PAAVAI ENGINEERING COLLEGE

(Autonomous)

MINUTES OF THE 8th BOARD OF STUDIES MEETING

(ONLINE MODE)

DEPARTMENT OF AERONAUTICAL ENGINEERING

12.08.2022 & 10.00 AM

MEMBERS PRESENT

S.No	NAME & DESIGNATION	POSITION IN THE COMMITTEE	COLLEGE/ UNIVERSITY/INDUSTRY
1	Dr.R.Arravind,HoD & Professor	Chairman	Paavai Engineering College
2	Dr.B.T.N Sridhar, Professor/ Aerospace	University Nominee	Anna University, Chennai
3	Dr.S.Venkatachalam, Associate Professor/Aerospace	Academic Expert 1	Karunya Institute of Technology and Science, Coimbatore
4	Dr.C.Ramesh, Associate Professor/Aeronautical	Academic Expert 2	Hindustan Institute of Technology and Science,
5	Mr.J.Balakannan/ Managing Director	Industry Expert	Jet Aerospace Aviation Research Center, Kerala
6	Mr P.Mohammed Zamman/ Analyst	Alumni	Capgemini, Bangalore
7	Mr.D.Rajkumar/Asst.Prof / Aero	Member	Paavai Engineering College
8	Mr.G.Sasi Asst.Prof / Aero	Member	Paavai Engineering College
9	Mr.P.Prasanna Asst.Prof / Aero	Member	Paavai Engineering College
10	Mr.K.Gokulnath/Asst.Prof/ Aero	Member	Paavai Engineering College
11	Mr.M.Benedict/ Asst.Prof / Aero	Member	Paavai Engineering College

AGENDA

1. Chairman / BoS welcomed all members for the 8th meeting of Board of Studies.
2. Chairman / BoS introduced the members to the Board of Studies.
3. Chairman / BoS briefed the members about agenda.

   1. Chairman / BoS discussed the status of implementation of 8th BoS suggestions to the members of Board of Studies.

   2. B.E. Aeronautical Engineering Passing of the following details:

      - Syllabi of seventh and eighth semester (academic year 2022-2023) for the batches of students admitted during the academic year 2019-2020 under Regulations 2019

      - Ratification of fifth semester syllabi (academic year 2022-2023) for the batches of students admitted during the academic year 2020-2021 under Regulations 2019 CBCS.

      - By the suggestions of University Nominee & Academic Experts the existing subject AE20153 Aircraft Materials in V semester has been changed as AE20153 Helicopter Maintenance for the batches of students admitted during the academic year 2020-2021 under Regulations 2019 CBCS.

      - Syllabi of seventh and eighth semester for the batches of students admitted during the academic year 2020-2021 under Regulations 2019 CBCS.

      - List of one credit courses for the UG Programme.

      - List of value-added courses for the UG Programme.

      - Amendments of Environmental Science and Engineering for 6th semester.

      - Examination pattern as per Anna University.

      - NPTEL online courses.

      - Panel of Examiner as follows,

S.no	Name of The Examiner	College Name
1	S.Karthik	Excel Engineering College(Autonomous)
2	R.Vijayanandh	Kumaraguru College of Technology(Autonomous)
3	R.Kousik Kumar	Nehru Institute of Engineering & Technology(Autonomous)
4	G.Rajkumar	Kumaraguru College of Technology(Autonomous)
5	G.Velmurugan	Excel Engineering College(Autonomous)
6	Dr.M.Ganesh	Hindusthan College of Engineering & Technology(Autonomous)

   3. The following are the suggestions given by the members of Board of Studies:

UG Curriculum and Syllabi (VII & VIII SEMESTER) admitted during the academic year 2019-2020 under Regulations 2019 CBCS.

The members of the board suggested the following:

- **AE19701- Aircraft Design:**
  - ✓ Course objectives & outcomes need to change as per Blooms Taxonomy
  - ✓ Unit V ,title need to change.

- **AE19801: Rockets and Missiles**
  - ✓ Preferred text book must be a new edition.

- **AE19351: Cryogenics Engineering**
  - ✓ Unit IV, titled need to change as Cryogenic Rocket Systems

- **AE19352: Theory of Elasticity**
  - ✓ In unit I add compatibility conditions & Equilibrium Equation
  - ✓ In Unit II add Mohr's circle theory

- **AE19354: Computational Fluid Dynamics**
  - ✓ In Unit III ,need to change the title as Implicit & Explicit Method
  - ✓ New edition text book need to update.

- **AE19451: High Temperature Materials**
  - ✓ Unit I, title need to change.
  - ✓ Unit I , add Historical Development; requirements of HTM.

- **AE19452: Wind Tunnel Techniques**
  - ✓ In Unit II ,add classification of Wind Tunnel

- **AE19551: Fatigue and Fracture**
  - ✓ In Unit I, need to add introduction of Fatigue, R ratio, S-N curves.

- **AE19651: Industrial Aerodynamics**
  - ✓ In Unit V add practical applications.
  - ✓ In Unit II add Vehicle Aerodynamics

- **AE19905: Aircraft Safety**
  - ✓ In Unit III, title need to change.

- Amendments for Mandatory course approval for the Regulations 2019 (2020 admitted candidates, lateral entry), Environmental Science and Engineering for 6th semester.

- Other courses approved in 7th BoS are applicable to the 5th and 6th semester with code change for 2020 admitted candidates of Regulations 2019 CBCS..
- 7th and 8th semester syllabi approved for the students admitted during the academic year 2019-2020 under Regulations 2019 with code change .
- Curriculum of UG Programme can be modified as per the suggestions given.

NEW COURSES

S.NO	COURSE CODE	COURSE NAME	CATAGEORY	REGULATIONS
1	AE20153	Helicopter Maintenance	Professional elective I	2020-2021 admitted candidates of Regulations 2019
2	AE19702	Unmanned Aerial Vehicle System	Professional Core	2019-2020 admitted candidates of Regulations 2019.
3	AE19253	Additive Manufacturing	Professional Elective II	2019-2020 admitted candidates of Regulations 2019.
4	AE19353	Nano Science and Technology	Professional Elective III	2019-2020 admitted candidates of Regulations 2019
5	AE19451	High Temperature Materials	Professional Elective IV	2019-2020 admitted candidates of Regulations 2019
6	AE19451	Intellectual Property Rights	Professional Elective IV	2019-2020 admitted candidates of Regulations 2019
7	BA19651	Disaster Management	Professional Elective VI	2019-2020 admitted candidates of Regulations 2019
8	AE19551	Fatigue and Fracture	Professional Elective V	2019-2020 admitted candidates of Regulations 2019

PAAVAI ENGINEERING COLLEGE

(Autonomous)

B.E AERONAUTICAL ENGINEERING

ONE CREDIT COURSE

REGULATIONS 2019

CHOICE BASED CREDIT SYSTEM

List of one credit courses for the UG Programme.

S.No	Category	Course Code	Course Title
1	OCC	AE20951	Design Thinking
2	OCC	AE20952	General awareness, communication and Aero engines
3	OCC	AE20953	Mesh tools for industrial approach

Other One Credit Courses offered for our students.

S.No	Category	Course Title
1	OCC	NPTEL/Swayam(online Course)

List of value-added courses for the UG Programme.

S.NO	Course Code	Course Title
1	22AEVC301	Design and Drafting using Solid Works
2	22AEVC401	Autodesk 360
3	22AEVC501	UAV Design and modelling
4	22AEVC601	CATIA with Industrial approach
5	22AEVC701	Ansys with Industrial approach
6	22AEVC801	Technical Publications

2. Chairman/BOS thanked all the members for their active participation, suggestions and contribution made for recommending the B.E. Aeronautical Engineering, the syllabi of UG 7th and 8th semester for the students admitted during 2019-2020, UG curriculum and syllabi of 5th, 6th semester for 2020-2021 admitted students to the academic council.
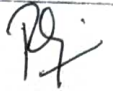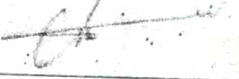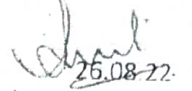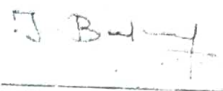
Dr.R.Arravind,HoD & Professor

Professor / Chairman – BoS (AERO)

Approved
BOARD OF STUD
Aeronautical Engine

8ᵗʰ BoS suggestion Approved

S.no	Position in the Committee	Name & Designation	e-Signature
1	Dr.R.Arravind,HoD & Professor	Chairman	
2	Dr.B.T.N Sridhar, Professor/ Aerospace	University Nominee	
3	Dr.S.Venkatachalam, Associate Professor/Aerospace	Academic Expert 1	26.08.22
4	Dr.C.Ramesh, Associate Professor/Aeronautical	Academic Expert 2	
5	Mr.J.Balakannan/ Managing Director	Industry Expert	J Bala
6	Mr P.Mohammed Zamman/ Analyst	Alumni	

PAAVAI ENGINEERING COLLEGE
(Autonomous)
DEPARTMENT OF AGRICULTURE ENGINEERING

Minutes of Eighth board of Studies Meeting
Venue: Online mode through Microsoft Teams platform
Date and Time: 10.08.2022, 2.00 p.m.

Minutes of Eighth Board of Studies meeting held on 10th August 2022 at 2.00 p.m. through online mode using Microsoft Teams platform.

The following members were present

S.NO	Name	Designation	Position in committee	College/University/Industry
1.	Mrs.A.Vivekanandhini	HoD/Agri	Chairman	Paavai Engineering College
2.	Dr.M.Krishnaveni	Professor	University Nominee	Centre For Water Resource, College Of Engineering, Guindy, Chennai
3.	Dr.R.Mahendiran	Associate Professor/Bio Energy	Academic Expert	Department of Renewable Energy Engineering, Agricultural Engineering College & Research Institute , Coimbatore
4.	Dr.V.Chelladurai	Associate Professor	Academic Expert	Department of Agriculture Engineering. BIT, Sathy, Erode
5.	Mr.N.Meganathan	Managing Partner	Industrial Expert	Kongunadu Tractors, Namakkal
6.	Ms.A.SandroJudith	Founder,&CEO	Alumni	Sandro's Mushrooms
7.	N.Satheeswaran	Asst.Professor/Agri	Asst professor	Paavai Engineering College
8.	Dr.P.Tamilchelvan	Professor/Agri		
9.	D.Anandan	Asst.Professor/Agri		
10.	A.Subashini	Asst.Professor/Agri		
11.	M.Bhuvaneswari	Asst.Professor/Agri		
12.	A.Meignanmoorthi	Asst.Professor/Agri		
13.	B.Mano	Asst.Professor/Agri		
14.	R.Thilagavathi	Asst.Professor/Agri		
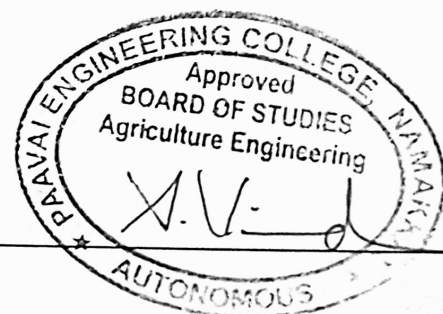
The following agenda are discussed for approval

1. Chairman –BoS introduced the members of the Board of Studies,
2. Chairman –BoS briefed the members about the agenda
3. 3. To discuss the Curriculum and syllabus of 7th & 8th semester under Regulations 2019 for the students admitted in the academic year 2019-2020
4. To discuss the Curriculum and syllabus of 5th & 6th ,7th and 8th semester under Regulations 2019 for the students admitted in the academic year 2020-2021

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

V AND VI SEMESTER

REGULATION 19 for the students admitted in the year 2020-2021

List of New Courses Offered

S.NO	COURSE CODE	COURSE NAME
1	AI20601	Farm Tractors
2	AI20153	Refrigeration And Air Conditioning

1. **AI 20501-Farm Machinery and equipment**

   Members suggested that, to change the course title AI20501 (operation of farm machinery and equipment) to AI20501 **Farm Machinery and equipment.**

2. **AI 20502-Soil and Water Conservation Engineering**

   Members suggested to **interchange the unit 4 and unit 5.**

3. **AI 20601-Farm Tractors**

   Members suggested to add **Farm tractors paper as a core paper** which was previously kept as elective.

4. **AI 20602-Design of Farm machinery and equipment**

   Members suggested to reduce the content which is applicable for agriculture engineering and remove the irrelevant topics.

5. **AI20603-Post Harvest Technology**

   Committee members suggested, to add few more topics related to unit IV and add a new unit named vegetable and fruit processing as Unit V.
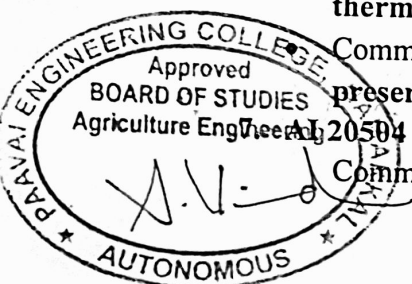
6. **AI 19251- Food And Dairy Process Engineering**
   - Committee members suggested, to change the title of unit I as **food properties and thermal processing** instead of food properties, thermal and kinetics.
   - Committee members suggested, to change the title of unit II as **advanced food preservation methods**

   AI20504 Application of IT in Agricultural System.
   - Committee members suggested, to add **advanced topic in unit IV and unit V.**

8. **AI20254 Command Area Water Management**

Committee members insisted to change the course name as **"Command Area Management"** instead of **"On Farm Management".**

VII AND VIII SEMESTER

REGULATION 19 for the students admitted in the year 2019-2020

List Of New Courses Offered

S.NO	COURSE CODE	COURSE NAME
1	AI 19654	Farm Tractors
2	AI 19352	Refrigeration And Air Conditioning

1. **AI 19701-Remote Sensing and GIS Application**
   - Members suggested to add topics related to platforms in unit I.
   - Members suggested to change the unit III title as **"Concepts of GIS and GPS"** instead of **"Concepts of GIS and GNSS".**
   - To add topics related to **farm asset management** in **unit V.**

2. **AI 19551-Sustainable Agriculture And Food Security**

   Committee members suggested, to **add case studies** related to sustainable agriculture in unit V.

3. **AI19552-Automation in Irrigation**

   Committee members suggested to **interchange** the **unit III and unit V** in order that students can read sequentially.

4. **AI19553-Intellectual Property Rights**

   Members suggested to add topics related to **Design Thinking** in unit I.

5. **AI19864-Farm Tractors**

   Members suggested to add few more topics related to **fuel system, cooling system, and tractor testing and rollover protection system and safety measures.**
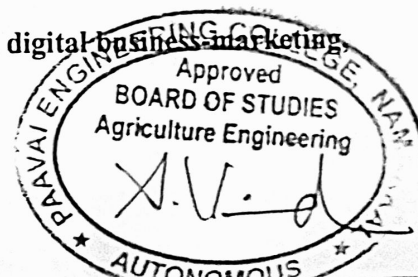
6. **AI19653-Disaster Management**

   Members suggested to add case studies in unit V.

7. **AI 19352-Refrigeration and Cold Storage**
   - Members suggested to change the course name of refrigeration and air conditioning as **"Refrigeration and cold storage".**
   - Members suggested to add Topics **Electrolux refrigerator, Lithium bromide refrigeration, Construction and principles.**

8. **AI19703-Agriculture business management**

   Members suggested to add topics related to **Agri business models, digital business marketing, Technology in Agri Business in UNIT V.**

9. **AI 19451-Watershed planning and management**

   Members suggested to change the course name of Watershed Planning and Management Instead Of Watershed Management

10. **AI19705-GIS Laboratory for Agricultural Engineers**

   Committee members suggested to add updated experiments in the syllabus such as
   1. Calculate geometry of polygon and line and Symbology and Map composition
   2. Normalized Vegetation Indices (NDVI) analysis.

11. **AI19706 Mini Project**

   Members suggested to change the course title as **mini project** instead of **project phase I.**

12. **AI19705 GIS laboratory for Agriculture Engineers**

   Members suggested to change the course title as **"GIS laboratory for Agriculture Engineers"** instead of **"Remote Sensing and GIS Lab".**

13. **AI19352 Refrigeration And Cold Storage.**

   Members suggested to replace the course **"Refrigeration and Cold Storage"** instead of **"Plant Protection".**

14. **AI19802 Project work**

   Members suggested to change project phase II into **"Project Work"**

UG Regulations 2019 (Amendments)

- To include **Principles of Agriculture Engineering** and **Environmental Science and Engineering** in 6th semester of regulation 2019 for the students admitted in the year 2020-2021 and to include in the 4th semester of regulation 2019 for the students admitted in the year 2021-2022 onwards.
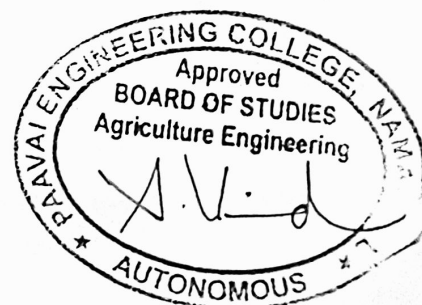
   The name list of lateral entry student in III year are:

S.no	Register no	Name of the student
1	20102301	S.Sarathi

The list of value added courses offered to the students during the academic year 2022-2023 are given below.

- **Examination Pattern for Relative Grading:**

Anna University –uniform evaluation method of student based on Relative Grading-Letter No.4040/AU/CAC/Relative grading /2022 dated on 25.6.22 is followed for the students admitted in the year 2021-2022.

Approved
BOARD OF STUDIES
Agriculture Engineering

8. **AI20254 Command Area Water Management**

   Committee members insisted to change the course name as "Command Area Management" instead of "On Farm Management".

VII AND VIII SEMESTER

REGULATION 19 for the students admitted in the year 2019-2020

List Of New Courses Offered

S.NO	COURSE CODE	COURSE NAME
1	AI 19654	Farm Tractors
2	AI 19352	Refrigeration And Air Conditioning

1. **AI 19701-Remote Sensing and GIS Application**
   - Members suggested to add topics related to platforms in unit I.
   - Members suggested to change the unit III title as **"Concepts of GIS and GPS"** instead of "Concepts of GIS and GNSS".
   - To add topics related to **farm asset management** in **unit V**.

2. **AI 19551-Sustainable Agriculture And Food Security**

   Committee members suggested, to **add case studies** related to sustainable agriculture in unit V.

3. **AI19552-Automation in Irrigation**

   Committee members suggested to **interchange** the **unit III and unit V** in order that students can read sequentially.

4. **AI19553-Intellectual Property Rights**

   Members suggested to add topics related to **Design Thinking** in unit I.

5. **AI19864-Farm Tractors**

   Members suggested to add few more topics related to **fuel system, cooling system, and tractor testing and rollover protection system and safety measures.**

6. **AI19653-Disaster Management**

   Members suggested to add case studies in unit V.

7. **AI 19352-Refrigeration and Cold Storage**

   - Members suggested to change the course name of refrigeration and air conditioning as **"Refrigeration and cold storage".**
   - Members suggested to add Topics **Electrolux refrigerator, Lithium bromide refrigeration, Construction and principles.**

8. **AI19703-Agriculture business management**

   Members suggested to add topics related to **Agri business models, digital business marketing, Technology in Agri Business in UNIT V.**
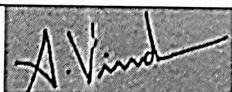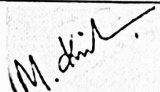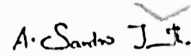
- **List of value added courses are:**

S.No	Course code	Course tittle
1	22AIVC101	Agriculture Heritage
2	22AIVC201	Fundamentals Of Rural Sociology
3	22AIVC301	Stored Grain Pest And Their Management
4	22AIVC401	Problematic soil and their management
5	22AIVC501	Management of beneficial insects
6	22AIVC601	Manures, fertilizers and bio fertilizers.

The above suggestions were given by the members and approved the syllabi for the 7th and 8th semester of 2019-2020 admitted students, 5th 6th 7th and 8th semester of 2020-2021 admitted students of regulations 2019 (CBCS) ,value added course and panel of examiners.

Position In The Committee	Chairman	University Nominee	Academic Expert	Industry Expert	Alumni
Name & Designation	Dr.A.Vivekanandhini HOD/AGRI	Dr.M.Krishnaveni Professor	Dr.V.Chelladurai Associate Professor	Mr.N.Meganathan Managing Partner	Ms.A.Sandro Judith
E-sign				For KONGUNAD MANAGING PARTNER	A.Sandro J.t.

PAAVAI ENGINEERING COLLEGE
(Autonomous)
DEPARTMENT OF BIOMEDICAL ENGINEERING

Minutes of Fifth Boardof Studies Meeting
Venue: Online mode through Microsoft Teams platform
Date and Time: 04.08.2022, 02.30 p.m

Minutes of Fifth Board of Studies meeting held on August4[th] 2022 at 02.00 p.m through online mode using Microsoft Teams platform.

