semester** for B.E-Computer Science and Engineering under Regulations-2019 through Choice Based Credit System from the academic year 2020-21 onwards.
2. Approval of **Syllabi for Third and Fourth Semester** for M.E-Computer Science and Engineering under Regulations-2019 through Choice Based Credit System from the academic year 2020-21 onwards.
3. Approval of Syllabi for the course **19CSE303 – Data Structures using C** in Third Semester B.E – Electronics and Communication Engineering and the course **19CSE302 – Programming in C and C++** in Third Semester B.E – Electrical and Electronics Engineering under Regulations-2019 through Choice Based Credit System from the academic year 2020-21 onwards
4. Any other points by the permission of the Chair.

II. LIST OF MEMBERS ATTENDED

As per the direction of Anna University, Chennai, the Second Board of Studies Meeting for the Academic year 2020-2021 of the Department of Computer Science and Engineering held on 25.08.2020 at 09.30 a.m. through Google Meet in IQAC Board Room with the presence of Internal Board Members during this COVID 19 pandemic situation. The following Members were attended the meeting.




SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| S. No. | Name of the Faculty & Designation | Position in Committee | Signature with Date |
|--------|--|----------------------------|--|
| 1 | Dr. M. Sakthivel Professor and Head/CSE Sengunthar Engineering College. | Chairman |  25/8/2020 |
| 2 | Dr. N. K. Karthikeyan Professor & Head/ IT Coimbatore Institute of Technology, Coimbatore. | University Nominee | Attended through Google Meet |
| 3 | Dr. T. Senthilkumar, AsP/CSE, School of Engineering Amrita Vishwa Vidyapeetam, Coimbatore. | External Subject Expert | Attended through Google Meet |
| 4 | Dr. G. Arulkumaran, AsP/CSE, Vel Tech Rangarajan Dr Sagunthala R & D Institute of Science and Technology, Chennai. | External Subject Expert | Attended through Google Meet |
| 5 | Mr. S. Ramkumar, Senior - Associate - Projects Cognizant Technology Solutions, Chennai. | Industry Expert | Attended through Google Meet |
| 6 | Dr. B. Sujatha Professor / CSE | Member |  25/8/20 |
| 7 | Dr. G. Jayamurugan Associate Professor / CSE | Member |  25/8/20 |
| 8 | Mr. K. Ashokkumar Associate Professor / CSE | Member |  25/8/2020 |
| 9 | Dr.S. Radha Assistant Professor / CSE | Member |  25/8/20 |



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| | | | |
|----|---|---------|---------------------------------|
| 10 | Ms.R.Keerthana Assistant Professor / CSE | Member | R.Kth - 25/8/2020 |
| 11 | Mr. J. Karthikeyan, Executive Director, Smartificia Technology Private Limited, Coimbatore | Alumnus | Attended through Google Meet |

III MINUTES OF THE MEETING

The Chairman of BoS / CSE Dr.M.SAKTHIVEL welcomed all the members. Then all the points of agenda were taken up for discussion and after detailed discussion, the following suggestions were given by the Members of Board of Studies.

The following corrections made in,

1. **19CST301 – Data Structures using C** is assigned with 4 credits and changed into **19CST301 – Data Structures** with 3 credits.
2. In **19CSE301 – Object Oriented Programming**, more Real Time Problems may be given as content beyond the syllabus for Practical Part.
3. Credit for the course **19CST401 – Design and Analysis of Algorithms** is changed into 4 by augmenting tutorial hour.
4. In **19CST403 – Software Engineering**, recent advancements such as Agile Methodologies, JIRA tool can be included.
5. The content of the course **19CSE401- Java Programming** in fourth semester is incorporated in other courses such as **19CSE301 Object Oriented Programming** and **19CSE501 Internet Programming**.
6. **19ECE301- Digital Electronics** course is introduced in Third Semester B.E- Computer Science and Engineering and **19EEE302- Microprocessor and Microcontroller** is shifted to fourth semester and code changed to **19ECE503**.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



7. The course code for the subject of **19ECE302 - Data Structures using C** which is prescribed for third Semester B.E. Electronics and Communication Engineering students is changed to **19CSE303**.

After many deliberations, the following resolutions were passed.

1. **It is resolved** to approve the Curriculum and Syllabi for the Third and Fourth Semester B.E. - Computer Science and Engineering Programme under regulations 2019 through Choice Based Credit System from the academic year 2020-21 onwards.
2. **It is resolved** to approve the Curriculum and Syllabi for the Third and Fourth Semester M.E. - Computer Science and Engineering Programme under regulations 2019 through Choice Based Credit System from the academic year 2020-21 onwards.
3. **It is resolved** to approve the Syllabi for the course **19CSE303 – Data Structures using C** in Third Semester B.E – Electronics and Communication Engineering and the course **19CSE302 – Programming in C and C++** in Third Semester B.E – Electrical and Electronics Engineering under Regulations-2019 through Choice Based Credit System from the academic year 2020-21 onwards



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

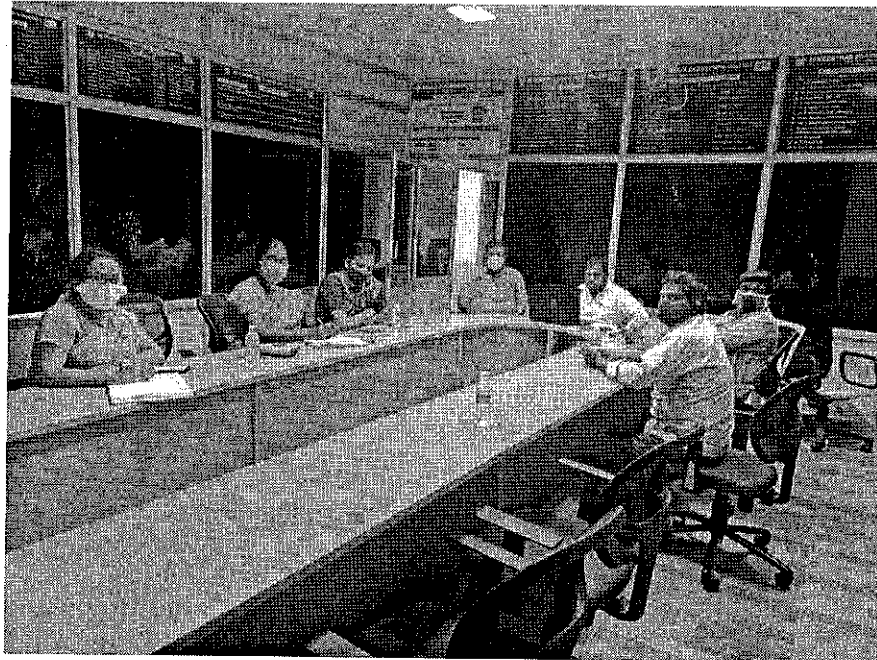
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



Professor **Dr.B.Sujatha**, Member of BoS / CSE proposed the vote of thanks to all the Committee Members of the BoS and expressed gratitude for their suggestions and for making the meeting success.

The meeting concluded by 11.00 a.m.



The Audio and Video of the Whole Meeting is Recorded.


(Dr.M.SAKTHIVEL)

Chairman

(BoS/CSE)



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



9th January 2021

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BOARD OF STUDIES MEETING

I. AGENDA

1. Approval of **Curriculum and Syllabi from Fifth to Eighth Semester** for B.E-Computer Science and Engineering under Regulations-2019 through Choice Based Credit System from the academic year 2021-22 onwards.
2. Approval of **Syllabi for 19ECPX02 – Operating Systems (Professional Elective)** for B.E-Electronics and Communication Engineering under Regulations-2019 through Choice Based Credit System from the academic year 2021-22 onwards.
3. Ratification of prescription of exception and addition courses for a readmitted Student **Mr.M.Mohanraj (612318104020)** of B.E. Computer Science and Engineering who has been readmitted under our Autonomous Regulations 2019 in the Semester - III during July 2020-December 2020 session of the academic year 2020-2021. The above said student had admitted under the Anna University Regulations 2017 during the academic year 2018-2019 and had debarred in the semester III during the academic year 2019-2020.
4. Any other points by the permission of the Chairman.

II. LIST OF MEMBERS ATTENDED

As per the direction of Anna University, Chennai, the Third Board of Studies Meeting for the Academic year 2021-2022 of the Department of Computer Science and Engineering held on 09.01.2021 at 02.00 p.m. through Google Meet in IQAC Board Room with the presence of Internal Board Members during this COVID-19 pandemic situation. The following Members were attended the meeting.



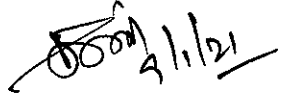
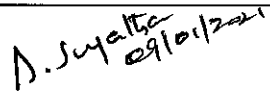

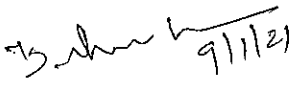
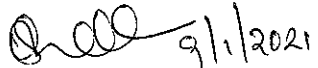
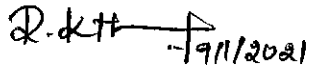
SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| S. No. | Name of the Faculty & Designation | Position in Committee | Signature with Date |
|--------|--|----------------------------|--|
| 1 | Dr. M. Sakthivel Professor and Head/CSE Sengunthar Engineering College. | Chairman |  9/1/21 |
| 2 | Dr. N. K. Karthikeyan Professor & Head/ IT Coimbatore Institute of Technology, Coimbatore. | University Nominee | Attended through Google Meet |
| 3 | Dr. T. Senthilkumar, AsP/CSE, School of Engineering Amrita Vishwa Vidyapeedam, Coimbatore. | External Subject Expert | Attended through Google Meet |
| 4 | Dr. G. Arulkumaran, AsP/CSE, Vel Tech Rangarajan Dr Sagunthala R & D Institute of Science and Technology, Chennai. | External Subject Expert | Attended through Google Meet |
| 5 | Mr.S.Ramkumar, Senior - Associate - Projects Cognizant Technology Solutions, Chennai. | Industry Expert | Attended through Google Meet |
| 6 | Dr.B.Sujatha Professor / CSE | Member |  29/10/2021 |
| 7 | Dr.G.Jayamurugan Associate Professor / CSE | Member |  09/11/2021 |
| 8 | Mr.K.Ashokkumar Associate Professor / CSE | Member |  9/1/21 |
| 9 | Dr.S.Radha Assistant Professor / CSE | Member |  9/1/2021 |
| 10 | Ms.R.Keerthana Assistant Professor / CSE | Member |  9/1/2021 |



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| | | | |
|----|---|---------|---------------------------------|
| 11 | Mr. J. Karthikeyan, Executive Director, Smartificia Technology Private Limited, Coimbatore | Alumnus | Attended through Google Meet |
|----|---|---------|---------------------------------|

III MINUTES OF THE MEETING

The Chairman of BoS / CSE Dr.M.SAKTHIVEL welcomed all the members. Then all the points of agenda were taken up for discussion and after detailed discussion

The following corrections made in Curriculum and Syllabi (Fifth to Eighth Semester)

1. In order to study the basic skills of AI, the course **19CST501 – Artificial Intelligence** is included in the Fifth semester. Hence, **19CST501 – Internet Programming** which is prescribed in the Fifth semester is shifted to Sixth Semester as Embedded Theory to get practical exposure by the students, and code is changed into **19CSE602** along with the same subject **Internet Programming**.
2. **19CSE602 – Big Data and Cloud Computing** course is shifted from Sixth to Seventh semester and course is changed to **19CSE702 – Cloud Computing**, and the contents of Big Data is incorporated in the Professional Elective course **19CSPX05 – Big Data Analytics**.
3. In **19CST503 – Resource Management Techniques**, more Data Science applications may be given to acquire knowledge with respect to Computer Science.
4. A new course **19MGT501 – Engineering Economics and Management** is introduced instead of **19MGT501 – Principles of Management** to enhance the process of decision making and Financial Management.
5. In **19CSPX03 – Software Testing**, Case Studies may be introduced in Unit-V for better understanding of testing in Real Time Applications.
6. The course title **19CSPX21 – Information Retrieval** is changed into **19CSPX21 – Information Retrieval Techniques**.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



After many deliberations, the following resolutions were passed.

1. **Resolved** to approve the **Curriculum and Syllabi for Fifth to Eighth Semester B.E.- Computer Science and Engineering Programme** under regulations 2019 through Choice Based Credit System from the academic year 2021-22 onwards.
2. **Resolved** to approve the **Syllabi for 19ECPX02 – Operating Systems (Professional Elective)** for B.E-Electronics and Communication Engineering under Regulations-2019 through Choice Based Credit System from the academic year 2021-22 onwards.
3. **Ratified** that the readmitted student **Mr.M.Mohanraj (612318104020)** has to follow the curricula and syllabi of B.E. Computer Science and Engineering from III semester onwards under Regulations-2019 (Autonomous) of Sengunthar Engineering College and there is **no exemption of courses and no need for additional courses** to be studied by the above said student and also the student has to register for the failed courses up to II semester, If any, under Regulations 2017, in order to complete the programme.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

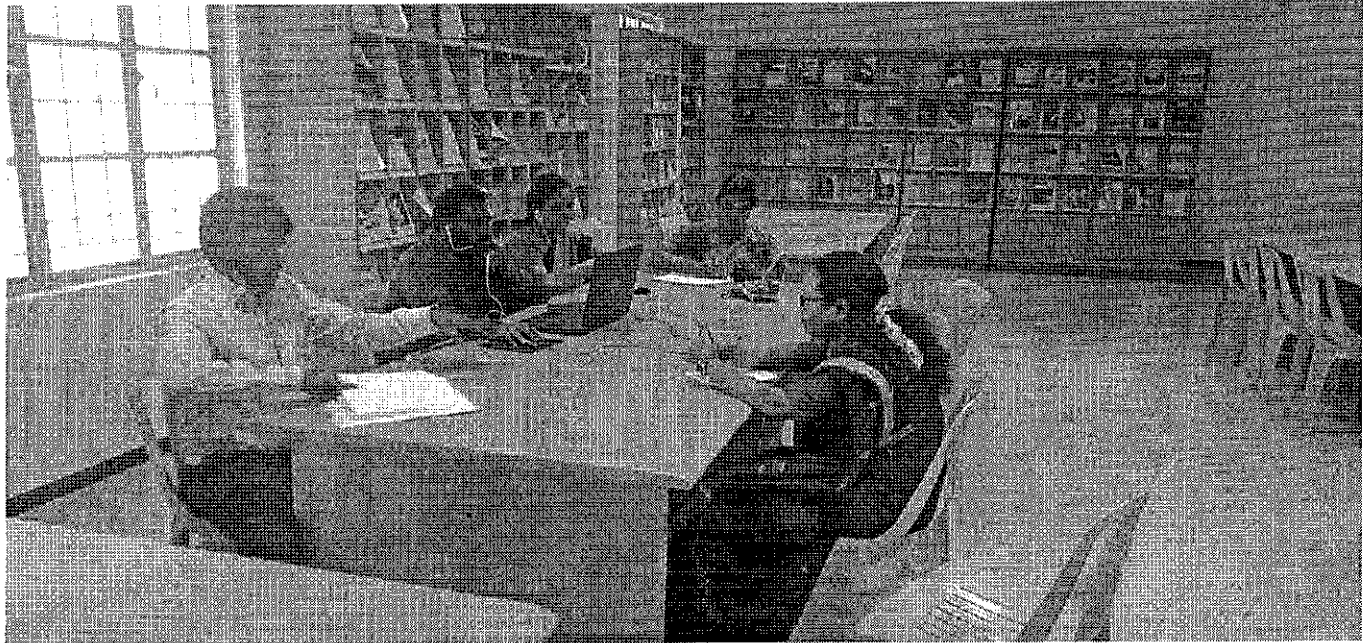
(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



Professor **Dr.B.Sujatha**, Member of BoS / CSE proposed the vote of thanks to all the Committee Members of the BoS and expressed gratitude for their suggestions and for making the meeting success.

The meeting concluded by 04.10p.m.

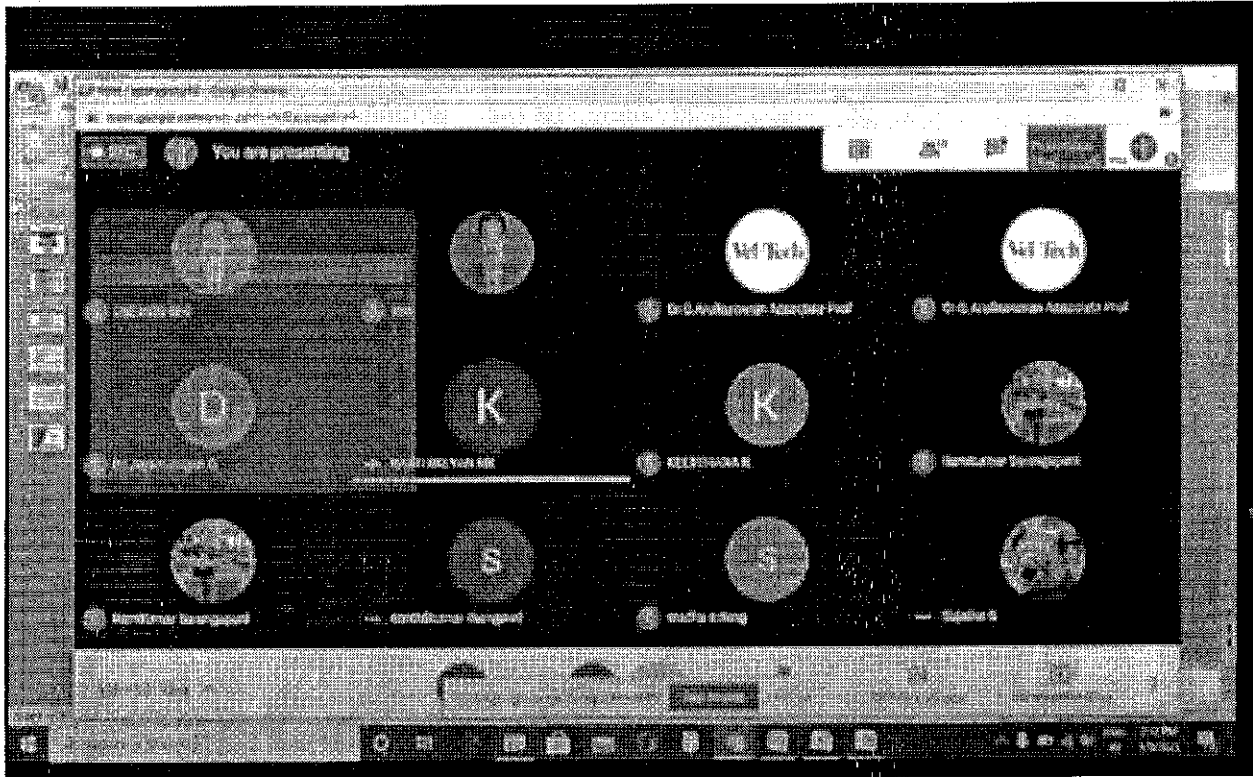





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



The Audio and Video of the Whole Meeting is Recorded.


(Dr.M.SAKTHIVEL)
Chairman
(BoS/CSE)



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



26 August, 2020

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING BOARD OF STUDIES MEETING

I. AGENDA

1. Approval of **Curriculum and Syllabi for Third and Fourth Semester** for B.E- Electrical and Electronics Engineering under Regulations-2019 through Choice Based Credit System from the academic year 2020-21 onwards.
2. Approval of Syllabi for the courses
 - **19EET304 – Circuit Theory** in Third Semester for B.E. – Electronics and Communication Engineering
 - **19EET303 – Electrical Drives and Control** in Third Semester for B.E. – Mechanical Engineering
 - **19EET403 – Control Systems Engineering** in Fourth Semester for B.E. – Electronics and Communication Engineering

Under Regulations - 2019 through Choice Based Credit System from the academic year 2020 - 21 onwards.

3. Any other points by the permission of the Chair.

II. LIST OF MEMBERS ATTENDED

As per the direction of Anna University, Chennai, the Board of Studies Meeting for the Academic year 2020-2021 for the Department of Electrical and Electronics Engineering held on 26.08.2020 at 01.00 p.m. through Google Meet in IQAC Board Room with the presence of internal board members during this COVID-19 pandemic situation. The following Members were attended the meeting.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| S. No. | Name of the Faculty & Designation | Position in Committee | Signature with Date |
|--------|---|----------------------------|---------------------------------|
| 1 | Dr.K.Umadevi, Professor and Head/EEE Sengunthar Engineering College, Tiruchengode. | Chairman | 26/8/2020 |
| 2 | Dr.S.Dhanapal, Assistant Professor(Sr) /EEE, IRTT, Erode. | University Nominee | Attended through Google Meet |
| 3 | Dr. P. Rajalakshmy, ASP/EIE, Karunya University, Coimbatore. | External Subject Expert | Attended through Google Meet |
| 4 | Dr. S. Sujitha, ASP/EEE, New Horizon College of Engineering, Bengaluru. | External Subject Expert | Attended through Google Meet |
| 5 | Dr.S.Paramasivam Senior Manager, Donfoss Industries Pvt. Ltd., Chennai. | Industry Expert | Attended through Google Meet |
| 6 | Mrs.T.Gohila Associate Professor / EEE | Member | 26/8/20 |
| 7 | Mr.G.Senthilrajan Associate Professor / EEE | Member | 26/8/20 |
| 8 | Mr.N.Sivakumar Assistant Professor / EEE | Member | 26/8/20 |
| 9 | Mr.D.Sathiyaraj Assistant Professor / EEE | Member | 26/8/20 |



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| | | | |
|----|--|---------|---------------------------------|
| 10 | Mr.V.Nanthakumar Assistant Professor / EEE | Member | |
| 11 | Er. G. Gnanasekaran, Asst. Engineer, TANGEDCO Erode Town. | Alumnus | Attended through Google Meet |

III MINUTES OF THE MEETING

The **Chairman of BoS / EEE Dr. K. Umadevi** welcomed all the members. Then all the points of agenda were taken up for discussion and after detailed discussion, the following suggestions were given by the Members of Board of Studies.

