



PAAVAI ENGINEERING COLLEGE

(Autonomous)

NII 44, PACHAL, NAMAKKAL-637018

DEPARTMENT OF CIVIL ENGINEERING

ACTION TAKEN REPORT- STAKE HOLDERS FEED BACK ON CURRICULUM & SYLLABUS

Academic Year 2021-2022

Date: 19.07.2021

Minutes of Curriculum Development Committee

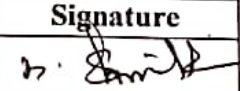
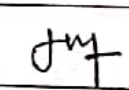
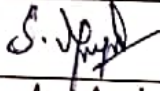
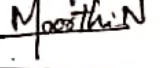
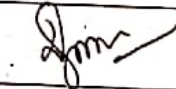
1. To analyse the feedback from various stakeholders.
2. To identify the changes regarding content to be added/deleted in curriculum/syllabus.
3. To include the constructive changes/recommend in the curriculum or syllabus.
4. This has been submitted to Department Advisory Committee (DAC) for further action

Feedback was requested from following Stakeholders


| S.No. | Stake Holders | No of feedback form received |
|-------|---------------|------------------------------|
| 1. | Students | 63 |
| 2. | Teachers | 8 |
| 3. | Alumni | 5 |
| 4. | Employer | 5 |

| Name of the course | Recommended by | Recommendation | Action Taken |
|------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------|
| Students Feedback | | | |
| Structural Analysis II | V.Naveen, III/VI- B.E Civil Engineering | In Structural Analysis II arches unit can be included. | Recommendation considered & Forward for the approval of DAC. |
| Concrete Technology | S.Manikandan II/IV- B.E Civil Engineering | More advanced topics to be included. | Forwarded suggestion for the approval of DAC. |
| Design of Reinforced Concrete and Brick Masonry Structures | K.Kannadhasan III/VI- B.E Civil Engineering | The content in the unit 4 can be reduced. | Forwarded suggestion for the approval of DAC. |
| Faculty Feedback | | | |
| Design of Reinforced Cement Concrete Structures | S.Rajeswari, AP/Civil | Cantilever & counterfort retaining wall design can be added. | The suggestion is forwarded for the approval of DAC. |
| Hydrology | B.Saranya, AP/Civil | Case studies related to natural disasters can be included. | The suggestion is forwarded for the approval of DAC. |
| Alumni Feedback | | | |
| Railways Airport & Harbour Engineering | D.Naveen, Technical Service Engineer, Dalmia Cement Pvt.Ltd. | Orientation, runways correction factors to de included. | Forwarded suggestion for the approval of DAC. |

| | | | |
|------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Water Supply Engineering | P.Suryaprakash, Design Engineer, Eagle Rebar Engineering Service Pvt.Ltd. | The content related to recent water supply systems can be added. | Forwarded suggestion for the approval of DAC. |
| Soil Mechanics Laboratory | M.Sajeethvaibhav, Detailing Engineer, CistronInfotekPvt.Ltd. | Advanced soil tests like Hydrometer Analysis can be added. | Forwarded suggestion for the approval of DAC. |
| Employer Feedback | | | |
| Pavement Engineering | Er.G.Muthupandi, RR Infrastructure. | Pavement Engineering course can be opted for the student to full fill the need for road construction | The suggestion is forwarded for the approval of DAC. |
| Solid Waste Management | Er.A.G.Arjun, Soul Refunders. | Audits like Environmental Audit can be included in the syllabus. | The suggestion is forwarded for the approval of DAC. |

| S.No | Name of the Member | Designation | Role | Signature |
|------|-----------------------|---------------------|--------------|---------------------------------------------------------------------------------------|
| 1. | Mrs. K. Sharmila Devi | HOD | Chairman/BOS |  |
| 2. | Mr. A. Jayapal | Assistant Professor | Member |  |
| 3. | Ms. S. Gayathri | Assistant Professor | Member |  |
| 4. | Mr. N. Moorthi | Assistant Professor | Member |  |
| 5. | Mrs. S. Rajeswari | Assistant Professor | Member |  |


HOD/Civil


PRINCIPAL
PAAVAI ENGINEERING COLLEGE
NH-7, PACHAL Post, NAMAKKAL Dist

PAAVAI ENGINEERING COLLEGE

(Autonomous)

DEPARTMENT OF CIVIL ENGINEERING

Minutes of Seventh Board of Studies Meeting

Venue: Online mode through Microsoft Teams platform

Date and Time: 23.07.2021, 11.00 a.m.

Minutes of the Seventh Board of Studies meeting was held on July 23rd at 11.00 a.m. through online mode using Microsoft Teams platform.