The following members were present

	Name	Designation	Position in committee	College/University/Industry
1	Dr. T. Arunkumar	Professor and Head, Biomedical Engineering	Chairman	Paavai Engineering College
2	Dr. S. Poonguzhali	Professor, Centre for Medical Electronics	University Nominee	College of Engineering, Guindy, Anna University, Chennai.
3	Dr. Judith Justin	Professor & Head, Department of Biomedical Instrumentation Engineering	Academic Expert	Avinashilingam Institute for Home Science and Higher Education for women, Coimbatore.
4	Dr. P. Manimegalai	Associate Professor, Department of Biomedical engineering	Academic Expert	Karunya Institute of Technology and Sciences , Coimbatore.
5	Mr. T. Anbuselvan	General Manager Sales	Industrial Expert	GE Healthcare, Chennai.
6	Ms. B. Niranajna Devi	Assistant Professor/ Biomedical Engineering	Members	Paavai Engineering College
7	Dr. K. Kavitha	Associate Professor/ Biomedical Engineering		
8	Mr. P. Manivannan	Assistant Professor/ Biomedical Engineering		
9	Ms. S. Praveena	Assistant Professor/ Biomedical Engineering		
10.	Ms. F. Sharmila Banu	Assistant Professor/ Biomedical Engineering		

AGENDA

The following agenda are discussed

1. Chairman –BoS introduced the members of the Board of Studies,
2. Chairman –BoS briefed the members about the agenda
3. The Curriculum and syllabus (CBCS) under R2019, 7th and 8[th]semesterfor the students admitted in the academic year 2019-2020
4. The Curriculum and syllabus under R2019 (CBCS) 5th, 6th,7th and 8th semester syllabus for the students admitted in the academic year 2020-2021
5. The list of one credit courses under R 2019
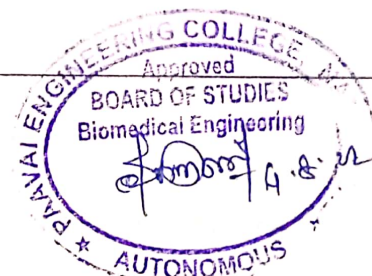
6. Amendments:

- EVS for lateral entry students – VI semesters
- Examination pattern, degree classification and Grading for 2021-2022 admitted students.
- One credit course (soft skills i and ii)
- Hospital Internship Training converted to external mode.
- The list of Value added courses under R 2019.
- Panel of examiners as follows,

S.No	Name of The Examiners	College Name
1	Mr.R.Prabu, Department of Biomedical Engineering	Velalar college of engineering and Technology (Autonomus) Erode.
2	Dr. K. Prabakar, Professor and Head, Department of Biomedical Engineering.	Sona College of technology (Autonomus), Salem.
3	Dr. Balasubramaniam.T, Professor, Department of Biomedical Engineering.	Segunthur Engineering college (Autonomus), Erode.
4	Mr. M.Manikandan, Associate Professor, Department of Biomedical Engineering.	Sona College of technology (Autonomus), Salem
5	Prof. MuhammaeduSadhik Raja, Professor and Head, Department of Medical Electronics.	Segunthur Engineering college (Autonomus), Thiruchengode.
6	Dr. Rajalaxmi. S, Associate Professor and Head	Mahendra College of Enginnering, Salem.
7	Dr. Selvam. K, Assistant Professor	Mahendra College of Enginnering, Salem.
8	Dr. M. Prabhu, Associate Professor and Head	Mahendra Institute of Technology (Auonomus), Erode.
9	Ms. R. Santhoshi, Assistant Professor	Mahendra Institute of Technology (Auonomus), Erode.
10	Ms. M. Saranya, Assistant Professor	Mahendra Institute of Technology (Auonomus), Erode.

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

R 2019 - CURRICULUM & SYLLABUS:

PC - BM19702- MEDICAL IMAGE PROCESSING

- Syllabus have to be reframed completely.
- Arrangement of units must be in sequential manner.
- New edition book 'Gonzalez' is preferred.
- 'S.Esakkirajan' book can be considered as a one of the text books.

PE – BM19352 –TISSUE ENGINEERING
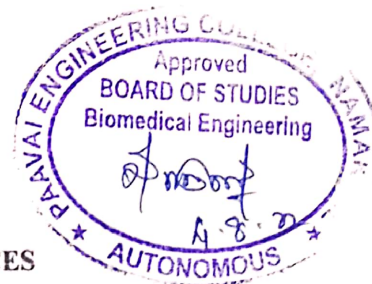
- 'Larry L.Hench and Julian R.Jones' text book have to be included.

PE – BM19353 – TELEHEALTH TECHNOLOGY

- Unit 4 content have to be changed related to telemedicine.
- 'R.S.Khandpur' handbook needed as a reference book.

PE –BM19354- DESIGN AND DEVELOPMENT OF MEDICAL DEVICES

- Syllabus have to be reframed completely.

PE – BM19451– MEDICAL OPTICS AND LASER APPLICATIONS

- Topic repetitions in unit 4 and unit 5 need to be changed.
- In `Unit 3, Instead of Raman imaging ,change it as Raman spectroscopy & imaging
- In Unit 5, laser safety topic have to be included.

PE –BM19452– MEDICAL ETHICS STANDARDS AND SAFETY

- In Unit 3 IEC60601 basic standard has to be included.
- 'JOHNNA FISHER' text book of bio-medical ethics have to be added.

PE –BM19454– ARTIFICIAL INTELLIGENCE FOR BIOMEDICAL ENGINEERING.

- Course name have to be changed as ARTIFICIAL INTELLIGENCE FOR HEALTH CARE.
- In Unit 4, algorithms need to be added.

OE –BM19903– INTRODUCTION TO DATA SCIENCE

- This course has to be replaced with **'telemedicine health care'**instead of 'Introduction to data science'.

OE – BM19904 - WEARABLE DEVICES AND ITS APPLICATION

- The above course has to be included as professional core for bio-medical engineering department.

EE- BM19704- HOSPITAL INTERNSHIP TRAINING

- External evaluation must be needed.
- Students feedback about the teaching in hospital and feedback from staff in the hospital who trained the students needed for NBA.

PC- BM19704- MEDICAL IMAGE PROCESSING LABORATORY

- Image enhancement experiment to be included.
- Instead of 8th experiment, image segmentation to be added.
- 1st experiment topic has to be changed as colour image processing.
- Instead of 11th experiment, wavelet decomposition and reconstruction have to be added.

PC– BM19801 – RADIOLOGICAL EQUIPMENT

- Joseph D.Bronzino,Physics of medical imaging text book need to be included.
- Medical imaging signals and systems Jerry L Prince have to be included as a text book.

## PE – BM19552 – EMBEDDED SYSTEM AND INTERNET OF THINGS IN HEALTH CARE

- Unit 3 Arduino have to be removed from title and change the title as processor.

PE – BM19553 – PHYSIOLOGICAL MODELLING

- 'David D Argenio and Michael Khoo' text book have to be included.

PE – BM19652– MACHINE LEARNING IN BIOMEDICAL ENGINEERING

- This course has been replaced with 'Wearable Devices and its Application'.
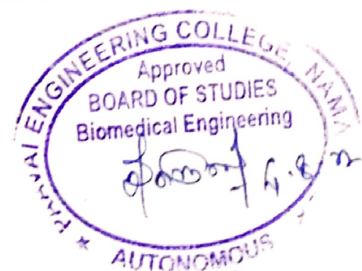
UG Regulation 2019 (AMENDMENTS)

- For lateral entry students Environmental Science and Engineering will be included in 6th semester of Regulations 2019 for the students admitted in the year 2020-2021 and to include in 4th semester of Regulations 2019 for the students admitted in the year 2021-2022 onwards.

GENERAL DISCUSSIONS:

- ➢ In one credit course:
  - In embedded programming, company name arduino has to be removed.
  - In matlab programming, title has to be changed related to medical images and basic clinical application with respect to organs and modality has to be included.
  - Quality assurance in equipment management should be added.
- ➢ Value added courses are discussed and approved.
- ➢ Discussions regarding R 19 (19-20), R 19 (20-21) are made and clarified.

The list of one credit courses offered to the students during the academic year 2022-2023.

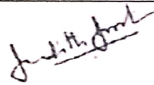| S.NO	Course Code	Course Name
1	BM19951	Embedded Programming
2	BM19952	PC Hardware Assembling and Troubleshooting
3	BM19953	Basic Electronic Circuit Design using Multisim
4	BM19954	Matlab Programming
5	BM19955	Labview Programming
6	BM19956	Open source programming using Linux
7	BM19957	PCB Design using KICAD EDA Tool
8	BM19958	VHDL Programming
9	NPTEL	NPTEL – Swayam – 4 Weeks Course
10	CDL	Soft Skills I and II – Grade equivalence for 2nd year students

Examination Pattern for relative grading:

Anna University – Uniform Evaluation Method of students based on Relative Grading – Letter No. 4040/AU/CAC/Relative Grading/2022 dated on 25.6.22 is followed for the students admitted in the year 2021-2022.

The list of value added courses offered to the students during the academic year 2022-2023

S.NO	Course Name
1	Machine Learning
2	Internet of Things
3	Circuit Design and PCB Fabrication
4	Raspberry Pi
5	Artificial Intelligence using MATLAB
6	Embedded Systems using code composer studio
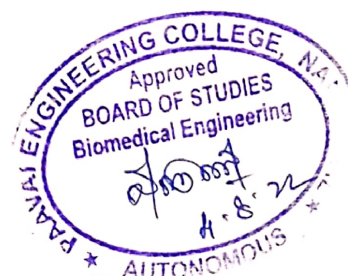
The above suggestions were given by the members and approved the syllabi for the 7th and 8th semester of 2019-2020 admitted students, 5th, 6th, 7th, 8th semester of 2020-2021 admitted students of regulations 2019(CBCS), value added course and panel of examiners.

Position in the committee	Chairman	University Nominee	Academic Expert 1	Academic Expert 2	Industry Expert
Name & Designation	Dr. T. Arunkumar Professor & Head, BME	Dr. S. Poonguzhali Associate Professor, centre for medical electronics, Anna University, Chennai.	Dr. Judith Justin Professor and Head, Department of Biomedical Instrumentation Engineering	Dr. P. Manimegalai AssosiateProfessor, Department of Biomedical Engineering	Mr. T. Anbuselvan General Manager sales, GE health care, Chennai.
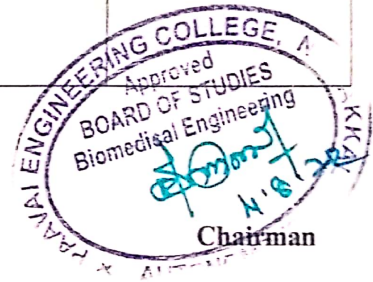
PAAVAI ENGINEERING COLLEGE
(Autonomous)
DEPARTMENT OF CIVIL ENGINEERING
<u>Minutes of Eighth Board of Studies Meeting</u>
Venue: Online mode through Microsoft Teams platform
Date and Time: 02.08.2022, 01.30 p.m.

Minutes of the Eighth Board of Studies meeting was held on August 2nd at 01.30 p.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.	Prof.K.Sharmiladevi	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.	Mr.P.Vignesh	AP/Civil		
9.	Ms.S.Gayathri	AP/Civil		
10.	Mr.N.Moorthi	AP/Civil		

The following agenda are discussed and approved

1. Curriculum and Syllabus were discussed in Department Advisory Committee meeting conducted on 30.07.2022

2. The Curriculum and Syllabus were framed based on the suggestions given by the Students, Industrial experts, Subject experts and Alumni 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 7th and 8th Semester Syllabus of UG Students admitted in the year 2019-2020 of R2019.

6. To discuss the 5th, 6th, 7th and 8th Semester Syllabus of UG Students admitted in the year 2020-2021 of R2019.

7. Addition of Soft skills I & Soft skills II as One Credit course in 3rd and 4th Semester of R2019 for the students admitted from 2021-2022 onwards.

8. To discuss the Value Added Courses for the UG Students admitted under R2019.

9. Panel of Examiners

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

UG - Regulation 2019

- Compared with R2016, the new courses introduced in R2019 are listed below,

S.No	Semester	Course code	Course Name
1	VIII	CE19801	Construction Management
2	VIII	CE19554	Advanced Concrete Design
3	VIII	CE19651	Construction Resource Planning and Management
4	VIII	CE19654	Geo Environmental Engineering

VII SEMESTER

The courses whichever discussed are given below,

1. **CE19703 - Irrigation and Environmental Engineering Drawing Laboratory**

   The committee suggested to,

   - Remove the experiment design and drawing of canal drop and Gravity dam from Irrigation Engineering.

- Add the experiment design and drawing of canal regulator.

2. **CE19451 - Prestressed Concrete Structures**

   The committee suggested to,

   - Remove the topics Design of Prestressed Concrete Poles and Design of Prestressed Concrete Sleepers from Unit V.

   - Change the title of Unit V from "Circular and Vertical Prestressing" to "Circular Prestressing".

   - Include the topic Partial Prestressing with its benefits and Limitations.

VIII SEMESTER

The courses whichever discussed are given below,

The committee suggested the following points to,

1. **CE19551 - Prefabricated Structures**

   - Divide Unit III into two units, Unit III as Design Principles and Unit IV as Joints in Structural Members.

   - Change "Erection of Structures" from Unit IV to Unit V

2. **CE19553 - Bridge Engineering**

   - Remove the topics Hendry Jaegar method analysis and Design of T-Beam bridges from Unit II

   - Remove the topic Retrofitting and Rehabilitation of Bridges from Unit V

   - Add the topic Load Testing of Bridges at the end of Unit V.

   - Add Revised edition of Indian Standard codes

3. **CE19554 - Advanced Concrete Design**

   - Make Retaining wall as Separate unit as Unit II

   - Make Water tanks as Separate unit as Unit III

   - Combine Flat slabs and Yield line theory as single unit to Unit IV

   - Change Building frame from Unit III to Unit V

4. **CE19652 - Maintenance Repair and Rehabilitation of Structures**

   - Remove M.S.Shetty "Concrete Technology" from textbook and add in Reference.

5. **CE19653 - Tall Buildings**

   - Rename the course title from "Design of Tall Buildings" to "Tall Buildings"

Approved
BOARD OF STUDIES
Civil Engineering

UG Regulations 2019 (Amendments)

- To include Environmental Science and Engineering in 6th semester of Regulations 2019 for the students admitted in the year 2020-2021 and to include in 4th semester of Regulations 2019 for the students admitted in the year 2021-2022 onwards.

  The list of Lateral entry students in III year are:

S.No	Register No.	Name of the Student
1	20103301	AazikRasul. M
2	20103302	Arunachalam.N
3	20103305	Kasthuri. P
4	20103306	Keerthika. P
5	20103308	Praveen. A
6	20103309	Raja. T
7	20103310	Soundharya. A
8	20103311	Tamilarasan.K
9	20103315	Jaikaras.R

- Examination Pattern for Relative Grading:

  Anna University – Uniform Evaluation Method of Students based on Relative Grading – Letter No.4040/AU/CAC/Rel.Grading/2022 dated on 25.6.22 is followed for the students admitted in the year 2021-2022 onwards.

- The list of One Credit Courses offered in the Curriculum R2019 are given below,
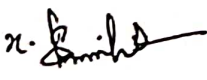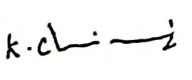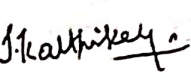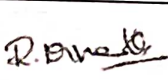
S.No	Course code	Course Title
1	CEOCC20101	Advanced Surveying using Total Station
2	CEOCC20102	Building Valuation
3	CEOCC20103	Safety in Construction
4	CEOCC20104	Structural Analysis and Design using Staad Pro
5	CEOCC20105	Building Information Modelling using Revit Architecture
6	CEOCC20106	Project Management using Primavera

Approved
BOARD OF STUDIES
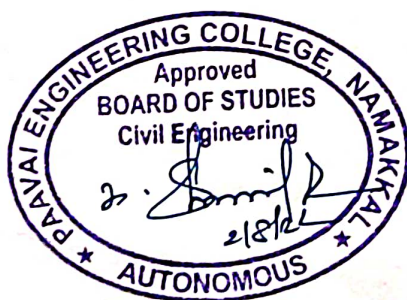Civil Engineering
PAAVAI ENGINEERING COLLEGE NAMAKKAL
AUTONOMOUS

- The list of Value Added Courses offered to the students during the academic year 2022-2023 are given below,

S.No	Course code	Course Title
1	22CEVC101	Brick Laying
2	22CEVC201	Stone Masonry
3	22CEVC301	Painting
4	22CEVC401	Building Construction Process
5	22CEVC501	Quantity calculation for Residential Building

The above suggestions were given by the members and approved the syllabi for the 7th and 8th semester of 2019-20 admitted students, 5th, 6th, 7th and 8th 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	Prof.K.Sharmiladevi 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				Absent		

Approved
BOARD OF STUDIES
Civil Engineering
PAAVAI ENGINEERING COLLEGE, NAMAKKAL
AUTONOMOUS

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MINUTES OF EIGHTH BOARD OF STUDIES MEETING

Venue: Online mode through Microsoft Teams platform

DATE& TIME: 04.08.2022 & 11.00 a.m.

Dr.D.Banumathy, Chairman / BOS, welcomed all the external and internal members to the 8th Board of Studies meeting.

BOARD OF STUDIES MEMBERS

S.NO.	NAME	DESIGNATION	POSITION IN COMMITTEE	COLLEGE/UNIVERSITY/ INDUSTRY
1	Dr.D.Banumathy	Professor & HOD	Chairman	Paavai Engineering College
2	Dr.H.Khanna Nehemiah	Professor	University Nominee	Anna University, Chennai.
3	Dr.T.Senthil Kumar	Associate Professor/CSE	Academic Expert	Amirtha School of Engineering, Coimbatore.
4	Dr.J.Umarani	Assistant professor	Academic Expert	Indian Institute of Information Technology Design and Manufacturing. Kancheepuram.
5	Mr.S.Sathish Kumar	Consultant	Industry Expert	HCL Technologies, Chennai
6	Mr.Basant Kumar Soni	Software Architect	Alumni	Virtusa Technologies, Chennai
7	Dr.S.Balu	Professor	Members	Paavai Engineering College
8	Mrs.P.Renukadevi	Associate Professor		
9	Mrs.J.Velumani	Associate Professor		
10	Mr.S.Sivaganesh	Associate Professor		
11	Mr.N.M.K.Ramalingam	Associate Professor		
12	Mrs.K.Sudhadevi	Associate Professor		

AGENDA

- B.E., Computer Science and Engineering Passing of the following details:
    - Curriculum for the students admitted in the academic year 2020-2021 of Regulations-2019(CBCS)
        - Syllabi of 5th,6th,7th and 8th semester UG.
    - Curriculum for the students admitted in the academic year 2019-2020 of Regulations-2019(CBCS)
        - Syllabi of 7th and 8th semester UG.
    - Employability Enhancement -soft skill I and II for semester III and IV.
    - To discuss Programming in Python & Programming in Python Lab course for the following New Programmes
        - **B.Tech** (Bio Technology) – II Semester
        - **B.E** (Safety & Fire Engineering) – I Semester
        - **B.E** (Robotics Automation) – I Semester
    - To discuss One Credit courses and value added courses.
    - Panel of examiners.

Suggestions by expert members:

VII SEMESTER

1. **CS19704- Mini Project**
    - Suggested to do in-house project.
2. **CS19354 – Neural Networks and Deep learning**
    - Reduced the contents of UNIT II and UNIT III.
3. **CS19701-Internet of Things**
    - Python topic from Unit III can be removed as python course was studied as a separate course.

VIII SEMESTER

4. **CS19651 – Multimedia Systems**
    - Suggested to update the syllabus.
5. **CS19652-Information Retrieval**
    - Suggested to include IR Applications in Unit V.
6. **CS19653 –Information Visualization**
    - Suggested to include Python Tool or any other open-source tool.
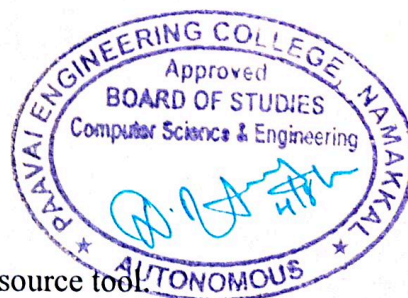
7. **CS19802-Main Project**
   - The Committee members suggested the students to do main project in Industry.