The following corrections made:

1. The course code for the subject of **19EET302 – Digital Electronics** which is prescribed in third Semester for B.E. Electrical and Electronics Engineering is changed from **19EET302** to **19ECE301** with 4 credits.
2. The course code for the subject of **19ECT304 – Analog Electronics and Circuits** which is prescribed in third Semester for B.E. Electrical and Electronics Engineering is changed from **19ECT304** to **19EEE301** with 3 credits to 4 credits.
3. The course code and subject name for the subject of **19EEE301 – Linear and Digital Integrated Circuits** which is prescribed in third Semester for B.E. Electrical and Electronics Engineering is changed from **19EEE301 – Linear and Digital Integrated Circuits** to **19EET302 – Linear Integrated Circuits** along with credit change from 4 to 3 credits.
4. The course code for the subject of **19ECT301 – Circuit Theory** which is prescribed in third Semester B.E. Electronics and Communication Engineering students is changed from **19ECT301** to **19EET304**.
5. The course code for the subject of **19ECT403 – Control System Engineering** which is prescribed in third Semester B.E. Electronics and Communication Engineering students is changed from **19ECT403** to **19EET403**.



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



After many deliberations, the following resolutions were passed.

1. **It is resolved** to approve the Curriculum and Syllabi for the Third and Fourth Semester B.E. - Electrical and Electronics Engineering Programme under regulations 2019 through Choice Based Credit System from the academic year 2020-21 onwards.
2. **It is resolved** to approve the Syllabi for the courses
 - **19EET304 – Circuit Theory** in Third Semester for B.E. – Electronics and Communication Engineering
 - **19EET303 – Electrical Drives and Control** in Third Semester for B.E. – Mechanical Engineering
 - **19EET403 – Control Systems Engineering** in Fourth Semester for B.E. – Electronics and Communication Engineeringunder Regulations - 2019 through Choice Based Credit System from the academic year 2020 - 21 onwards.
3. **It is resolved** to include simulation software for the applicable courses in Third and Fourth Semester for B.E. - Electrical and Electronics Engineering Programme under regulations 2019 through Choice Based Credit System from the academic year 2020-21 onwards.
4. The name of the subject **Control and Instrumentation (19EEE402)** is proposed to change as **Control Systems Engineering** offered for B.E. – Electrical and Electronics Engineering in fourth semester.

Professor Mrs.T.Gohila, **Member of BoS / EEE** proposed the vote of thanks to all the Committee Members of the BoS and expressed gratitude for their suggestions and for making the meeting success.

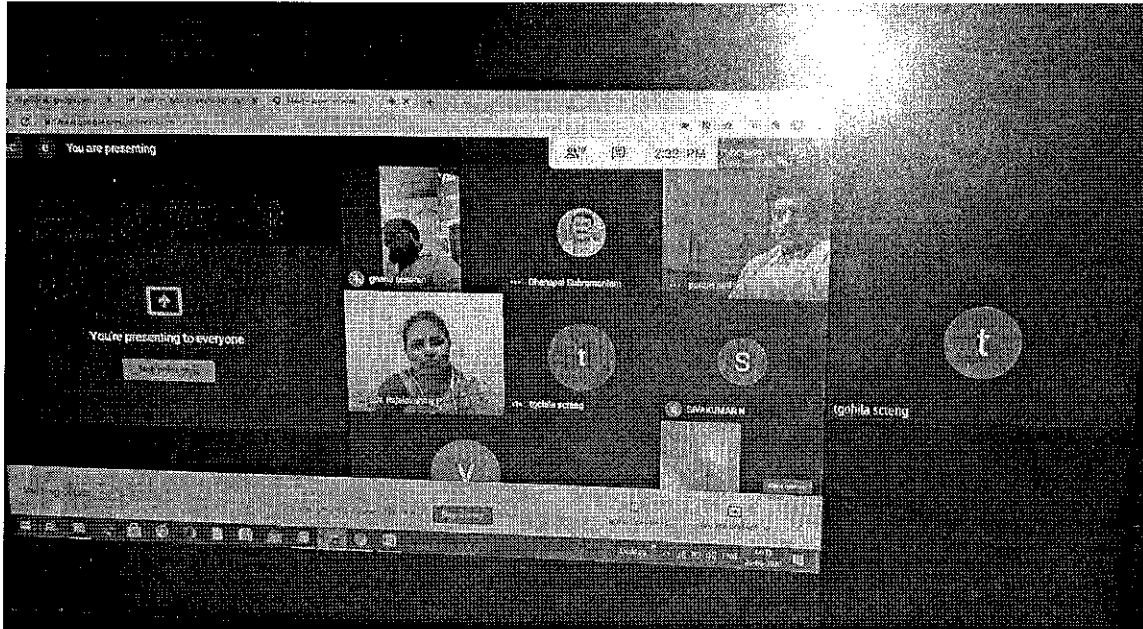
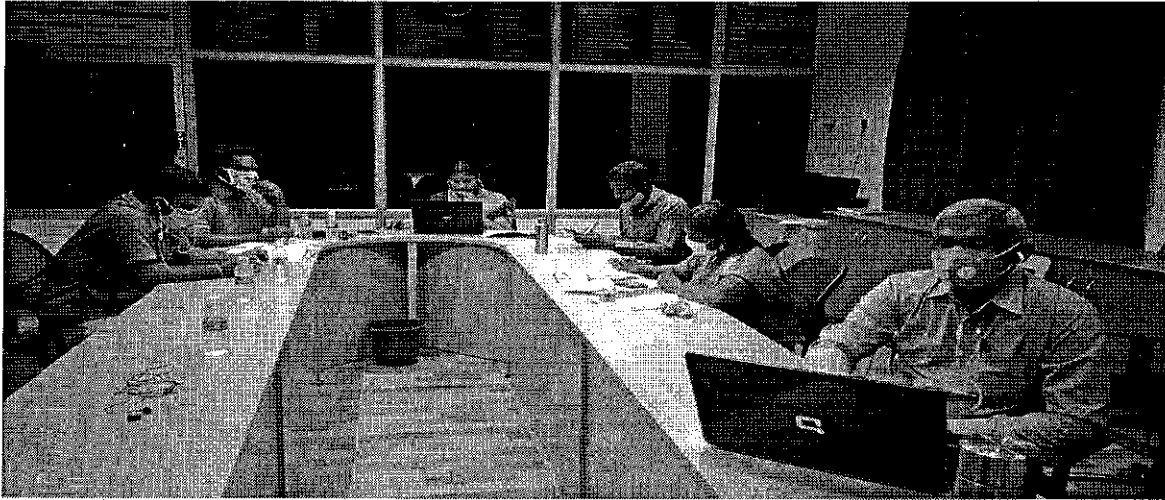
The Google Meeting concluded by 2.30 p.m.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



The Audio and Video of the Whole Meeting has recorded.

Umadevi
26/08/2020
(Dr.K. UMADEVI)
Chairman
(BoS/EEE)



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



08 January, 2021

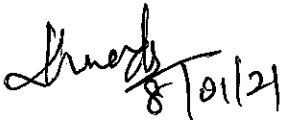
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING BOARD OF STUDIES MEETING

I. AGENDA

1. Approval of Curriculum and Syllabi for Fifth and Sixth semester from the academic year 2020-21 onwards, Seventh and Eighth Semester from the academic year 2022-23 onwards for B.E - Electrical and Electronics Engineering under Autonomous Regulations - 2019 through Choice Based Credit System.
2. Any other points by the permission of the Chair.

II. LIST OF MEMBERS ATTENDED

As per the direction of Anna University, Chennai, the Board of Studies Meeting for the Academic year 2020-2021 for the Department of Electrical and Electronics Engineering held on 08.01.2021 at 11.30 a.m. through Google Meet at this COVID 19 pandemic situation. The following Members were attended the meeting through Google meet.

| S. No. | Name of the Faculty & Designation | Position in Committee | Signature with Date |
|--------|---|----------------------------|---|
| 1 | Dr.K.Umadevi, Professor and Head/EEE Sengunthar Engineering College, Tiruchengode. | Chairman |  8/1/21 |
| 2 | Dr.S.Dhanapal, Assistant Professor(Sr) /EEE, IRTT, Erode. | University Nominee | Attended through Google Meet |
| 3 | Dr. P. Rajalakshmy, ASP/EIE, Karunya University, Coimbatore. | External Subject Expert | Attended through Google Meet |



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| | | | |
|----|--|----------------------------|----------------------------------|
| 4 | Dr. S. Sujitha, AsP/EEE, New Horizon College of Engineering, Bengaluru. | External Subject Expert | Attended through Google Meet |
| 5 | Dr.S.Paramasivam Senior Manager, Donfoss Industries Pvt. Ltd., Chennai. | Industry Expert | Attended through Google Meet |
| 6 | Dr.P.Ponmurugan Associate Professor / EEE | Member | <i>T. Ponmurugan</i> 8/1/21 |
| 7 | Mrs.T.Gohila Associate Professor / EEE | Member | <i>T. Gohila</i> 8/1/21 |
| 8 | Mr.G.Senthilrajan Associate Professor / EEE | Member | <i>G. Senthilrajan</i> 8/1/21 |
| 9 | Mr.D.Sathiyaraj Assistant Professor / EEE | Member | <i>D. Sathiyaraj</i> 8/1/21 |
| 10 | Mr.V.Nanthakumar Assistant Professor / EEE | Member | <i>V. Nanthakumar</i> 8/1/21 |
| 11 | Er. G. Gnanasekaran, Asst. Engineer, TANGEDCO Erode Town. | Alumnus | Attended through Google Meet |

III MINUTES OF THE MEETING

The Chairman of BoS / EEE Dr. K. Umadevi welcomed all the members. Then all the points of agenda were taken up for discussion and after detailed discussion, the following suggestions were given by the Members of Board of Studies.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



The following corrections made in,

1. The course code and subject name for the subject of **19EEPX11 – Human rights** which is prescribed in professional elective course for B.E. Electrical and Electronics Engineering is changed from **19EEPX11 – Human rights** to **19EEPX11 – Computer Architecture**.
2. The course code and subject name for the subject of **19EEPX17 – Optimisation Techniques** which is prescribed in professional elective course for B.E. Electrical and Electronics Engineering is changed from **19EEPX17 – Optimisation Techniques** to **19EEPX17 – Computer methods in Power systems**.
3. The course code and subject name for the subject of **19EEPX18 – Electrical Energy Generation, Utilization and Conservation** which is prescribed in professional elective course for B.E. Electrical and Electronics Engineering is changed from **19EEPX18 – Electrical Energy Generation, Utilization and Conservation** to **19EEPX18 – Utilization of Electrical Energy**.
4. The course code and subject name for the subject of **19EET701 – Electrical and Hybrid vehicles** which is prescribed in professional elective course for B.E. Electrical and Electronics Engineering is changed from **19EET701 – Electrical and Hybrid vehicles** to **19EET701 – Electric Vehicles**.

After many deliberations, the following resolutions were passed.

1. It is resolved to approve the Curriculum and Syllabi for Fifth and Sixth semester from the academic year 2020-21 onwards, Seventh and Eighth Semester from the academic year 2022-23 onwards for B.E - Electrical and Electronics Engineering under Autonomous Regulations - 2019 through Choice Based Credit System.
2. Internship/Online internship course is mandatory to all students.
3. NPTEL/SWAYAM - Four week courses may be introduced in the sixth semester core/elective subjects.



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

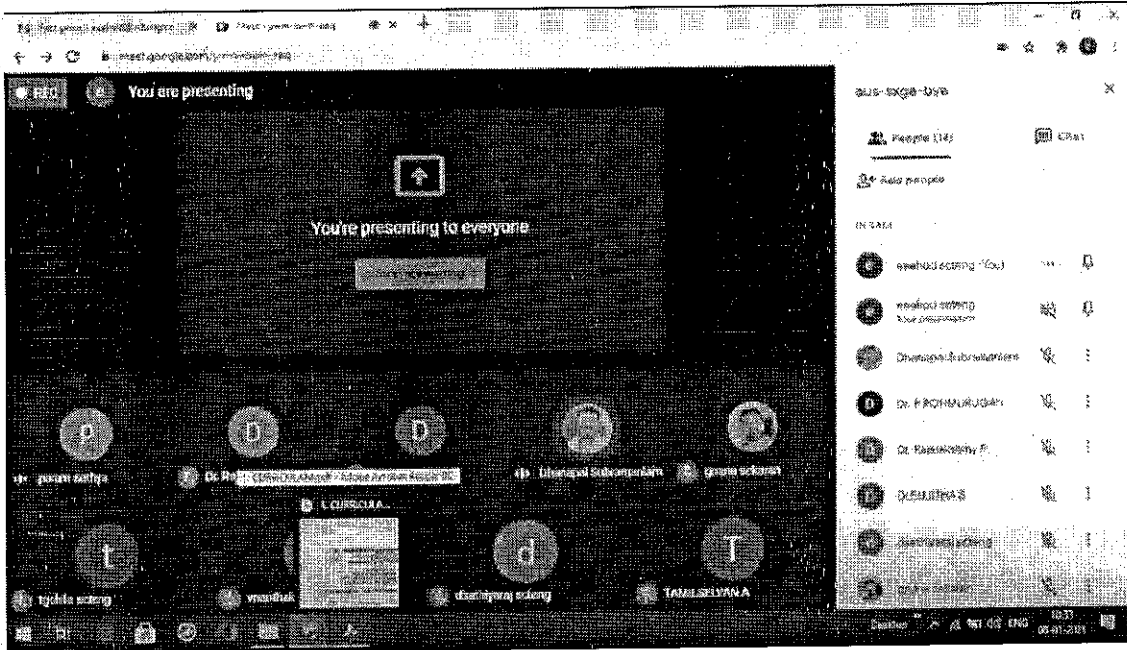
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



The meeting concluded by 01.30 p.m.



Meeting is recorded.

Associate Professor Mr.G.Senthilrajan, Member of BoS / EEE proposed the vote of thanks to all the Committee Members of the BoS and expressed gratitude for their suggestions and for making the meeting success.

Dr.K. UMADEVI
(Dr.K. UMADEVI)

Chairman
(BoS/EEE)



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



26 August, 2020

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

BOARD OF STUDIES MEETING

I. AGENDA

1. Approval of **Curriculum and Syllabi for Third and Fourth Semester** for B.E-Electronics and Communication Engineering under Regulations-2019 through Choice Based Credit System from the academic year 2020-21 onwards.
2. Approval of **Syllabi for Third and Fourth Semester for M.E- VLSI Design** under Regulations-2019 through Choice Based Credit System from the academic year 2020-21 onwards.
3. Approval of Syllabi for the course **19ECE301 – Digital Electronics** in Third Semester B.E – Electrical and Electronics Engineering and the course **19ECE301 – Digital Electronics** in Third Semester B.E- Computer Science and Engineering, and **19ECE401 – Communication Theory** in Fourth Semester B.E-Electronics and Communication Engineering and **19CSE303 – Data Structures using C** in Third Semester B.E – Electronics and Communication Engineering under Regulations-2019 through Choice Based Credit System from the academic year 2020-21 onwards.
4. Any other points by the permission of the Chair.

II. LIST OF MEMBERS ATTENDED

As per the direction of Anna University, Chennai, the Board of Studies Meeting for the Academic year 2020-2021 for the Department of Electronics and Communication Engineering held on 26.08.2020 at 12.30 p.m. through Google Meet during this COVID 19 pandemic situation. The following Members were attended the meeting.

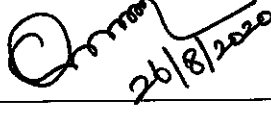
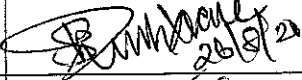
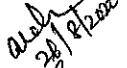
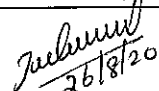
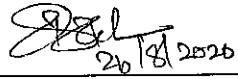
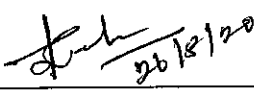


SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| S. No. | Name of the Faculty & Designation | Position in Committee | Signature with Date |
|--------|---|----------------------------|--|
| 1 | Dr.C.Aarthi Professor and Head/ECE Sengunthar Engineering College | Chairman |  26/8/2020 |
| 2 | Dr. M. Santhanalakshmi AsP/ECE, PSG College of Technology, Coimbatore | University Nominee | Attended through Google Meet |
| 3 | Dr. S. Dhanalakshmi Professor / ECE SRM IST Chennai | External Subject Expert | Attended through Google Meet |
| 4 | Dr. P. Anandan Professor / ECE Vel Tech Rangarajan Dr Sagunthala R & D Institute of Science and Technology, Chennai. | External Subject Expert | Attended through Google Meet |
| 5 | Dr. A. Athif Shah Managing Director ABE Semiconductor Designs Chennai. | Industry Expert | Attended through Google Meet |
| 6 | Dr. P. Ramesh Kumar Professor / ECE | Member |  26/8/20 |
| 7 | Mr. A. Rahul Assistant Professor / ECE | Member |  26/8/2020 |
| 8 | Mr. M. Jayakumar Assistant Professor / ECE | Member |  26/8/20 |
| 9 | Mr. P. Gopinath Assistant Professor / ECE | Member |  26/8/2020 |
| 10 | Mr. A. Suresh Assistant Professor / ECE | Member |  26/8/20 |
| 11 | Mr. T. Sabarinathan Team Lead, L&T Infotech, Bangalore | Alumnus | Attended through Google Meet |



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



III MINUTES OF THE MEETING

The Chairman of BoS / ECE Dr.C.AARTHI welcomed all the members. Then all the points of agenda were taken up for discussion and after detailed discussion, the following suggestions were given by the Members of Board of Studies.

The following corrections made in,

1. **19ECE401 – Electronic Circuits** is shifted to third semester from fourth semester and the course code **19ECE401** is changed into **19ECE302** with 4 credits.
2. **19ECT303 – Measurements and Instrumentation** is shifted to fourth semester from third semester and the course code **19ECT303** is changed into **19ECT402** with 3 credits.
3. **19ECT401 – Communication Theory** course is introduced with Embedded Lab in fourth semester B.E-Electronics and Communication Engineering and the Course code is changed as **19ECE401 – Communication Theory** with 4 credits.
4. **19ECE301- Digital Electronics** course is introduced in Third Semester B.E-Computer Science and Engineering and Third Semester B.E-Electrical and Electronics Engineering.
5. **19EEE302- Microprocessor and Microcontroller** is shifted to fourth semester B.E-Computer Science and Engineering and the code is changed to **19ECE503**.
6. The course code for the subject of **19ECE302 - Data Structures using C** which is prescribed for third Semester B.E. Electronics and Communication Engineering students is changed to **19CSE303**.
7. All the course codes are rearranged in Sequential order.



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



After many deliberations, the following resolutions were passed.

1. **It is resolved** to approve the Curriculum and Syllabi for the Third and Fourth Semester **B.E.–Electronics and Communication Engineering** Programme under regulations 2019 through Choice Based Credit System from the academic year 2020-21 onwards.
2. **It is resolved** to approve the Curriculum and of Syllabi for Third and Fourth Semester **M.E- VLSI Design** Programme under Regulations-2019 through Choice Based Credit System from the academic year 2020-21 onwards.
3. It is resolved to approve the Syllabi for the course **19ECE302 – Electronic Circuits** in Third Semester B.E-Electronics and Communication Engineering, and the Syllabi for the course **19ECT402 – Measurements and Instrumentation and 19ECE401 – Communication Theory** in fourth semester B.E-Electronics and Communication Engineering under Regulations-2019 through Choice Based Credit System from the academic year 2020-21.
4. **It is resolved** to approve the Syllabi for the course **19CSE303 – Data Structures using C** in Third Semester B.E – Electronics and Communication Engineering and the course **19ECE301- Digital Electronics** in Third Semester B.E – Electrical and Electronics Engineering and Third semester B.E- Computer Science and Engineering under Regulations-2019 through Choice Based Credit System from the academic year 2020-21.

Professor **Dr.P.Rameshkumar, Member of BoS / ECE** proposed the vote of thanks to all the Committee Members of the BoS and expressed gratitude for their suggestions and for making the meeting success.

The meeting concluded by 1.30 p.m.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU

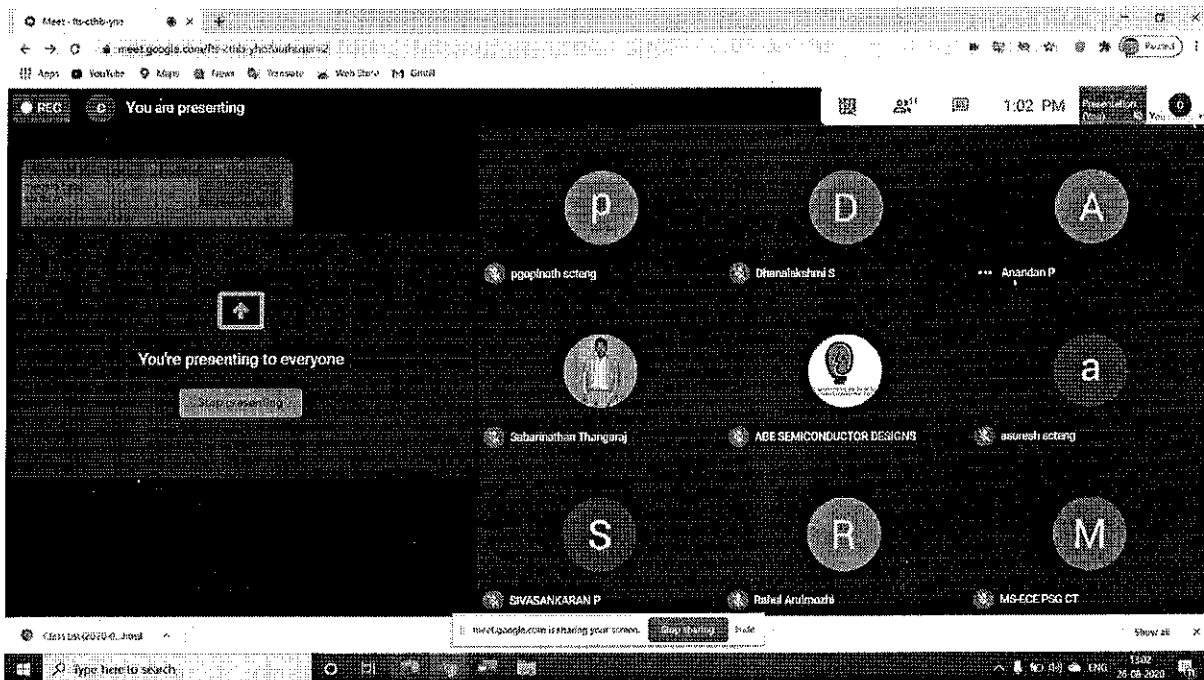




SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



The Audio and Video of the whole meeting has recorded.