The following members were present,

| S.No | Name | Designation | Position in the Committee | College / University / Industry |
|-------------|-----------------------|--------------------------------------------------------|----------------------------------|----------------------------------------------------------|
| 1. | Mrs. K. Sharmila Devi | HoD/ Civil | Chairman | Paavai Engineering College, Namakkal. |
| 2. | Dr.K.Chinnaraju | Professor/ Division of Structural Engineering | University Nominee | Anna University, Chennai. |
| 3. | Dr.J.Karthikeyan | Associate Professor/Civil | Academic Expert | National Institute of Technology , Thiruchirapalli |
| 4. | Dr.S.S.Chandrasekaran | Professor / School of Civil Engineering | Academic Expert | Vellore Institute of Technology , Vellore |
| 5. | Mr. Rajaram | Managing Director | Industry Expert | Sri RV Associates , Namakkal |
| 6. | Mrs.R.Nivetha | Assistant Engineer | Alumni | Highway Department, Vellore |
| 7. | Mr. A. Jayapal | AP/Civil | Members | Paavai Engineering College, Namakkal. |
| 8. | Ms.S.Gayathri | AP/Civil | | |
| 9. | Mr.N.Moorthi | AP/Civil | | |
| 10. | Mrs. S. Rajeswari | AP/Civil | | |

The following agenda are discussed and approved

1. Curriculum and Syllabus were discussed in Department Advisory Committee meeting conducted on 22.07.2021.
2. The Curriculum and Syllabus were framed based on the suggestions given by the Industrial experts, Subject experts and Alumni students have been implemented and presented to the BoS members.
3. Chairman - BoS introduced the members of the Board of Studies.
4. Chairman –BoS briefed the members about the agenda.
5. To discuss the 5thand 6thSemester Syllabus of UG Students admitted in the year 2019-2020 of R2019.
6. To discuss the Curriculum of UG Students admitted in the year 2020-2021 of R2019.
7. To discuss the 3rdand 4thSemester Syllabus of UG Students admitted in the year 2020-2021 of R2019.
8. To discuss the One Credit Courses for the UG Students admitted in the year 2020-2021 of R2019.
9. To discuss the Value Added Courses for the UG Students admitted in the year 2020-2021 of R2019.
10. Panel of Examiners

The following are the suggestions given by the Members of Board of Studies

UG - Regulation 2019

V SEMESTER

The courses whichever discussed are given below,

1. Structural Analysis I

The committee suggested to,

- Add the reference books “Matrix methods of Structural Analysis” by V.N.Vazirani and M.M.Ratwani, “Matrix methods of Structural Analysis” by S.S.Bhavikatti, “Theory of Structures” by S.Ramamrutham and R.Narayan.

2. Soil Mechanics

- The committee suggested to include the topic “Introduction to Landslides” at the end of Unit V.

3. Railways, Airports and Harbour Engineering

The committee suggested,

- To rename the title of Unit I from “Railway Planning and Construction” as “Railway Planning”.
- To add the topics “Metro rails and MRTS” at the end of Unit II.
- The course is shifted from Semester V to Semester VI.

4. Soil Mechanics Laboratory

The committee suggested,

- To conduct the Experiment “Shrinkage Limit” as Exp .No:3

5. Concrete Technology

The committee suggested to,

- Replace the title of Unit II from “Admixtures in Concrete” to “Admixture and Mix Proportion”
- Replace the title of the Unit III from “Properties of Concrete and Quality Assessment” to “Workability, Mechanical Properties and NDT”
- The topic “Durability” of Unit V were suggested to make it as a separate Unit as Unit IV.
- Change “Special Concrete” as Unit V.
- Shift the book A.R.Santhakumar, “Concrete Technology” from Text book to Reference Book.
- Add the ACI method code book in Reference.
- Add the book “Concrete Technology” by “Dr. Job Thomas” as Text book

6. Design of Reinforced Cement Concrete Structures

The committee suggested to,

- The course is shifted from Semester VI to Semester V.
- Remove “National Building Code of India 2016” from Reference.

VI SEMESTER

The courses whichever discussed are given below,

The committee suggested the following points to,

1. Structural Analysis II

- Remove the book “Vaidayanathan.R and Perumal.P, Comprehensive Structural Analysis Vol.1 from Textbook.

2. Foundation Engineering

- Add the topic “Introduction to Retaining wall and Reinforced Earth wall” in Unit V.
- Add the book “Analysis and Design of Sub Structures by Swami Saran” as Reference.
- Remove the books Gopal Ranjan and Rao A.S.R. “Basic and Applied soil mechanics”, Das, B.M. “Principles of Foundation Engineering”, Kaniraj, S.R. “Design aids in Soil Mechanics and Foundation Engineering” from Reference
- Add the Reference book “Foundation Analysis and Design by Joseph E.Bowls”.