UG Regulation 2019 (AMENDMENTS)

- For Lateral Entry Students Environmental Science and Engineering will be included in 6th semester of Regulations 2019 for the students admitted in the year 2020-2021 and to include in 4th semester of Regulations 2019 for the students admitted in the year 2021-2022 onwards.

  The list of Lateral entry students in III year are:

S.No	Register No.	Name of the Student
1	20104301	Balaji.T
2	20104303	Elavarasi.K
3	20104304	Gokulkannan.S
4	20104305	Monishkumar.R
5	20104307	E.Vignesh
6	20104308	G.Vignesh.

- Professional Readiness for Innovation, Employability and Entrepreneurship, Experiential Project Based Learning course is included as Mandatory Professional Elective in 7th semester, under Naan Mudhalvan-Naalaiya Thiran Scheme of the Chief Minister of TamilNadu.

- **Examination pattern for relative grading:**

  Anna University – Uniform Evaluation Method of Students based on Relative Grading – Letter No.4040/AU/CAC/Relative Grading/2022 dated on 25.6.22 is followed for the students admitted in the year 2021-2022.
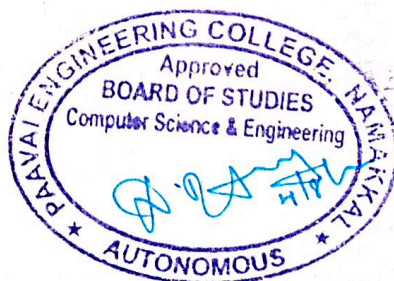
- **List of new courses**

S.NO	SEMESTER	COURSE CODE	SUBJECT NAME
1.	V	CS20152	Software Quality Assurance
2.	V	CS20153	Cyber Security Essential
3.	VI	CS20601	Block Chain Technologies
4.	VI	CS20251	Component Based Technology
5.	VI	CS20253	Natural Language Processing
6.	VI	CS20901	Data Base Management Systems
7.	VI	CS20902	Introduction to Block Chain Technologies
8.	VII	CS19903	Web Designing
9.	VII	CS19904	Android Application & Development
10.	VII	CS19351	5G Technologies
11.	VII	CS19352	Search Engine Optimization
12.	VII	CS19353	Linear Programming
13.	VII	CS19354	Neural Networks and Deep Learning
14.	VII	CS19451	GPU Computing
15.	VII	CS19453	Cyber physical System
16.	VII	CS19454	Decision Support Systems
17.	VIII	CS19551	Web and Internet Technologies
18.	VIII	CS19552	Bio-Inspired Computing
19.	VIII	CS19553	Software Define Networks
20.	VIII	CS19554	Virtual Reality
21.	VIII	CS19651	Multimedia Systems
22.	VIII	CS19652	Information Retrieval
23.	VIII	CS19653	Information Visualization
24.	VIII	CS19654	Knowledge Representation and Reasoning
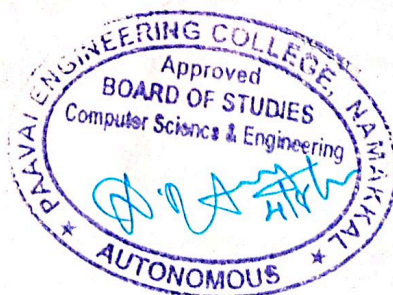
- **List of to value-added course are**

S.NO	COURSE CODE	NAME OF VALUE ADDED COURSE
1.	20CSVC301	Virtual Reality
2.	20CSVC401	Data Analysis with R
3.	20CSVC501	SAP
4.	20CSVC601	IOS APP Development
5.	20CSVC701	Amazon Web Services
6.	20CSVC801	Android Web Development
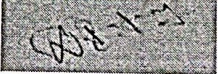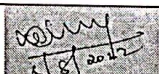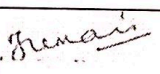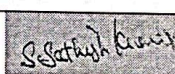
- **The list of One Credit Courses offered in the Curriculum R2019 are given below**

S.No	Course Code	Course Title
1.	CS20951	Amcat (Online Placement Aptitude Certification)
2.	CS20952	E-litmus (Online Placement Aptitude Certification)
3.	CS20953	Nasscomnac-tech (Online Placement Aptitude Certification)
4.	CS20954	I-pat(Online Placement Aptitude Certification)
5.	CS20955	Oracle-SQL Fundamentals
6.	CS20956	Oracle-Java Fundamentals
7.	CS20957	CCNA-Certification
8.	CS20958	SCJP/OCPJP-Sun Certified Java Programmer / Oracle Certified Professional Java Programmer
9.	CS20959	Android Application Development
10.	CS20960	PC Hardware and Trouble Shooting
11.	CS20961	E-Commerce Security
12.	CS20962	Mongo DB
13.	CS20963	Angular JS
14.	CS20964	Coursera (Online Courses)
15.	CS20965	Edx (Online Courses)
16.	CS20966	Udemy(Online Courses)
17.	CS20967	NPTEL/Swayam (Online Courses)

The above suggestions were given by the members and approved the syllabi for the 7th and 8th semester of 2019-20 admitted students, 5th, 6th, 7th and 8th 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	Dr.D.Banumathy HOD/CSE	Dr.H.Khanna Nehemiah Professor	Dr.T.Senthil Kumar Associate Professor	Dr.J.Umarani Assiatant Professor	Mr.S.Sathish Kumar Consultant	Mr.Basant Kumar Soni Software Architect
E-Signature						

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (AI & ML)
MINUTES OF THE FIRST BOARD OF STUDIES MEETING
(ONLINE MODE)
DATE & TIME: 27.04.2022 & 8.30 a.m.

Dr.D.Banumathy, Chairman / BOS, welcomed all the external and internal members to the 1st Board of Studies meeting of BE CSE (AI & ML).

MEMBERS PRESENT

S.NO.	NAME & DESIGNATION	POSITION IN COMMITTEE	COLLEGE/UNIVERSITY/INDUSTRY
1	Dr.D.Banumathy, Professor & Head	Chairman	Paavai Engineering College
2	Dr.H.Khanna Nehemiah Professor	University Nominee	Anna University, Chennai
3	Dr.T.Thenmozhi Associate Professor	Academic Expert	Vellore Institute of Technology, Vellore
4	Dr.T.Senthil Kumar Associate Professor	Academic Expert	Amirtha School of Engineering, Coimbatore
5	Mr.S.Sathish Kumar Consultant	Industry Expert	HCL Technologies, Chennai
6	Mr.R.Dinesh Kumar HR - Executive	Alumni	Fujitsu General India Pvt Ltd, Chennai
7	Dr. N.Magendiran Professor	Members	Paavai Engineering College
8	Dr. S.Balu Professor		
9	Dr. V.Priya Professor		
10	N.M.K. Ramalingam Associate Professor		
11	Mrs.P.Renuka Devi Associate Professor		
12	Mrs.J.Velumani Associate Professor		
13	Mr.M.Siva Ganesh Associate Professor		

AGENDA

- B.E., CSE(AI & ML), Computer Science and Engineering with specialization of Artificial Intelligence and Machine Learning Passing of the following details:
    - Curriculum for the students admitted in the academic year 2022-2023 of Regulations-2019(CBCS)
        - ✓ Syllabi of 1st and 2nd semester UG.

Suggestions by expert members:

- CL22301- Clean Coding Devops, expert members suggested to remove the course and to add the Object-Oriented Programming course in III semester.
- Experts suggested to replace the CL22304-Artificial Intelligence Laboratory into Object Oriented Programming Laboratory.
- For CL22401-Introduction to Machine Learning is to be renamed as Machine Learning in IV Semester.
- For CL22403 Database Management System course, it is suggested to reframe as Database Management System for AI.
- The Committee members suggested to replace the CL22404-Graph Theory into Python Programming.
- For CL22405 Operating System course, it is suggested to reframe as Operating Systems Design.
- For CL22407-Design Thinking Laboratory course, it is suggested to change the title as Python Programming Laboratory.
- BoS Members recommended to add Operating System Laboratory in Semester IV.
- The committee members suggest to replace the CL22502-Microprocessor and Microcontrollers into Foundation of data analysis in V Semester.
- For CL22504-Object Oriented Analysis and Design course, it is suggested to replace the Software Engineering Principles.
- BoS members suggested to replace the CL22505-Predictive modeling course into Design of AI Products in V Semester.
- For CL22508-Microprocessor and Microcontrollers Laboratory, it is suggested to rename as Design of AI products Lab.
- The committee suggest to replace CL22601-Theory of Computation as AI & IOT.
- For CL22602-Data Analytics renamed as Artificial Intelligence and Data Analytics in VI Semester.
- CL22603-Natural Language Processing course, it is suggested to renamed as Robotics in VI Semester.
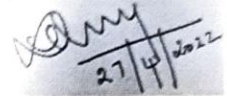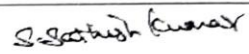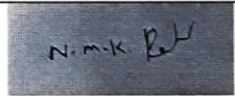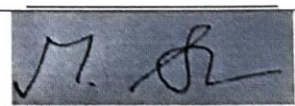
- The BOS Members recommended to change the course title Artificial Intelligence Analyst as Neural Network and Machine learning in VI Semester.
- For CL22607-Natural Language Processing Lab is suggested to replaced as Robotics Lab in VI semester.
- For CL22701-Cloud Computing is suggested to renamed as Soft Computing and its applications.
- Remove the course CL22702 Data Visualization and experts suggested to add new course as Web Programming for AI.
- For CL22707-Cloud Computing Laboratory to renamed as Web Programming.
- Bos Members suggested to remove the course CL22708-Data Visualization Laboratory and add Soft Computing Laboratory.
- The committee members suggested to replace the course CL22354- Introduction to Robotics into Nature Inspired Computing Techniques in Professional Elective-I
- The committee members suggested to change the course title CL22651-Soft Computing in Medical Diagnostics into Statistical Machine Learning.
- All professional elective should be related to AI & ML, suggested out of 4 electives at least 3 electives should be related to AI & ML.
- Technical Paper Writing course is to introduced and made mandatory for 3rd year students that should be added as one credit course.

The above suggestions were given by the members and approved the syllabi for the 1st and 2nd semester UG of 2022-2023 of Regulations-2019(CBCS).

The suggestions given by the members were implemented in the curriculum.

MEMBERS E SIGNATURE

S.NO.	NAME & DESIGNATION	POSITION IN COMMITTEE	COLLEGE/UNIVERSITY/INDUSTRY	SIGNATURE
1	Dr.D.Banumathy, Professor & Head	Chairman	Paavai Engineering College	
2	Dr.H.Khanna Nehemiah Professor	University Nominee	Anna University, Chennai	
3	Dr.T.Thenmozhi Associate Professor	Academic Expert	Vellore Institute of Technology, Vellore	
4	Dr.T.Senthil Kumar Associate Professor	Academic Expert	Amirtha School of Engineering, Coimbatore	
5	Mr.S.Sathish Kumar Consultant	Industry Expert	HCL Technologies, Chennai	
6	Mr.R.Dinesh Kumar HR - Executive	Alumni	Fujitsu General India Pvt Ltd, Chennai	
7	Dr. N.Magendiran Professor	Members	Paavai Engineering College	
8	Dr. S.Balu Professor			
9	Dr. V.Priya Professor			
10	N.M.K. Ramalingam Associate Professor			
11	Mrs.P.Renuka Devi Associate Professor			
12	Mrs.J.Velumani Associate Professor			
13	Mr.M.Siva Ganesh Associate Professor			

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (Internet of Things)
MINUTES OF THE FIRST BOARD OF STUDIES MEETING
(ONLINE MODE)
DATE & TIME: 27.04.2022 & 8.30 a.m.

Dr.D.Banumathy, Chairman / BOS, welcomed all the external and internal members to the 1st Board of Studies meeting of B.E. CSE (Internet of Things).

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MEMBERS PRESENT

S.NO.	NAME & DESIGNATION	POSITION IN COMMITTEE	COLLEGE/UNIVERSITY/INDUSTRY
1	Dr.D.Banumathy, Professor & Head	Chairman	Paavai Engineering College
2	Dr.H.Khanna Nehemiah Professor	University Nominee	Anna University, Chennai
3	Dr.T.Thenmozhi Associate Professor	Academic Expert	Vellore Institute of Technology, Vellore
4	Dr.T.Senthil Kumar Associate Professor	Academic Expert	Amirtha School of Engineering, Coimbatore
5	Mr.S.Sathish Kumar Consultant	Industry Expert	HCL Technologies, Chennai
6	Mr.R.Dinesh Kumar HR - Executive	Alumni	Fujitsu General India Pvt Ltd, Chennai
7	Dr. N.Magendiran Professor	Members	Paavai Engineering College
8	Dr. S.Balu Professor		
9	Dr. V.Priya Professor		
10	N.M.K. Ramalingam Associate Professor		
11	Mrs.P.Renuka Devi Associate Professor		
12	Mrs.J.Velumani Associate Professor		
13	Mr.M.Siva Ganesh Associate Professor		

AGENDA

- B.E., CSE(IoT), Computer Science and Engineering with specialization of Internet of Things Passing of the following details:
  - o Curriculum for the students admitted in the academic year 2022-2023 of Regulations-2019(CBCS)
    - ✓ Syllabi of 1st and 2nd semester UG.

Suggestions by expert members:

- The Committee suggested to increase the number of IoT Core courses.
- Experts suggested to remove CI20302-Cryptographic Fundamentals and to add Embedded with IoT.
- CI20303-Computer Networks, it is suggested to rename as Computer Architecture.
- For CI20305-Computer Networks Laboratory is to be renamed as Embedded Systems Laboratory in III Semester.
- The Committee members suggested to replace the CI20409-Computer Architecture, Microprocessors and Microcontrollers course into Computer Networks in IV Semester.
- Experts suggested to remove the CI20402 Database Management Systems and add to Software Engineering in IV Semester.
- The committee suggest to replace the CI20404 Bio Information course into Microprocessor and Microcontroller in IV Semester.
- For CI20405 -Internet of Things Laboratory as replaced to Computer network laboratory in Semester IV.
- BoS Members suggested to remove the CI20501 Optimization Techniques and add to Design and Analysis of Algorithm.
- CI20502- Theory of Computation, it is suggested to remove the course in V Semester and it has been advised to add IOT and its application course.
- CI20504 Design and Analysis of Algorithms as replaced to Database Management Systems in Semester V.
- CI20505 Machine Learning course, it is suggested to rename as Machine Learning for IoT.
- The Committee Members suggested to remove the CI20507 Design and Analysis of Algorithms Laboratory and to introduce the Database Management Laboratory in Semester V.
- It is suggested to remove the CI20603 Object Oriented Analysis and Design course and to add the Computer Vision and IoT in Semester VI.
- BoS members suggested to remove CI20701 Deep Learning course and add to IoT Security in Semester VII.
- The Committee suggested to replace CI20702 Deep Learning Laboratory into IOT Security Laboratory.
- CI20701 Deep Learning is available in elective, now it has been advised to be the core paper.
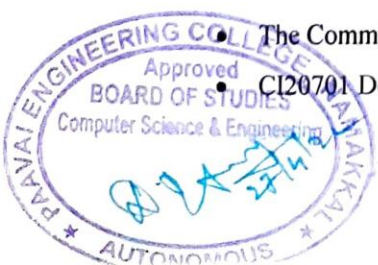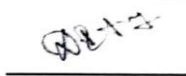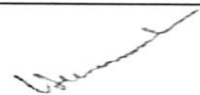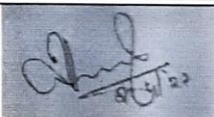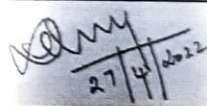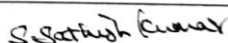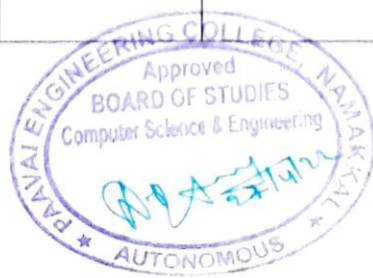
- Bos members suggested to add CI20651-Optimization Techniques, CI20652-Android Application with IoT, CI20653-Deep Learning with IoT, CI20654-Software Testing as core courses.
- All Professional Elective should be related to IoT, suggested out of 4 electives atleast 3 elective should be related to IoT.
- For IoT laboratory classes, specialized labs are recommended.
- Technical Paper Writing course is mandatory for 3rd year students that should be added as one credit course in the curriculum.

The above suggestions were given by the members and approved the syllabi for the 1st and 2nd semester UG of 2022-2023 of Regulations-2019(CBCS).
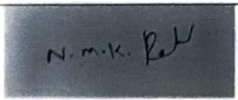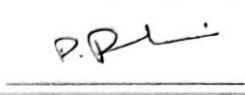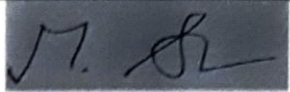
The suggestions given by the members were implemented in the curriculum.

MEMBERS E SIGNATURE

S.NO.	NAME & DESIGNATION	POSITION IN COMMITTEE	COLLEGE/UNIVERSITY/INDUSTRY	SIGNATURE
1	Dr.D.Banumathy, Professor & Head	Chairman	Paavai Engineering College	
2	Dr.H.Khanna Nehemiah Professor	University Nominee	Anna University, Chennai	
3	Dr.T.Thenmozhi Associate Professor	Academic Expert	Vellore Institute of Technology, Vellore	
4	Dr.T.Senthil Kumar Associate Professor	Academic Expert	Amirtha School of Engineering, Coimbatore	
5	Mr.S.Sathish Kumar Consultant	Industry Expert	HCL Technologies, Chennai	S.Sathish Kumar
6	Mr.R.Dinesh Kumar HR - Executive	Alumni	Fujitsu General India Pvt Ltd, Chennai	
7	Dr. N.Magendiran Professor	Members	Paavai Engineering College	
8	Dr. S.Balu Professor			
9	Dr. V.Priya Professor			

10	N.M.K. Ramalingam Associate Professor			
11	Mrs.P.Renuka Devi Associate Professor			
12	Mrs.J.Velumani Associate Professor			
13	Mr.M.Siva Ganesh Associate Professor			

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF CYBER SECURITY

MINUTES OF THIRD BOARD OF STUDIES MEETING

Venue: Online mode through Microsoft Teams platform

DATE& TIME: 05.08.2022 & 10.00 a.m.

Dr.D.Banumathy, Chairman / BOS, welcomed all the external and internal members to the 3rd Board of Studies meeting.

BOARD OF STUDIES MEMBERS

S.NO.	NAME	DESIGNATION	POSITION IN COMMITTEE	COLLEGE/UNIVERSITY/ INDUSTRY
1	Dr.D.Banumathy	Professor & HOD	Chairman	Paavai Engineering College
2	Dr.H.Khanna Nehemiah	Professor	University Nominee	Anna University, Chennai.
3	Dr.M.Sethumadhavan	Professor and Head	Academic Expert	Amrita Vishwa Vidyapeetham, Coimbatore
4	Dr.M.B.Mukesh Krishnan	Associate Professor	Academic Expert	SRM Institute of Science and Technology, Kattankulathur
5	Mr.Santhosh Kumar Ramachandran	Technology Analyst	Industry Expert	Infosys, Chennai
6	Mr.Dinesh Kumar	HR - Executive	Alumni	Fujitsu General India Pvt Ltd, Chennai
7	Dr.S.Balu	Professor	Members	Paavai Engineering College
8	Mrs.P.Renukadevi	Associate Professor		
9	Mrs.J.Velumani	Associate Professor		
10	Mr.S.Sivaganesh	Associate Professor		
11	Mr.N.M.K.Ramalingam	Associate Professor		
12	Mrs.K.Sudhadevi	Associate Professor		

AGENDA

- B.E., Cyber Security passing of the following details:
  - Curriculum for the students admitted in the academic year 2020-2021 of Regulation-2019.
  - Syllabi of 5th, 6th, 7th an 8th semester-UG.
  - Employability Enhancement –soft skill I and II for semester III and IV.
  - To discuss One Credit courses and value added courses.
  - Panel of examiners.

Suggestions by expert members:

V SEMESTER

1. **CY20502- Digital Forensics**
   - Suggested to change thetopic warfare in the course.

VI SEMESTER

2. **CY20601-Software Engineering**
   - Panel Members suggested to remove Ethical Hacking course.
   - Suggested Software Engineering course as core course.

3. **CY20603-Penetration Testing and Vulnerability Assessment**
   - Suggested to remove Ethical Hacking course, it is equivalent to Penetration Testing and Vulnerability Assessment course.

4. **CY20604- Penetration Testing and Vulnerability Assessment Laboratory**
   - Committee Members suggested to change the Laboratory course title Penetration Testing and Vulnerability Assessment, instead of Ethical Hacking Laboratory .