(Handwritten signature)
26/8/2020

(Dr.C.AARTHI)
Chairman
(BoS/ECE)



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



9th January 2021

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

BOARD OF STUDIES MEETING

I. AGENDA

1. Approval of Curriculum and Syllabi for Fifth to Eighth Semester for B.E- Electronics and Communication Engineering under Regulations-2019 through Choice Based Credit System from the academic year 2021-22 onwards.
2. Approval of Syllabi for the course **19ECT502 – Soft Computing** in Fifth Semester B.E – Electronics and Communication Engineering and the course **19ECE602 – Digital Communication** in Sixth Semester B.E- Electronics and Communication Engineering, **19ECE702 – Embedded Systems** in Seventh Semester B.E-Electronics and Communication Engineering under Regulations-2019 through Choice Based Credit System from the academic year 2021-22 onwards.
3. Approval of Syllabi for the course **19ECPX06- Internet Of Things** and, **19ECPX11- Low Power SoC Design** in Professional elective of B.E – Electronics and Communication Engineering and the course **19ECOX01- Cryptography and Network Security** and **19ECOX05- Intellectual Property Rights** in Open Elective of B.E- Electronics and Communication Engineering, under Regulations-2019 through Choice Based Credit System from the academic year 2021-22 onwards.
4. Any other points by the permission of the Chairman.

II. LIST OF MEMBERS ATTENDED

As per the direction of Anna University, Chennai, the Third Board of Studies Meeting for the Academic year 2021-2022 of the Department of Electronics and Communication Engineering held on 09.01.2021 at 03.00 p.m. through Google Meet in Central Library with the presence of Internal Board Members during this COVID 19 pandemic situation. The following Members were attended the meeting.


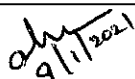
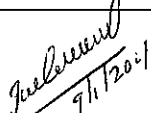




SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| S. No. | Name of the Faculty & Designation | Position in Committee | Signature with Date |
|--------|--|----------------------------|---|
| 1 | Dr.C.Aarthi Professor and Head/ECE Sengunthar Engineering College | Chairman |  9/1/2021 |
| 2 | Dr. M. Santhanalakshmi AsP/ECE, PSG College of Technology, Coimbatore | University Nominee | Attended through Google Meet |
| 3 | Dr. S. Dhanalakshmi Professor / ECE SRM IST Chennai | External Subject Expert | Attended through Google Meet |
| 4 | Dr. P. Anandan Professor / ECE Vel Tech Rangarajan Dr Sagunthala R & D Institute of Science and Technology, Chennai. | External Subject Expert | Attended through Google Meet |
| 5 | Dr. A. Athif Shah Managing Director ABE Semiconductor Designs Chennai. | Industry Expert | Attended through Google Meet |
| 6 | Mr. A. Rahul Assistant Professor / ECE | Member |  9/1/2021 |
| 7 | Mr. M. Jayakumar Assistant Professor / ECE | Member |  9/1/2021 |
| 8 | Mr. P. Gopinath Assistant Professor / ECE | Member |  9/1/2021 |
| 9 | Mr. P. Sivasankaran Assistant Professor / ECE | Member |  9/1/2021 |
| 10 | Mr.M.Arunkumar Assistant Professor / ECE | Member | Attended through Google Meet |
| 11 | Mr. T. Sabarinathan Team Lead, L&T Infotech, Bangalore | Alumnus | Attended through Google Meet |



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



III MINUTES OF THE MEETING

The Chairman of BoS / ECE Dr.C.AARTHI welcomed all the members. Then all the points of agenda were taken up for discussion and after detailed discussion, the following suggestions were given by the Members of Board of Studies.

The following corrections made in,

1. **19ECPX23-Soft Computing** Course is shifted from Professional Elective to Professional Core in the Fifth Semester and the code is changed into **19ECT502 – Soft Computing**.
2. **19ECE501 – Digital Communication** is shifted from Fifth to Sixth Semester as Embedded Theory to get practical exposure by the students and code is changed into **19ECE602 – Digital Communication**.
3. **19ECE602 – Embedded Systems** is shifted from Sixth to Seventh Semester as Embedded Theory to get practical exposure by the students and code is changed into **19ECE702 – Embedded Systems**.
4. **19ECOX01-Internet Of Things** and **19ECOX05-Low Power SoC Design** Courses are Shifted from open elective to Professional Elective and the code is changed as **19ECPX06- Internet Of Things** and **19ECPX11- Low Power SoC Design**.
5. **19ECPX06-Cryptography and Network Security** and **19ECPX11-Intellectual Property Rights** Courses are Shifted from Professional Elective to Open Elective and the code is changed as **19ECOX01- Cryptography and Network Security** and **19ECOX05- Intellectual Property Rights**.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



After many deliberations, the following resolutions were passed.

1. It is resolved to approve the Curriculum and Syllabi for Fifth to Eighth Semester B.E. – Electronics and Communication Engineering Programme under regulations 2019 through Choice Based Credit System from the academic year 2021-22 onwards.
2. It is resolved to approve the Syllabi for the course 19ECT502 – Soft Computing in Fifth Semester B.E – Electronics and Communication Engineering and the course 19ECE602 – Digital Communication in Sixth Semester B.E- Electronics and Communication Engineering, 19ECE702 – Embedded Systems in Seventh Semester B.E-Electronics and Communication Engineering under Regulations-2019 through Choice Based Credit System from the academic year 2021-22 onwards.
3. It is resolved to approve the Syllabi for the course 19ECPX06- Internet Of Things and 19ECPX11- Low Power SoC Design in Professional Elective of B.E – Electronics and Communication Engineering and the course 19ECOX01- Cryptography and Network Security and 19ECOX05- Intellectual Property Rights in Open Elective of B.E- Electronics and Communication Engineering, under Regulations-2019 through Choice Based Credit System from the academic year 2021-22 onwards.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

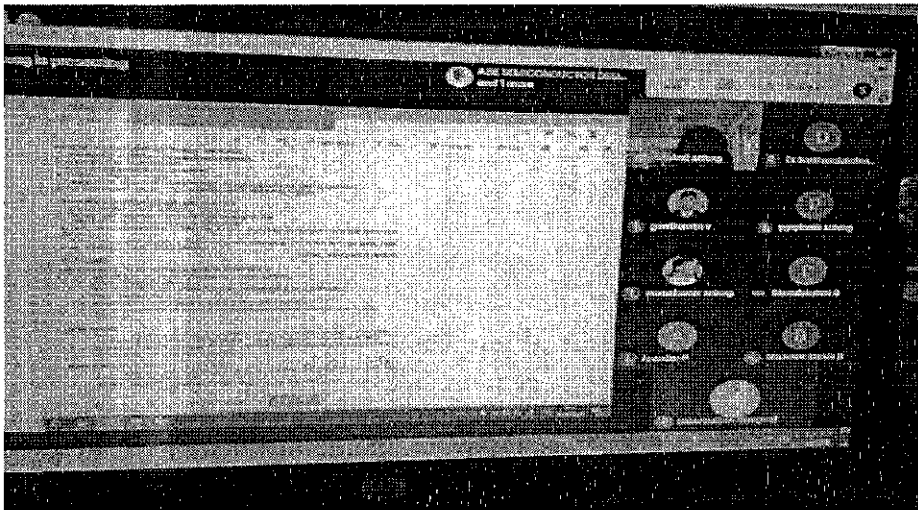
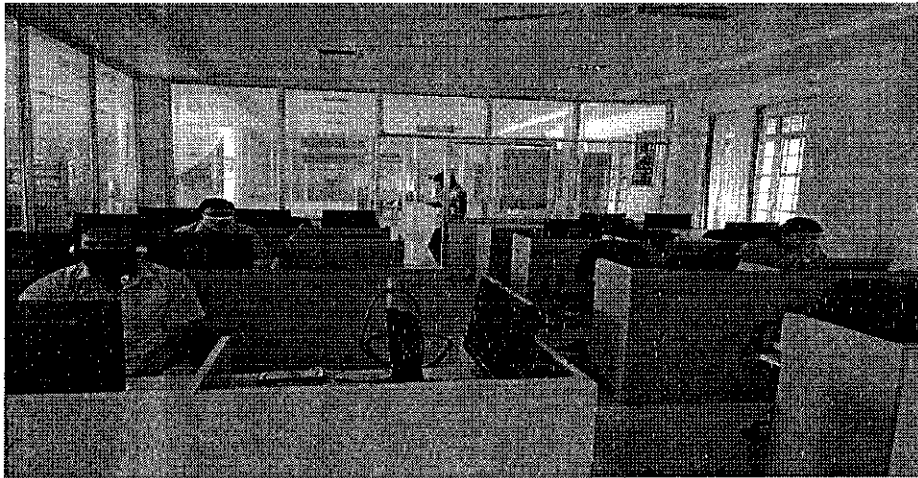
(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU




Professor Mr.P.Gopinath, Member of BoS / ECE proposed the vote of thanks to all the Committee Members of the BoS and expressed gratitude for their suggestions and for making the meeting success.

The meeting concluded by 05.00 p.m.



The Audio and Video of the Whole Meeting is Recorded.


9/1/2021
(Dr.C.AARTHI)
Chairman
(BoS/ECE)



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



26 August, 2020

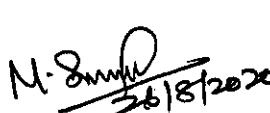
DEPARTMENT OF MECHANICAL ENGINEERING BOARD OF STUDIES MEETING

I. AGENDA

1. Approval of Curriculum and Syllabi for Third and Fourth Semester for B.E - Mechanical Engineering under Regulations - 2019 through Choice Based Credit System from the academic year 2020 - 21 onwards.
2. Any other points by the permission of the Chair.

II. LIST OF MEMBERS ATTENDED

As per the direction of Anna University, Chennai, the Second Board of Studies meeting for the Academic year 2020-2021 of the Department of Mechanical Engineering held on 26.08.2020 at 11.00 a.m. through Google Meet in IQAC board Room with the presence of internal board members during this COVID-19 pandemic situation. The following Members attended the meeting.

| S. No. | Name of the Faculty & Designation | Position in Committee | Signature with Date |
|--------|--|----------------------------|--|
| 1 | Dr.M.Selvakumar Professor and Head/ Mech Sengunthar Engineering College. | Chairman |  26/8/2020 |
| 2 | Dr.M.Nataraj Professor and Principal, Government College of Engineering, Tirunneveli | University Nominee | Attended through Google Meet |
| 3 | Dr.P.Ponnusamy Professor/Mechanical VIT Vellore, Chennai | External Subject Expert | Attended through Google Meet |



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| | | | |
|----|--|----------------------------|---------------------------------|
| 4 | Dr.M.Chandrasekaran Director/Mechanical Vels University, Pallavaram, Chennai | External Subject Expert | Attended through Google Meet |
| 5 | Er.V.C.Mahaadevan Manager, Renault Nissan Technology & Business Centre India Private Limited, Mahendra World city SEZ, Natham, Tamilnadu. | Industry Expert | Attended through Google Meet |
| 6 | Mr. N.Thiru Senthil Adhiban Assistant Professor / Mech | Member | <i>N.Thiru</i> 26/8/20 |
| 7 | Mr. P.Jagadeeswaran Assistant Professor / Mech | Member | Attended through Google Meet |
| 8 | Mr.C.Mohankumar Assistant Professor / Mech | Member | <i>Mohankumar</i> 26/8/20 |
| 9 | Mr. S.Murugesan Assistant Professor / Mech | Member | <i>Murugesan</i> 26/8/20 |
| 10 | Mr. N.Saravanan Assistant Professor / Mech | Member | Attended through Google Meet |
| 11 | Mr. S.Mahendran AQUAJET Machine Tool Chennai - 95. | Alumnus | Attended through Google Meet |



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



III MINUTES OF THE MEETING

The Chairman of BoS / Mechanical Dr.M.Selvakumar welcomed all the members. Then all the points of agenda were taken up for discussion and after detailed discussion, the following suggestions were given by the Members of Board of Studies.

After many deliberations, the following resolutions were passed.

- 1. It is resolved** to approve the Curriculum and Syllabi of Third and Fourth Semester for B.E - Mechanical degree course offered under Regulations - 2019 through Choice Based Credit System from the academic year 2020 - 21 onwards
- 2. It is resolved** to upgrade the subject 19MET401 - Manufacturing Technology - II as Embedded subject for enhancing the practical knowledge of the subject and the credit points also increased from 3 to 4. So, The subject code is also changed from 19MET401 to 19MEE404
- 3. It is resolved** to approve the subject 19MET403 – Composite Materials and Mechanics as Embedded course with 4 credit points, since it is one of the emerging subjects in Mechanical field. The subject code is changed from 19MET403 to 19MEE403. Subsequently, the subject code 19MET401 has given to the subject Engineering Metallurgy instead of 19MET402
- 4. It is resolved** to upgraded the overall credit points as 23 because of the changing of theory subjects into Embedded subjects

Mr.N.Thiru Senthil Adhiban, Member of BoS / Mechanical proposed the vote of thanks to all the Committee Members of the BoS and expressed gratitude for their suggestions and for making the meeting success.

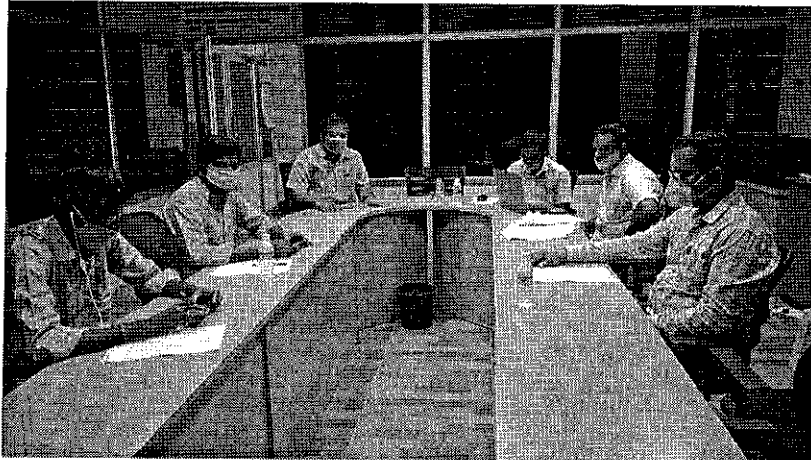
The google meeting was concluded by 12.30 p.m.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



• To understand the working of machine tools namely lathe, shaping & drill machines, milling, cutting & planer machines, grinding & allied machines and broaching

• To understand the basic concepts of Computer Numerical Control (CNC) of machine tools and CNC Programming.

UNIT I THEORY OF METAL CUTTING

Mechanics of chip formation - Orthogonal and Oblique cutting - Machining forces - Merchant's Circle Diagram - Thermal aspects of metal machining - Cutting fluids - Machinability - Cutting tool materials - Tool wear - Tool life calculations.

UNIT II LATHE AND MILLING MACHINE

Lathe machine - Centre lathe, tool nomenclature, operations, machining time and power estimation - Milling - specifications - types - cutter nomenclature - operations - milling processes - indexing - gear forming.

UNIT III SHAPER, MILLING AND GEAR CUTTING MACHINES

Shaper - Types of operations, Drilling, reaming, boring, Tapping, Milling operations - types of milling cutter, Gear cutting - forming and generation principle and construction of gear making, hobbing and gear shaping processes - finishing of gears.

UNIT IV GRINDING AND GEAR GENERATION

Grinding - types of grinding - grinding wheel designation and selection - honing, lapping, super finishing, polishing and buffing, Gear generation - gear shapers and gear hobbing - specifications.

12:09 PM 129KB/s

REC

m

mselfvakumar scteng

(10)

mselfvakumar scteng (You)

Thiru Senthil Adhiban N >

DrPonnusamy P >

Thiru Senthil Adhiban N >

The Audio and Video of the whole meeting has recorded.

M. Selvakumar
26/8/2020
(Dr.M.Selvakumar)
Chairman
(BoS/Mechanical)





SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



08 January, 2021

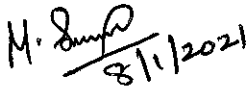
DEPARTMENT OF MECHANICAL ENGINEERING BOARD OF STUDIES MEETING

I. AGENDA

1. Approval of Curriculum and Syllabi from Fifth to Eighth Semester for B.E - Mechanical Engineering under Regulations - 2019 through Choice Based Credit System from the academic year 2020 - 2021 onwards.
2. Ratification of exception and addition courses for a readmitted Student Mr.V.Prasanth (612317114501) of B.E (Mechanical Engineering) who has been readmitted under Regulations 2017 in the Fifth Semester during July 2019-December 2019 session of the academic year 2019-2020. The above said student has admitted under the Anna University Regulations 2013 during the academic year 2016-2017 and had debarred in the fifth semester during the academic year 2018-2019 and which is mentioned detailed in the Steering Committee Meeting conducted on 19.09.2019.
3. Any other points by the permission of the Chair.

II. LIST OF MEMBERS ATTENDED

As per the direction of Anna University, Chennai, the Third Board of Studies meeting for the Academic year 2020-2021 of the Department of Mechanical Engineering held on 08.01.2021 at 2.00 p.m. through Google Meet in the Central Library with the presence of internal board members during this COVID-19 pandemic situation. The following Members attended the meeting.

| S. No. | Name of the Faculty & Designation | Position in Committee | Signature with Date |
|--------|--|-----------------------|---|
| 1 | Dr.M.Selvakumar Professor and Head/ Mech Sengunthar Engineering College | Chairman |  8/1/2021 |



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade



TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU

| | | | |
|----|--|----------------------------|---|
| 2 | Dr.M.Nataraj Professor and Principal, Government College of Engineering, Tirunneveli | University Nominee | Attended through Google Meet |
| 3 | Dr.P.Ponnusamy Professor/Mechanical VIT Vellore, Chennai | External Subject Expert | Attended through Google Meet |
| 4 | Dr.M.Chandrasekaran Director/Mechanical Vels University, Pallavaram, Chennai | External Subject Expert | Attended through Google Meet |
| 5 | Er.V.C.Mahaadevan Manager, Renault Nissan Technology & Business Centre India Private Limited, Mahendra World city SEZ, Natham, Tamilnadu. | Industry Expert | Attended through Google Meet |
| 6 | Mr. N.ThiruSenthilAdhiban Assistant Professor / Mech | Member | <i>N.ThiruSenthilAdhiban</i> 8/01/2021 |
| 7 | Mr. P.Jagadeeswaran Assistant Professor / Mech | Member | <i>P.Jagadeeswaran</i> 8/1/2021 |
| 8 | Mr.C.Mohankumar Assistant Professor / Mech | Member | <i>Mohankumar</i> 8/1/21 |
| 9 | Mr. S.Murugesan Assistant Professor / Mech | Member | <i>Murugesan</i> 8/1/21 |
| 10 | Mr. N.Saravanan Assistant Professor / Mech | Member | <i>N.Saravanan</i> 8/1/21 |
| 11 | Mr. S.Mahendran AQUAJET Machine Tool Chennai - 95. | Alumnus | Attended through Google Meet |



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



III MINUTES OF THE MEETING

The Chairman of BoS / Mechanical Dr.M.Selvakumar welcomed all the members. Then all the points of agenda were taken up for discussion and after detailed discussion, the following resolutions were passed.

1. **Resolved** to approve the Curriculum and Syllabi from Fifth to Eight Semester for B.E - Mechanical Engineering offered under Regulations - 2019 through Choice Based Credit System from the academic year 2020 - 21 onwards.
2. **Resolved** to interchange the fifth semester subject 19MET503- Gas Dynamics and Jet Propulsion to Seventh Semester and Seventh Semester subject 19MET701- Power Plant Engineering to Fifth Semester. Hence, the subjects are interchanged, the subject code also changed from 19MET503 to 19MET701 for the GDJP subject and from 19MET701 to 19MET503 for the PPE subject.
3. **Resolved** to increase the tutorial hour for the subject 19MET602-Design of Transmission Systems as it is a design subject and also for enhancing the tutorial knowledge of the subject. So, the credit points also increased from 3 to 4.
4. **Resolved** to upgrade the overall credit points from 162 to 163 for changing of theory subject into theory cum tutorial subject.
5. **Ratified** that the readmitted Student Mr.V.Prasanth (612317114501) has to follow the Curriculum and Syllabi of of B.E (Mechanical Engineering) from V semester onwards under Regulations 2017. Besides, there is **no exemption of courses and also no need for additional courses** to be studied by the above said student and also that the student has to register for the failed courses up to V semester, If any, under Regulations 2013, in order to complete the programme.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade



TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU

Mr. N.Thiru Senthil Adhiban, Member of BoS / Mechanical proposed the vote of thanks to all the Committee Members of the BoS and expressed gratitude for their suggestions and for making the meeting success.

The BoS meeting was concluded by 03.30 p.m.



The Audio and Video of the whole meeting has recorded.

M. Senthil
8/1/2021
(Dr.M.Selvakumar)
Chairman
(BoS/Mechanical)



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



26 August, 2020

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION BOARD OF STUDIES MEETING

I. AGENDA

1. Approval of **Curriculum and Syllabi for Third and Fourth Semester** for Master of Business Administration under Regulations-2019 through Choice Based Credit System from the academic year 2020-21 onwards.
2. Any other points by the permission of the Chair.