3. Design of Steel Structures

- Remove “Steel Tables” from Reference

4. Building and Structural Drawing

- Add reference book “Design and Detailing by Krishna Raju.N”
- Add IS Code SP:34-1987: Handbook on concrete reinforcement detailing in Reference.

5. Building Service

- Rename the title of Unit III from “Refrigeration Principles and Applications” as “Refrigeration and Air Conditioning”

6. Value Added Course

- Remove the value added course “Special Training on Vasthu”

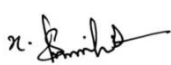
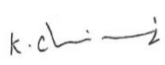



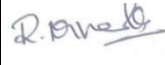
UG Regulations 2019 (Amendments)

- In R2019 (For Students admitted during the Academic year 2019-2020), Design Project & Project work course names have been changed to Mini Project & Main Project.
- The Professional Elective courses have been rearranged according to pre-requisite needed for the respective courses.

PG Regulations 2019 (Amendments)

1. The credit of the course PEN19101 - Research methodology and IPR has been changed from 2 to 3.
2. The credit of the course PSE19103 – Advanced Concrete Laboratory has been changed from 2 to 1.

The above suggestions were given by the members and approved the syllabi for the 5th and 6th semester of 2019-20 admitted students, 3rd and 4th semester of 2020-2021 admitted students of Regulations 2019(CBCS), one credit courses, value added courses and panel of examiners.

| Position in the committee | Chairman | University Nominee | Academic Expert | Academic Expert | Industry Expert | Alumni |
|---------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Name & Designation | Mrs.K.Sharmila devi HoD/Civil | Dr.K.Chinnaraju Professor/ Division of Structural Engineering | Dr.J.Karthikeyan Associate Professor/Civil | Dr.S.S.Chandrasekaran Professor / School of Civil Engineering | Mr.Rajaram Managing Director | Mrs.R.Nivetha Assistant Engineer |
| e-Signature |  |  |  |  |  |  |

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)

DEPARTMENT OF CIVIL ENGINEERING

ACTION TAKEN REPORT

7th BOS Held 23.07.2021

The following suggestions have been implemented in the curriculum and syllabus.

| NAME OF THE COURSE | SEMESTER/YEAR | EXISTING | SUGGESTIONS | STATUS OF IMPLEMENTATION |
|---------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| STRUCTURAL ANALYSIS I | V/THIRD | - | 1.To add the books <ul style="list-style-type: none"> • "Matrix methods of Structural Analysis" by V.N.Vazirani and M.M.Ratwani, • "Matrix methods of Structural Analysis" by S.S.Bhavikatti, • "Theory of Structures" by S.Ramamrutham and R.Narayan. | IMPLEMENTED |
| SOIL MECHANICS | V/THIRD | 1.Stability Analysis, Total stress analysis for saturated clay, Fellenious and Bishop's method | Members suggested to, 1.Include the topic "Introduction to Landslides" at the end of Unit V. | IMPLEMENTED |
| SOIL MECHANICS LABORATORY | V/THIRD | As Experiment No.5 | Members suggested to, 1.To conduct the Experiment "Shrinkage Limit" as Exp .No:3 | IMPLEMENTED |
| CONCRETE TECHNOLOGY | V/THIRD | 1.Title of Unit II is "Admixtures in Concrete". 2.Title of Unit III is "Properties of Concrete and Quality Assessment" 3.Topic "Durability" was in Unit V 4.Special Concrete as Unit IV | Committee suggested to, 1.Rename the title as "Admixture and Mix Proportion" 2.Rename the title as "Workability, Mechanical Properties and NDT" 3.Make it as a separate Unit as Unit IV. 4. Change "Special | IMPLEMENTED |

| | | | | |
|-------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| | | 5.As Textbook | Concrete" as Unit V, 5. Shift the book A.R.Santhakumar, "Concrete Technology" from Text book to Reference Book. 6. Add the ACI method code book in Reference. 7.Add the book "Concrete Technology" by "Dr. Job Thomas" as Text book | |
| DESIGN OF REINFORCED CEMENT CONCRETE STRUCTURES | V/THIRD | 1.In VI Semester 2.National Building code of India 2016 was there in Reference | Committee suggested to, 1. To shift this Course from Semester VI to Semester V. 2. Remove "National Building Code of India 2016" from Reference | IMPLEMENTED |
| RAILWAYS, AIRPORTS AND HARBOUR ENGINEERING | VI/THIRD | 1.In V Semester 2.Title of Unit I is "Railway Planning and Construction" 3. Earthwork, Tunneling methods, Construction and Maintenance of Tracks, Signaling, Railway Station and Yards. | Committee suggested to, 1. The course is shifted from Semester V to Semester VI. 2. Rename the title as "Railway Planning". 3. To add the topics "Metro rails and MRTS" at the end of Unit II. | IMPLEMENTED |
| STRUCTURAL ANALYSIS II | VI/THIRD | 1."Vaidayanathan.R and Perumal.P, Comprehensive Structural Analysis Vol.2 was there in Textbook. | Members suggested, 1.To Remove the book "Vaidayanathan.R and Perumal.P, Comprehensive Structural Analysis Vol.2 from Textbook. | IMPLEMENTED |
| FOUNDATION ENGINEERING | VI/THIRD | 1.Coulomb's wedge theory, Rankine theory, Culmann Graphical method | Committee suggested to, 1. Add the topic "Introduction to Retaining | IMPLEMENTED |