5. **CY20252-Secure Coding**
   - Recommended to reduce the syllabus.

VII SEMESTER

6. **CY20352-Cloud Computing**
   - Committee members suggested to include Cloud Computing course as core course instead of Distribute System course.

7. **CY20454- Android Security**
   - Recommended to reduce the syllabus.

8. **CY20903- Formal Methods and Cyber Security**
   o The committee members suggested to remove the course.

UG Regulation 2019 (AMENDMENTS)

- For Lateral Entry Students Environmental Science and Engineering will be included in 6th semester of Regulations 2019 for the students admitted in the year 2020-2021 and to include in 4th semester of Regulations 2019 for the students admitted in the year 2021-2022 onwards.

- The list of Lateral entry students in III year are:

S.NO	Register No.	Name of the Student
1.	20111301	R.Mohammed Siddiq
2.	20111302	R.Sarankumar

- **Examination Pattern for Relative Grading:**

Anna University – Uniform Evaluation Method of Students based on Relative Grading –Letter No.4040/AU/CAC/Relative Grading/2022 dated on 25.6.22 is followed for the students admitted in the year 2021-2022.

- **List of Value added courses**

S.NO	COURSE CODE	NAME OF THE VALUE ADDED COURSE
1.	20CYVC301	Data Analytics with R
2.	20CYVC401	SAP
3.	20CYVC501	IOS App Development
4.	20CYVC601	Amazon Web Services
5.	20CYVC701	Android App Development

- **The list of One Credit Courses offered in the Curriculum R2019 are given below**
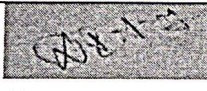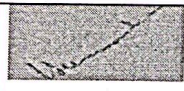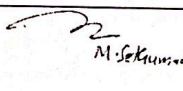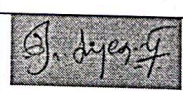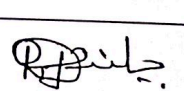
S.No	Course Code	Course Title
1.	CY20951	NPTEL/ Swayam(Online course)
2.	CY20952	Spoken Tutorial (Online courses)
3.	CY20953	Oracle -SQL fundamentals
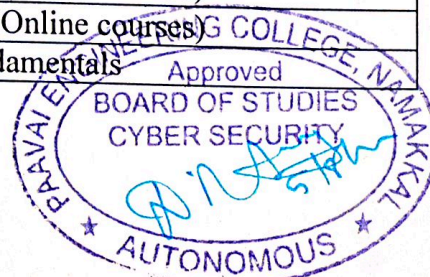
4.	CY20954	Oracle -Java Fundamentals
5.	CY20955	CCNA -Certification
6.	CY20956	SCJP / OCPJP -Sun Certified Java Programmer / Oracle Certified Professional Java Programmer
7.	CY20957	Android application Development
8.	CY20958	PC Hardware and Trouble shooting
9.	CY20959	E-commerce security
10.	CY20960	Engineering in society health
11.	CY20961	Ethical Hacking
12.	CY20962	Software quality and Automated Testing
13.	CY20963	Network Engineering
14.	CY20964	iPhone Operating System
15.	CY20965	Coursera(Online courses)
16.	CY20966	Edx(Online courses)
17.	CY20967	Udemy(Online courses)
18.	CY20968	AWS Certified Cloud Practitioner
19.	CY20969	Microsoft Azure AZ-900 Exam
20.	CY20970	Google Cloud Associate Cloud Engineer
21.	CY20971	UiPath – Robotics Process Automation (RPA) ICT Academy

The above suggestions were given by the members and approved the syllabi for the 5th, 6th, 7th and 8th 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	Dr.D.Banumathy HOD/CSE	Dr.H.Khanna Nehemiah Professor	Dr.M.Sethu madhavan Professor and Head	Dr.M.B.Muke sh Krishnan Associate Professor	Mr.Santhosh Kumar Ramachandr an Technology Analyst	Mr.Dinesh Kumar HR-Executive
E-Signature						

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)
MINUTES OF THE EIGHTH BOARD OF STUDIES MEETING
(ONLINE MODE)
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
DATE: 29.07.2022 & TIME: 11.30a.m.
MEMBERS PRESENT

S.NO.	NAME & DESIGNATION	POSITION IN COMMITTEE	COLLEGE/UNIVERSITY/ INDUSTRY
1.	Dr.M.Sudha Professor & Head, ECE	Chairman	Paavai Engineering College
2.	Dr.K.Malathi Professor, ECE Anna University	University Nominee	CEG Campus, Anna University, Chennai
3.	Dr.D.Sriram Kumar Professor, ECE	Academic Expert	NIT Trichy
4.	Dr. Kamalraj Subramaniam Professor & HoD BME	Academic Expert	Karpagam Academy of Higher Education
5.	Mr.Pragadheeswaran Venkat Director	Industry Expert	CEO, Aries Biomedical Technology
6.	Dr.K.Manoj Prabhakaran Assistant Professor	Alumunus	Department of ECE Amrita School of Engineering Amrita Vishwa Vidyapeetham,Chennai
7.	Dr.S.VijayaKumar Professor		Paavai Engineering College
8.	Dr.T.Aruna Professor		Paavai Engineering College
9.	Dr.T.Loganayaki Professor		Paavai Engineering College
10.	Dr.N.Angayarkanni Professor		Paavai Engineering College
11.	Mrs.A.Samundeeswari Associate Professor	BoS Members	Paavai Engineering College
12.	Dr.R.Mohana Priya Associate Professor		Paavai Engineering College
13.	Dr.R.Pushpavalli Associate Professor		Paavai Engineering College
14.	Mrs.E.Sangeetha Associate Professor		Paavai Engineering College
15.	Mr.S.Vijayakumar Associate Professor		Paavai Engineering College
16.	Mrs.C.Vanaja Associate Professor		Paavai Engineering College
17.	Mr.S.Vijaya Murugan		Paavai Engineering College

	Associate Professor		
18.	Mr.S.Loganathan Assistant Professor		Paavai Engineering College
19.	Mr.G.NandhaKumar Assistant Professor		Paavai Engineering College
20.	Mr.S.Sathish Assistant Professor		Paavai Engineering College
21.	Ms.R.Bhuvaneshwari Assistant Professor		Paavai Engineering College
22.	Mr.K.Venkatachalam Assistant Professor		Paavai Engineering College
23.	Mrs.T.Shanthi Assistant Professor		Paavai Engineering College
24.	Mrs.S.Usha Assistant Professor		Paavai Engineering College

AGENDA

1. The Curriculum and syllabus for the 7th and 8th semester of Regulations 2019(For the students admitted during the academic year -2019-2020)
2. The Curriculum and syllabus for the 5th and 6th semester of Regulations 2019(For the students admitted during the academic year 2020-2021)
3. List of one credit and value added courses
4. Panel of examiners
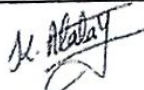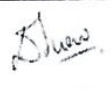5. Mandatory courses assessment, examination pattern, project rubrics, and credits summary.

SUGGESTIONS BY THE MEMBERS

- Experts suggested to refine FPGAS as FPGAs in the seventh semester course EC19553 - System Design with FPGA.

- They suggested to include more design concepts in the syllabus of the eighth semester elective course and change the title from EC19653-System On Chip to EC19653-System On Chip design.

- Credit points of seventh semester Project Phase I and eighth semester Project Phase II were discussed and they approved the credits allotted.

- Experts approved the syllabus of the open elective courses - EC19903 - Sensors and Transducers and EC19904 - Automotive Electrical and Electronics System of 2019-2020 admitted students.

- They also approved the syllabus of the open elective courses - EC20901 - Consumer Electronics and EC20902 - Principles of Modern Communication Systems of 2020-2021 admitted students.

- Experts suggested to give preference to George Kennedy's - Electronic Communication Systems and TV and Radar Engineering by Gulati books for the open elective course EC20902 - Principles of Modern Communication Systems.

- They suggested to give only Qualitative analysis for the open elective courses.

- EC16801 - Wireless networks, a course from Regulations 2016, its credit was changed from 3 to 4 along with modified syllabus that was given for Fast track students and the same was ratified by the experts.

- Discussed the one credit courses of Regulations 2019 for 2019-2020 and 2020-2021 admitted students along with Soft Skills I and Soft skills II and approved by the experts.

- Discussed the mandatory professional elective - IBM - Experiential project-based learning - "Professional Readiness for Innovation, Employability and Entrepreneurship" to be opted in the seventh semester as suggested by Anna University and got approval for the same.

- Experts approved the syllabus of Value added courses and Industry expert suggested to conduct courses like "E -Vehicle Design for Electronics" in value added courses.

- They also suggested to add state of art topics in Value added courses.

- Discussed the list of panel examiners, examination pattern, project rubrics, and credits summary.

- Based on the suggestions by the stakeholders as discussed in Department Advisory Committee meeting and its follow-up, the R2019 courses of the fifth and sixth semester of 2020-2021 admitted students were discussed and its syllabus were approved by the experts.

- Experts also approved the syllabus of fast track students.

- Second semester mandatory course - MC20201 Environmental Science and Engineering for the lateral entry students and 2020-2021 admitted students were discussed.

The above suggestions were given by the members and approved the syllabi for the 7th and 8th semester of 2019-20 admitted students, 5th and 6th semester of 2020-2021 admitted students of Regulations 2019(CBCS), one credit courses, value added courses and panel of examiners.

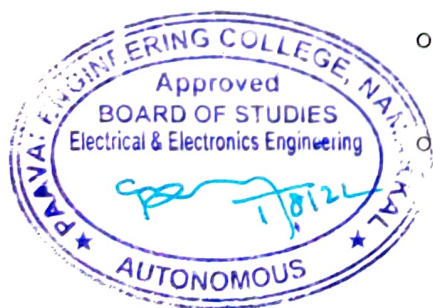| Position in the committee	Chairman	University Nominee	Academic Expert 1	Academic Expert 2	Industry Expert	Alumunus
Name & Designation	Dr.M.Sudha Professor & Head, ECE	Dr.K.Malathi Professor, ECE Anna University	Dr.D.Sriram Kumar Professor, ECE	Dr. Kamalraj Subramaniam Professor & HoD BME	Mr.Pragadheeswaran Venkat Director	Dr.K.Manoj Prabhakaran Assistant Professor
e-Signature						
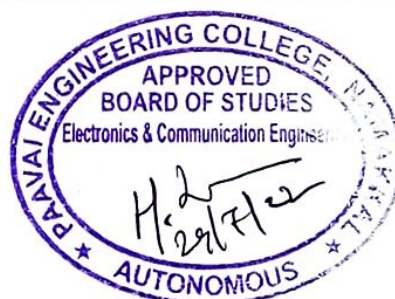
PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)
DEPARTMENT OF EEE
MINUTES OF THE EIGHTH BOARD OF STUDIES MEETING
(ONLINE MODE)
01.08.2022 & 11.00 AM

MEMBERS PRESENT

S.No	NAME & DESIGNATION	POSITION IN THE COMMITTEE	COLLEGE/ UNIVERSITY/INDUSTRY
1	Dr.G.Balaji , HoD & Professor	Chairman	Paavai Engineering College
2	Dr.R.P.KumudhiniDevi, Prof./EEE	University Nominee	Anna University, Chennai
3	Dr.V.Sankaranarayanan, ASP/EEE	Academic Expert 1	National Institute of Technology, Trichy
4	Dr.V.Velmurugan, ASP/EEE	Academic Expert 2	Centre for Nanotechnology Research,VIT University, Vellore
5	Mr.V.Subramanian	DGM-Training	Industry Expert
6	Mr.M.Ramamoorthy, Project Engineer Level 2	Alumini	DRDO, Bangalore
7	Dr.B.Murali Babu, Professor, COE	Member	Paavai Engineering College
8	Dr.A.Rathinam, Professor/EEE	Member	Paavai Engineering College
9	Dr.K.Jagatheesan, ASP/EEE	Member	Paavai Engineering College
10	Dr.C.Arulkumar, ASP/EEE	Member	Paavai Engineering College
11	Mrs.G.Umamaheswari, ASP/EEE	Member	Paavai Engineering College
12	Mrs.S.Suganya, AP/EEE	Member	Paavai Engineering College

AGENDA

1. Chairman / BoS welcomed all members for the 8th meeting of Board of Studies.
2. Chairman / BoS introduced the members to the Board of Studies.
3. Chairman / BoS briefed the members about agenda.

   1. Chairman / BoS discussed the status of implementation of 7th BoS suggestions to the members of Board of Studies.
   2. B.E. Electrical and Electronics Engineering Passing of the following details:

      o Syllabi of seventh and eighth semester (academic year 2022-2023) for the batches of students admitted during the academic year 2019-2020 under Regulations 2019
      o Ratification of fifth and sixth semester syllabi (academic year 2022-2023) for the

batches of students admitted during the academic year 2020-2021 under Regulations 2019.

- o Syllabi of seventh and eighth semester for the batches of students admitted during the academic year 2020-2021 under Regulations 2019.
- o List of one credit courses for the UG Programme.
- o List of value-added courses for the UG Programme.
- o Amendments of Environmental Science and Engineering for 6th semester.
- o Examination pattern as per Anna University.
- o Special elective for research scholars.
- o NPTEL online courses.

3. Any other matter.

2. The following are the suggestions given by the members of Board of Studies:

UG Curriculum and Syllabi

The members of the board suggested the following:

- **EE19801- Utilization of Electrical Energy:**
  - ✓ Course name may be modified as Electric energy utilization and conservation and included in professional elective.
  - ✓ Smart grid may be included as core course.

- **EE19352 – Microcontroller Based System Design:**
  - ✓ Course title may be changed to Advanced Microcontroller.

- **EE19353 – Electric Vehicle Mechanics and Control:**
  - ✓ Course title may be modified as Electric Vehicle Technology.
  - ✓ Unit I title may be changed as Hybrid Electric Vehicles.

- **EE19451 – Power System Transients:**
  - ✓ Follow the unit sequence as per book Electrical Transients in Power System by Allan Greenwood

- **EE19554 – Computer Aided Design of Electrical Machines:**
  - ✓ In all Units Computer Aided Design title may be removed

- **EE19651 – HVDC Transmission Systems:**
  - ✓ Unit III title may be changed as HVDC System Control.
  - ✓ Unit IV hybrid filter contents may be included.

- **EE19653 – Advanced Control Systems:**
  - ✓ Syllabus is heavy so suggested to revise the syllabus.

- **Ratification of following courses for 5th and 6th semester Regulations 2019 (2020 admitted Candidates)**
  - EE20507- Control and Instrumentation laboratory
    - ✓ Instrumentation related experiments included.

- EE20604-Wind and Solar Energy Systems (New syllabus)
- EE20151- Bio Medical Engineering (New syllabus)
- EE20901- Basics of Power Electronics (New syllabus)
- EE20902- Basics of Power Systems Engineering (New syllabus)

- Soft Computing Techniques course may be included as professional elective for 2020 admitted candidates of Regulations 2019.

- Amendments for Mandatory course approval for the Regulations 2019 (2020 admitted candidates, lateral entry), Environmental Science and Engineering for 6th semester.

- Other courses approved in 7th BoS are applicable to the 5th and 6th semester with code change for 2020 admitted candidates of Regulations 2019.

- 7th and 8th semester syllabi approved for the students admitted during the academic year 2020-2021 under Regulations 2019 with code change .

- Curriculum of UG Programme can be modified as per the suggestions given.

**List of one credit courses for the UG Programme.**

S.No	COURSE CODE	COURSE TITLE
1	EE20951	Best Maintenance Practices in Low Voltage Switchgear
2	EE20952	Breaker Maintenance Workshop C-Power Air Circuit Breaker
3	EE20953	Electrical Design of Switchgear Assembly
4	EE20954	Power Distribution in Buildings
5	EE20955	Selection and Application of Drives
6	EE20956	Industrial Protection with Numerical Relays
7	EE20957	Creating a Printed Circuit Board
8	EE20958	Supervisory Control and Data Acquisition
9	EE20959	Design of Control Circuits
10	EE20960	CEA Rules and Regulations of Tamil Nadu Electricity Board

List of value-added courses for the UG Programme.

| S.No	COURSE TITLE
1	Business Scope in Solar Energy
2	Power Converter Analysis and Design
3	Ultrasonic Instrumentation
4	Mixed Signal IC Design
5	Signal Processing Techniques ON LABVIEW
6	Adaptive Signal Processing

Special Elective for Research Scholars:

- The following special electives courses are discussed for research scholars course work,
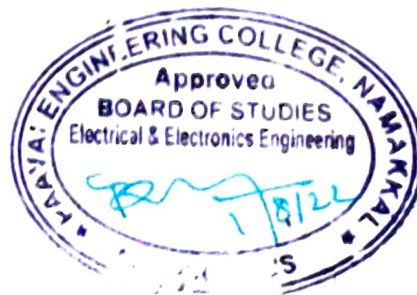
S.No	COURSE CODE	COURSE TITLE
1	EER20001	Modelling and Analysis of Electrical Machines
2	EER20002	Modelling and simulation of Power Electronic Systems
3	EER20003	Analysis of Power Converters
4	EER20004	Advanced Power Semiconductor Devices
5	EER20005	Design of PID Controllers
6	EER20006	Solid State AC Drives
7	EER20007	Solid State DC Drives
8	EER20008	Embedded Control of Electrical Drives
9	EER20009	Analysis of Inverters
10	EER20010	VLSI Design Techniques
11	EER20011	Industrial Robotics
12	EER20012	Flexible AC Transmission Systems
13	EER20013	Energy Management and Auditing
14	EER20014	Modelling and Analysis of Power Converters
15	EER20015	Power Quality Analysis
16	EER20016	Power Electronics in Wind and Solar Power Conversion
17	EER20017	MEMS and Microsystems and its applications
18	EER20018	Distributed Generation and Microgrid
19	EER20019	Battery Management Systems
20	EER20020	Special Electrical Machines and Controllers
21	EER20021	Modern Rectifiers and Resonant Converters
22	EER20022	Industrial Control Economics
23	EER20023	Data Communication and Networks
24	EER20024	Modelling of Electrical Vehicles

- Regulations 2019 (CBCS) curriculum developed for 5th, 6th, 7th, 8th semester have the following new courses,

S.No	COURSE CODE	COURSE TITLE
1	EE19703	Wind and Solar Energy Systems Laboratory
2	EE19801	Smart Grid
3	EE19352	Advanced Microcontroller
4	EE19353/EE20504	Electric Vehicle Technology
5	EE19451	Power System Transients
6	EE19453	Electrical Energy Utilization and Conservation
7	EE19454	Digital Signal Processing
8	EE19651	HVDC Transmission Systems
9	EE19652	Fiber Optics and Laser Instruments
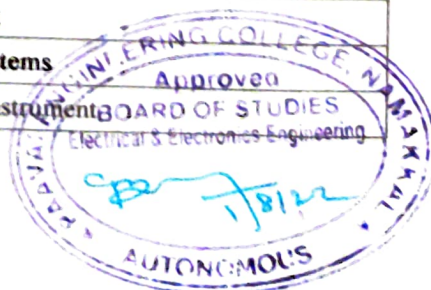
10	EE19653	Advanced Control Systems
11	EE19903	Electrical Safety
12	EE19904	SMPS and UPS
13	EE20353	Soft Computing Techniques
14	EE20901	Basics of Power Electronics

- The courses under the Regulations 2019 (CBCS) curriculum were focused to satisfy either employability/ entrepreneurship/skill development for the progress of student's evolution and also have the relevance to the local/national/regional/global needs with course objectives including programme educational objectives, programme outcomes, programme specific outcomes and course outcomes.