II. LIST OF MEMBERS ATTENDED

As per the direction of Anna University, Chennai, the Second Board of Studies Meeting for the Academic year 2020-2021 of the Department of Master of Business Administration held on 26.08.2020 at 10.30 a.m. through Google Meet in MBA Department with the presence of Internal Board Members during this COVID 19 pandemic situation. The following Members were attended the meeting.

| S. No. | Name of the Faculty & Designation | Position in Committee | Signature with Date |
|--------|--|-------------------------------|--|
| 1 | Dr. P. Govindasamy Professor and HoD/M.B.A., Sengunthar Engineering College, Tiruchengode. | Chairman |  26/8/2020 |
| 2 | Dr. J. Ashok, Director- School of Management Studies, Bannari Amman Institute of Technology, Sathyamangalam-638401. | University Nominee | Attended through Google Meet |
| 3 | Dr. P. Ravi Professor, Department of Management Studies, Manonmaniam Sundaranar University, Tirunelveli. | External Subject Expert | Attended through Google Meet |
| 4 | Dr. S. A. Senthil Kumar, Professor & Head Department of Management Studies, Pondicherry University, Karaikal Campus, Karaikal. | External Subject Expert | Attended through Google Meet |

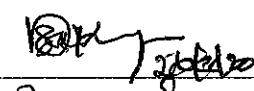
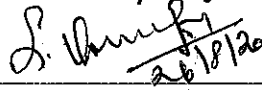
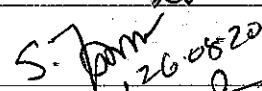
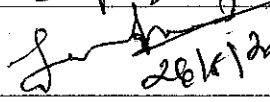


SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| | | | |
|----|--|--------------------|---|
| 5 | Mr. Ramamoorthy Sundaram, Chief Executive Officer, M/s. R.G. Sundhar & Co., M/s. R.G.S.Vet Nutraceuticals Coy., Erode. | Industry Expert | Attended through Google Meet |
| 6 | Mr. V. Saravana Kumar Assistant Professor / MBA/SEC | Member |  |
| 7 | Mrs. S. Umamaheswari Assistant Professor / MBA/SEC | Member |  |
| 8 | Mr. S. Jaikumar Assistant Professor / MBA/SEC | Member |  |
| 9 | Mr. J. Vijayakamal Assistant Professor / MBA/SEC | Member |  |
| 10 | Mr. T. Vadivel Deputy Manager – Admin. & HR, GEECO Enercon Private Limited, D/C 6, SIDCO Industrial Estate, Thuvakudy, Tiruchy – 15. | Alumnus | Attended through Google Meet |

III MINUTES OF THE MEETING

The Chairman of BoS / M.B.A. Dr. P. Govindasamy welcomed all the members. Then all the points of agenda were taken up for discussion and after detailed discussion, the following suggestions were given by the Members of Board of Studies.

1. Being the MBA programme is a part of industry oriented, creating exposure among the students about the recent trends in industry through various industrial projects, field visit, seminar presentations, outbound training activities etc., to outfit themselves with the industry.
2. As the Entrepreneurship Development course is being offered only as an elective, it can be given in the core subjects.
3. Since it is a PG programme, number of Internal assessment tests can be reduced to two and give weightage to analytical skills of the students.
4. More open access software may be used to teach students in the practical laboratories.
5. HR electives may incorporate and focus on real time issues relating to people management.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU

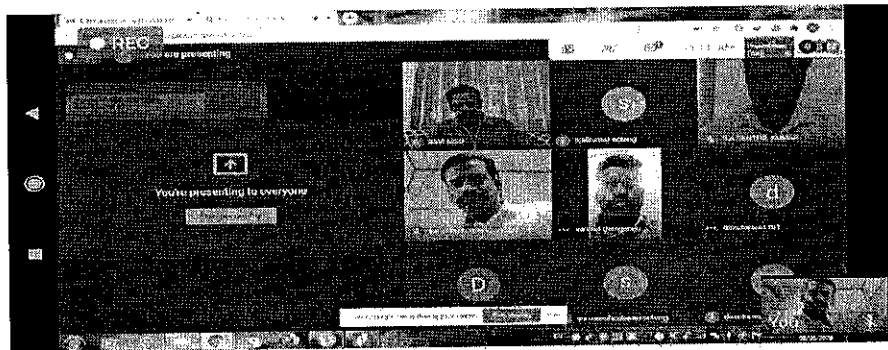
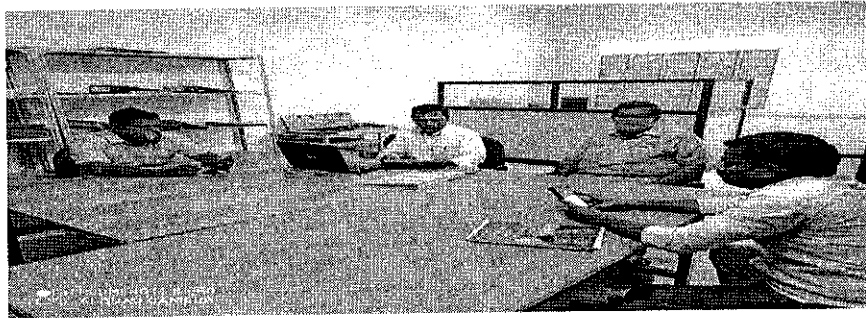


After many deliberations, the following resolutions were passed.

1. It is resolved to approve Curriculum and Syllabi for Third and Fourth Semester for Master of Business Administration under Regulations-2019 through Choice Based Credit System from the academic year 2020-21 onwards.
2. It is resolved to approve the syllabi 19EEC302 – Entrepreneurship Development Activity under Employability Enhancement course offered for all the B.E. Programmes.

Mr. V. Saravanakumar, Member of BoS / M.B.A. proposed the vote of thanks to all the Committee Members of the BoS and expressed gratitude for their suggestions and for making the meeting success.

The meeting was concluded by 11.30 A.M.



The Audio and Video of the Whole Meeting has been recorded.

P. Govindasamy
20/8/2020
(Dr.P.Govindasamy)
Chairman
(BoS/MBA)



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



25 August, 2020

DEPARTMENT OF SCIENCE AND HUMANITIES BOARD OF STUDIES MEETING

I. AGENDA

1. Approval of Syllabi for the categories mentioned below for B.E. programmes in the third and fourth semester under Regulations 2019 through Choice Based Credit System from the academic year 2020-21 onwards.

| S.No | Category | Semester | Course Code | Course Name |
|------|---|----------|-------------|---|
| 01 | Employability Enhancement Courses (EEC) | III & IV | 19EEC301 | Communication Skills |
| 02 | Basic Sciences (BS) | III | 19MAT301 | Transforms and Partial Differential Equations |
| 03 | Basic Sciences (BS) | IV | 19MAT401 | Probability and Queueing Theory |
| | | | 19MAT402 | Probability and Random Processes |
| | | | 19MAT403 | Numerical Methods |
| | | | 19MAT404 | Statistics and Numerical Methods |

2. Any other points by the permission of the Chair.

II. LIST OF MEMBERS ATTENDED

As per the direction of Anna University, Chennai, the Second Board of Studies meeting for the Academic year 2020-2021 of the Department of Science and Humanities held on 25.08.2020 at 11.00 a.m. through Google Meet in IQAC board Room with the presence of internal board members during this COVID-19 pandemic situation. The following Members attended the meeting.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| S. No. | Name of the Faculty & Designation | Position in Committee | Signature with Date |
|--------|---|----------------------------|---------------------------------|
| 1 | Dr. K. L. Palanisamy Professor and Head/S&H Sengunthar Engineering College. | Chairman | 25/8/20 |
| 2 | Dr. K. Sankar Associate Professor / Mathematics, CEG Campus, Anna University, Chennai | University Nominee | Attended through Google Meet |
| 3 | Dr. V. Rajasekaran Assistant Professor, (Sr)/Div. of English, VIT, Chennai-600127. | External Subject Expert | Attended through Google Meet |
| 4 | Dr. R. Nandhakumar Associate Professor / Chemistry, Karunya Institute of Technology and Sciences, (Deemed to be University), Coimbatore. | External Subject Expert | Attended through Google Meet |
| 5 | Dr. M. Saminathan Managing Director, Muthuraman Laboratories, Erode. | Industry Expert | Attended through Google Meet |
| 6 | Mr. P. Thangarasu Associate Professor / Chemistry | Member | 25/8/2020 |
| 7 | Mr. G. Ayyanar Assistant Professor / Mathematics | Member | 25.8.20 |
| 8 | Mrs. S. Bhuvana Assistant Professor /English | Member | 25/8/2020 |



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| | | | |
|----|--|---------|---------------------------------|
| 9 | Dr. K. Vignesh Assistant Professor /Physics | Member | |
| 10 | Mr. S. Sureshsugumar Assistant Professor /Mathematics | Member | |
| 11 | Er. M. Prabhu Lead, Impiger Technologies Private Limited, Coimbatore | Alumnus | Attended through Google Meet |

III MINUTES OF THE MEETING

The Chairman of BoS / S&H Dr.K.L. Palanisamy welcomed all the members. Then all the points of agenda were taken up for discussion and after detailed discussion, the following suggestions were given by the Members of Board of Studies.

I. The following corrections made in Communication Skills (19EEC301)

1. In Unit III - Under speaking skill "Just a minute (JAM) talk" is added.
2. In Unit V - As per the guidance of BoS member Under writing skill Argumentative, Descriptive and Comparative Essays, Creative writing are added.
3. In curriculum the same subject (19EEC301 Communication Skills) is prescribed for B.E. Civil Engineering and B.E. Mechanical Engineering in the fourth semester with the course code of 19EEC401. Since, the course name and syllabus are same the course code is changed to 19EEC301 instead of 19EEC401.

II. The following Corrections are made in Transforms and Partial Differential Equations (19MAT301)

1. In Unit V – Formation of Difference Equations is removed.
2. Corrections made in the fifth outcome that is " Use the effective mathematical tools for the solutions of Partial Differential Equations by using Z transform techniques for discrete time systems" is changed as "Use the effective



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



mathematical tools for the solutions of difference equations by using Z transform techniques for discrete time systems” .

After many deliberations, the following resolutions were passed.

1. It is resolved to approve Syllabi for the categories mentioned below for B.E. programmes in the third and fourth semester under Regulations 2019 through Choice Based Credit System from the academic year 2020-21 onwards.

| S.No | Category | Semester | Course Code | Course Name |
|------|---|----------|-------------|---|
| 01 | Employability Enhancement Courses (EEC) | III & IV | 19EEC301 | Communication Skills |
| 02 | Basic Sciences (BS) | III | 19MAT301 | Transforms and Partial Differential Equations |
| 03 | Basic Sciences (BS) | IV | 19MAT401 | Probability and Queueing Theory |
| | | | 19MAT402 | Probability and Random Processes |
| | | | 19MAT403 | Numerical Methods |
| | | | 19MAT404 | Statistics and Numerical Methods |

2. It is resolved to conduct three continuous assessments and no end semester examination for Communication Skills (19EEC301) as per 2019 regulations.
3. It is resolved that External faculty members those who are having more than 5 years of Teaching experiences in engineering colleges will be permitted to setup the above said Basic Sciences (BS) theory question papers for the end semester examinations.



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

NAAC Accredited with 'A' Grade

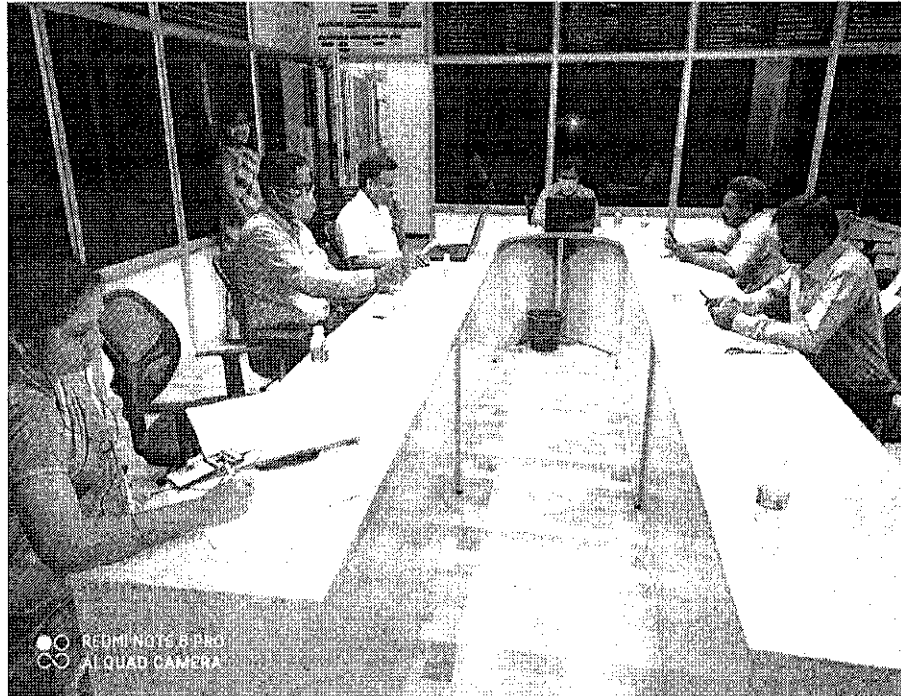
TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU




4. **It is resolved** that External and Internal faculty members those who are having more than 3 years of Teaching experiences in engineering colleges will be permitted to evaluate the above said Basic Sciences (BS) answer papers for the end semester examinations.

Mrs. S. Bhuvana, Member of BoS / S&H proposed the vote of thanks to all the Committee Members of the BoS and expressed gratitude for their suggestions and for making the meeting success.

The google meeting was concluded by 1.00 p.m.



The Audio and Video of the whole meeting is recorded.


(Dr.K.L.Palanisamy)
Chairman
(BoS/S&H)



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19PSE201

PRACTICAL TRAINING – I (2 Weeks)

L T P C

0 0 0 1

OBJECTIVE:

- To train the students in the field work so as to have a firsthand knowledge of practical problems related to Structural Engineering in carrying out engineering tasks.
- To develop skills in facing and solving the field problems.

SYLLABUS:

- The students individually undertake training in reputed Industries during the summer vacation for a specified period of two weeks. At the end of training, a detailed report on the work done should be submitted within ten days from the commencement of the semester. The students will be evaluated through a viva-voce examination by a team of internal staff.

OUTCOME:

- They are trained in tackling a practical field/industry orientated problem related to Structural Engineering.





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19PSE301

PRACTICAL TRAINING - II (2 Weeks)

L T P C

0 0 0 1

OBJECTIVE:

- To train the students in the field work so as to have a firsthand knowledge of practical problems related to Structural Engineering in carrying out engineering tasks.
- To develop skills in facing and solving the field problems.

SYLLABUS:

- The students individually undertake training in reputed Industries during the summer vacation for a specified period of two weeks. At the end of training, a detailed report on the work done should be submitted within ten days from the commencement of the semester. The students will be evaluated through a viva-voce examination by a team of internal staff.

OUTCOME:

- They are trained in tackling a practical field/industry orientated problem related to Structural Engineering.





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19PSE302

SEMINAR

**L T P C
0 0 2 1**

OBJECTIVE:

- To work on a specific technical topic in Structural Engineering and acquire the skills of written and oral presentation.
- To acquire writing abilities for seminars and conferences.

SYLLABUS:

- The students will work for two hours per week guided by a group of staff members. They will be asked to give a presentation on any topic of their choice related to Structural Engineering and to engage in discussion with the audience. A brief copy of their presentation also should be submitted. Similarly, the students will have to present a seminar of not less than fifteen minutes and not more than thirty minutes on the technical topic.
- They will defend their presentation. Evaluation will be based on the technical presentation and the report and also on the interaction shown during the seminar.

TOTAL: 30 PERIODS

OUTCOME:

- The students will be trained to face an audience and to tackle any problem during group discussion in the Interviews.





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19PSE401

PRACTICAL TRAINING – III (2 Weeks)

L T P C

0 0 0 1

OBJECTIVE:

- To train the students in the field work so as to have a firsthand knowledge of practical problems related to Structural Engineering in carrying out engineering tasks.
- To develop skills in facing and solving the field problems.

SYLLABUS:

- The students individually undertake training in reputed Industries during the summer vacation for a specified period of two weeks. At the end of training, a detailed report on the work done should be submitted within ten days from the commencement of the semester. The students will be evaluated through a viva-voce examination by a team of internal staff.

OUTCOME:

- They are trained in tackling a practical field/industry orientated problem related to Structural Engineering.





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19PSJ301

PROJECT WORK (PHASE - I)

L T P C

0 0 12 6

OBJECTIVE:

- To identify a specific problem for the current need of the society and collecting information related to the same through detailed review of literature.
- To develop the methodology to solve the identified problem.
- To train the students in preparing project reports and to face reviews and viva-voce examination.

SYLLABUS:

- The student individually works on a specific topic approved by faculty member who is familiar in this area of interest. The student can select any topic which is relevant to his/her specialization of the programmed. The topic may be experimental or analytical or case studies. At the end of the semester, a detailed report on the work done should be submitted which contains clear definition of the identified problem, detailed literature review related to the area of work and methodology for carrying out the work. The students will be evaluated through a viva-voce examination by a panel of examiners including one external examiner.

- **TOTAL: 180 PERIODS**

OUTCOME:

- At the end of the course the students will have a clear idea of his/her area of work and they are in a position to carry out the remaining phase II work in a systematic way.





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19PSJ301

PROJECT WORK (PHASE - I)

L T P C

0 0 12 6

OBJECTIVE:

- To identify a specific problem for the current need of the society and collecting information related to the same through detailed review of literature.
- To develop the methodology to solve the identified problem.
- To train the students in preparing project reports and to face reviews and viva-voce examination.

SYLLABUS:

- The student individually works on a specific topic approved by faculty member who is familiar in this area of interest. The student can select any topic which is relevant to his/her specialization of the programmed. The topic may be experimental or analytical or case studies. At the end of the semester, a detailed report on the work done should be submitted which contains clear definition of the identified problem, detailed literature review related to the area of work and methodology for carrying out the work. The students will be evaluated through a viva-voce examination by a panel of examiners including one external examiner.

- **TOTAL: 180 PERIODS**

OUTCOME:

- At the end of the course the students will have a clear idea of his/her area of work and they are in a position to carry out the remaining phase II work in a systematic way.





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19PSJ401

PROJECT WORK (PHASE - II)

**L T P C
0 0 24 12**

OBJECTIVE:

- To solve the identified problem based on the formulated methodology.
- To develop skills to analyze and discuss the test results, and make conclusions.

SYLLABUS:

- The student should continue the phase I work on the selected topic as per the formulated methodology. At the end of the semester, after completing the work to the satisfaction of the supervisor and review committee, a detailed report should be prepared and submitted to the head of the department.
- The students will be evaluated through based on the report and the viva-voce examination by a panel of examiners including one external examiner.

TOTAL: 360 PERIODS

OUTCOME:

- On completion of the project work students will be in a position to take up any challenging practical problem and find better solutions.





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19PSJ401

PROJECT WORK (PHASE - II)

**L T P C
0 0 24 12**

OBJECTIVE:

- To solve the identified problem based on the formulated methodology.
- To develop skills to analyze and discuss the test results, and make conclusions.

SYLLABUS:

- The student should continue the phase I work on the selected topic as per the formulated methodology. At the end of the semester, after completing the work to the satisfaction of the supervisor and review committee, a detailed report should be prepared and submitted to the head of the department.
- The students will be evaluated through based on the report and the viva-voce examination by a panel of examiners including one external examiner.

TOTAL: 360 PERIODS

OUTCOME:

- On completion of the project work students will be in a position to take up any challenging practical problem and find better solutions.





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19PCS201 TERM PAPER WRITING AND SEMINAR

L T P C
0 0 2 1

In this course, students will develop their scientific and technical reading and writing skills that they need to understand and construct research articles. A term paper requires a student to obtain information from a variety of sources (i.e., Journals, dictionaries, reference books) and then place it in logically developed ideas. The work involves the following steps:

1. Selecting a subject, narrowing the subject into a topic
2. Stating an objective.
3. Collecting the relevant bibliography (atleast 15 journal papers)
4. Preparing a working outline.
5. Studying the papers and understanding the authors contributions and critically analysing each paper.
6. Preparing a working outline
7. Linking the papers and preparing a draft of the paper.
8. Preparing conclusions based on the reading of all the papers.
9. Writing the Final Paper and giving final Presentation

Please keep a file where the work carried out by you is maintained.