| | | | | |
|---------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| | | <p>2. Not as Reference</p> <p>3. Gopal Ranjan and Rao A.S.R. "Basic and Applied soil mechanics", Das, B.M. "Principles of Foundation Engineering", Kaniraj, S.R. "Design aids in Soil Mechanics and Foundation Engineering" was there in Reference</p> <p>4. Not as Text book</p> | <p>wall and Reinforced Earth wall" in Unit V.</p> <p>2. Add the book "Analysis and Design of Sub Structures by Swami Saran" as Reference.</p> <p>3. Remove the books Gopal Ranjan and Rao A.S.R. "Basic and Applied soil mechanics", Das, B.M. "Principles of Foundation Engineering", Kaniraj, S.R. "Design aids in Soil Mechanics and Foundation Engineering" from Reference</p> <p>4. Add the textbook "Foundation Analysis and Design by Joseph E. Bowls"</p> | |
| DESIGN OF STEEL STRUCTURES | VI/THIRD | 1. "Steel Tables" was there in Reference | Members suggested to, 1. To Remove "Steel Tables" from Reference | IMPLEMENTED |
| BUILDING AND STRUCTURAL DRAWING | VI/THIRD | <p>1. Not as Reference</p> <p>2. Not as Reference</p> | <p>Committee suggested to,</p> <p>1. Add reference book "Design and Detailing by Krishna Raju.N"</p> <p>2. Add IS Code SP:34-1987: Handbook on concrete reinforcement detailing in Reference.</p> | IMPLEMENTED |
| BUILDING SERVICE | VI/THIRD | 1. Title of Unit III is "Refrigeration Principles and Applications" | Members suggested to, 1. Rename the title as "Refrigeration and Air Conditioning" | IMPLEMENTED |
| PRESTRESSED CONCRETE STRUCTURES | VII/FINAL | 1. Title of Unit I is "Simple and Compound Stresses" | Members suggested to, 1. Rename the title as "Introduction and Methods" | IMPLEMENTED |

| | | | | |
|--------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| | | | of Prestressing” | |
| ADVANCED CONCRETE DESIGN | VIII/FINAL | <ol style="list-style-type: none"> 1. Unit IV is “Design of Bridges” 2. Not in Course content 3. Content not existed 4. “Krishna Raju.N., Design of Bridges” was there in Reference 5. Not exist as Reference | <p>The committee suggested to,</p> <ol style="list-style-type: none"> 1. Replace the Unit IV as “Design of Flat slabs” 2. Frame “Yield Line Theory” as Separate unit. 3. Modify Unit III contents. 4. Remove the Reference book “Krishna Raju.N., Design of Bridges” 5. Add IS Code 456:2000 in reference. | IMPLEMENTED |
| BRIDGE ENGINEERING | VIII/FINAL | <ol style="list-style-type: none"> 1. Content given separately 2. Content given as whole unit. 3. Title of Unit IV is “Analysis of Bridges” and added new topics 4. Not exist as Text book | <p>The committee suggested to,</p> <ol style="list-style-type: none"> 1. Combine the Unit II “Specification of Bridges” in Unit I. 2. Separate the Unit III “Design of Bridges” into two Units as “Concrete Bridges” and “Steel Bridges” 3. Rename the title as “Design of Sub structures” and suggested to include the topic “Design of Pier Cap” 4. Add “Krishna Raju.N. Design of Bridges” in Textbook and “S.Ponnuswamy. Bridge Engineering” as Reference Book. | IMPLEMENTED |

PG - REGULATIONS 2019 (Amendments)

| COURSE | SEMESTER/YEAR | EXISTING | SUGGESTIONS | STATUS OF IMPLEMENTATION |
|------------------------------|---------------|-------------|----------------------------|--------------------------|
| RESEARCH METHODOLOGY AND IPR | I/FIRST | Credit of 2 | Credit changed from 2 to 3 | IMPLEMENTED |
| ADVANCED CONCRETE LABORATORY | I/FIRST | Credit of 2 | Credit changed from 2 to 1 | IMPLEMENTED |

Dr. 
23/3/21
HoD/Civil