3. Chairman/BOS thanked all the members for their active participation, suggestions and contribution made for recommending the B.E. Electrical and Electronics Engineering, the syllabi of UG 7th and 8th semester for the students admitted during 2019-2020, UG curriculum and syllabi of 5th,6th, 7th and 8th semester for 2020-2021 admitted students to the academic council.
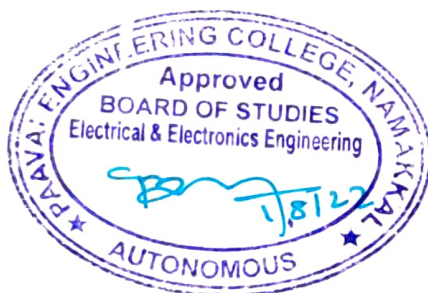
Dr.G.Balaji

Professor / Chairman – BoS (EEE)

8th BoS suggestion Approved

Position in the Committee	Name & Designation	e-Signature
University Nominee	Dr.R.P.Kumudhini Devi, Prof./EEE	
Academic Expert 1	Dr.V.Sankaranarayanan, ASP/EEE	
Academic Expert 2	Dr.V.Velmurugan, ASP/EEE	
Industry Expert	Mr.V.Subramanian, DGM Training, L&T	
Alumini	Mr.M.Ramamoorthy, Project Engineer Level 2	

PAAVAI ENGINEERING COLLEGE (Autonomous)

DEPARTMENT OF MECHANICAL ENGINEERING

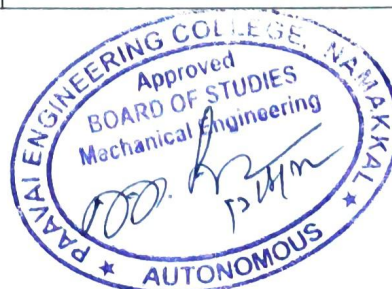### Minutes of the 8th Board of Studies Meeting

Venue: Department of Mechanical Engineering

Date and Time: 12.08.2022, 11.30 AM

Members Present

S.NO	NAME	POSITION IN THE COMMITTEE	COLLEGE / UNIVERSITY / INDUSTRY
1.	Dr.A.P.Sivasubramaniam, HoD & Prof/Mechanical	Chairman	Paavai Engineering College.
2.	Dr. K. Shanmuga Sundaram, Prof/Mechanical	University Nominee	Department of Mechanical Engineering, Anna University, Chennai-600 025.
3.	Dr.K.Jayabal, ASP/Mech	Academic Expert	Department of Mechanical Engineering, IIITDM, Kancheepuram-600127.
4.	Dr.A.Vinoth Jebaraj, ASP/Mech	Academic Expert	School of Mechanical Engineering, Design & Automation, VIT University, Vellore-632014.
5.	Dr.M.Premkumar, Principal	Members	Paavai Engineering College
6.	Dr.K.K.Ramasamy, Prof/ Mech		
7.	Dr.K.Sundara Murthy, Dean - Academics		
8.	Dr.V.Subburam, Prof/ Mech		
9.	Dr.M.Makesh, Prof/ Mech		
10.	Dr.S.Maniraj, ASP/Mech		
11.	Dr.K.Muruga Bhoopathy, General Manager	Industry Expert	SAIL, Salem.
12.	Mr.R.Kavin Sakkaravarthy, Plant Manager	Alumni	Ammega Belting India Private Ltd., Chennai

Minutes of the Board of Studies Meeting

Venue: Department of Mechanical Engineering

Date and Time: 12.08.2022, 11.30 AM

1. Chairman / BoS welcomed all the members to the 8th meeting of Board of Studies.
2. Chairman / BoS introduced the members to the Board of Studies.
3. Chairman / BoS briefed the members about the **agenda.**

The Board of Studies of Mechanical Engineering department -Passing of the following details:

B.E Mechanical Engineering:

> Curriculum and Syllabi of Seventh and Eighth semester for the batch of students admitted in 2019– 2020 under Regulations 2019.

> One credit courses

> Value added courses

> Amendments

- Environmental Science and Engineering for Lateral Entry Students in VI Semester.

- Examination pattern, degree classification and grading for 2021-2022 admitted students.

Panel of Examiners:

S.No	Name of the Examiners	College Name
1.	Prof.P.MURUGANANDHAM	Mahendra Institute of Technology, Tiruchengode
2.	Prof.A.RVENKATARAMANAN	Sona College of Technology, Salem
3.	Dr.V.M.MADHAVAN	Sona College of Technology, Salem
4.	Prof.S.KARTHIK	PSNA College of Engineering and Technology, Dindigul
5.	Prof.T.RAMAKRISHNAN	PSNA College of Engineering and Technology, Dindigul
6.	Dr.R.BOOPATHI	Mahendra Engineering College, Tiruchengode
7.	Prof .H.VINOTHKUMAR	M.Kumarasamy College of Engineering, Karur
8.	Dr.S.DHANABALAN	M.Kumarasamy College of Engineering, Karur
9.	Prof.L.EMMANUVEL	M.Kumarasamy College of Engineering, Karur
10.	Dr.R.PRAKASH	Velalar College of Engineering and Technology, Erode
11.	Dr.S.JAYAPRAKASAM	K.S.Rangasamy College of Technology, Tiruchengode
12.	Prof.G.BALAJI	PSNA College of Engineering and Technology, Dindigul
13.	Dr.R.SENTHILRAJA	Institute of Road and Transport Technology, Erode
14.	Dr.M.PALPANDI	PSNA College of Engineering and Technology, Dindigul

M.E Engineering Design:

> Special Electives for Research Scholars
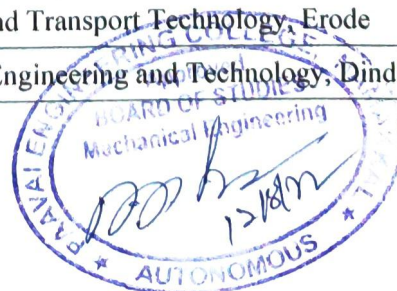
B.E – Safety and Fire Engineering:

➢ Curriculum and Syllabi of First and Second semester for the batch of students to be admitted in 2022– 2023 under Regulations 2019.

The following are the suggestions given by the members of Board of Studies:

7th & 8th Semester Courses:

1. **ME19702 - FINITE ELEMENT ANALYSIS**

   - Unit 2 – In 1D, 'Elements' should be mentioned and 'heat transfer problems' after 'post-processing' should be added

   - Unit 3 – 'Application to thermal and assembly/mechanical problems' and also 'boundary condition problems' should be added.

   - Unit 3 – Add 'co-ordinate element' also.

   - Books - S.S. Rao book new edition should be added. Also 'Seshu' (author) book should be added as second in text book and move 'Logan' to reference books.

2. **ME19354 - COMPUTATIONAL FLUID DYNAMICS**

   - Unit 5 – At the end of 5th unit 'Case Studies' should be added. Also at the end of the unit add solutions, case studies after 'Advanced Boundary Conditions".

3. **ME19452 - ADDITIVE MANUFACTURING PROCESSES**

   - Unit 4 – Before EBM add "Selective Laser Melting" or "Laser based Powder Melting" should be added.

4. **ME19553 - DESIGN OF JIGS, FIXTURES AND PRESS TOOLS**

   - Unit 4 – Change the unit topic as " DESIGN OF PRESS TOOLS"

   - Unit 5 – 'Drawing and deep drawing' should be added.

5. **ME19652 - PRODUCTIVITY MANAGEMENT AND RE-ENGINEERING**

   - Unit 2 – Unit 2 should be modified by reducing the contents to 4 to 5 lines.

6. **ME19653 - WELDING TECHNOLOGY**

   - Unit 4 – 'Dissimilar metal joints' should be added before 'automation'.

   - Unit 5 – Instead of mentioning Aluminum, copper, stainless steel give as 'Steel, Aluminum alloys, Copper alloys and other non-ferrous metals'.

   - Books - Baldev Raj – Welding technology for Engineers, ASM Book should be added.

7. **ME19704 - SIMULATION AND ANALYSIS LABORATORY**

   - No 'beams' topic in FEA theory, so after trusses in 1D 'beams should be added.

   - Modify MATLAB exercises relevant to the topics.

- In Part II, exercise 6, remove 'simple treatment only'.

8. **One Credit Course – FUSION 360**

   - Fusion 360 is Company name, instead the course name should be given as 'DRAFTING AND MODELLING'.
   - The name of the first module should be changed as 'Drawing Standards'.

9. **Value Added Courses**

   - Hands on training should be given.

➢ The members of the Board of Studies also approved changing the Subject codes of 5th and 6th semesters to Regulations 2019.

SPECIAL ELECTIVES FOR RESEARCH SCHOLARS

   - All the 5 Elective courses for research scholars have been approved by the members of the Board of Studies.

LIST OF NEW COURSES

➢ **B.E MECHANICAL ENGINEERING**

   - Automation in Manufacturing
   - Internet of Things (IoT)
   - Artificial Intelligence (AI)
   - Additive Manufacturing processes
   - Solar Energy System

➢ **SPECIAL ELECTIVES FOR RESEARCH SCHOLARS**

   - Energy Management in Thermal systems
   - Energy Resources
   - Advanced Power Plant Engineering
   - Energy Conservation in Industrial Utilities
   - Environmental benefits of Energy Management

➢ **B.E. SAFETY AND FIRE ENGINEERING**

   - ME22101 - Engineering Graphics
   - ME22201 - Engineering Mechanics
   - GE22101 - Engineering Practices Laboratory

LIST OF VALUE ADDED COURSES

   - Introduction to Machine Learning
   - Green Energy Resources
   - Surface coating
   - New Product Development
   - Occupational Health and Safety Assessment series
   - Synthesis & Application of Nano Materials
   - Modern Microscopes and MEMS

- Advanced Materials Processing and Characterization
- L&T Online Courses
- Google Online Courses
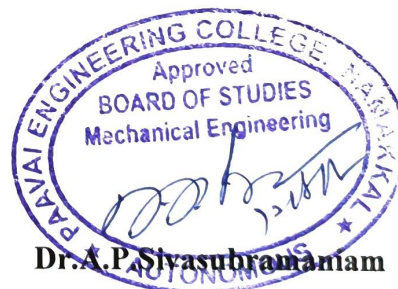- NPTEL Courses

LIST OF ONE CREDIT COURSES

- Non-Destructive Testing
- 3D CAD Design
- CNC Milling
- Solid Modeling
- Industrial Robotics
- Industrial Automation
- Fluid Simulation
- Computer Aided Reverse Engineering
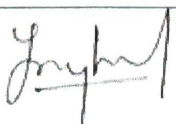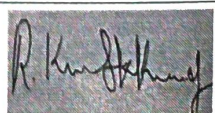- Drafting and Modelling

B.E. SAFETY AND FIRE ENGINEERING

1. ME22101 - Engineering Graphics
2. ME22201 - Engineering Mechanics
3. GE22101 - Engineering Practices Laboratory

- All the above 3 Courses have been approved by the members of the Board of Studies for 1st and 2nd Semesters of B.E. SAFETY AND FIRE ENGINEERING department.

The members of the Board of Studies also approved changing the Subject codes of 5th and 6th semesters to Regulations 2019.

Dr.A.P.Sivasubramaniam

HoD/ MECH – BoS (Chairman)

Position in the committee	University Nominee	Academic Expert	Academic Expert	Industry Expert	Alumni
Name & Designation	Dr. K. Shanmuga Sundaram, Prof/ Mech	Dr.K.Jayabal, ASP/ Mech	Dr.A.Vinoth Jebaraj, ASP/ Mech	Dr.K.Muruga Bhoopathy, General Manager	Mr.R.Kavin Sakkaravarthy, Plant Manager
e-Signature					

Re: PAAVAI ENGINEERING COLLEGE / Mechanical, 8th BOS Minutes Approval

K Jayabal <jayabal@iiitdm.ac.in>
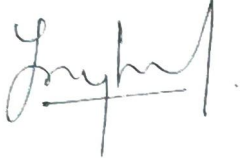Mon 22-08-2022 19:02

To: PEC MECH Hod <pecmechhod@paavai.edu.in>

Dear Professor,
Approved from my end. Also attached is my electronic signature as requested.
Each time before the signature is employed, you are requested to notify me and send the documents where it is placed, for my reference. Thank you.

Regards,
Jayabal

Dr. Jayabal K
Associate Professor and Head of Mechanical Engineering Department
Indian Institute of Information Technology Design and Manufacturing Kancheepuram
(An Institute of National Importance established by Govt. of India)
Chennai - 600 127, India, Phone: +91 44 2747 6362
http://iiitdm.ac.in/People/displayProfileFaculty.php?jayabal@iiitdm.ac.in

On Mon, 22 Aug 2022 at 15:29, PEC MECH Hod <pecmechhod@paavai.edu.in> wrote:
Respected Sir,
            Here with I have attached the 8th BoS , Minutes of meeting details for your kind perusal. Kindly go through it and approve the same. If any more suggestions share with me and also send your E-Signature.
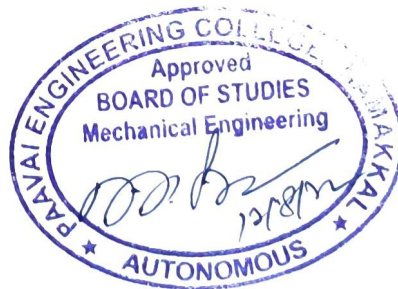Thank you,

With Regards

Dr. A.P.Sivasubramaniam.,M.E., Ph.D.
Head of the Department,
Department of Mechanical Engineering,
Paavai Engineering College,
Ph.No: 9842070288

Re: PAAVAI ENGINEERING COLLEGE / Mechanical, 8th BOS Minutes Approval

muruga bhoopathy kaliaperumal <kmbhoopathy@gmail.com>
Mon 22-08-2022 16:54
To: PEC MECH Hod <pecmechhod@paavai.edu.in>

Dear sir,

I have gone through the 8th BoS , Minutes of meeting details and MOM is approved from my side.

Note: Please find the attached signature.
Thank you,

Regards

Dr K Muruga Bhoopathy
GM, SAIL, Salem Steel Plant

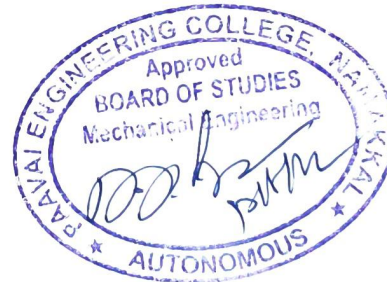On Mon, Aug 22, 2022 at 3:29 PM PEC MECH Hod <pecmechhod@paavai.edu.in> wrote:
Respected Sir,

Here with I have attached the 8th BoS , Minutes of meeting details for your kind perusal. Kindly go through it and approve the same. If any more suggestions share with me and also send your E-Signature.
Thank you,

With Regards

Dr. A.P.Sivasubramaniam.,M.E., Ph.D.
Head of the Department,
Department of Mechanical Engineering,
Paavai Engineering College,
Ph.No: 9842070288

Re: PAAVAI ENGINEERING COLLEGE / Mechanical, 8th BOS Minutes Approval

KAVIN SAKKARAVARTHY <kavinmech41@gmail.com>
Tue 23-08-2022 00:05
To: PEC MECH Hod <pecmechhod@paavai.edu.in>

Dear Sir,

I have gone through the attachment. I am approving the points and syllabus from my side.

Thanks & Regards,
R.Kavin Sakkaravarthy M.E.,
Plant Manager,
Ammega Belting India Pvt Ltd,
Chennai - 56

On Mon, 22 Aug 2022, 3:29 pm PEC MECH Hod, <pecmechhod@paavai.edu.in> wrote:
Respected Sir,

Here with I have attached the 8th BoS , Minutes of meeting details for your kind perusal. Kindly go through it and approve the same. If any more suggestions share with me and also send your E-Signature.
Thank you,

With Regards

Dr. A.P.Sivasubramaniam.,M.E., Ph.D.
Head of the Department,
Department of Mechanical Engineering,
Paavai Engineering College,
Ph.No: 9842070288
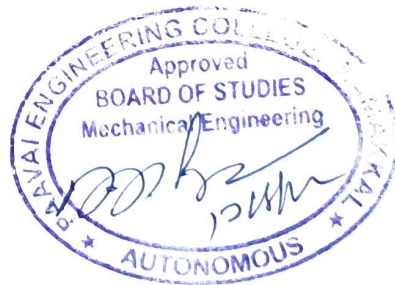
Fwd: Document from K Shanmuga Sundaram

K.Shanmuga Sundaram <drkshanmugasundaram@gmail.com>
Wed 24-08-2022 12:13
To: PEC MECH Hod <pecmechhod@paavai.edu.in>

📎 1 attachments (281 KB)
DOC-20220823-WA0033;

Dear SIr,

PFA the approved minutes of the BOS. You shall pursue further, please.

Bank Details are:

Name: K. Shanmuga Sundaram
Account Number: 10497039797
Bank: SBI Branch, Anna University
IFSC Code: SBIN0006463

Kind Regards,

Shan

Dr.K.Shanmuga Sundaram,
Professor in Mechanical Engineering,
Engineering Design Division, CEG Campus
&
Director, AU-FRG Institute for CAD/CAM
Anna University, Chennai.
Phone: 044 - 22358051, 22357654
Fax: 044 22357744
Mobile: +91 9940155773
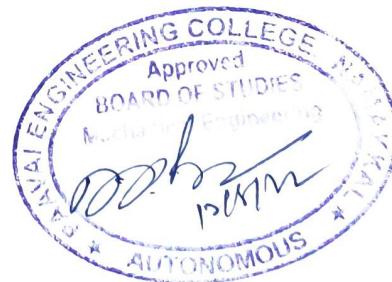
8th BOS Minutes.pdf

Re: **PAAVAI ENGINEERING COLLEGE / Mechanical, 8th BOS Minutes Approval**

A Vinoth Jebaraj <vjebaraj@gmail.com>
Mon 22-08-2022 16:07

To: PEC MECH Hod <pecmechhod@paavai.edu.in>

Dear Sir, I have given my approval for the minutes of the meeting of 8th BOS. Please find the attachment. Thanks & Regards.

On Mon, 22 Aug 2022 at 15:29, PEC MECH Hod <pecmechhod@paavai.edu.in> wrote:

Respected Sir,

Here with I have attached the 8th BoS , Minutes of meeting details for your kind perusal. Kindly go through it and approve the same. If any more suggestions share with me and also send your E-Signature.

Thank you,

With Regards

Dr. A.P.Sivasubramaniam.,M.E., Ph.D.
Head of the Department,
Department of Mechanical Engineering,
Paavai Engineering College,
Ph.No: 9842070288

Dr.A.Vinoth Jebaraj
Associate Professor
School of Mechanical Engineering
VIT University.
Vellore.
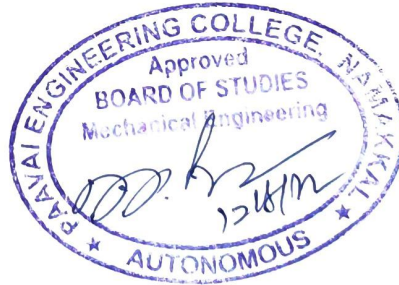
PAAVAI ENGINEERING COLLEGE

(Autonomous)

DEPARTMENT OF MECHATRONICS

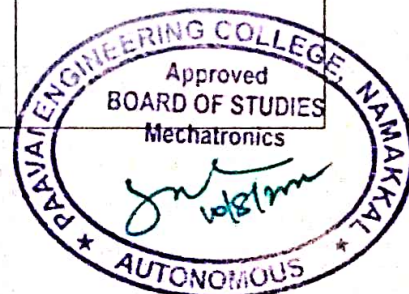### Minutes of Eighth Board of Studies Meeting

Venue: Online mode through Microsoft Teams Platform

Date and Time: 10.08.2022, 1.00 p.m.

Minutes of the Eighth Board of Studies meeting was held on August 10th at 1.00 p.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.	Dr.D.R.P. Rajarathnam	HOD & Prof / MCT	Chairman	Paavai Engineering College
2.	Dr.C. Balamurugan	Associate Professor	University Nominee	CEG Campus, Anna University, Chennai
3.	Dr.K. Balaji	Assistant Professor (Sr.) Grade 1	Academic Expert	Vellore Institute of Technology, Vellore
4.	Dr.P.M. Gopal	Assistant Professor	Academic Expert	Karpagam Academy of Higher Education, (Deemed to be University) Coimbatore
5.	Mr.T. Balavignesh	Design Engineer	Industry Expert	Karthigeya Moulds & Dies Pvt. Ltd. Chennai
6.	Mr.T. Balakrishnan	Procurement Officer – Parts & Accessories Division	Alumni	Isuzu Motors India Pvt Ltd, Chennai
7.	Mrs.G. Umamaheswari	ASP/EEE	Member	Paavai Engineering College
8.	Mr.S. Rajesh	ASP/CSE		
9.	Mr.N. Moorthi	AP/Civil		
10.	Dr.R.T. Ajaykarthik	ASP/MCT		
11.	Mr.R. Arunbabu	AP/MCT		
12.	Mr.S. Manikandan	AP/MCT		
13.	Mr.R. Karthick	AP/MCT		

AGENDA

1. Chairman / BoS welcomed all members for the 8th meeting of Board of Studies.
2. Chairman / BoS introduced the members to the Board of Studies.
3. Chairman / BoS briefed the members about agenda.