Activities to be carried out

| Activity | Instructions | Submission week | Evaluation |
|---|---|----------------------|--|
| Selection of area of interest and Topic | You are requested to select an area of interest, topic and state an objective | 2 nd week | 3 % Based on clarity of thought, current relevance and clarity in writing |
| Stating an Objective | | | |



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| Activity | Instructions | Submission week | Evaluation |
|--|---|----------------------|---|
| Collecting Information about your area & topic | <ol style="list-style-type: none"> 1. List 1 Special Interest Groups or professional society 2. List 2 journals 3. List 2 conferences, symposia or workshops 4. List 1 thesis title 5. List 3 web presences (mailing lists, forums, news sites) 6. List 3 authors who publish regularly in your area 7. Attach a call for papers (CFP) from your area. | 3 rd week | 3% (the selected information must be area specific and of international and national standard) |
| Collection of Journal papers in the topic in the context of the objective – collect 20 & then filter | <ul style="list-style-type: none"> • You have to provide a complete list of references you will be using- Based on your objective -Search various digital libraries and Google Scholar • When picking papers to read - try to: • Pick papers that are related to each other in some ways and/or that are in the same field so that you can write a meaningful survey out of them, • Favour papers from well-known journals and conferences, • Favour -firstll or -foundationall papers in the field (as indicated in other people's survey paper), • Favour more recent papers, • Pick a recent survey of the field so you can quickly gain an overview, • Find relationships with respect to each other and to your topic area (classification scheme/categorization) • Mark in the hard copy of papers whether complete work or section/sections of the paper are being considered | 4 th week | 6% (the list of standard papers and reason for selection) |



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| Activity | Instructions | Submission week | Evaluation |
|--------------------------------------|--|----------------------|---|
| Reading and notes for first 5 papers | <p>Reading Paper Process</p> <ul style="list-style-type: none"> • For each paper form a Table answering the following questions: • What is the main topic of the article? • What was/were the main issue(s) the author said they want to discuss? • Why did the author claim it was important? • How does the work build on other's work, in the author's opinion? • What simplifying assumptions does the author claim to be making? • What did the author do? • How did the author claim they were going to evaluate their work and compare it to others? • What did the author say were the limitations of their research? • What did the author say were the important directions for future research? <p>Conclude with limitations/issues not addressed by the paper (from the perspective of your survey)</p> | 5 th week | <p>8%</p> <p>(the table given should indicate your understanding of the paper and the evaluation is based on your conclusions about each paper)</p> |
| Reading and notes for next5 papers | Repeat Reading Paper Process | 6 th week | <p>8%</p> <p>(the table given should indicate your understanding of the paper and the evaluation is based on</p> |





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| | | | |
|--------------------------------------|--|-----------------------|--|
| | | | your conclusions about each paper) |
| Reading and notes for final 5 papers | Repeat Reading Paper Process | 7 th week | 8% (the table given should indicate your understanding of the paper and the evaluation is based on your conclusions about each paper) |
| Draft outline 1 and Linking papers | Prepare a draft Outline, your survey goals, along with a classification / categorization diagram | 8 th week | 8% (this component will be evaluated based on the linking and classification among the papers) |
| Abstract | Prepare a draft abstract and give a presentation | 9 th week | 6% (Clarity, purpose and conclusion) 6% Presentation & Viva Voce |
| Introduction Background | Write an introduction and background sections | 10 th week | 5% (clarity) |
| Sections of the paper | Write the sections of your paper based on the classification / categorization diagram in keeping with the goals of your survey | 11 th week | 10% (this component will be evaluated based on the linking and |



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| | | | |
|------------------|--|--|--|
| | | | classification among the papers) |
| Your conclusions | Write your conclusions and future work | 12 th week | 5% (conclusions – clarity and your ideas) |
| Final Draft | Complete the final draft of your paper | 13 th week | 10% (formatting, English, Clarity and linking) 4% Plagiarism Check Report |
| Seminar | A brief 15 slides on your paper | 14 th & 15 th week | 10% (based on presentation and Viva-voce) |

TOTAL: 30 PERIODS



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



THIRD SEMESTER

| Course Code | Name of the Subject | Category | Periods / Week | | | Credit | Maximum Marks | | |
|---|----------------------------|----------|----------------|---|----|-----------|---------------|-----|-----|
| | | | L | T | P | | C | CIA | ESE |
| THEORY | | | | | | | | | |
| | Professional Elective –III | PE | 3 | 0 | 0 | 3 | 40 | 60 | 100 |
| | Professional Elective –IV | PE | 3 | 0 | 0 | 3 | 40 | 60 | 100 |
| | Professional Elective –V | PE | 3 | 0 | 0 | 3 | 40 | 60 | 100 |
| EMPLOYABILITY ENHANCEMENT COURSE | | | | | | | | | |
| 19PCJ301 | Project Work Phase – I | EEC | 0 | 0 | 12 | 6 | 40 | 60 | 100 |
| TOTAL CREDITS IN SEMESTER- III | | | | | | 15 | | | |

FOURTH SEMESTER

| Course Code | Name of the Subject | Category | Periods / Week | | | Credit | Maximum Marks | | |
|---|-------------------------|----------|----------------|---|----|-----------|---------------|-----|-----|
| | | | L | T | P | | C | CIA | ESE |
| EMPLOYABILITY ENHANCEMENT COURSE | | | | | | | | | |
| 19PCJ401 | Project Work Phase – II | EEC | 0 | 0 | 24 | 12 | 40 | 60 | 100 |
| TOTAL CREDITS IN SEMESTER -IV | | | | | | 12 | | | |

TOTAL NO. OF CREDITS: 70

FC: Foundation Courses, PC: Professional Core, L: Lecture, T: Tutorial, P: Practical, C: Credit Point, CIA: Continuous Internal Assessment, ESE: End Semester Examination, TOT: Total





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19PVE201

TERM PAPER WRITING AND SEMINAR

L T P C

0 0 2 1

In this course, students will develop their scientific and technical reading and writing skills that they need to understand and construct research articles. A term paper requires a student to obtain information from a variety of sources (i.e., Journals, dictionaries, reference books) and then place it in logically developed ideas. The work involves the following steps:

1. Selecting a subject, narrowing the subject into a topic
2. Stating an objective.
3. Collecting the relevant bibliography (atleast 15 journal papers)
4. Preparing a working outline.
5. Studying the papers and understanding the authors contributions and critically analyzing each paper.
6. Preparing a working outline
7. Linking the papers and preparing a draft of the paper.
8. Preparing conclusions based on the reading of all the papers.
9. Writing the Final Paper and giving final Presentation

Please keep a file where the work carried out by you is maintained. Activities to be carried Out

| Activity | Instructions | Submission week | Evaluation |
|--|---|----------------------|--|
| Selection of area of interest and Topic | You are requested to select an area of interest, topic and state an objective | 2 nd week | 3 % Based on clarity of thought, current relevance and clarity in writing |
| Stating an Objective | | | |
| Collecting Information about your area & topic | <ol style="list-style-type: none"> 1. List 1 Special Interest Groups or professional society 2. List 2 journals 3. List 2 conferences, symposia or workshops 4. List 1 thesis title 5. List 3 web presences (mailing lists, forums, news sites) 6. List 3 authors who publish regularly in your area 7. Attach a call for papers (CFP) from your area. | 3 rd week | 3% (the selected information must be area specific and of international and national standard) |





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| | | | |
|---|---|----------------------------|--|
| <p>Collection of Journal papers in the topic in the context of the objective – collect 20 & then filter</p> | <ul style="list-style-type: none"> You have to provide a complete list of references you will be using- Based on your objective -Search various digital libraries and Google Scholar When picking papers to read - try to: Pick papers that are related to each other in some ways and/or that are in the same field so that you can write a meaningful survey out of them, Favour papers from well-known journals and conferences, | <p>4th week</p> | <p>6% (the list of standard papers and reason for selection)</p> |
| | <ul style="list-style-type: none"> Favour “first” or “foundational” papers in the field (as indicated in other people's survey paper), Favour more recent papers, Pick a recent survey of the field so you can quickly gain an overview, Find relationships with respect to each other and to your topic area (classification scheme/categorization) Mark in the hard copy of papers whether complete work or section/sections of the paper are being considered | | |
| <p>Reading and notes for first 5 papers</p> | <p>Reading Paper Process • For each paper form a Table answering the following questions:</p> <ul style="list-style-type: none"> What is the main topic of the article? What was/were the main issue(s) the author said they want to discuss? Why did the author claim it was important? How does the work build on other's work, in the author's opinion? What simplifying assumptions does the author claim to be making? What did the author do? How did the author claim they were going to evaluate their work and compare it to others? What did the author say were the limitations of their research? What did the author say were the important directions for future research? <p>Conclude with limitations/issues not addressed by the paper (from the perspective of your survey)</p> | <p>5th week</p> | <p>8% (the table given should indicate your understanding of the paper and the evaluation is based on your conclusions about each paper)</p> |





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



| | | | |
|--------------------------------------|--|--|--|
| Reading and notes for next 5 papers | Repeat Reading Paper Process | 6 th week | 8%(the table given should indicate your understanding of the paper and the evaluation is based on your conclusions about each paper) |
| Reading and notes for final 5 papers | Repeat Reading Paper Process | 7 th week | 8%(the table given should indicate your understanding of the paper and the evaluation is based on your conclusions about each paper) |
| Draft outline 1 and Linking papers | Prepare a draft Outline, your survey goals, along with a classification / categorization diagram | 8 th week | 8%(this component will be evaluated based on the linking and classification among the papers) |
| Abstract | Prepare a draft abstract and give a presentation | 9 th week | 6%(Clarity, purpose and conclusion) 6% Presentation & Viva Voce |
| Introduction Background | Write an introduction and background sections | 10 th week | 5% (clarity) |
| Sections of the paper | Write the sections of your paper based on the classification / categorization diagram in keeping with the goals of your survey | 11 th week | 10%(this component will be evaluated based on the linking and classification among the papers) |
| Your conclusions | Write your conclusions and future work | 12 th week | 5% (conclusions – clarity and your ideas) |
| Final Draft | Complete the final draft of your paper | 13 th week | 10% (formatting, English, Clarity and linking) 4% Plagiarism Check Report |
| Seminar | A brief 15 slides on your paper | 14 th & 15 th week | 10%(based on presentation and Viva-voce) |

TOTAL: 30 PERIODS





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19PVJ301

PROJECT WORK (PHASE- I)

L T P C

0 0 12 6

OBJECTIVE:

- To identify a specific problem for the current need of the society and collecting information related to the same through detailed review of literature.
- To develop the methodology to solve the identified problem.
- To train the students in preparing project reports and to face reviews and viva-voce examination.

SYLLABUS:

- The student individually works on a specific topic approved by faculty member who is familiar in this area of interest. The student can select any topic which is relevant to his/her specialization of the programmed. The topic may be experimental or analytical or case studies. At the end of the semester, a detailed report on the work done should be submitted which contains clear definition of the identified problem, detailed literature review related to the area of work and methodology for carrying out the work. The students will be evaluated through a viva-voce examination by a panel of examiners including one external examiner.

TOTAL: 180 PERIODS

OUTCOME:

- At the end of the course the students will have a clear idea of his/her area of work and they are in a position to carry out the remaining phase II work in a systematic way.





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19PVJ301

PROJECT WORK (PHASE- I)

L T P C

0 0 12 6

OBJECTIVE:

- To identify a specific problem for the current need of the society and collecting information related to the same through detailed review of literature.
- To develop the methodology to solve the identified problem.
- To train the students in preparing project reports and to face reviews and viva-voce examination.

SYLLABUS:

- The student individually works on a specific topic approved by faculty member who is familiar in this area of interest. The student can select any topic which is relevant to his/her specialization of the programmed. The topic may be experimental or analytical or case studies. At the end of the semester, a detailed report on the work done should be submitted which contains clear definition of the identified problem, detailed literature review related to the area of work and methodology for carrying out the work. The students will be evaluated through a viva-voce examination by a panel of examiners including one external examiner.

TOTAL: 180 PERIODS

OUTCOME:

- At the end of the course the students will have a clear idea of his/her area of work and they are in a position to carry out the remaining phase II work in a systematic way.





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19PVJ401

PROJECT WORK (PHASE - II)

L T P C

0 0 24 12

OBJECTIVE:

- To solve the identified problem based on the formulated methodology.
- To develop skills to analyze and discuss the test results, and make conclusions.

SYLLABUS:

- The student should continue the phase I work on the selected topic as per the formulated methodology. At the end of the semester, after completing the work to the satisfaction of the supervisor and review committee, a detailed report should be prepared and submitted to the head of the department.
- The students will be evaluated through based on the report and the viva-voce examination by a panel of examiners including one external examiner.

TOTAL: 360 PERIODS

OUTCOME:

- On completion of the project work students will be in a position to take up any challenging practical problem and find better solutions.





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19PVJ401

PROJECT WORK (PHASE - II)

L T P C

0 0 24 12

OBJECTIVE:

- To solve the identified problem based on the formulated methodology.
- To develop skills to analyze and discuss the test results, and make conclusions.

SYLLABUS:

- The student should continue the phase I work on the selected topic as per the formulated methodology. At the end of the semester, after completing the work to the satisfaction of the supervisor and review committee, a detailed report should be prepared and submitted to the head of the department.
- The students will be evaluated through based on the report and the viva-voce examination by a panel of examiners including one external examiner.

TOTAL: 360 PERIODS

OUTCOME:

- On completion of the project work students will be in a position to take up any challenging practical problem and find better solutions.





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19BAL108

SPOKEN AND WRITTEN COMMUNICATION

L T P C

0 0 4 2

OBJECTIVE

- To familiarize learners with the mechanics of writing
- To enable learners to write in English precisely and effectively.
- To enable learners to speak fluently and flawlessly in all kinds of communicative contexts with all nationalities.

UNIT I PERSONAL COMMUNICATION

12

Day-to-day conversation with family members, neighbours, relatives, friends on various topics, context specific - Journal writing, mails/emails, SMS, greeting cards, situation based - accepting/declining invitations, congratulating, consoling, conveying information, oral reports, extempore.

UNIT II EMPLOYABILITY SKILLS

12

Interview skills - HR and technical - Types of interview, preparation for interview, mock interview, Group Discussion - Communication skills in Group Discussion, Structure of GD, GD process, successful GD techniques. Time management and effective planning - identifying barriers to effective time management, time management techniques, relationship between time management and stress management.

UNIT III WORK PLACE COMMUNICATION

12

E-mails, minutes, reports of different kinds - annual report, status report, survey report, proposals, memorandums, presentations, interviews, profile of institutions, speeches, responding to enquiries, complaints, resumes, applications, summarizing, strategies for writing.

UNIT IV RESEARCH WRITING

12

Articles for publication (Journals), developing questionnaire, writing abstract, dissertation, qualities of research writing, data (charts, tables) analysis, documentation.

UNIT V WRITING FOR MEDIA AND CREATIVE WRITING

12

Features for publication (Newspapers, magazines, newsletters, notice board), case studies, short stories, travelogues, writing for children, translation, techniques of writing.

TOTAL: 60 PERIODS

Note: It is an activity based course. Student individually or as a group can organize event(s), present term papers etc. This will be evaluated by the faculty member(s) handling the course and the consolidated marks can be taken as the final mark.

No end semester examination is required for this course.





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



OUTCOMES

Learners should be able to

- Get into the habit of writing regularly.
- Express themselves in different genres of writing from creative to critical to factual writing.
- Take part in print and online media communication
- Read quite widely to acquire a style of writing
- Identify their area of strengths and weaknesses in writing.
- Speak confidently with any speakers of English, including native speakers.
- Speak effortlessly in different contexts - informal and formal.

TEXT BOOKS

1. Raymond V Lesikar, John D Pettit, and Mary E Flatly, 2009. Lesikar's Basic Business Communication, 11th ed. Tata McGraw-Hill, New Delhi.
2. E.H. McGrath, S.J. 2012, Basic Managerial Skills for All. 9th ed. Prentice-Hall of India, New Delhi.

REFERENCES

1. Richard Denny, 'Communication to Win; Kogan Page India Pvt. Ltd., New Delhi, 2008.

E-RESOURCES

Blogs : Seth Godwin, Guy Kawasaki, Kiruba Shankar
Review : Harvard Business review
Reports : Deloitte Netsis
Magazines: Bloomberg Business week, Economist





SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



SEMESTER II

19BAL208

DATA ANALYSIS AND BUSINESS MODELING

L T P C

0 0 4 2

OBJECTIVES

- To have hands-on experience on decision modeling.

[Business models studied in theory to be practiced using Spreadsheet / Analysis Software]

| S.No. | Exp. No. | Details of experiments | Duration |
|-------|----------|--------------------------------------|----------|
| | | Name | |
| 1 | 1 | Descriptive Statistics | 4 |
| 2 | 2 | Hypothesis - Parametric | 4 |
| 3 | 3 | Hypothesis – Non-parametric | 4 |
| 4 | 4 | Correlation & Regression | 4 |
| 5 | 5 | Forecasting | 4 |
| 6 | - | Extended experiment – 1 | 4 |
| 7 | 6 | Portfolio Selection | 4 |
| 8 | 7 | Risk Analysis & Sensitivity Analysis | 4 |
| 9 | 8 | Revenue Management | 4 |
| 10 | - | Extended experiment – 2 | 4 |
| 11 | 9 | Transportation & Assignment | 4 |
| 12 | 10 | Networking Models | 4 |
| 13 | 11 | Queuing Theory | 4 |
| 14 | 12 | Inventory Models | 4 |
| 15 | - | Extended experiments – 3 | 4 |

- Spreadsheet Software and
- Data Analysis Tools

TOTAL: 60 PERIODS

OUTCOMES

- Knowledge of spreadsheets and data analysis software for business modeling.

TEXT BOOKS

- Hansa Lysander Manohar , “ Data Analysis and Business Modelling using MS Excel “, PHI Learning private Ltd, 2017.
- David M. Levine et al, “Statistics for Managers using MS Excel’ (6th Edition) Pearson, 2010





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



REFERENCES

1. Vikas Gupta, Comdex Business Accounting with Ms Excel, 2010 and Tally ERP 9.0 Course Kit, Wiley India, 2012
2. Kiran Pandya and Smriti Bulsari, SPSS in simple steps, Dreamtech, 2011

E-RESOURCES

1. https://en.wikipedia.org/wiki/Descriptive_statistics
2. <https://study.com/academy/.../the-transportation-problem-features-types-solutions.html>





SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



THIRD SEMESTER

| Course Code | Name of the Subject | Category | Hours / Week | | | Credit | Maximum Marks | | |
|--|-----------------------------------|----------|--------------|---|---|--------|---------------|-----|-----|
| | | | L | T | P | | C | CIA | ESE |
| THEORY | | | | | | | | | |
| 19BAT301 | International Business Management | PC | 3 | 0 | 0 | 3 | 40 | 60 | 100 |
| 19BAT302 | Strategic Management | PC | 3 | 0 | 0 | 3 | 40 | 60 | 100 |
| | Professional Elective I*** | PE | 3 | 0 | 0 | 3 | 40 | 60 | 100 |
| | Professional Elective II*** | PE | 3 | 0 | 0 | 3 | 40 | 60 | 100 |
| | Professional Elective III*** | PE | 3 | 0 | 0 | 3 | 40 | 60 | 100 |
| | Professional Elective IV*** | PE | 3 | 0 | 0 | 3 | 40 | 60 | 100 |
| | Professional Elective V*** | PE | 3 | 0 | 0 | 3 | 40 | 60 | 100 |
| | Professional Elective VI*** | PE | 3 | 0 | 0 | 3 | 40 | 60 | 100 |
| EMPLOYABILITY ENHANCEMENT COURSES | | | | | | | | | |
| 19BAL303 | Summer Training | EEC | 0 | 0 | 2 | 1 | 40 | 60 | 100 |
| TOTAL CREDITS IN SEMESTER III | | | 25 | | | | | | |

***Chosen electives should be from two streams of management of three electives each.

PC: Professional Core, PE: Professional Elective, EEC: Employment Enhancement Courses, L : Lecture, T: Tutorial, P: Practical, C : Credit Point, CIA : Continuous Internal Assessment, ESE : End Semester Examination, TOT : Total





SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



FOURTH SEMESTER

| Course Code | Name of the Subject | Category | Hours / Week | | | Credit | Maximum Marks | | |
|--|---------------------|----------|--------------|---|----|-----------|---------------|-----|-----|
| | | | L | T | P | | C | CIA | ESE |
| EMPLOYABILITY ENHANCEMENT COURSES | | | | | | | | | |
| 19BAL401 | Project Work | EEC | 0 | 0 | 24 | 12 | 40 | 60 | 100 |
| TOTAL CREDITS IN SEMESTER IV | | | | | | 12 | | | |

TOTAL NUMBER OF CREDITS: 86

EEC :Employment Enhancement Courses, L : Lecture, T: Tutorial, P: Practical ,
 C : Credit Point , CIA : Continuous Internal Assessment, ESE : End Semester Examination, TOT : Total





SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEEC101

LIFE SKILLS FOR ENGINEERS
(Employability Enhancement Course)
(Common to Civil, CSE, ECE, EEE & Mechanical)

L T P C
0 0 2 0

OBJECTIVES

To enable students to:

- Develop communication competence for engineers and enable them to convey thoughts and ideas with clarity and focus.
- Inculcate critical thinking process on problem solving.
- Have an overview on career skills required in their profession.
- Learn professional Ethics and Moral values.
- Lead a team with more responsibilities to be succeeded in their endeavor.

UNIT I: COMMUNICATION SKILL

6

Introduction to Communication, The Process of Communication, Barriers to Communication, Listening Skills, Non-verbal Communication and Body Language, Interview Skills, Group Discussion, Presentation Skills, Technology – based Communication – Technical Presentation.

UNIT II: CRITICAL THINKING & PROBLEM SOLVING

6

Creativity, Lateral thinking, Critical thinking, Multiple Intelligence, Problem Solving, Mind Mapping & Analytical Thinking.

UNIT III: CAREER SKILLS

6

Introduction to Employability and Career Skills – developing a long – term career plan – making career changes – Time Management – General awareness of Current Affairs – Stress management – Leadership traits – Team work – Career planning.

UNIT IV: ETHICS MORAL & PROFESSIONAL VALUES

6

Human Values, Civic Rights, Engineering Ethics, Engineering as Social Experimentation, Environmental Ethics, Global Issues.

UNIT V: LEADERSHIP SKILLS

6

Leadership, Levels of Leadership, Making of a leader, Types of leadership, Transactions Vs Transformational Leadership, VUCA Leaders, DART Leadership, Leadership Grid & leadership Formulation.

TOTAL: 30 PERIODS

OUTCOMES

Upon completion of the course, the students will be able to:

- Communicate effectively and make effective presentations.
- Write different types of reports.
- Face interview & group discussion.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



- Critically think on a particular problem.
- Get success in all aspects and develop public skills.

TEXT BOOKS

1. Life Skills for Engineers, McGraw Hill Education (India) Private Ltd., 2016.
2. E.Suresh Kumar et al. Communication for Professional Success. Orient Blackswan: Hyderabad, 2015.

REFERENCES

1. Barun K. Mitra; (2011), "Personality Development & Soft Skills", First Edition; Oxford Publishers.
2. Kalyana; (2015) "Soft Skill for Managers"; First Edition; Wiley Publishing Ltd.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEEC201

TECHNICAL SKILL (AutoCAD)
(Employability Enhancement Course)
(Common to Civil and Mechanical Engineering)

L T P C
0 0 2 0

OBJECTIVES

- To develop skill to use software to create 2D and 3D models.

LIST OF EXERCISES USING SOFTWARE CAPABLE OF DRAFTING AND MODELING

- Study of capabilities of software for Drafting and Modeling – Coordinate systems (absolute, relative, polar, etc.) – Creation of simple figures like polygon and general multi-line figures.
- Drawing of a Title Block with necessary text and projection symbol.
- Drawing of curves like parabola, spiral, involutes using Bspline or cubic spline.
- Drawing of front view and top view of simple solids like prism, pyramid, cylinder, cone, etc and dimensioning.
- Drawing front view, top view and side view of objects from the given pictorial views (eg.V-Block, Base of a mixie, Simple stool, Objects with hole and curves).
- Drawing of a plan of residential building (Two bed rooms, kitchen, hall, etc.).
- Drawing of a simple steel truss.
- Drawing sectional views of prism, pyramid, cylinder, cone, etc.
- Drawing isometric projection of simple objects.
- Creation of 3D models of simple objects and obtaining 2D multi-view drawings from 3D model.

TOTAL: 20 PERIODS

OUTCOMES

- Students will be able to understand develop skill to use software to create 2D and 3D models.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEEC201

TECHNICAL SKILL (AutoCAD)
(Employability Enhancement Course)
(Common to Civil and Mechanical Engineering)

L T P C
0 0 2 0

OBJECTIVES

- To develop skill to use software to create 2D and 3D models.

LIST OF EXERCISES USING SOFTWARE CAPABLE OF DRAFTING AND MODELING

- Study of capabilities of software for Drafting and Modeling – Coordinate systems (absolute, relative, polar, etc.) – Creation of simple figures like polygon and general multi-line figures.
- Drawing of a Title Block with necessary text and projection symbol.
- Drawing of curves like parabola, spiral, involutes using Bspline or cubic spline.
- Drawing of front view and top view of simple solids like prism, pyramid, cylinder, cone, etc and dimensioning.
- Drawing front view, top view and side view of objects from the given pictorial views (eg.V-Block, Base of a mixie, Simple stool, Objects with hole and curves).
- Drawing of a plan of residential building (Two bed rooms, kitchen, hall, etc.).
- Drawing of a simple steel truss.
- Drawing sectional views of prism, pyramid, cylinder, cone, etc.
- Drawing isometric projection of simple objects.
- Creation of 3D models of simple objects and obtaining 2D multi-view drawings from 3D model.

TOTAL: 20 PERIODS

OUTCOMES

- Students will be able to understand develop skill to use software to create 2D and 3D models.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEC301

COMMUNICATION SKILLS LABORATORY

L T P C
0 0 2 0

OBJECTIVES:

The purpose of learning this course is

- Improve fluency in English through well developed vocabulary.
- To improve the oral communication skills
- To focus the effective reading of general and technical text
- To improve writing skill
- To communicate ideas in group discussion and interviews

Unit I VOCABULARY

6

Vocabulary building – articulate ideas and thoughts; usage of palindromes, greetings, wishes, festival related words - homophones and homonyms- connotation - vocabulary words with sentences. - Idiomatic Expressions - One- word Substitutes.

Activities: Learn a word a week, Use newspaper to write unfamiliar words, Word association games.

Unit II LISTENING

6

Listening Skill- Its importance – Purpose- Process- Types- Barriers- Effective Listening strategies- Listening and note-taking – Listening to telephonic conversations – Ted talks – Watching Inspiring Speech videos on You tube- Listening native speaker's videos for pronunciation.

Activities: Listen and draw the different scenes in a story, Secret Message games, watching videos and listing difficult words.

Unit III SPEAKING

6

JAM Talk - Role play – Debate - Conversational skills (formal and informal) - Conversation practice – group discussion and interview skills – Introducing oneself and others – Presentation skills -Making presentations (individual and group) through seminars / PPTs.

Activities: Picture Description, Giving Directions and Guidelines, Making a short speech- Extempore.

Unit IV READING

6

Strategies for effective reading (Guessing meanings from contexts -Scanning, skimming, inferring meaning and critical reading)- Read and recognize different text types ranging from newspaper articles, magazines, books, Technical articles and Reading autobiographies -

Activities: Reading online sources like e-books, e-journals and e-newspapers, cloze exercises, Reading and answering questions.

Unit V WRITING

6

Develop a paragraph: topic sentence, supporting sentences, concluding sentence - Writing simple Essays –argument, descriptive and comparative essays- Creative writing.

Activities: Write Essays with sub titles, Write a story that uses as many clichés and idioms, Write Paragraph.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



The following Practice Session will be conducted for the Communication Skills (CS) Lab sessions:

- Activities on Presentations Skills- Students make presentations on given topics
- Activities on Group Discussion- Students participate in group discussions
- Interview Skills- Students participate in Mock Interviews
- Essay Writing - Students prepare their own paragraph and essay

Guidelines for conducting assessments as per 2019 regulations

- 30 hours – Two consecutive hours allotted for each class.
- Three Continuous assessments only conducted and no end semester exam.
- For the award of Continuous assessment the best three activities from Essay Writing, Oral Presentation, Extempore, Group Discussion and Mock Interview (one-on-one basis) can be taken.

OUTCOMES:

At the end of this course, learners will be able to:

- Improve vocabulary and express the same contextually
- Communicate to his peer group properly and make presentations
- Comprehend the general and technical text
- Write simple paragraph and essay in any topic
- Participate in group discussions expressing ideas relevantly, coherently and cogently

TEXT BOOK(S):

1. Gramer F. Margot and Colin S. Ward Reading and Writing (Level 3) Oxford University Press: Oxford, 2011
2. Brooks, Margret. Skills for Success. Listening and Speaking. Level 4 Oxford University Press, Oxford: 2011

REFERENCE(S):

1. Davis, Jason and Rhonda Liss. Effective Academic Writing (Level 3) Oxford University Press: Oxford, 2006
2. E. Suresh Kumar and et al. Enriching Speaking and Writing Skills. Second Edition. Orient Black swan:
3. Anderson, Kenneth et al. Study Speaking: A Course in Spoken English for Academic Purposes. United Kingdom: Cambridge University Press 1992.
4. Technical communication by Asraf rezvi

e- Resources :

1. www.youglish.com
2. www.Newwellington University.com
3. www.newsinlevels.com
4. www.Britishcouncil.org
5. www.writeandimprove.com
6. www.purdueonline.com



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEEC301

COMMUNICATION SKILLS

L T P C
0 0 2 0

OBJECTIVES

The purpose of learning this course is to:

- Improve fluency in English through well developed vocabulary.
- Improve the oral communication skills.
- Focus the effective reading of general and technical text.
- Improve writing skill.
- Communicate ideas in group discussion and interviews.

UNIT I: VOCABULARY

6

Vocabulary building – articulate ideas and thoughts; usage of palindromes, greetings, wishes, festival related words – homophones and homonyms – connotation – vocabulary words with sentences. – Idiomatic Expressions – One – Word Substitutes.

Activities: Learn a word a week, Use newspaper to write unfamiliar words, Word association games.

UNIT II: LISTENING

6

Listening Skill – Its importance – Purpose – Process – Types – Barriers – Effective Listening strategies – Listening and note – Taking – Listening to telephonic conversations – Ted talks – Watching Inspiring Speech videos on You tube – Listening native speaker's videos for pronunciation.

Activities: Listen and draw the different scenes in a story, Secret Message games, watching videos and listing difficult words.

UNIT III: SPEAKING

6

JAM Talk – Role play – Debate – Conversational skills (formal and informal) – Conversation practice – group discussion and interview skills – Introducing oneself and others – Presentation skills – Making presentations (individual and group) through seminars / PPTs.

Activities: Picture Description, Giving Directions and Guidelines, Making a short speech – Extempore.

UNIT IV: READING

6

Strategies for effective reading (Guessing meanings from contexts – Scanning, skimming, inferring meaning and critical reading) – Read and recognize different text types ranging from newspaper articles, magazines, books, Technical articles and Reading autobiographies.

Activities: Reading online sources like e – books, e – journals and e – newspapers, cloze exercises, Reading and answering questions.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



UNIT V: WRITING

6

Develop a paragraph: topic sentence, supporting sentences, concluding sentence – Writing simple Essays – argument, descriptive and comparative essays – Creative writing.

Activities: Write Essays with sub titles, Write a story that uses as many clichés and idioms, Write Paragraph.

TOTAL: 30 PERIODS

The following Practice Session will be conducted for the Communication Skills (CS) Lab sessions:

- Activities on Presentations Skills– Students make presentations on given topics.
- Activities on Group Discussion– Students participate in group discussions.
- Interview Skills– Students participate in Mock Interviews.
- Essay Writing – Students prepare their own paragraph and essay.

Guidelines for conducting assessments as per 2019 regulations

- 30 hours – Two consecutive hours allotted for each class.
- Three Continuous assessments only conducted and no end semester exam.
- For the award of Continuous assessment the best three activities from Essay Writing, Oral Presentation, Extempore, Group Discussion and Mock Interview (one– on– one basis) can be taken.

OUTCOMES

At the end of this course, learners will be able to:

- Improve vocabulary and express the same contextually.
- Communicate to his peer group properly and make presentations.
- Comprehend the general and technical text.
- Write simple paragraph and essay in any topic.
- Participate in group discussions expressing ideas relevantly, coherently and cogently.

TEXT BOOKS

1. Gramer F. Margot and Colin S. Ward Reading and Writing (Level 3) Oxford University Press: Oxford, 2011.
2. Brooks, Margret. Skills for Success. Listening and Speaking. Level 4 Oxford University Press, Oxford: 2011.

REFERENCES

1. Davis, Jason and Rhonda Llss. Effective Academic Writing (Level 3) Oxford University Press: Oxford, 2006.
2. E. Suresh Kumar and et al. Enriching Speaking and Writing Skills. Second Edition. Orient Black swan.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



3. Anderson, Kenneth et al. Study Speaking: A Course in Spoken English for Academic Purposes. United Kingdom: Cambridge University Press, 1992.
4. Technical communication by Asraf rezvi.

E-RESOURCES

1. www.youglish.com
2. www.Newwellington University.com
3. www.newslevels.com
4. www.Britishcouncil.org
5. www.writeandimprove.com
6. www.purdueonline.com



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19MDC401

VALUE ADDED COURSE – I
(SKETCHUP SOFTWARE)

L T P C

OBJECTIVES

The objective of this course will enable students to:

- Draw shapes and lines and to move the surfaces back and forth for turning them into 3D forms quickly and accurately.
- Apply drawing scales, and insert dimensions, graphics, further to learn the sketch up for building design applications.
- View and presenting models in 3D and to make everyday shapes, from 2– D plans, elevations and sections.
- Create rectangles, circles, polygons, arcs and also for moving, scaling and rotating objects with the process of applying, creating and editing materials.

COURSE CONTENTS

3D – modeling using sketch up software.

TOTAL: 15 PERIODS

OUTCOMES

At the end of the course, students can:

- Apply basic 3D modeling and apply basic concepts to create simple building models.
- Create everyday shapes, from 2D plans, elevations; create rectangles, circles, polygons and arcs.
- Move, scale and rotate objects with processes of applying, creating and editing materials.
- Export in 2D and 3D and Map textures on straight and curved objects.

TEXT BOOKS

1. Marcus Ritland, “3D Printing with SketchUp”.
2. Paul Lee, “Construction Documents Using SketchUp Pro 2020”.

REFERENCES

1. Robert Lang, “Building Blocks of SketchUp”.
2. John Romeo, “Create Scenery & Props with SketchUp”.

E-RESOURCES

1. https://www.iit.edu/sites/default/files/2021-02/google_sketchup.pdf(SketchUp Introduction)
2. <https://www.naukri.com/learning/design-your-room-using-sketchup-course-udeml724> (Design your Room Using Sketchup)



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19MDC301

LEADERSHIP ENHANCEMENT PROGRAMME
(Common to Civil, CSE, ECE, EEE & Mechanical)

L T P C
1 0 0 0

OBJECTIVES

The objective of the course is enabling the students to:

- Find new, innovative ways of developing and managing people.
- Develop new business opportunities.
- Tackle the broader societal issues the face.
- Key benefits of leadership skills in different situations.
- Formulate and implement effective leadership strategies.

TOIPICS TO BE COVERED

1. Leadership for an Engineering students: Skills & Strategies.
2. Qualities of good leaders and 21 irrefutable laws of Leadership.
3. Empowering Others and Managing People.
4. Leading Meetings.
5. Leadership competencies and Leadership Styles.
6. Difference between a boss and a leader.
7. Leadership and Assertiveness Skills : A Good Leader, Leadership Theories, Leadership Behaviour , Assertiveness skills.
8. Leadership development opportunities and suggestions.
9. Teamwork and Leadership : Concept of teams , Building Effective teams, Concept of leadership and sharpening leadership skills.
10. Teamwork and Leadership Activities: Group discussion, Solving Puzzle as a team, describing a leadership style.

TOTAL: 12 PERIODS

OUTCOME

At the end of the course, the students will be able to:

- Develop the capabilities needed to increase team's work productivity.
- Help to decrease employee turnover and increase engagement, creating a strong and united team.
- Develop communication skills, mastering the art of negotiation, influence and conflict management.
- More confident as a leader and find new ways of influencing the teams they lead.
- Effectively connect to people, developing the ability to give constructive feedback, and critically seek the feedback of the team.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



TEXT BOOKS

1. John maxwell, "21 Irrefutable Laws of Leadership" 2008.
2. Sara n. King, David g. Altman, Robert j. Lee, "Discovering the leader in you".
3. Louis carter ,David ulrich , Marshall goldsmith "Best practices in leadership development and Organization change".

REFERENCES

1. Barry Benator, Albert Thumann, "Project Management and Leadership Skills for Engineering and Construction Projects" 2003.
2. Sydänmaanlakka Pentti. "Intelligent leadership and leadership competencies". Dissertation Series.

E-RESOURCES

1. <https://nptel.ac.in/courses/122/105/122105021/>(Introduction to Leadership)
2. www.ccl.org/leadership/research/index.aspx(Centre for Creative Leadership)



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 3(D) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (DT) TAMILNADU



19MDC401

VALUE ADDED COURSES- I (SOLIDWORKS)

OBJECTIVES

The main objective of this course is to:

- Learn the individual features and functions of SOLIDWORKS, thereby emphasizing procedures and procedures for completion of any task.
- Understand the principles of technical drawings to create different 3D models.
- Extend a knowledge of parametric 3D models to design and build mechanical parts and assemblies.
- Know the setup sheets for plotting with text, dimensions, and details.
- Familiar with Parametric Modeling to manufacturing and engineering concepts.

COURSE CONTENTS

- a. 2D DRAFTING
- b. 3D-MODELLING
- c. SURFACE CREATIONS AND ASSEMBLY
- d. DRAFTING & DRAWING
- e. SHEET METAL FEATURES
- f. PHOTO WORKS
- g. PROJECT

OUTCOMES

At the end of this course, learners will be able to:

- Demonstrate competency with multiple drawing and modification commands.
- Create three-dimensional solid models.
- Build three-dimensional assemblies incorporating multiple solid models.
- Apply industry standards in the preparation of technical mechanical drawings.
- Make simulation of the assemblies incorporating multiple solid models.

TEXT BOOKS

1. John E Matsson, "An Introduction to Solidworks Flow Simulation 2020", SDC Publication, USA, 2020.
2. Prof. Sham Tickoo, "Solidworks 2020 for designers", Purdue University Northwest, USA, 2020.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



REFERENCES

1. Alejandro Reyes, "Beginner's Guide to Solidworks 2020", SDC Publication, USA, 2019.
2. Matt Lombard, "Mastering SolidWorks", Wiley Publisher, 2018.

E-RESOURCES

1. <https://mlc-cad.com/solidworks-online-resources/>
2. <https://www.cadimensions.com/video/solidworks-online-resources-webinar/>



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEC101

LIFE SKILLS FOR ENGINEERS
(Employability Enhancement Course)
(Common to Civil, CSE, ECE, EEE & Mechanical)

L T P C
0 0 2 0

OBJECTIVES

To enable the students to,

- Develop communication competence for engineers and enable them to convey thoughts and ideas with clarity and focus.
- Inculcate critical thinking process on problem solving.
- Have an overview on career skills required in their profession.
- Learn professional Ethics and Moral values.
- Lead a team with more responsibilities to be succeedin their endeavour.

UNIT I : COMMUNICATION SKILL **6**

Introduction to Communication, The Process of Communication, Barriers to Communication, Listening Skills, Non-verbal Communication and Body Language, Interview Skills, Group Discussion, Presentation Skills, Technology-based Communication – Technical Presentation.

UNIT II : CRITICAL THINKING & PROBLEM SOLVING **6**

Creativity, Lateral thinking, Critical thinking, Multiple Intelligence, Problem Solving, Mind Mapping & Analytical Thinking.

UNIT III : CAREER SKILLS **6**

Introduction to Employability and Career Skills – developing a long-term career plan – making career changes – Time Management – General awareness of Current Affairs – Stress management – Leadership straits – Team work – Career planning.

UNIT IV : ETHICS MORAL & PROFESSIONAL VALUES **6**

Human Values, Civic Rights, Engineering Ethics, Engineering as Social Experimentation, Environmental Ethics, Global Issues.

UNIT V : LEADERSHIP SKILLS **6**

Leadership, Levels of Leadership, Making of a leader, Types of leadership, Transactions Vs Transformational Leadership, VUCA Leaders, DART Leadership, Leadership Grid & leadership Formulation.

TOTAL : 30 PERIODS



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEC201

TECHNICAL SKILL (MULTIMEDIA)
(Employability Enhancement Course)

L T P C
0 0 2 0

OBJECTIVES

The main objective of this course is to,

- Explore the various multimedia editing tools like Flash and Photoshop.
- Know about the multimedia software tools and can interact with multimedia practically.
- Know the animation techniques in Flash.
- Enable to understand layers in Photoshop.
- Enhance the skills to do image processing.
- Exploit animations and games.

LIST OF TECHNICAL SKILLS TO BE LEARNED

Flash:

1. To create an animation to represent the growing moon.
2. To create an animation to indicate a ball bouncing on steps.
3. To change a circle into a square using flash.
4. To display the background given(filename: tulip.jpg) through your name.
5. To draw the fan blades and to give proper animation.

Photoshop:

6. To Design a visiting card containing atleast one graphic and text information.
7. To prepare a cover page for the book in your subject area. plan your own design.
8. To adjust the brightness and contrast of the picture so that it gives an elegant look.
9. To use appropriate tool(s) from the toolbox, cut the objects from 3 files.
(f1.jpg, f2.jpg & f3.jpg); organise them in a single file and apply feather effects.
10. Apply crop, canvas and clone tools in an image.

TOTAL: 20 PERIODS

OUTCOMES

Upon completion of the course, the students will be able to,

- Apply the tools on Photoshop.
- Create an application using Photoshop.
- Process the element using flash.
- Create animations.
- Understand the process of image processing.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEC301

COMMUNICATION SKILLS

L T P C
0 0 2 0

OBJECTIVES

The purpose of learning this course is to

- Improve fluency in English through well developed vocabulary.
- Improve the oral communication skills.
- Focus the effective reading of general and technical text.
- Improve writing skill.
- Communicate ideas in group discussion and interviews.

UNIT I : VOCABULARY

6

Vocabulary building – articulate ideas and thoughts; usage of palindromes, greetings, wishes, festival related words – homophones and homonyms – connotation – vocabulary words with sentences. – Idiomatic Expressions – One-word Substitutes.

Activities: Learn a word a week, Use newspaper to write unfamiliar words, Word association games.

UNIT II : LISTENING

6

Listening Skill – Its importance – Purpose – Process– Types – Barriers – Effective Listening strategies – Listening and note-taking – Listening to telephonic conversations – Ted talks – Watching Inspiring Speech videos on You tube – Listening native speaker's videos for pronunciation.

Activities: Listen and draw the different scenes in a story, Secret Message games, watching videos and listing difficult words.

UNIT III : SPEAKING

6

JAM Talk – Role play – Debate – Conversational skills (formal and informal) – Conversation practice – group discussion and interview skills – Introducing oneself and others – Presentation skills – Making presentations (individual and group) through seminars / PPTs.

Activities: Picture Description, Giving Directions and Guidelines, Making a short speech – Extempore.

UNIT IV : READING

6

Strategies for effective reading (Guessing meanings from contexts – Scanning, skimming, inferring meaning and critical reading) – Read and recognize different text types ranging from newspaper articles, magazines, books, Technical articles and Reading autobiographies.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEC302

ENTREPRENEURSHIP DEVELOPMENT ACTIVITY
(Common to Civil,CSE,ECE,EEE & Mechanical)

LT P C
0 0 2 0

OBJECTIVES

The Objectives are enabling the students to,

- Evaluate social and civil responsibilities of business ownership.
- Describe typical behavioral characteristics of an effective entrepreneur.
- Develop a business plan, including identifying an executive summary; conducting a marketing and competitive analysis report; and developing a marketing, management, and financial plan.
- Determine career opportunities, responsibilities, and educational and credentialing requirements related to various entrepreneurship ventures.
- Interpret research data to determine market-driven problems faced by entrepreneurs.

TOPICS TO BE COVERED

1. Should You Become an Entrepreneur?
 - Entrepreneurship: Present & Past
 - Is Entrepreneurship Right for You
 - Identify Business Opportunities & Set Goals
2. What Skills Do Entrepreneurs Need
 - Communication Skills
 - Math Skills
 - Problem Solving Skills
3. Entrepreneurs in a Market Economy
 - What is an Economy?
 - The Concept of Cost
 - Government in a Market Economy
4. Select a Type of Ownership
 - Run an Existing Business
 - Own a Franchise or Start a Business
 - Choose the Legal Form of Your Business



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19MDC301

LEADERSHIP ENHANCEMENT PROGRAMME
(Common to Civil,CSE,ECE,EEE & Mechanical)

L T P C
1 0 0 0

OBJECTIVES

The objective of the course is enabling the students to,

- Find new, innovative ways of developing and managing people.
- Develop new business opportunities.
- Tackle the broader societal issues the face.
- Key benefits of leadership skills in different situations.
- formulate and implement effective leadership strategies.

TOPICS TO BE COVERED

1. Leadership for an Engineering students: Skills & Strategies.
2. Qualities of good leaders and 21 irrefutable laws of Leadership.
3. Empowering Others and Managing People.
4. Leading Meetings.
5. Leadership competencies and Leadership Styles.
6. Difference between a boss and a leader.
7. Leadership and Assertiveness Skills : A Good Leader, Leadership Theories, Leadership Behaviour , Assertiveness skills.
8. Leadership development opportunities and suggestions.
9. Teamwork and Leadership : Concept of teams , Building Effective teams, Concept of leadership and sharpening leadership skills.
10. Teamwork and Leadership Activities : Group discussion, Solving Puzzle as a team, describing a leadership style.

TOTAL : 12 PERIODS

OUTCOMES

At the end of the course, the students will be able to,

- Develop the capabilities needed to increase team's work productivity.
- Help to decrease employee turnover and increase engagement, creating a strong and united team.
- Develop communication skills, mastering the art of negotiation, influence and conflict management.
- More confident as a leader and find new ways of influencing the teams they lead.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19MDC401

VALUE ADDED COURSE – I (PC HARDWARE AND TROUBLESHOOTING)

L T P C

- - - -

OBJECTIVES

The main objective of the course is to,

- Explore the various hardware components on a computer.
- Know about graphics card and types of CPU.
- Enhance the knowledge in system diagnostics.
- Exploit the problem solving techniques.
- Learn the ways of assembling the PC.