   1. Chairman / BoS discussed the status of implementation of 7th BoS suggestions to the members of Board of Studies.

   2. B.E. Mechatronics Passing of the following details:

      o Syllabi of seventh and eighth semester (academic year 2022-2023) for the batches of students admitted during the academic year 2019-2020 under Regulations 2019.

      o Syllabi of fifth and sixth semester syllabus (academic year 2022-2023) for the batches of students admitted during the academic year 2020-2021 onwards under Regulations 2019.

      o Syllabi of 5th, 6th ,7th and 8th semester for the batches of students admitted during the academic year 2020-2021 under Regulations 2019.

      o List of one credit courses for the UG Programme.

      o List of value-added courses for the UG Programme.

      o Amendments of Environmental Science and Engineering in 6th semester for the students admitted in the year 2021-2022 (as lateral entry) under Regulations 2019.

      o Examination pattern as per Anna University.

      o Amendments of Soft Skills I & II in 3rd & 4th Semester for the students admitted from 2021-2022 onwards under Regulations 2019.

      o Amendments of Soft Skills I & II in 5th & 6th Semester for the students admitted during 2020-2021 under Regulations 2019.

      o NPTEL / Swayam (Online courses).

      o Spoken Tutorial Courses.

   3. Any other matter.

4. The following are the suggestions given by the members of Board of Studies:

UG Curriculum and Syllabi

The members of the board suggested the following:

- **MT19701 - Computer Integrated Manufacturing:**
  - ✓ Course objectives may be modified.

- **MT19706 & MT19802 – Project Work (Phase I) & Project Work (Phase II):**
  - ✓ Industrial projects may be entertained.
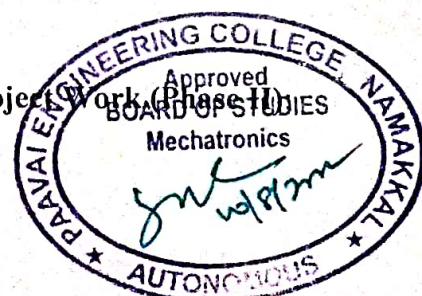
- **MT19452 – Renewable Energy Sources:**
  - ✓ Syllabus contents of Unit IV and Unit V was heavy, so members suggested to reduce.
- **MT19554 – Industrial Engineering:**
  - ✓ Unit IV – Include ABC analysis, Stores and material control related contents.
- **MT20504 - Control Systems:**
  - ✓ Syllabus contents of Unit I, Unit III and Unit V was reduced.
- Amendments for Mandatory course approval for the Regulations 2019 (2020-2021 admitted candidates, lateral entry), Environmental Science and Engineering for 6th semester.
- Other courses approved in 7th BoS are applicable to the 5th and 6th semester with code change for 2020 admitted candidates of Regulations 2019.
- 7th and 8th semester syllabi approved for the students admitted during the academic year 2020-2021 under Regulations 2019 with code change.
- Curriculum of UG Programme can be modified as per the suggestions given.

List of courses Newly introduced for the UG Programme.

1. MT19703 - Micro Electro Mechanical System
2. MT19801 - Autotronics and Vehicle Intelligence
3. MT19351 - Bio Mechatronics
4. MT19353 - Optimization Techniques
5. MT19451 - Drone Technology
6. MT19551 - Artificial Intelligence and Machine Learning
7. MT19553 - Electric and Hybrid Vehicles
8. MT19651 - Industrial Internet of Things
9. MT19652 - Finite Element Analysis
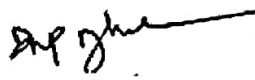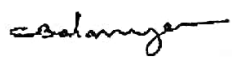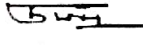10. MT19904 - Introduction to Mechatronics

List of one credit courses for the UG Programme.

S. No	Course Code	Course Title
1	MT20951	Maintenance and troubleshooting of hydraulic system
2	MT20952	SCADA
3	MT20953	CATIA-V5
4	MT20954	PLC Programming
5	MT20955	Control of Motors Using Special Drives
6	MT20956	Robot Programming Certification
7	MT20957	Control Panel and Wiring

List of value-added courses for the UG Programme.

S. No	Course Title
1	Solidworks
2	Creo (Sketching, Part Design, Assembly, Drafting) Latest Version
3	Non-Destructive Testing
4	Training on PLC and SCADA
5	LabVIEW
6	EdgeCAM

5. Chairman/BOS thanked all the members for their active participation, suggestions and contribution made for recommending the B.E. Mechatronics, the syllabi of UG 7th and 8th semester for the students admitted during 2019-2020, UG curriculum and syllabi of 5th, 6th, 7th and 8th semester for 2020-2021 admitted students to the academic council.

Position in the committee	Chairman	University Nominee	Academic Expert 1	Academic Expert 2	Industry Expert	Alumni
Name & Designation	Dr.D.R.P.Rajarathnam & HOD & Prof / MCT	Dr. C. Balamurugan & Associate Professor	Dr. K.Balaji & Assistant Professor (Sr.) Grade 1	Dr.P.M.Gopal & Assistant Professor	Mr.T. Balavignesh & Design Engineer	Mr.T. Balakrishnan & Procurement Officer-Parts& Accessories Division
e-Signature						

PAAVAI ENGINEERING COLLEGE
(Autonomous)
DEPARTMENT OF MEDICAL ELECTRONICS ENGINEERING

Minutes of Fifth Board of Studies Meeting
Venue: Online mode through Microsoft Teams platform
Date and Time: 06.08.2022, 10.30 a.m

Minutes of Fifth Board of Studies meeting held on August 6th 2022 at 10.30 a.m through online mode using Microsoft Teams platform.

The following members were present

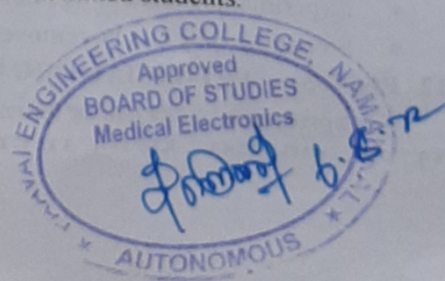|	Name	Designation	Position in committee	College/University/Industry
1	Dr. T. Arunkumar	Professor and Head, Medical Electronics	Chairman	Paavai Engineering College
2	Dr. M. Ganesh Madan	Professor and Head, Department of ECE	University Nominee	Madras Institute of Technology, Chennai
3	Dr. V. G. Sangam	Principal	Academic Expert	B.L.D.E.A's V.P. Dr P.G.H College of Engineering & Technology, Vijayapur.
4	Dr. Vanithamani. R	Professor, Department of Biomedical Instrumentation Engineering	Academic Expert	Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore.
5	Mr. S. Kumar	Manager, Medical Electronics	Industrial Expert	TMI Systems, Bangalore.
6	Mr. D.Murugesan	Associate Professor/ Medical Electronics		
7	Ms. N. Jayanthi	Associate Professor/ Medical Electronics		
8	Ms. S. Senthamil	Asst.Professor/ Medical Electronics		
9	Ms. B. Niranajna Devi	Asst.Professor/ Medical Electronics	Members	Paavai Engineering College
10	Ms. F. Sharmila Banu	Asst.Professor/ Medical Electronics		

AGENDA

The following agenda are discussed

1. Chairman –BoS introduced the members of the Board of Studies,
2. Chairman –BoS briefed the members about the agenda
3. The Curriculum and syllabus (CBCS) under R2019, 7th and 8th semester for the students admitted in the academic year 2019-2020
4. The Curriculum and syllabus under R2019 (CBCS) 5th and 6th semester syllabus for the students admitted in the academic year 2020-2021
5. The list of one credit courses under R 2019
   AMENDMENTS:
   - EVS for lateral entry students – VI semesters
   - Examination pattern, degree classification and Grading for 2021-2022 admitted students.
   - One credit course (soft skills I and II)
   - The list of Value added courses under R 2019.
   - Panel of examiners as follows,

S.No	Name of The Examiner	College Name
1	Mr.R.Prabu, Department of Biomedical Engineering	Velalar college of engineering and Technology (Autonomus) Erode.
2	Dr. K. Prabakar, Professor and Head, Department of Biomedical Engineering.	Sona College of technology (Autonomus), Salem.
3	Dr. Balasubramaniam.T, Professor, Department of Biomedical Engineering.	Segunthur Engineering college (Autonomus), Erode.
4	Mr. M.Manikandan, Associate Professor, Department of Biomedical Engineering.	Sona College of technology (Autonomus), Salem
5	Prof. Muhammaedu Sadhik Raja, Professor and Head, Department of Medical Electronics.	Segunthur Engineering college (Autonomus), Thiruchengode.
6	Dr. Rajalaxmi. S, Associate Professor and Head	Mahendra College of Enginnering, Salem.
7	Dr. Selvam. K, Assistant Professor	Mahendra College of Enginnering, Salem.
8	Dr. M. Prabhu, Associate Professor and Head, Department of Biomedical Engineering	Mahendra Institute of Technology (Auonomus), Erode.

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

R 2019 - CURRICULUM & SYLLABUS:

1. **PC - MD19702 - MEDICAL IMAGE PROCESSING**
   - To include biomedical related applications in last unit
   - To include 3D Imaging.
2. **PC – MD19703 – MEDICAL INFORMATICS**
   - To elaborate with medical codes related to ISO, Indian Regulation Standards (2017), Medical Regulation of India in unit 3.
3. **PC – MD19704 –FUNDAMENTALS OF BIOMEDICAL NANOTECHNOLOGY**
   - To rename Unit 5 topic as applications of nanotechnology in biomedical instead of nanotechnology in biomedical industry.
4. **PE – MD19351 – SMART WEARABLE SYSTEM**
   To replace the topic wireless health systems by protocols in health system in unit 4.
5. **PE – MD19352- REHABILITATION ENGINEERING**
   - To change the title as concepts in sensory rehabilitation engineering in unit 2.
   - To change the title as Prosthetics and orthotics in unit 3.
   - To include legal aspect of Rehabilitation Amputation in unit 5.
6. **PE – MD19353–INTRODUCTION TO CLOUD COMPUTING**
   - Course title to be renamed as cloud computing for healthcare.
   - Unit 4 and 5 need to add more healthcare related contents.
7. **PE – MD19354 – PHYSIOLOGICAL MODELING**
   - In unit 5 introduction to digital control systems to be removed.
8. **PE – MD19451 –MEDICAL DEVICES REGULATION**
   - To change Unit 4 title as standards and regulations
   - Indian medical regulations to be included in syllabus.
9. **PE – MD19452 – ARTIFICIAL INTELLIGENCE IN BIOMEDICAL ENGINEERING.**
   - To change Course name as Artificial Intelligence in health care.
   - Learning algorithms need to be added.
10. **PE – MD19352 - ELECTRICAL SAFETY AND QUALITY ASSURANCE IN HEALTHCARE**
    - Unit 2 contents to be reframed.
11. **MD19704 - MEDICAL IMAGE PROCESSING LAB**
    - Experiments meant to be related to medical images.
    - Steganography can be removed and replaced with water masking experiment.
12. **PE19551 – ARTIFICIAL ORGANS AND IMPLANTS**
    - Springer e-books can be taken as reference books.

2

13. PE – MD19553 – MEDICAL ETHICS STANDARDS AND SAFETY
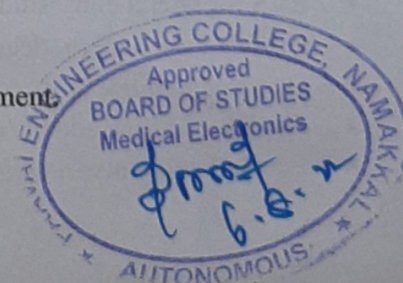
- To include ISO 13485 regulations

14. **PE – MD19554 – EMBEDDED SYSTEM & IoT IN HEALTH CARE**
   - To rename Unit 3 title as IoT devices
   - To rename Unit 4 title as IoT communication protocols.
   - To include in Unit 5 healthcare applications are suggested and to remove smart agriculture and smart cities.

15. **PE – MD19651 – VIRTUAL BIOINSTRUMENTATION**
   - Healthcare applications can be included instead of Virtual Instrumentation applications.

16. **PE – MD19652 – DIGITAL VIDEO PROCESSING**
   - To interchange Motion estimation as unit 3 and video analysis and tracking as unit 4.

17. **PE – MD19653 – QUALITY CONTROL IN BIOMEDICAL ENGINEERING**
   - To rename Unit 2 title as Quality Development instead of Development System in Quality.

18. **PE - MD19654 – BRAIN COMPUTER INTERFACE AND ITS APPLICATIONS**
   - The course is suggested to be a core subject.

GENERAL DISCUSSIONS:

- Hospital Training, Project Phase I, Project Phase II, Bio signal Processing Laboratory and Diagnostic and Therapeutic Equipment Laboratory – course objectives relevant to course outcomes are discussed and got approved respectively.
- One credit course is discussed and approved.
- Value added courses are discussed and approved.
- Discussions regarding R 19 (19-20), R 19 (20-21) are made and clarified.

UG Regulations 2019 (Amendments)

To include **Environmental Science and Engineering** in 6th semester of regulation 2019 for the students admitted in the year 2020-2021 and to include in the 4th semester of regulation 2019 for the students admitted in the year 2021-2022 onwards.

Name list of students readmitted in VII sem 2022 and III sem 2022

S.no	Register no	Name of the student
1	20110016	M. RAGHUL
2	18110005	M. HARISH DEVA

Examination pattern for relative grading:

Anna University- Uniform Evaluation Method of Students based on Relative Grading – Letter No.4040/AU/CAC/Relative Grading/2022 dated on 25.6.22 is followed for the students admitted in the year 2021-2022.

List of one credit courses

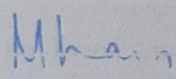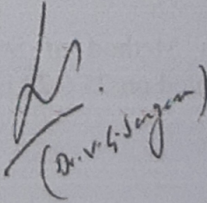| S.No	COURSE CODE	COURSE NAME
1	BM19951	Embedded Programming using ARDUINO
2	BM19952	PC Hardware Assembling and Troubleshooting
3	BM19953	Basic Electronic Circuit Design using Multisim
4	BM19954	MATLAB Programming
5	BM19955	Lab view Programming

3
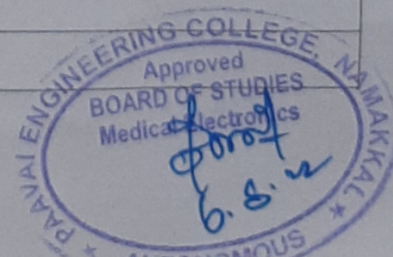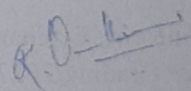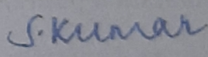
6	BM19956	Open source programming using Linux
7	BM19957	PCB Design using KICAD EDA Tool
8	BM19958	VHDL Programming
9	NPTEL	NPTEL – Swayam – 4 Weeks Course.
10	CDL	Soft Skills I and II - Grade equivalence for 2nd Year students.

List of value added courses

S.No	COURSE NAME
1	Machine Learning
2	Internet of Things
3	Circuit Design & PCB Fabrication
4	Raspberry Pi
5	Artificial Intelligence using MATLAB
6	Embedded systems using Code Composer Studio

The above suggestions were given by the members and approved the syllabi for the 7th and 8th semester of 2019-2020 admitted students, 5th 6th 7th and 8th semester of 2020-2021 admitted students of regulations 2019 (CBCS) ,value added course and panel of examiners.

Position in the committee	Chairman	University Nominee	Academic Expert 1	Academic Expert 2	Industry Expert
Name & Designation	Dr. T. Arunkumar Professor & Head, MDE	Dr. M. Ganesh Madan Professor, ECE Madras University	Dr. V. G. Sangam Principal, B.L.D.E.A'S V.P Dr. P.G.H College of Engineering.	Dr. Vanithamani.R Professor, Department of Biomedical Instrumentation Engineering	Mr. S. Kumar TMI Systems, Bangalore.
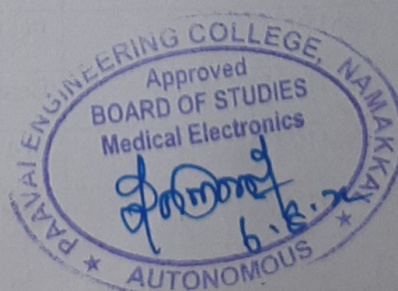
Chairman

PAAVAI ENGINEERING COLLEGE (Autonomous)

DEPARTMENT OF MECHANICAL ENGINEERING

Programmes: B.E. SAFETY AND FIRE ENGINEERING & B.E. ROBOTICS AND AUTOMATION

Minutes of the 1st Board of Studies Meeting

Venue: Department of Mechanical Engineering

Date and Time: 18.10.2022, 02.00 PM

Members Present

S.NO	NAME	POSITION IN THE COMMITTEE	COLLEGE / UNIVERSITY / INDUSTRY
1.	Dr.A.P.Sivasubramaniam, HoD & Prof/Mechanical	Chairman	Paavai Engineering College.
2.	Dr. K. Shanmuga Sundaram, Prof/Mechanical	University Nominee	Department of Mechanical Engineering, Anna University, Chennai-600 025.
3.	Dr.K.Jayabal, ASP/Mech	Academic Expert	Department of Mechanical Engineering, IIITDM, Kancheepuram-600127.
4.	Dr.S.P.Sivapirakasam, Professor/Mechanical	Academic Expert	Department of Mechanical Engineering, NIT –Trichy.
5.	Dr.M.Premkumar, Principal	Members	Paavai Engineering College
6.	Dr.K.K.Ramasamy, Prof/ Mech		
7.	Dr.K.Sundara Murthy, Dean - Academics		
8.	Dr.V.Subburam, Prof/ Mech		
9.	Dr.M.Makesh, Prof/ Mech		
10.	Dr.S.Maniraj, ASP/Mech		
11.	Dr.K.Muruga Bhoopathy, General Manager	Industry Expert	Salem Steel Plant, SAIL, Salem.

Minutes of the Board of Studies Meeting
Venue: Department of Mechanical Engineering
Date and Time: 18.10.2022, 02.00 PM

1. Chairman / BoS welcomed all the members to the 1st Board of Studies meeting for the Programmes of 'B.E. - Safety and Fire Engineering' and 'B.E. - Robotics and Automation'.

2. Chairman / BoS introduced the members to the Board of Studies.

3. Chairman / BoS briefed the members about the **agenda**.

The Board of Studies for the Programmes of 'B.E. - Safety and Fire Engineering' and 'B.E. - Robotics and Automation' conducted for Passing of the following details:

B.E. Safety and Fire Engineering &

B.E. Robotics and Automation:

> Curriculum and Syllabi of First and Second semester & Curriculum of third to Eighth semester for the batch of students admitted in 2022-2023 under Regulations 2019.

Panel of Examiners:

S.No	Name of the Examiners	College Name
1.	Prof.P.MURUGANANDHAM	Mahendra Institute of Technology, Tiruchengode
2.	Prof.A.RVENKATARAMANAN	Sona College of Technology, Salem
3.	Dr.V.M.MADHAVAN	Sona College of Technology, Salem
4.	Prof.S.KARTHIK	PSNA College of Engineering and Technology, Dindigul
5.	Prof.T.RAMAKRISHNAN	PSNA College of Engineering and Technology, Dindigul
6.	Dr.R.BOOPATHI	Mahendra Engineering College, Tiruchengode
7.	Prof .H.VINOTHKUMAR	M.Kumarasamy College of Engineering, Karur
8.	Dr.S.DHANABALAN	M.Kumarasamy College of Engineering, Karur
9.	Prof.L.EMMANUVEL	M.Kumarasamy College of Engineering, Karur
10.	Dr.R.PRAKASH	Velalar College of Engineering and Technology, Erode
11.	Dr.S.JAYAPRAKASAM	K.S.Rangasamy College of Technology, Tiruchengode
12.	Prof.G.BALAJI	PSNA College of Engineering and Technology, Dindigul
13.	Dr.R.SENTHILRAJA	Institute of Road and Transport Technology, Erode
14.	Dr.M.PALPANDI	PSNA College of Engineering and Technology, Dindigul

The following are the suggestions given by the members of Board of Studies.

- Students are studying more mathematics subjects, in place of mathematics, Elective subjects of the particular department could be included.
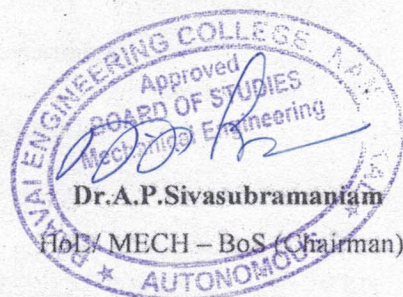
- **B.E Robotics and Automation** – In 3rd semester the name of the subject "Robot Kinematics" can be simply changed as "Kinematics of Mechanisms", because "Robot Kinematics" involves more complex contents.
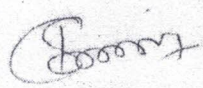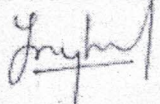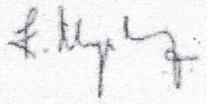
B.E. SAFETY AND FIRE ENGINEERING &
B.E. ROBOTICS AND AUTOMATION

1. ME20101 - Engineering Graphics
2. ME20201 - Engineering Mechanics
3. GE20101 - Engineering Practices Laboratory

- All the above 3 Courses of 1st and 2nd Semesters along with the curriculum from 3rd semester to 8th semester for the Programmes of B.E Safety and Fire Engineering & B.E Robotics and Automation have been approved by the members of the Board of Studies.