COURSE CONTENTS

1. Installation of Hardware Components and Identifying the Memory
2. Installing Graphics cards, USB and Configuring it for better performance
3. Virtual Memory Configuration
4. Registry Cleaner, Spyware Detector and Diagnosing Hardware failures
5. Configuring BIOS
6. Troubleshooting and Isolating Computer Problems
7. Working with Motherboard and CPU
8. Assembling Motherboard
9. Fault detection after assembling

OUTCOMES

Upon completion of the course, students will be able to,

- Explore the various hardware components on a computer.
- Know the graphics card usage and types of CPU.
- Enhance the knowledge in system diagnostics.
- Exploit the problem solving techniques.
- Learn the ways of assembling the PC.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEEC101

LIFE SKILLS FOR ENGINEERS
(Employability Enhancement Course)
(Common to Civil,CSE,ECE,EEE & Mechanical)

L T P C
0 0 2 0

OBJECTIVES

To enable students to:

- Develop communication competence for engineers and enable them to convey thoughts and ideas with clarity and focus.
- Inculcate critical thinking process on problem solving.
- Have an overview on career skills required in their profession.
- Learn professional Ethics and Moral values.
- Lead a team with more responsibilities to be succeed in their endeavour.

UNIT I: COMMUNICATION SKILL

6

Introduction to Communication, The Process of Communication, Barriers to Communication, Listening Skills, Non-verbal Communication and Body Language, Interview Skills, Group Discussion, Presentation Skills, Technology-based Communication- Technical Presentation

UNIT II: CRITICAL THINKING & PROBLEM SOLVING

6

Creativity, Lateral thinking, Critical thinking, Multiple Intelligence, Problem Solving, Mind Mapping & Analytical Thinking.

UNIT III: CAREER SKILLS

6

Introduction to Employability and Career Skills - developing a long - term career plan - making career changes -Time Management - General awareness of Current Affairs - Stress management - Leadership straits - Team work - Career planning.

UNIT IV: ETHICS MORAL & PROFESSIONAL VALUES

6

Human Values, Civic Rights, Engineering Ethics, Engineering as Social Experimentation, Environmental Ethics, Global Issues.

UNIT V: LEADERSHIP SKILLS

6

Leadership, Levels of Leadership, Making of a leader, Types of leadership, Transactions Vs Transformational Leadership, VUCA Leaders, DART Leadership, Leadership Grid & leadership Formulation.

TOTAL: 30 PERIODS



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



OUTCOMES

Upon completion of the course, the students will be able to:

- Communicate effectively and make effective presentations.
- Write different types of reports.
- Face interview & group discussion.
- Critically think on a particular problem.
- Get success in all aspects and develop public skills.

TEXT BOOKS

1. Life Skills for Engineers, McGraw Hill Education (India) Private Ltd., 2016.
2. E. Suresh Kumar et al. Communication for Professional Success. Orient Blackswan: Hyderabad, 2015.

REFERENCES

1. Barun K. Mitra; (2011), "Personality Development & Soft Skills", 1st Edition; Oxford Publishers.
2. Kalyana; (2015) "Soft Skill for Managers"; 1st Edition; Wiley Publishing Ltd.



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEC203

HANDS ON TRAINING IN ELECTRICAL AND ELECTRONICS ENGINEERING

L T P C

(Employability Enhancement Course)

0 0 2 0

(For EEE and ECE Branches)

OBJECTIVES

The main objective of this course is to:

- Gain practical experience on Electrical Appliances.
- Create awareness on non-conventional energy.

LIST OF EXPERIMENTS:

1. Maintenance of UPS and Battery.
2. Earthing of Power Devices.
3. Repair & Maintenance of Home Appliances.
4. Change of Fuse Links.
5. Repair & Maintenance of Air Compressor.
6. Repair & Maintenance of RO System (filter, pump moter)
7. Study of Electronic Devices.
8. Residential house wiring using switches, fuse, indicator, lamp and energy meter.
9. Fluorescent lamp wiring.
10. Stair case wiring.
11. Soldering practice-components devices and circuits-using general purpose PCB.

TOTAL: 20 PERIODS

OUTCOMES

At the end of the course, the students will be able to:

- Repair and service the electrical appliances.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEC301

COMMUNICATION SKILLS

L T P C
0 0 2 0

OBJECTIVES:

The purpose of learning this course is to:

- Improve fluency in English through well developed vocabulary.
- Improve the oral communication skills.
- Focus the effective reading of general and technical text.
- Improve writing skill.
- Communicate ideas in group discussion and interviews.

Unit I: VOCABULARY

6

Vocabulary building - articulate ideas and thoughts; usage of palindromes, greetings, wishes, festival related words - homophones and homonyms- connotation - vocabulary words with sentences. - Idiomatic Expressions - One- word Substitutes.

Activities: Learn a word a week, Use newspaper to write unfamiliar words, Word association games.

Unit II: LISTENING

6

Listening Skill- Its importance - Purpose- Process- Types- Barriers- Effective Listening strategies- Listening and note-taking - Listening to telephonic conversations - Ted talks - Watching Inspiring Speech videos on You tube- Listening native speaker's videos for pronunciation.

Activities: Listen and draw the different scenes in a story, Secret Message games, watching videos and listing difficult words.

UNIT III: SPEAKING

6

JAM Talk - Role play - Debate - Conversational skills (formal and informal) - Conversation practice - group discussion and interview skills - Introducing oneself and others - Presentation skills - Making presentations (individual and group) through seminars / PPTs.

Activities: Picture Description, Giving Directions and Guidelines, Making a short speech- Extempore.

UNIT IV: READING

6

Strategies for effective reading (Guessing meanings from contexts - Scanning, skimming, inferring meaning and critical reading)- Read and recognize different text types ranging from



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



newspaper articles, magazines, books, Technical articles and Reading autobiographies -.

Activities: Reading online sources like e-books, e-journals and e-newspapers, cloze exercises, Reading and answering questions.

UNIT V: WRITING

6

Develop a paragraph: topic sentence, supporting sentences, concluding sentence - Writing simple Essays - argument, descriptive and comparative essays- Creative writing.

Activities: Write Essays with sub titles, Write a story that uses as many clichés and idioms, Write Paragraph.

TOTAL : 30 PERIODS

The following Practice Session will be conducted for the Communication Skills (CS) Lab sessions:

- Activities on Presentations Skills- Students make presentations on given topics.
- Activities on Group Discussion- Students participate in group discussions.
- Interview Skills- Students participate in Mock Interviews.
- Essay Writing - Students prepare their own paragraph and essay.

Guidelines for conducting assessments as per 2019 regulations

- 30 hours - Two consecutive hours allotted for each class.
- Three Continuous assessments only conducted and no end semester exam.
- For the award of Continuous assessment the best three activities from Essay Writing, Oral Presentation, Extempore, Group Discussion and Mock Interview (one-on-one basis) can be taken.

OUTCOMES:

At the end of this course, learners will be able to:

- Improve vocabulary and express the same contextually.
- Communicate to his peer group properly and make presentations.
- Comprehend the general and technical text.
- Write simple paragraph and essay in any topic.
- Participate in group discussions expressing ideas relevantly, coherently and cogently.

TEXT BOOKS:

1. Gramer F. Margot and Colin S. Ward Reading and Writing (Level 3) Oxford University .Press:Oxford, 2011.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



2. Brooks, Margret. Skills for Success. Listening and Speaking. Level 4 Oxford University Press, Oxford: 2011.

REFERENCES:

1. Davis, Jason and Rhonda Liss. Effective Academic Writing (Level 3) Oxford University Press: Oxford, 2006.
2. E. Suresh Kumar and et al. Enriching Speaking and Writing Skills. 2nd Edition. Orient Black swan.
3. Anderson, Kenneth et al. Study Speaking: A Course in Spoken English for Academic Purposes. United Kingdom: Cambridge University Press 1992.
4. Technical communication by Asraf rezvi.

E- RESOURCES :

1. www.youglish.com
2. www.Newwellington University.com
3. www.newslevels.com
4. www.Britishcouncil.org
5. www.writeandimprove.com
6. www.purdueonline.com



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEC302

ENTREPRENEURSHIP DEVELOPMENT ACTIVITY
(Common to all Branches)

L T P C
0 0 2 0

OBJECTIVES

The course objectives can make students to:

- Evaluate social and civil responsibilities of business ownership.
- Describe typical behavioral characteristics of an effective entrepreneur.
- Develop a business plan, including identifying an executive summary; conducting a marketing and competitive analysis report; and developing a marketing, management, and financial plan.
- Determine career opportunities, responsibilities, and educational and credentialing requirements related to various entrepreneurship ventures.
- Interpret research data to determine market-driven problems faced by entrepreneurs.

TOPICS TO BE COVERED

1. Should You Become an Entrepreneur?
 - Entrepreneurship: Present & Past
 - Is Entrepreneurship Right for You
 - Identify Business Opportunities & Set Goals
2. What Skills Do Entrepreneurs Need
 - Communication Skills
 - Math Skills
 - Problem Solving Skills
3. Entrepreneurs in a Market Economy
 - What is an Economy?
 - The Concept of Cost
 - Government in a Market Economy
4. Select a Type of Ownership
 - Run an Existing Business



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



- Own a Franchise or Start a Business
- Choose the Legal Form of Your Business
- 5. Develop a Business Plan
 - Why Do You Need a Business Plan
 - What Goes into a Business Plan
 - Create an Effective Business Plan
- 6. Identify and Meet a Market Need
 - The Value of Market Research
 - How to Perform Market Research Entrepreneurship Syllabus
 - Identify Your Competition
- 7. Finance, Protect, and Insure Your Business
 - Put Together a Financial Plan
 - Obtain Financing for Your Business
 - Protect Your Business
- 8. Choose Your Location & Set Up for Business
 - Choose a Retail Business Location
 - Choose a Location for a Nonretail Business
 - Obtain Space and Design the Physical Layout
 - Purchase Equipment, Supplies, and Inventory
- 9. Market Your Business
 - The Marketing Mix
 - Product, Price, Distribution, Price, and Promotion
 - Set Marketing Goals
- 10. Hire and Manage a Staff
 - Hire Employees
 - Create a Compensation Package
 - Manage your Staff



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



11. Record-Keeping and Accounting

- Set up a Record Keeping System
- Understand Basic Accounting
- Track Your Inventory

12. Financial Management

- Manage your Cash Flow
- Analyze Your Financial Performance
- Hire Experts

13. Use Technology

- Technology and Your Business
- Learn about the Interest
- Purchase Technology

14. Intellectual property Rights

- Patents
- Copyright
- Industrial design rights
- Trademarks
- Trade secrets

15. Innovation Contest

- Innovative Idea
- Proof of Concept (PoC)
- Prototype Creation
- The students may be grouped into 2 to 3 and work under a project supervisor. The Prototypes to be fabricated may be decided in consultation with the supervisor. A innovative report to be submitted by the group and the model, which will be reviewed and evaluated for internal assessment by a Committee constituted by the Head of the Department.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



OUTCOMES

- Identify personal strengths and value systems.
- Recall important tenets of digital literacy.
- Discuss the essentials of matters pertaining to money.
- Prepare for employment and self-employment.
- Illustrate the basics of entrepreneurship and identify new business opportunities.

TOTAL: 15 PERIODS



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19MDC301

LEADERSHIP ENHANCEMENT PROGRAMME (Common to all branches)

LT P C
1 0 0 0

OBJECTIVES

The objective of the course is enabling the students to:

- Find new, innovative ways of developing and managing people.
- Develop new business opportunities.
- Tackle the broader societal issues the face.
- Key benefits of leadership skills in different situations.
- Formulate and implement effective leadership strategies.

TOPICS TO BE COVERED

1. Leadership for an Engineering students: Skills & Strategies
2. Qualities of good leaders and 21 irrefutable laws of Leadership.
3. Empowering Others and Managing People.
4. Leading Meetings
5. Leadership competencies and Leadership Styles
6. Difference between a boss and a leader.
7. Leadership and Assertiveness Skills: A Good Leader, Leadership Theories, Leadership Behaviour, Assertiveness skills.
8. Leadership development opportunities and suggestions.
9. Teamwork and Leadership: Concept of teams, Building Effective teams, Concept of leadership and sharpening leadership skills.
10. Teamwork and Leadership Activities: Group discussion, Solving Puzzle as a team, describing a leadership style.

OUTCOMES

At the end of the course, the students will be able to:

- Develop the capabilities needed to increase team's work productivity.
- Help to decrease employee turnover and increase engagement, creating a strong and united team.
- Develop communication skills, mastering the art of negotiation, influence and conflict management.
- More confident as a leader and find new ways of influencing the teams they lead.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



- Effectively connect to people, developing the ability to give constructive feedback, and critically seek the feedback of the team.

TOTAL: 12 PERIODS

TEXT BOOK

1. John maxwell, "21 irrefutable laws of leadership" 2008
2. Sara n. King, David g. Altman, Robert j. Lee, "Discovering the leader in you"
3. Louis carter ,David ulrich , Marshall Goldsmith "Best practices in leadership development and Organization change".

REFERENCE

1. Barry Benator, Albert Thumann,"Project Management and Leadership Skills for Engineering and Construction Projects" 2003.
2. Sydänmaanlakka Pentti. "Intelligent leadership and leadership competencies". Dissertation Series.

E-RESOURCES

1. <https://nptel.ac.in/courses/122/105/122105021/>
2. www.ccl.org/leadership/research/index.aspx.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19MDC401

VALUE ADDED COURSE – I

L T P C

- - - -

OBJECTIVES

- Being able to carry out simple numerical computations and analyses using MATLAB.
- The objective of the course makes students capable to design their own projects PCB upto industrial grade.
- To prepare students with latest knowledge in mobile technology.
- The purpose of the course is to help circuit designers better understand the operation of a SPICE circuit simulator and semiconductor device models with emphasis on Deep- Submicron (DSM) transistors.

COURSE CONTENTS

1. MATLAB
2. PCB DESIGN
3. MOBILE HARDWARE TROUBLE SHOTTING
4. PSPICE SIMULATION

OUTCOMES

At the end of this course, the students are able to:

- Write simple programs in MATLAB to solve scientific and mathematical problems.
- Students are capable to produce PCB of their own circuit.
- Repair and Diagnose the Problem of all kinds of faults in Mobile Phone handsets in Hardware as well Software and rectify the faults using tools and equipment and various software.
- Analyze simple analog and digital circuits using PSpice software.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19MDC401

VALUE ADDED COURSE – I

L T P C

- - - -

OBJECTIVES

- Being able to carry out simple numerical computations and analyses using MATLAB.
- The objective of the course makes students capable to design their own projects PCB upto industrial grade.
- To prepare students with latest knowledge in mobile technology.
- The purpose of the course is to help circuit designers better understand the operation of a SPICE circuit simulator and semiconductor device models with emphasis on Deep- Submicron (DSM) transistors.

COURSE CONTENTS

1. MATLAB
2. PCB DESIGN
3. MOBILE HARDWARE TROUBLE SHOOTING
4. PSpice SIMULATION

OUTCOMES

At the end of this course, the students are able to:

- Write simple programs in MATLAB to solve scientific and mathematical problems.
- Students are capable to produce PCB of their own circuit.
- Repair and Diagnose the Problem of all kinds of faults in Mobile Phone handsets in Hardware as well Software and rectify the faults using tools and equipment and various software.
- Analyze simple analog and digital circuits using PSpice software.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEEC101

LIFE SKILLS FOR ENGINEERS
(Employability Enhancement Course)
(Common to Civil,CSE,ECE,EEE & Mechanical)

L T P C
0 0 2 0

OBJECTIVES

To enable students to:

- Develop communication competence for engineers and enable them to convey thoughts and ideas with clarity and focus.
- Inculcate critical thinking process on problem solving.
- Have an overview on career skills required in their profession.
- Learn professional Ethics and Moral values.
- Lead a team with more responsibilities to be succeed in their endeavour.

UNIT I: COMMUNICATION SKILL

6

Introduction to Communication, The Process of Communication, Barriers to Communication, Listening Skills, Non-verbal Communication and Body Language, Interview Skills, Group Discussion, Presentation Skills, Technology-based Communication- Technical Presentation

UNIT II: CRITICAL THINKING & PROBLEM SOLVING

6

Creativity, Lateral thinking, Critical thinking, Multiple Intelligence, Problem Solving, Mind Mapping & Analytical Thinking.

UNIT III: CAREER SKILLS

6

Introduction to Employability and Career Skills - developing a long - term career plan - making career changes -Time Management - General awareness of Current Affairs - Stress management - Leadership straits - Team work - Career planning.

UNIT IV: ETHICS MORAL & PROFESSIONAL VALUES

6

Human Values, Civic Rights, Engineering Ethics, Engineering as Social Experimentation, Environmental Ethics, Global Issues.

UNIT V: LEADERSHIP SKILLS

6

Leadership, Levels of Leadership, Making of a leader, Types of leadership, Transactions Vs Transformational Leadership, VUCA Leaders, DART Leadership, Leadership Grid & leadership Formulation.

TOTAL: 30 PERIODS



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



OUTCOMES

Upon completion of the course, the students will be able to:

- Communicate effectively and make effective presentations.
- Write different types of reports.
- Face interview & group discussion.
- Critically think on a particular problem.
- Get success in all aspects and develop public skills.

TEXT BOOKS

1. Life Skills for Engineers, McGraw Hill Education (India) Private Ltd., 2016.
2. E. Suresh Kumar et al. Communication for Professional Success. Orient Blackswan: Hyderabad, 2015.

REFERENCES

1. Barun K. Mitra; (2011), "Personality Development & Soft Skills", 1st Edition; Oxford Publishers.
2. Kalyana; (2015) "Soft Skill for Managers"; 1st Edition; Wiley Publishing Ltd.



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEC203

HANDS ON TRAINING IN ELECTRICAL AND ELECTRONICS ENGINEERING

L T P C

(Employability Enhancement Course)

0 0 2 0

(For EEE and ECE Branches)

OBJECTIVES

The main objective of this course is to:

- Gain practical experience on Electrical Appliances.
- Create awareness on non-conventional energy.

LIST OF EXPERIMENTS:

1. Maintenance of UPS and Battery.
2. Earthing of Power Devices.
3. Repair & Maintenance of Home Appliances.
4. Change of Fuse Links.
5. Repair & Maintenance of Air Compressor.
6. Repair & Maintenance of RO System (filter, pump moter)
7. Study of Electronic Devices.
8. Residential house wiring using switches, fuse, indicator, lamp and energy meter.
9. Fluorescent lamp wiring.
10. Stair case wiring.
11. Soldering practice-components devices and circuits-using general purpose PCB.

TOTAL: 20 PERIODS

OUTCOMES

At the end of the course, the students will be able to:

- Repair and service the electrical appliances.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEC301

COMMUNICATION SKILLS LABORATORY

L T P C
0 0 2 0

OBJECTIVES:

The purpose of learning this course is

- Improve fluency in English through well developed vocabulary.
- To improve the oral communication skills
- To focus the effective reading of general and technical text
- To improve writing skill
- To communicate ideas in group discussion and interviews

Unit I VOCABULARY

6

Vocabulary building – articulate ideas and thoughts; usage of palindromes, greetings, wishes, festival related words - homophones and homonyms- connotation - vocabulary words with sentences. - Idiomatic Expressions - One- word Substitutes.

Activities: Learn a word a week, Use newspaper to write unfamiliar words, Word association games.

Unit II LISTENING

6

Listening Skill- Its importance – Purpose- Process- Types- Barriers- Effective Listening strategies- Listening and note-taking – Listening to telephonic conversations – Ted talks – Watching Inspiring Speech videos on You tube- Listening native speaker's videos for pronunciation.

Activities: Listen and draw the different scenes in a story, Secret Message games, watching videos and listing difficult words.

Unit III SPEAKING

6

JAM Talk - Role play – Debate - Conversational skills (formal and informal) - Conversation practice – group discussion and interview skills – Introducing oneself and others – Presentation skills -Making presentations (individual and group) through seminars / PPTs.

Activities: Picture Description, Giving Directions and Guidelines, Making a short speech- Extempore.

Unit IV READING

6

Strategies for effective reading (Guessing meanings from contexts -Scanning, skimming, inferring meaning and critical reading)- Read and recognize different text types ranging from newspaper articles, magazines, books, Technical articles and Reading autobiographies -

Activities: Reading online sources like e-books, e-journals and e-newspapers, cloze exercises, Reading and answering questions.

Unit V WRITING

6

Develop a paragraph: topic sentence, supporting sentences, concluding sentence - Writing simple Essays –argument, descriptive and comparative essays- Creative writing.

Activities: Write Essays with sub titles, Write a story that uses as many clichés and idioms, Write Paragraph.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



The following Practice Session will be conducted for the Communication Skills (CS) Lab sessions:

- Activities on Presentations Skills- Students make presentations on given topics
- Activities on Group Discussion- Students participate in group discussions
- Interview Skills- Students participate in Mock Interviews
- Essay Writing - Students prepare their own paragraph and essay

Guidelines for conducting assessments as per 2019 regulations

- 30 hours – Two consecutive hours allotted for each class.
- Three Continuous assessments only conducted and no end semester exam.
- For the award of Continuous assessment the best three activities from Essay Writing, Oral Presentation, Extempore, Group Discussion and Mock Interview (one-on-one basis) can be taken.