Dr.A.P.Sivasubramaniam

HoD/ MECH – BoS (Chairman)

Position in the committee	University Nominee	Academic Expert	Academic Expert	Industry Expert
Name & Designation	Dr. K. Shanmuga Sundaram, Professor/Mechanical	Dr.K.Jayabal, ASP/ Mechanical	Dr.S.P.Sivapirakasam, Professor/Mechanical	Dr.K.Muruga Bhoopathy, General Manager
e-Signature				

Re: PAAVAI ENGINEERING COLLEGE / Mechanical Board : Programmes of 'B.E. - Safety and Fire Engineering' and 'B.E. - Robotics and Automation' 1st BOS Minutes Approval

K Jayabal <jayabal@iiitdm.ac.in>

Wed 26-10-2022 18:37

To: PEC MECH Hod <pecmechhod@paavai.edu.in>

Cc: kmbhoopathy@gmail.com <kmbhoopathy@gmail.com>;drkshanmugasundaram@gmail.com <drkshanmugasundaram@gmail.com>;spshivam@nitt.edu <spshivam@nitt.edu>

The minutes are fine with me Professor.

Regards,
Jayabal

Dr. Jayabal K

Associate Professor and Head of Mechanical Engineering Department

Indian Institute of Information Technology Design and Manufacturing Kancheepuram

(An Institute of National Importance established by Govt. of India)

Chennai - 600 127, India, Phone: +91 44 2747 6362

http://iiitdm.ac.in/People/displayProfileFaculty.php?jayabal@iiitdm.ac.in

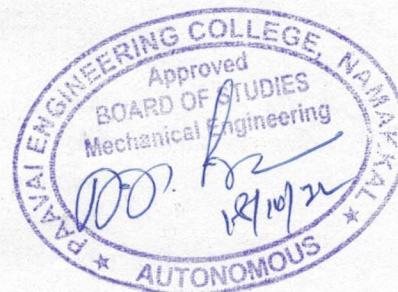On Wed, 26 Oct 2022 at 15:49, PEC MECH Hod <pecmechhod@paavai.edu.in> wrote:

Respected Sir,

       Please find attached the details of 1st BoS , Minutes of meeting for the Programmes of 'B.E. - Safety and Fire Engineering' and 'B.E. - Robotics and Automation' under the Mechanical Board for your kind perusal. Kindly go through the details and approve the same. If any more suggestions share with me and also send your E-Signature.

Thank you,

With Regards

Dr. A.P.Sivasubramaniam.,M.E., Ph.D.
Head of the Department,
Department of Mechanical Engineering,
Paavai Engineering College,
Ph.No: 9842070288

Re: PAAVAI ENGINEERING COLLEGE / Mechanical Board : Programmes of 'B.E. - Safety and Fire Engineering' and 'B.E. - Robotics and Automation' 1st BOS Minutes Approval

K.Shanmuga Sundaram <drkshanmugasundaram@gmail.com>
Wed 26-10-2022 16:53
To: PEC MECH Hod <pecmechhod@paavai.edu.in>

Dear Sir,

I have gone through the minutes. It shall be considered approved..

Kind Regards,

Shan

On Wed, Oct 26, 2022, 3:49 PM PEC MECH Hod <pecmechhod@paavai.edu.in> wrote:

Respected Sir,

Please find attached the details of 1st BoS , Minutes of meeting for the Programmes of '**B.E. - Safety and Fire Engineering**' and '**B.E. - Robotics and Automation**' under the Mechanical Board for your kind perusal. Kindly go through the details and approve the same. If any more suggestions share with me and also send your E-Signature.

Thank you,

With Regards

Dr. A.P.Sivasubramaniam.,M.E., Ph.D.
Head of the Department,
Department of Mechanical Engineering,
Paavai Engineering College,
Ph.No: 9842070288
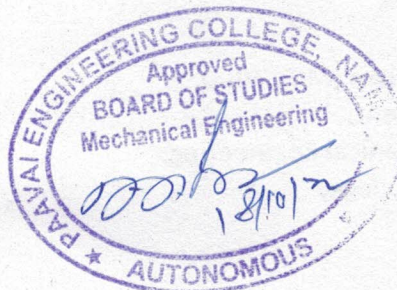
Fwd: PAAVAI ENGINEERING COLLEGE / Mechanical Board : Programmes of 'B.E. - Safety and Fire Engineering' and 'B.E. - Robotics and Automation' 1st BOS Minutes Approval

muruga bhoopathy kaliaperumal <kmbhoopathy@gmail.com>

Thu 27-10-2022 13:46

To: PEC MECH Hod <pecmechhod@paavai.edu.in>

📎 1 attachments (3 KB)

signature.jpg;

pecmechhod@paavai.edu.in

---------- Forwarded message ---------
From: **muruga bhoopathy kaliaperumal** <kmbhoopathy@gmail.com>
Date: Thu, Oct 27, 2022 at 11:31 AM
Subject: Re: PAAVAI ENGINEERING COLLEGE / Mechanical Board : Programmes of 'B.E. - Safety and Fire Engineering' and 'B.E. - Robotics and Automation' 1st BOS Minutes Approval
To: K Jayabal <jayabal@iiitdm.ac.in>

Dear sir,

With reference to the Board of Studies Meeting held on 18.10.2022, Curriculum and Syllabi of First and Second semester & Curriculum of third to Eighth semester for the batch of students admitted in 2022-2023 under Regulations 2019 for B.E. Safety and Fire Engineering & B.E. Robotics and Automation may be approved.

Regards

Dr K Muruga Bhoopathy

GM, Salem Steel Plant, SAIL

On Wed, Oct 26, 2022 at 6:37 PM K Jayabal <jayabal@iiitdm.ac.in> wrote:
The minutes are fine with me Professor.

Regards,
Jayabal

Dr. Jayabal K
Associate Professor and Head of Mechanical Engineering Department
Indian Institute of Information Technology Design and Manufacturing Kancheepuram
(An Institute of National Importance established by Govt. of India)
Chennai - 600 127, India, Phone: +91 44 2747 6362
http://iiitdm.ac.in/People/displayProfileFaculty.php?jayabal@iiitdm.ac.in
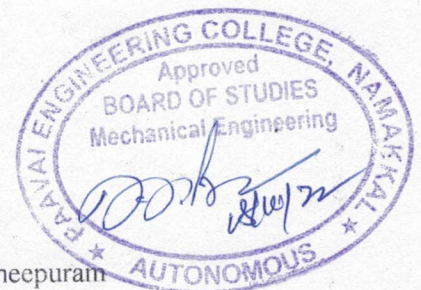
On Wed, 26 Oct 2022 at 15:49, PEC MECH Hod <pecmechhod@paavai.edu.in> wrote:

Re: PAAVAI ENGINEERING COLLEGE / Mechanical Board : Programmes of 'B.E. - Safety and Fire Engineering' and 'B.E. - Robotics and Automation' 1st BOS Minutes Approval

spshivam@nitt.edu <spshivam@nitt.edu>

Thu 27-10-2022 15:55

To: PEC MECH Hod <pecmechhod@paavai.edu.in>

Dear Sivasubramaniam,

I confirmed the minutes.

With Regards,

Dr.S.P.Sivapirakasam
Professor
Department of Mechanical Engineering
National Institute of Technology, Trichy

Quoting PEC MECH Hod <pecmechhod@paavai.edu.in>:

> Respected Sir,
>   Please find attached the details of 1st
> BoS , Minutes of meeting for the Programmes of 'B.E. - Safety and
> Fire Engineering' and 'B.E. - Robotics and Automation' under the
> Mechanical Board for your kind perusal. Kindly go through the
> details and approve the same. If any more suggestions share with me
> and also send your E-Signature.
>
> Thank you,
>
>
>
> With Regards
>
> Dr. A.P.Sivasubramaniam.,M.E., Ph.D.
> Head of the Department,
> Department of Mechanical Engineering,
> Paavai Engineering College,
> Ph.No: 9842070288
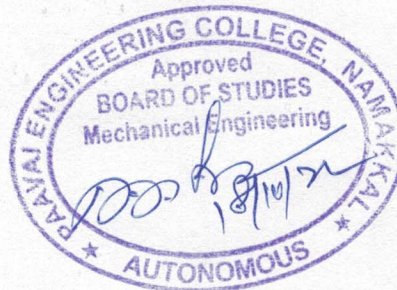
PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF BIOTECHNOLOGY

MINUTES OF THE FIRST BOARD OF STUDIES MEETING

(ONLINE MODE)

15.10.2022&11.00 AM

MEMBERS PRESENT:

S.NO	NAME & DESIGNATION	POSITION IN COMMITTEE	COLLEGE/UNIVERSITY/INDUSTRY
1.	Dr. S. Kailash Professor /Food Technology	Chairman	Paavai Engineering College
2.	Mr.R. Balasubramani Professor / Food Technology	Head of the Department	Paavai Engineering College
3.	Dr. B. S. Lakshmi, Professor, Department of Biotechnology	University Nominee	Anna University, Chennai
4.	Dr. Jaganmohan, Professor and Head	Academic Expert	IIFPT, Thanjavur
5.	Dr. J. Prakash Maran, Associate Professor, Department of Food and Nutrition	Academic Expert	Periyar University, Salem
6.	Mr. C. Manivannan, Managing Director	Industrial Expert	Fibro Foods Private Ltd., Salem
7.	Mrs.M.R. Mahalakshmi ASP/Food Technology	Member	Paavai Engineering College
8.	Mr. S. Gowtham Kumar, AP/ Food Technology	Member	
9.	Mr. M.D.S. Rajaruban, AP/ Food Technology	Member	
10.	Ms.V.Thabitha Zelin Rachel, AP/ Food Technology	Member	

11.	Ms. R. Rajeswari, AP/Food Tech	Member	
12.	Dr. Shanthi Prof & Head / Department of English	Member	
13.	Dr. P. Jayakumar, Professor & Head, Department of Mathematics	Member	
14.	Dr. Raja Ganesan Prof & Head /Chemistry	Member	
15.	Mrs.S.Kavitha, Associate Professor & Head Department of Physics	Member	

AGENDA

- To discuss about B. Tech – Biotechnology curriculum for the UG Students admitted from the academic year 2022-2023 of R2019.
- To discuss the 1st and 2nd semester Syllabus of UG Students admitted from the academic year 2022-2023 of R2019.
- To discuss to include Environmental Science and Engineering in 4th semester of Regulations 2019 from the academic year 2022-2023. (for lateral entry).
- Anna University – Uniform Evaluation Method of Students based on Relative Grading
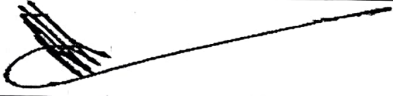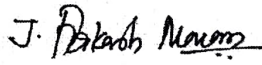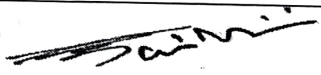
Suggestions by the members

1. Discussed about the second semester Professional Core, instead of BT 20201- Bioorganic Chemistry and after the discussion it has to be changed to BT 20201- Introduction to Biotechnology.

2. The VI semester -Industrial Biotechnology course has been changed to Basic Industrial Biotechnology and it should be shifted to IV semester.

3. In V semester – Enzyme Technology should be brought to VI semester, and Thermodynamics for Biotechnologist from IV semester will be shifted to V

semester, to reduce the weightage as the suggestion given by the BOS members.

4. In professional elective, from Professional Elective-I (Metabolic Engineering) shift to Professional Elective- V (Plant Biotechnology) and vice versa.

5. The Environmental Science and Engineering in 6th semester of Regulations 2019 for the students admitted from the academic year 2022-2023 and to include in 4thsemester of Regulations 2019 for the students admitted in the year 2022-2023 onwards. (For lateral entry only).

The above suggestions given by the members and approved the syllabi for the 1st and 2nd Semester of 2022-2023 admitted students of Regulations 2019(CBCS), and curriculum for 1st to 8th semester.

Position in the Committee	Name & Designation	e-Signature
University Nominee	Dr. B. S. Lakshmi, Professor	
Academic Expert	Dr. Jaganmohan, Professor and Head	
Academic Expert	Dr. J. Prakash Maran, Associate Professor	
Industrial Expert	Mr. C. Manimaran, Managing Director	
Chairman	Dr. S. Kailash Professor /Food Technology	

PAAVAI ENGINEERING COLLEGE, NAMAKKAL

(AUTONOMOUS)

DEPARTMENT OF CHEMICAL ENGINEERING

MINUTES OF THE EIGHTH BOARD OF STUDIES MEETING

(ONLINE MODE)

11.08.2022 & 10.00 AM

The eighth board of studies meeting for department of Chemical Engineering was conducted on 11.08.2022 at 11.00 a.m through online mode.

MEMBERS PRESENT:

S.NO	NAME & DESIGNATION	POSITION IN COMMITTEE	COLLEGE/UNIVERSITY/INDUSTRY
1.	Mr. R.Balasubramani Prof.&Head/ Chemical Engineering	Chairman	Paavai Engineering College
2.	Dr. K.V. Radha Professor / Chemical Engineering	University Nominee	Anna University, Chennai
3.	Dr. N. Selvaraju Associate Professor / Biosciences & BioEngineering	Academic Expert	IIT, Guwahati
4.	Mr. S. Saravanan CEO	Industrial Expert	Enviro Tech Pvt. Ltd, Tirupur
5.	Dr. K. Sundramoorthy Professor& IQAC-Head	Member	
6.	Dr. K. Gopi ASP/Chemistry	Member	
7.	Dr. K. Maruthathurai AP/Chemical	Member	Paavai Engineering College
8.	Mrs. S. Nivedha AP/Chemical	Member	

Approved
BOARD OF STUDIES
Chemical Engineering

9.	Mr. T.Udhayatheran AP/Chemical	Member	
10.	Dr. R.Shanthi Prof & Head /English	Member	
11.	Dr. G.Balaji Prof & Head /EEE	Member	

AGENDA

1. The Curriculum and syllabus for the 7th and 8th semester of Regulations 2019 (For the students admitted during the academic year 2019-2020)

2. The Curriculum and syllabus for the 5th to 8th semester of Regulations 2019 (For the students admitted from the academic year 2020-2021 onwards)

3. Added Soft skills I & II(laboratory course) in 3rd &4th Semester of R 2019(CBCS) for the students admitted from 2021-2022 onwards

4. List of one credit and value-added courses.

5. Panel of examiners.

Suggestions by the members

The members suggested the following points:

- The Professional Elective –III CM19354-Downstream processing- Bio-separation topics can be included in Unit V.

- CM19704-Chemical Process Equipment Design Laboratory – Remove Basic and General term.

- CM19904- Composite Materials- Include topics on Nano fillers.

- CM19454- Energy Management in Chemical Industries –Add text book relevant to Fuel Cells.

- CM19553-Fertilizer Technology- Collins Fertilizer handbook can be added as text/ reference book.

- CM19651-Piping Engineering- Safety in piping topic to be included.

- CM19653 - Risk And Safety Management System in Process Industries- Risk related topics can be added in Unit-V.

- CM20403-Process Organic synthesis Syllabus revised and approved for the students admitted in the year 2021-2022 onwards.

- Second semester mandatory course- MC20201 Environmental Science and Engineering for the lateral entry students of 2020-2021 admitted students were discussed.

- Examination pattern for relative grading: Anna University – Uniform evaluation method of students based on relative grading- Letter No. 4040/AU/CAC/ Rel. Grading/2022 dated on 25.06.2022 for the students admitted in the year 2021-2022 onwards.

Amendments:

- CM20403-Process Organic synthesis Syllabus revised and approved for the students admitted in the year 2021-2022 onwards.

List of new Courses:

CM19351-Frontiers of Chemical Engineering

CM19354-Downstream Processing

CM19454-Energy management in Chemical Industries

CM19551-Nuclear Engineering

CM19554-Disaster management

CM19651-Piping Engineering

CM19652-Surface Coating Technology

CM19653-Risk and safety management in process industries

CM19654-Industrial Biotechnology

List of One Credit Courses:-

S. No	Course Code	Course Title
1	OCCM20951	Introduction to Fuel Cell Technology
2	OCCM20952	Insight to Hydrogen as Fuel
3	OCCM20953	Introduction to Petrochemicals
4	OCCM20954	Chemicals and Health
5	OCCM20955	Nanomaterials for Energy and Environmental
6	OCCM20956	Outline to Biomaterials
7	OCCM20957	Computer Applications in Chemical Engineering
8	OCCCM20958	Pinch Technology
9	OCCCM20959	Polymeric Materials
10	OCCCM20960	Fabrication of Polymer Materials
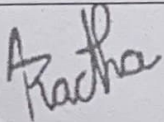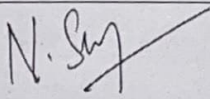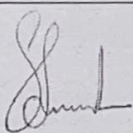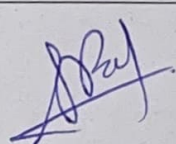
List of Value Added Courses:-

S. No	Course Code	Course Title
1.	22CMVC301	Industrial hazard Management
2.	22CMVC401	Analytical techniques for Agro- Chemicals
3.	22CMVC501	AutoCAD for Chemical Engineers
4.	22CMVC601	Testing of Petroleum products
5.	22CMVC701	Phytochemical Analysis
6.	22CMVC801	Simulation software for Process Engineers

The above suggestions were given by the members and approved the syllabi for the 7th and 8th Semester of 2019-2020 admitted students of Regulations 2019 (CBCS), 5th to 8th semester of 2020-2021 admitted students of Regulations 2019 (CBCS), one credit courses, value added courses and panel of examiners.

| Position in the committee	University Nominee	Academic Expert	Industrial Expert	Chairman
Name & Designation	Dr. K.V. Radha Professor / Chemical Engineering Anna University, Chennai	Dr. N. Selvaraju Associate Professor / Dept. of Bioscience & BioEngineering IIT, Guwahati	Mr. S. Saravanan CEO Enviro Tech Pvt. Ltd, Tirupur	Mr. R.Balasubramani Prof.&Head/ Chemical Engineering
e-Signature				

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF FOOD TECHNOLOGY

MINUTES OF THE FIFTH BOARD OF STUDIES MEETING

(ONLINE MODE)

04.08.2022&11.00 AM

The fifth board of studies meeting for department of Food Technology was conducted on 04.08.2022 at 11.00a.m through online mode.

Members Present

| S.NO	NAME & DESIGNATION	POSITION IN COMMITTEE	COLLEGE/UNIVERSITY/INDUSTRY
1.	Dr. S. Kailash Professor /Food Technology	Chairman	Paavai Engineering College
2.	Mr.R.Balasubramani Professor / Food Technology	Head of the Department	Paavai Engineering College
3.	Dr.K.Sundara Murthy Professor	Dean Academics	Paavai Engineering College
4.	Dr. B. S. Lakshmi, Professor, Department of Biotechnology	University Nominee	Anna University, Chennai
5.	Dr. Jaganmohan, Professor and Head	Academic Expert	IIFPT, Thanjavur
6.	Dr. J. Prakash Maran, Associate Professor, Department of Food and Nutrition	Academic Expert	Periyar University, Salem
7.	Mr. C. Manimaran, Managing Director	Industrial Expert	Fibro Foods Private Ltd., Salem
8.	Mrs.M.R. Mahalakshmi ASP/Food Technology	Member	
9.	Mr. S. Gowtham Kumar, AP/ Food Technology	Member	Paavai Engineering College
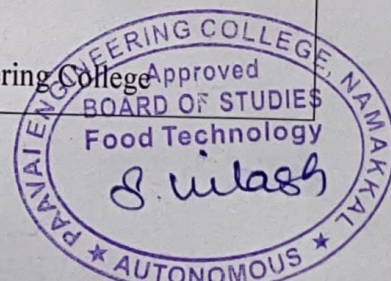
10.	Mr. M.D.S. Rajaruban, AP/ Food Technology	Member	
11.	Ms.V.Thabitha Zelin Rachel, AP/ Food Technology	Member	
12.	Ms. R. Rajeswari, AP/Food Tech	Member	
13.	Dr. Shanthi Prof & Head / Department of English	Member	
14.	Dr.P.Jayakumar, Professor & Head, Department of Mathematics	Member	
15.	Dr. Raja Ganesan Prof & Head /Chemistry	Member	
16.	Mrs.S.Kavitha, Associate Professor & Head Department of Physics	Member	

Agenda

1. To discuss the 7th and 8th Semester Syllabus of UG Students admitted in the academic year 2019-2020 of R 2019(CBCS).

2. To discuss the 5th, 6th, 7th and 8th Semester Syllabus of UG Students admitted in the academic year 2020-2021 of R2019(CBCS). (Framed same syllabus as in R 2019(CBCS), 2019-2020 admitted curriculum)

3. Added Soft skills I & II(laboratory course) in 3rd &4th Semester of R 2019(CBCS) for the students admitted from 2021-2022 onwards

4. To discuss the Value-Added Courses for the UG Students admitted under R 2019(CBCS).

5. To discuss the one credit course for the UG Students admitted under R 2019(CBCS).

Suggestions by the members

1. The syllabus for FT19701- Food Safety, Quality and Regulation was framed by the BOS members.
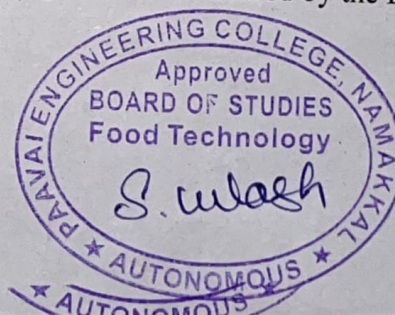
2. The syllabus for FT-19374-Creativity, Innovation and New Product Development was framed by the BOS members.