OUTCOMES:

At the end of this course, learners will be able to:

- Improve vocabulary and express the same contextually
- Communicate to his peer group properly and make presentations
- Comprehend the general and technical text
- Write simple paragraph and essay in any topic
- Participate in group discussions expressing ideas relevantly, coherently and cogently

TEXT BOOK(S):

1. Gramer F. Margot and Colin S. Ward Reading and Writing (Level 3) Oxford University Press: Oxford, 2011
2. Brooks, Margret. Skills for Success. Listening and Speaking. Level 4 Oxford University Press, Oxford: 2011

REFERENCE(S):

1. Davis, Jason and Rhonda Liss. Effective Academic Writing (Level 3) Oxford University Press: Oxford, 2006
2. E. Suresh Kumar and et al. Enriching Speaking and Writing Skills. Second Edition. Orient Black swan:
3. Anderson, Kenneth et al. Study Speaking: A Course in Spoken English for Academic Purposes. United Kingdom: Cambridge University Press 1992.
4. Technical communication by Asraf rezvi

e- Resources :

1. www.youglish.com
2. www.Newwellington University.com
3. www.newsinlevels.com
4. www.Britishcouncil.org
5. www.writeandimprove.com
6. www.purdueonline.com



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEC302

ENTREPRENEURSHIP DEVELOPMENT ACTIVITY

L T P C

(Common to all Branches)

0 0 2 0

OBJECTIVES

- Evaluate social and civil responsibilities of business ownership
- Describe typical behavioral characteristics of an effective entrepreneur
- Develop a business plan, including identifying an executive summary; conducting a marketing and competitive analysis report; and developing a marketing, management, and financial plan
- Determine career opportunities, responsibilities, and educational and credentialing requirements related to various entrepreneurship ventures.
- Interpret research data to determine market-driven problems faced by entrepreneurs

TOPICS TO BE COVERED

16. Should You Become an Entrepreneur?
 - Entrepreneurship: Present & Past
 - Is Entrepreneurship Right for You
 - Identify Business Opportunities & Set Goals
17. What Skills Do Entrepreneurs Need
 - Communication Skills
 - Math Skills
 - Problem Solving Skills
18. Entrepreneurs in a Market Economy
 - What is an Economy?
 - The Concept of Cost
 - Government in a Market Economy
19. Select a Type of Ownership
 - Run an Existing Business
 - Own a Franchise or Start a Business
 - Choose the Legal Form of Your Business
20. Develop a Business Plan
 - Why Do You Need a Business Plan
 - What Goes into a Business Plan
 - Create an Effective Business Plan
21. Identify and Meet a Market Need
 - The Value of Market Research
 - How to Perform Market Research Entrepreneurship Syllabus
 - Identify Your Competition



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



22. Finance, Protect, and Insure Your Business
 - Put Together a Financial Plan
 - Obtain Financing for Your Business
 - Protect Your Business
23. Choose Your Location & Set Up for Business
 - Choose a Retail Business Location
 - Choose a Location for a Nonretail Business
 - Obtain Space and Design the Physical Layout
 - Purchase Equipment, Supplies, and Inventory
24. Market Your Business
 - The Marketing Mix
 - Product, Price, Distribution, Price, and Promotion
 - Set Marketing Goals
25. Hire and Manage a Staff
 - Hire Employees
 - Create a Compensation Package
 - Manage your Staff
26. Record-Keeping and Accounting
 - Set up a Record Keeping System
 - Understand Basic Accounting
 - Track Your Inventory
27. Financial Management
 - Manage your Cash Flow
 - Analyze Your Financial Performance
 - Hire Experts
28. Use Technology
 - Technology and Your Business
 - Learn about the Interest
 - Purchase Technology
29. Intellectual property Rights
 - Patents
 - Copyright
 - Industrial design rights
 - Trademarks
 - Trade secrets
30. Innovation Contest
 - Innovative Idea
 - Proof of Concept (PoC)
 - Prototype Creation



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



- The students may be grouped into 2 to 3 and work under a project supervisor. The Prototypes to be fabricated may be decided in consultation with the supervisor. A innovative report to be submitted by the group and the model, which will be reviewed and evaluated for internal assessment by a Committee constituted by the Head of the Department.

Outcomes

- Identify personal strengths and value systems
- Recall important tenets of digital literacy
- Discuss the essentials of matters pertaining to money
- Prepare for employment and self-employment
- Illustrate the basics of entrepreneurship and identify new business opportunities

Total: 15 Periods



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19MDC301

LEADERSHIP ENHANCEMENT PROGRAMME

L P T C

(Common to all branches)

1 0 0 0

OBJECTIVES

The objective of the course is to enable the students to :

- Find new, innovative ways of developing and managing people
- Develop new business opportunities
- Tackle the broader societal issues the face
- key benefits of leadership skills in different situations
- formulate and implement effective leadership strategies.

TOPICS TO BE COVERED

1. Leadership for an Engineering students: Skills & Strategies
2. Qualities of good leaders and 21 irrefutable laws of Leadership
3. Empowering Others and Managing People
4. Leading Meetings
5. Leadership competencies and Leadership Styles
6. Difference between a boss and a leader.
7. Leadership and Assertiveness Skills : A Good Leader, Leadership Theories, Leadership Behaviour , Assertiveness skills.
8. Leadership development opportunities and suggestions
9. Teamwork and Leadership : Concept of teams , Building Effective teams, Concept of leadership and sharpening leadership skills.
10. Teamwork and Leadership Activities : Group discussion, Solving Puzzle as a team, describing a leadership style.

OUTCOME

At the end of the course, the students will be able to:

- Develop the capabilities needed to increase team's work productivity.
- Help to decrease employee turnover and increase engagement, creating a strong and united team.
- Develop communication skills, mastering the art of negotiation, influence and conflict management.
- More confident as a leader and find new ways of influencing the teams they lead.
- Effectively connect to people, developing the ability to give constructive feedback, and critically seek the feedback of the team.

Total: 12 Periods

TEXT BOOK

1. John maxwell, "21 irrefutable laws of leadership" 2008
2. Sara n. King, david g. Altman, robert j. Lee, "discovering the leader in you"
3. Louis carter ,david ulrich , marshall goldsmithbest practices in leadership development and Organization change



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



REFERENCE

1. Barry Benator, Albert Thumann, "Project Management and Leadership Skills for Engineering and Construction Projects" 2003.
2. Sydänmaanlakka Pentti. "Intelligent leadership and leadership competencies". Dissertation Series

E-SOURCES

1. <https://nptel.ac.in/courses/122/105/122105021/>
2. www.ccl.org/leadership/research/index.aspx.



SENGUNTHAR ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956

NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19MDC401

VALUE ADDED COURSE - I

OBJECTIVES:

- Enter MATLAB commands, with an emphasis on creating variables, accessing and manipulating data in variables, and creating basic visualizations. Collect MATLAB commands into scripts for ease of reproduction and experimentation.
- This course covers basic to intermediate theory & applications of programmable logic controllers.
- The objective of this course is to enable the students to understand embedded-system programming and apply that knowledge to design and develop embedded solutions. Interaction with peripheral devices.
- The purpose of the course is to help circuit designers better understand the operation of a SPICE circuit simulator and semiconductor device models with emphasis on Deep-Submicron (DSM) transistors.

COURSE CONTENTS

1. Power Electronics System for Smart Grid Renewable Energy System using MATLAB.
2. Design of Wiring and Winding - Electrical CAD.
3. Embedded System and Real Time Programming VHDL Program using Xilinx.
4. PLC programming.
5. Solar power supply on grid and off grid.
6. Electrical safety & maintenance.
7. E-CAD Programming.

OUTCOMES:

Upon completion of the course, students will be able to:

- Able to generate plots and export this for use in reports and presentations.
- Able to program scripts and functions using the Mat lab development environment.
- Students will be able to state basic PLC terminology and their meanings.
- Students will be able to explain and apply the concept of electrical ladder logic, its history, and its relationship to programmed PLC instruction.
- System design and program an embedded system at the basic level develop hardware- software complex with the use of the National Instruments products.


Faculty In-charge


HOD

Principal



SENGUNTHAR

SENGUNTHAR ENGINEERING COLLEGE
(AUTONOMOUS)
TIRUCHENGODE - 637 205



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEEC101

LIFE SKILLS FOR ENGINEERS
(Employability Enhancement Course)
(Common to Civil, CSE, ECE, EEE & Mechanical)

L T P C
0 0 2 0

OBJECTIVES

To enable students to:

- Develop communication competence for engineers and enable them to convey thoughts and ideas with clarity and focus.
- Inculcate critical thinking process on problem solving.
- Have an overview on career skills required in their profession.
- Learn professional Ethics and Moral values.
- Lead a team with more responsibilities to be succeeded in their endeavor.

UNIT I: COMMUNICATION SKILL

6

Introduction to Communication, The Process of Communication, Barriers to Communication, Listening Skills, Non-verbal Communication and Body Language, Interview Skills, Group Discussion, Presentation Skills, Technology – based Communication – Technical Presentation.

UNIT II: CRITICAL THINKING & PROBLEM SOLVING

6

Creativity, Lateral thinking, Critical thinking, Multiple Intelligence, Problem Solving, Mind Mapping & Analytical Thinking.

UNIT III: CAREER SKILLS

6

Introduction to Employability and Career Skills – developing a long – term career plan – making career changes – Time Management – General awareness of Current Affairs – Stress management – Leadership traits – Team work – Career planning.

UNIT IV: ETHICS MORAL & PROFESSIONAL VALUES

6

Human Values, Civic Rights, Engineering Ethics, Engineering as Social Experimentation, Environmental Ethics, Global Issues.

UNIT V: LEADERSHIP SKILLS

6

Leadership, Levels of Leadership, Making of a leader, Types of leadership, Transactions Vs Transformational Leadership, VUCA Leaders, DART Leadership, Leadership Grid & leadership Formulation.

TOTAL: 30 PERIODS

OUTCOMES

Upon completion of the course, the students will be able to:

- Communicate effectively and make effective presentations.
- Write different types of reports.
- Face interview & group discussion.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



- Critically think on a particular problem.
- Get success in all aspects and develop public skills.

TEXT BOOKS

1. Life Skills for Engineers, McGraw Hill Education (India) Private Ltd., 2016.
2. E.Suresh Kumar et al. Communication for Professional Success. Orient Blackswan: Hyderabad, 2015.

REFERENCES

1. Barun K. Mitra; (2011), "Personality Development & Soft Skills", First Edition; Oxford Publishers.
2. Kalyana; (2015) "Soft Skill for Managers"; First Edition; Wiley Publishing Ltd.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEC201

TECHNICAL SKILL (AutoCAD)
(Employability Enhancement Course)
(For Civil and Mechanical Branches)

L T P C
0 0 2 0

OBJECTIVES

- To develop skill to use software to create 2D and 3D models.

LIST OF EXERCISES USING SOFTWARE CAPABLE OF DRAFTING AND MODELING

- Study of capabilities of software for Drafting and Modeling - Coordinate systems (absolute, relative, polar, etc.) - Creation of simple figures like polygon and general multi-line figures
- Drawing of a Title Block with necessary text and projection symbol.
- Drawing of curves like parabola, spiral, involutes using Bspline or cubic spline.
- Drawing of front view and top view of simple solids like prism, pyramid, cylinder, cone, etc and dimensioning
- Drawing front view, top view and side view of objects from the given pictorial views (eg.V-Block, Base of a mixie, Simple stool, Objects with hole and curves)
- Drawing of a plan of residential building (Two bed rooms, kitchen, hall, etc.)
- Drawing of a simple steel truss
- Drawing sectional views of prism, pyramid, cylinder, cone, etc
- Drawing isometric projection of simple objects
- Creation of 3D models of simple objects and obtaining 2D multi - view drawings from 3D model

TOTAL : 20 PERIODS

OUTCOMES

- Students will be able to understand develop skill to use software to create 2D and 3D models.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEC201

TECHNICAL SKILL (AutoCAD)
(Employability Enhancement Course)
(For Civil and Mechanical Branches)

L T P C
0 0 2 0

OBJECTIVES

- To develop skill to use software to create 2D and 3D models.

LIST OF EXERCISES USING SOFTWARE CAPABLE OF DRAFTING AND MODELING

- Study of capabilities of software for Drafting and Modeling - Coordinate systems (absolute, relative, polar, etc.) - Creation of simple figures like polygon and general multi-line figures
- Drawing of a Title Block with necessary text and projection symbol.
- Drawing of curves like parabola, spiral, involutes using Bspline or cubic spline.
- Drawing of front view and top view of simple solids like prism, pyramid, cylinder, cone, etc and dimensioning
- Drawing front view, top view and side view of objects from the given pictorial views (eg.V-Block, Base of a mixie, Simple stool, Objects with hole and curves)
- Drawing of a plan of residential building (Two bed rooms, kitchen, hall, etc.)
- Drawing of a simple steel truss
- Drawing sectional views of prism, pyramid, cylinder, cone, etc
- Drawing isometric projection of simple objects
- Creation of 3D models of simple objects and obtaining 2D multi - view drawings from 3D model

TOTAL : 20 PERIODS

OUTCOMES

- Students will be able to understand develop skill to use software to create 2D and 3D models.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEEC302

ENTREPRENEURSHIP DEVELOPMENT ACTIVITY (Common to Civil, CSE, ECE, EEE & Mechanical)

L T P C
0 0 2 0

OBJECTIVES

The objectives make students to:

- Evaluate social and civil responsibilities of business ownership.
- Describe typical behavioral characteristics of an effective entrepreneur.
- Develop a business plan, including identifying an executive summary; conducting a marketing and competitive analysis report; and developing a marketing, management, and financial plan.
- Determine career opportunities, responsibilities, and educational and credentialing requirements related to various entrepreneurship ventures.
- Interpret research data to determine market– driven problems faced by entrepreneurs.

TOIPICS TO BE COVERED

1. Should You Become an Entrepreneur?
 - Entrepreneurship: Present & Past.
 - Is Entrepreneurship Right for You.
 - Identify Business Opportunities & Set Goals.
2. What Skills Do Entrepreneurs Need
 - Communication Skills.
 - Math Skills.
 - Problem Solving Skills.
3. Entrepreneurs in a Market Economy
 - What is an Economy?
 - The Concept of Cost.
 - Government in a Market Economy.
4. Select a Type of Ownership
 - Run an Existing Business.
 - Own a Franchise or Start a Business.
 - Choose the Legal Form of Your Business.
5. Develop a Business Plan
 - Why Do You Need a Business Plan.
 - What Goes into a Business Plan.
 - Create an Effective Business Plan.
6. Identify and Meet a Market Need
 - The Value of Market Research.
 - How to Perform Market Research Entrepreneurship Syllabus.
 - Identify Your Competition.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



7. Finance, Protect, and Insure Your Business
 - Put Together a Financial Plan.
 - Obtain Financing for Your Business.
 - Protect Your Business.
8. Choose Your Location & Set Up for Business
 - Choose a Retail Business Location.
 - Choose a Location for a Nonretail Business.
 - Obtain Space and Design the Physical Layout.
 - Purchase Equipment, Supplies, and Inventory.
9. Market Your Business
 - The Marketing Mix.
 - Product, Price, Distribution, Price, and Promotion.
 - Set Marketing Goals.
10. Hire and Manage a Staff
 - Hire Employees.
 - Create a Compensation Package.
 - Manage your Staff.
11. Record– Keeping and Accounting
 - Set up a Record Keeping System.
 - Understand Basic Accounting.
 - Track Your Inventory.
12. Financial Management
 - Manage your Cash Flow.
 - Analyze Your Financial Performance.
 - Hire Experts.
13. Use Technology
 - Technology and Your Business.
 - Learn about the Interest.
 - Purchase Technology.
14. Intellectual property Rights
 - Patents.
 - Copyright.
 - Industrial design rights.
 - Trademarks.
 - Trade secrets.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



15. Innovation Contest

- Innovative Idea.
- Proof of Concept (PoC).
- Prototype Creation.
- The students may be grouped into 2 to 3 and work under a project supervisor. The Prototypes to be fabricated may be decided in consultation with the supervisor. A innovative report to be submitted by the group and the model, which will be reviewed and evaluated for internal assessment by a Committee constituted by the Head of the Department.

TOTAL: 15 PERIODS

OUTCOMES

At the end of the course, the students will be able to:

- Identify personal strengths and value systems.
- Recall important tenets of digital literacy.
- Discuss the essentials of matters pertaining to money.
- Prepare for employment and self-employment.
- Illustrate the basics of entrepreneurship and identify new business opportunities.



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19EEC302

ENTREPRENEURSHIP DEVELOPMENT ACTIVITY

L T P C

(Common to all Branches)

0 0 2 0

OBJECTIVES

- Evaluate social and civil responsibilities of business ownership
- Describe typical behavioral characteristics of an effective entrepreneur
- Develop a business plan, including identifying an executive summary; conducting a marketing and competitive analysis report; and developing a marketing, management, and financial plan
- Determine career opportunities, responsibilities, and educational and credentialing requirements related to various entrepreneurship ventures.
- Interpret research data to determine market-driven problems faced by entrepreneurs

TOPICS TO BE COVERED

16. Should You Become an Entrepreneur?
 - Entrepreneurship: Present & Past
 - Is Entrepreneurship Right for You
 - Identify Business Opportunities & Set Goals
17. What Skills Do Entrepreneurs Need
 - Communication Skills
 - Math Skills
 - Problem Solving Skills
18. Entrepreneurs in a Market Economy
 - What is an Economy?
 - The Concept of Cost
 - Government in a Market Economy
19. Select a Type of Ownership
 - Run an Existing Business
 - Own a Franchise or Start a Business
 - Choose the Legal Form of Your Business
20. Develop a Business Plan
 - Why Do You Need a Business Plan
 - What Goes into a Business Plan
 - Create an Effective Business Plan
21. Identify and Meet a Market Need
 - The Value of Market Research
 - How to Perform Market Research Entrepreneurship Syllabus
 - Identify Your Competition



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



22. Finance, Protect, and Insure Your Business
 - Put Together a Financial Plan
 - Obtain Financing for Your Business
 - Protect Your Business
23. Choose Your Location & Set Up for Business
 - Choose a Retail Business Location
 - Choose a Location for a Nonretail Business
 - Obtain Space and Design the Physical Layout
 - Purchase Equipment, Supplies, and Inventory
24. Market Your Business
 - The Marketing Mix
 - Product, Price, Distribution, Price, and Promotion
 - Set Marketing Goals
25. Hire and Manage a Staff
 - Hire Employees
 - Create a Compensation Package
 - Manage your Staff
26. Record-Keeping and Accounting
 - Set up a Record Keeping System
 - Understand Basic Accounting
 - Track Your Inventory
27. Financial Management
 - Manage your Cash Flow
 - Analyze Your Financial Performance
 - Hire Experts
28. Use Technology
 - Technology and Your Business
 - Learn about the Interest
 - Purchase Technology
29. Intellectual property Rights
 - Patents
 - Copyright
 - Industrial design rights
 - Trademarks
 - Trade secrets
30. Innovation Contest
 - Innovative Idea
 - Proof of Concept (PoC)
 - Prototype Creation



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



- The students may be grouped into 2 to 3 and work under a project supervisor. The Prototypes to be fabricated may be decided in consultation with the supervisor. A innovative report to be submitted by the group and the model, which will be reviewed and evaluated for internal assessment by a Committee constituted by the Head of the Department.

Outcomes

- Identify personal strengths and value systems
- Recall important tenets of digital literacy
- Discuss the essentials of matters pertaining to money
- Prepare for employment and self-employment
- Illustrate the basics of entrepreneurship and identify new business opportunities

Total: 15 Periods



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19MDC401

VALUE ADDED COURSE – I
(SKETCHUP SOFTWARE)

L T P C

OBJECTIVES

The objective of this course will enable students to:

- Draw shapes and lines and to move the surfaces back and forth for turning them into 3D forms quickly and accurately.
- Apply drawing scales, and insert dimensions, graphics, further to learn the sketch up for building design applications.
- View and presenting models in 3D and to make everyday shapes, from 2- D plans, elevations and sections.
- Create rectangles, circles, polygons, arcs and also for moving, scaling and rotating objects with the process of applying, creating and editing materials.

COURSE CONTENTS

3D – modeling using sketch up software.

TOTAL: 15 PERIODS

OUTCOMES

At the end of the course, students can:

- Apply basic 3D modeling and apply basic concepts to create simple building models.
- Create everyday shapes, from 2D plans, elevations; create rectangles, circles, polygons and arcs.
- Move, scale and rotate objects with processes of applying, creating and editing materials.
- Export in 2D and 3D and Map textures on straight and curved objects.

TEXT BOOKS

1. Marcus Ritland, "3D Printing with SketchUp".
2. Paul Lee, "Construction Documents Using SketchUp Pro 2020".

REFERENCES

1. Robert Lang, "Building Blocks of SketchUp".
2. John Romeo, "Create Scenery & Props with SketchUp".

E-RESOURCES

1. https://www.iit.edu/sites/default/files/2021-02/google_sketchup.pdf(SketchUp Introduction)
2. <https://www.naukri.com/learning/design-your-room-using-sketchup-course-udeml724> (Design your Room Using Sketchup)

PRINCIPAL
SENGUNTHAR ENGINEERING COLLEGE
(AUTONOMOUS)
TIRUCHENGODE - 637 205
SENGUNTHAR



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



19MDC301

LEADERSHIP ENHANCEMENT PROGRAMME

L P T C

(Common to all branches)

1 0 0 0

OBJECTIVES

The objective of the course is to enable the students to :

- Find new, innovative ways of developing and managing people
- Develop new business opportunities
- Tackle the broader societal issues the face
- key benefits of leadership skills in different situations
- formulate and implement effective leadership strategies.

TOPICS TO BE COVERED

1. Leadership for an Engineering students: Skills & Strategies
2. Qualities of good leaders and 21 irrefutable laws of Leadership
3. Empowering Others and Managing People
4. Leading Meetings
5. Leadership competencies and Leadership Styles
6. Difference between a boss and a leader.
7. Leadership and Assertiveness Skills : A Good Leader, Leadership Theories, Leadership Behaviour , Assertiveness skills.
8. Leadership development opportunities and suggestions
9. Teamwork and Leadership : Concept of teams , Building Effective teams, Concept of leadership and sharpening leadership skills.
10. Teamwork and Leadership Activities : Group discussion, Solving Puzzle as a team, describing a leadership style.

OUTCOME

At the end of the course, the students will be able to:

- Develop the capabilities needed to increase team's work productivity.
- Help to decrease employee turnover and increase engagement, creating a strong and united team.
- Develop communication skills, mastering the art of negotiation, influence and conflict management.
- More confident as a leader and find new ways of influencing the teams they lead.
- Effectively connect to people, developing the ability to give constructive feedback, and critically seek the feedback of the team.

Total: 12 Periods

TEXT BOOK

1. John maxwell, "21 irrefutable laws of leadership" 2008
2. Sara n. King, david g. Altman, robert j. Lee, "discovering the leader in you"
3. Louis carter ,david ulrich , marshall goldsmithbest practices in leadership development and Organization change



SENGUNTHAR ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Recognized Under Section 2(f) & 12(B) of the UGC Act, 1956
NAAC Accredited with 'A' Grade

TIRUCHENGODE - 637 205 NAMAKKAL (Dt) TAMILNADU



REFERENCE

1. Barry Benator, Albert Thumann, "Project Management and Leadership Skills for Engineering and Construction Projects" 2003.
2. Sydänmaanlakka Pentti. "Intelligent leadership and leadership competencies". Dissertation Series

E-SOURCES

1. <https://nptel.ac.in/courses/122/105/122105021/>
2. www.ccl.org/leadership/research/index.aspx.