Professional Elective

1. FT19371- Technology of Plantation and Spice Products, the practical courses to be included in next regulation.

2. FT19373-Engineering Properties of Food Materials, unit -V the second subtopic to be changed to color properties.

3. In the Syllabus of UG Students admitted in the year 2020-2021, the subject code for Open elective to be changed from FT19904 to FT20904.

4. Internship can be made with the tie-up industries and make it mandatory for all students in the next regulation

5. In value added course, 20FTVC601 -Computer Applications in Food Processing to change to IoT in Food Processing.

Amendments:

FT20401-Heat and Mass Transfer in Food Process Syllabus was revised and approved for the students admitted in the year 2021-2022 onwards.

List of New Courses

S. No	Category	Course code	Course title
1.	PE	FT19374	Creativity, Innovation and New Product Development
2.	PE	FT19473	Food Phytochemicals
3.	PE	FT19582	Evaluation of Sensory Attributes in Food
4.	PE	FT19681	Food Supply Chain Management
5.	OE	FT19904	Environmental issues in Food Industries

List of One Credit Course

S. No	Course Code	Course Title
1.	OCFT20951	Rheology studies in Food
2.	OCFT20952	Food Adulteration
3.	OCFT20953	Speciality and Therapeutics in Foods
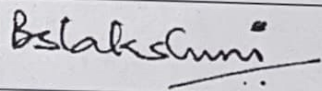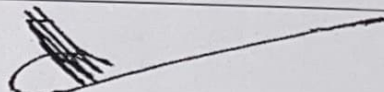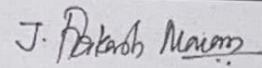
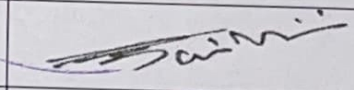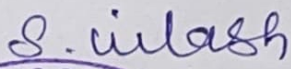| 4. | OCFT20954 | Food Plant Design |
5.	OCFT20955	Recent developments in Aquaculture
6.	OCFT20956	Nanotechnology
7.	OCFT20957	Fundamentals of Biomaterials
8.	OCFT20958	Sea Food Processing Technology
9.	OCFT20959	Basics of Computer Application
10.	OCFT20960	Animal Feed Formulation

List of Value-Added Course

S. No	Course Code	Course Title
1.	22FTVC301	Health and Fitness
2.	22FTVC401	Metabolic Engineering
3.	22FTVC501	Design and Formulation of Foods
4.	22FTVC601	IOT in Food Processing
5.	22FTVC701	Functional Foods and Nutraceuticals
6.	22FTVC801	Food Material Science

To include Environmental Science and Engineering in 6th semester of Regulations 2019 for the students admitted in the year 2020-2021 and to include in 4th semester of Regulations 2019 for the students admitted in the year 2021-2022 onwards. (for lateral entry).

The above suggestions were given by the members and approved the syllabi for the 7th and 8th Semester of 2019-2020 admitted students of Regulations 2019(CBCS), 7th and 8th semester of 2019-20 admitted students, 5rd ,6th,7th and 8th semester of 2020-2021 admitted students of Regulations 2019(CBCS), one credit courses, and value added courses

Position in the Committee	Name & Designation	e-Signature
University Nominee	Dr. B. S. Lakshmi, Professor	Bslakshmi
Academic Expert	Dr. Jaganmohan, Professor and Head	
Academic Expert	Dr. J. Prakash Maran, Associate Professor	J. Prakash Maran
Industrial Expert	Mr. C. Manimaran, Managing Director	
Chairman	Dr. S. Kailash Professor /Food Technology	S. kailash

Approved
BOARD OF STUDIES
Food Technology

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF INFORMATION TECHNOLOGY

MINUTES OF THE EIGHTH BOARD OF STUDIES MEETING

(ONLINE MODE)

DATE & TIME: 11-08-2022 @ 10.30 AM

MEMBERS PRESENT

| S.NO	NAME & DESIGNATION	POSITION IN COMMITTEE	COLLEGE/UNIVERSITY /INDUSTRY
1	Mr.B.Venkatesan HOD &Associate Professor / IT	Chairman	Paavai Engineering College
2	Dr.P.Yogesh Professor /IST	University Nominee	College of Engineering (CEG Campus), Anna University, Chennai
3	Dr.N.Jaisankar Professor / CSE	Academic Expert	VIT University, Vellore.
4	Dr.S.Prabu, Associate Professor	Academic Expert	Pondicherry University, Pondicherry
5	Mr.VelmuruganPalanivel Senior Software Engineer	Industry Expert	Robert Bosch, Coimbatore.
6	Mr P Naveen Assistant Professor/CSE	Alumni	St.Joseph's College of Engineering, Chennai.
7	Dr.G.Madasamy Raja Associate Professor	Member	Paavai Engineering College
8	Mr.S.Rajesh Associate Professor	Member	Paavai Engineering College
9	Mrs.M.Pushpalatha Associate Professor	Member	Paavai Engineering College
10	Dr.P.Thiyagarajan Assistant Professor (Senior Grade)	Member	Paavai Engineering College
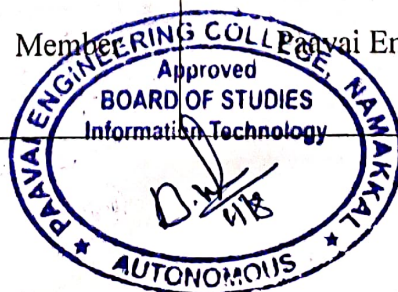
11	Mrs.M.Babylatha Assistant Professor	Member	Paavai Engineering College
12	Mrs.M.Saranya Assistant Professor	Member	Paavai Engineering College
13	Mr.S.Saravana kumar Assistant Professor	Member	Paavai Engineering College
14	Mrs.P.Anitha Assistant Professor	Member	Paavai Engineering College
15	Mrs.B.Deepa Assistant Professor	Member	Paavai Engineering College

AGENDA

1. The Curriculum and syllabus for the 7th and 8th semester of Regulations 2019 (For the students admitted during the academic year 2019-2020)
2. The Curriculum and syllabus for the 5th and 6th semester of Regulations 2019 (For the students admitted during the academic year 2020-2021)
3. List of one credit ,service department courses and value added courses
4. Panel of examiners
5. Mandatory courses assessment, examination pattern, project rubrics and credits summary.

Panel of Examiners:

S.No	Name of the Examiners	College Name
1.	Dr.K.Balachandran	Christ (Deemed To Be University), Karnataka
2.	Dr.CherukuriRavindranath Chowdary	Christ (Deemed To Be University), Karnataka
3.	Dr.R.Srinivasan	SRM Institute Of Science And Technology, Chennai
4.	Dr.J.Somasekar	Gopalan College of Engineering and Management, Bangalore
5.	Dr.G.Vadivu	SRM Institute Of Science And Technology, Chennai
6.	Dr.S.Kogilavani	Kongu Engineering College, Perundurai
7.	Dr.K.Narayanan	Institute of Road and Transport Technology, Erode
8.	Dr.K.Sakthivel	K.S.Rangasamy College of Technology, Tiruchengode
9.	Dr.S.Logeswari	Bannari Amman Institute of Technology, Sathiyamangalam
10.	Dr.V.K.Manavalasundaram	Velalar College of Engineering and Technology, Erode
11.	Dr.R.Rajasekar	Malla Reddy University, Hyderabad
12.	Dr.L.Malathi	Vivekanandha College of Engineering for Women, Tiruchengode
13.	Dr.A.M.Kalpana	Govt. College of Engineering, Salem
14.	Dr.R.Vijayarajeswari	Mehendra Engineering College, Mallasamuthiram
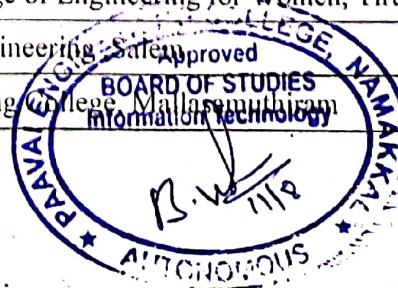
SUGGESTIONS GIVEN BY THE MEMBERS

In Regulations 2019 -Choice Based Credit System [CBCS] as follows,

IT19701-Cloud Computing

- Unit-1: include the basic concepts of distributed systems.
- Unit-2: include the concepts of hypervisor.
- Include the latest book for references.

IT19702-Cryptography and Network Security

- Unit-1: Include the concepts of attacks.
- Unit-2: Remove the concepts of groups, rings, fields.
- Unit-3: In number theory remove prime number topic.
- Add year of publication in the reference books and remove ISBN number in reference books.

IT19452-Fundamentals of Block chain Technologies

- Unit 2: Reframe the syllabus.

IT19454 -Soft Computing

- Unit 1 to Unit 3: reframe the syllabus.

IT19801-Big Data Analytics

- Include the latest books.
- Unit-4: reframe the syllabus.

> Discussed the soft skills I and II in 3rd & 4th Semester for the students admitted from 2021-2022 under Regulations 2019.

> Discussed the soft skills I and II in 5th & 6th Semester for the students admitted from 2020-2021 under Regulations 2019.

> Amendments of mandatory course "Environmental Science and Engineering" for Lateral Entry Students in VI semester.

> Amendments of mandatory professional elective-IBM-Experiential project – based learning- "Professional Readiness for Innovation, Employability and Entrepreneurship" to be opted in the seventh semester as suggested by Anna University and got approval for the same.

LIST OF NEW COURSES

- Network Security Laboratory
- Software Defined Networks
- Deep Learning
- Bio Informatics

- Wireless Sensor Networks
- 5G Technology
- Cyber Forensics
- Digital and Social Media Marketing
- Software Project Management
- Randomized Algorithms
- IT Infrastructure Management
- IBM-Experiential project – based learning

LIST OF VALUE ADDED COURSES

- Mobile App Development
- Linux OS
- Social Media and Web Analytics
- Kotlin Programming
- React JS
- Full Stack Development

LIST OF ONE CREDIT COURSES

- Amcat (Online Placement Aptitude Certification)
- e-litmus(Online Placement Aptitude Certification)
- Nasscomnas-tech (Online Placement Aptitude Certification)
- I-pat(Online Placement Aptitude Certification
- NPTEL/Swayam (Online courses)– 4Weeks
- Microsoft Courses
- Spoken Tutorial-Advanced C++
- Spoken Tutorial-Java Business Application
- Spoken Tutorial-Linux & Ubuntu
- Spoken Tutorial-BOSS Linux
- Spoken Tutorial- PHP & MySQL
- Oracle–SQL fundamentals
- Oracle–Java Fundamentals
- SCJP/OCPJP –Sun Certified Java Programmer / Oracle Certified Professional Java Programmer
- Android application Development
- PC Hardware and Troubleshooting
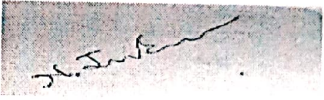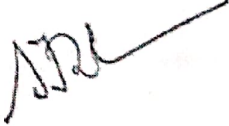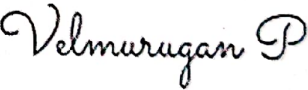- Cyber Security
- Mongo DB
- Angular JS
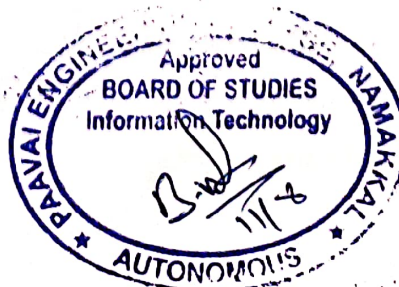
The above suggestions were given by the members and approved the syllabi for the 7th and 8th semester of 2019-20 admitted students of Regulations 2019(CBCS), 5th and 6th semester of 2020-2021 admitted students of Regulations 2019(CBCS), service department courses, one credit courses, value added courses and panel of examiners.

Chairman

Mr. B.Venkatesan

HoD and Associate Professor/ IT

Position in the committee	Name & Designation	e-Signature
University Nominee	Dr.P.Yogesh Professor /IST	
Academic Expert 1	Dr.N.Jaisankar Professor / CSE	
Academic Expert 2	Dr.S.Prabu, Associate Professor	
Industry Expert	Mr.VelmuruganPalanivel Senior Software Engineer	
Alumunus	Mr P Naveen Assistant Professor/CSE	

Fwd: 8th BoS Minutes Approval-Department of Information Technology, Paavai Engineering College-Reg

PEC IT Hod <pecithod@paavai.edu.in>
Mon 8/29/2022 3:37 AM
To: AnithaPalanivel <anithapalanivelpec@paavai.edu.in>

Get Outlook for Android
_____

From: Prabu S Dept. of Banking Technology <prabu.sevugan@pondiuni.ac.in>
Sent: Monday, August 29, 2022 1:00:10 PM
To: PEC IT Hod <pecithod@paavai.edu.in>
Subject: Re: 8th BoS Minutes Approval-Department of Information Technology, Paavai Engineering College-Reg

Sir,

I approve the MoM.

Thanks and regards

S.Prabu, BE cse., M.Tech rs., M.Tech it., Ph.D cse, Ph.D. rs., PDF iitb
Associate Professor
Department of Banking Technology
[An Inter-disciplinary Dept. of CSE and Management]
Pondicherry University (A Central University-MoE, Govt. of India)
R Venkat Raman Nagar, Kalapet, Puducherry - 605 014, India
Email:prabu.btm@pondiuni.edu.in; prabu.sevugan@pondiuni.ac.in; Ph: +91-9786428579

On Mon, Aug 29, 2022 at 10:03 AM PEC IT Hod <pecithod@paavai.edu.in> wrote:
Respected Sir,
        I have attached our department 8th BoS meeting minutes for your kind perusal.
Kindly approve the minutes through mail and we need your e-Signature .
        Thanking you

Thanks & Regards
B Venkatesan
HoD/IT
BoS-Chairman
Paavai Engineering College
Namakkal

Fwd: 8th BoS Minutes Approval-Department of Information Technology , Paavai Engineering College-Reg[WARNING: Attachment Unscanned]

PEC IT Hod <pecithod@paavai.edu.in>

Mon 8/29/2022 2:19 AM

To: AnithaPalanivel <anithapalanivelpec@paavai.edu.in>

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From: Jaisankar N <njaisankar@vit.ac.in>
Sent: Monday, August 29, 2022 11:45:02 AM
To: PEC IT Hod <pecithod@paavai.edu.in>
Subject: Re: 8th BoS Minutes Approval-Department of Information Technology , Paavai Engineering College-Reg[WARNING: Attachment Unscanned]

Dear Sir,

I am sending signed document.

With Regards,,

Dr. N.Jaisankar, B.E.,M.E.,PhD.,
Professor,
School of Computer Science and Engineering,
VIT University,
Vellore-632014,
TamilNadu, INDIA.
Email:njaisankar@vit.ac.in

"Work hard in silence... Let success make the noise!!!"

VIT-Ranked No.1 Private Engineering Institution by MHRD, Govt of India [NIRF-2016 ranking]
-

From: PEC IT Hod <pecithod@paavai.edu.in>
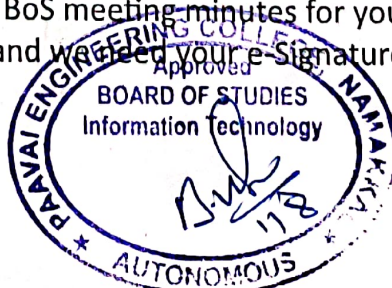**Sent:** Monday, August 29, 2022 10:01:23 AM
To: Jaisankar N
Subject: 8th BoS Minutes Approval-Department of Information Technology , Paavai Engineering College-Reg[WARNING: Attachment Unscanned]

Respected Sir,
       I have attached our department 8th BoS meeting minutes for your kind perusal.
Kindly approve the minutes through mail and need your e-Signature .
       Thanking you

Thanks & Regards

Fwd: 8th BoS Minutes Approval-Department of Information Technology , Paavai Engineering College-Reg

PEC IT Hod <pecithod@paavai.edu.in>

Mon 8/29/2022 5:35 AM

To: AnithaPalanivel <anithapalanivelpec@paavai.edu.in>

📎 1 attachments (40 KB)

8th BoSMINUTES-27.08.22.docx;

Get Outlook for Android

From: Velmurugan <velu04@gmail.com>
Sent: Monday, August 29, 2022 3:04:39 PM
To: PEC IT Hod <pecithod@paavai.edu.in>
Subject: Re: 8th BoS Minutes Approval-Department of Information Technology , Paavai Engineering College-Reg

Hello Sir,

I have approved the same and attached the e-Signed document in this email.

thanks and regards
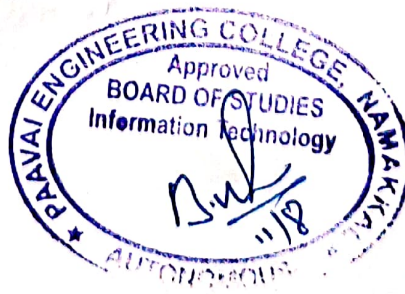Velmurugan

On Mon, Aug 29, 2022 at 10:04 AM PEC IT Hod <pecithod@paavai.edu.in> wrote:
Dear Velu,
     I have attached our department 8th BoS meeting minutes for your kind perusal.
Kindly approve the minutes through mail and we need your e-Signature .
     Thanking you

Thanks & Regards
B Venkatesan
HoD/IT
BoS-Chairman
Paavai Engineering College
Namakkal

--

Fwd: 8th BoS Minutes Approval-Department of Information Technology , Paavai Engineering College-Reg

PEC IT Hod <pecithod@paavai.edu.in>
Mon 8/29/2022 4:29 AM
To: AnithaPalanivel <anithapalanivelpec@paavai.edu.in>

Get Outlook for Android

From: Naveen P <naveenp@stjosephs.ac.in>
Sent: Monday, August 29, 2022 1:45:44 PM
To: PEC IT Hod <pecithod@paavai.edu.in>
Subject: Re: 8th BoS Minutes Approval-Department of Information Technology , Paavai Engineering College-Reg

Approved, please proceed.

On Mon, 29 Aug, 2022, 10:05 am PEC IT Hod, <pecithod@paavai.edu.in> wrote:
Dear Naveen,
    I have attached our department 8th BoS meeting minutes for your kind perusal.
Kindly approve the minutes through mail and we need your e-Signature .
    Thanking you

Thanks & Regards
B Venkatesan
HoD/IT
BoS-Chairman
Paavai Engineering College
Namakkal

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

MINUTES OF THE FIFTH BOARD OF STUDIES MEETING

(ONLINE MODE)

12.08.2022 & 10.00 AM

MEMBERS PRESENT

| S.NO	NAME & DESIGNATION	POSITION IN COMMITTEE	COLLEGE/UNIVERSITY/INDUSTRY
1.	Dr. R. Praveen Cumar HOD/ Pharmaceutical Technology	Chairman	Paavai Engineering College
2.	Dr. A. Puratchikody Professor & Head / Pharmaceutical Technology	University Nominee	Anna University, Trichy
3.	Dr. V. Sivakumar Professor, Department of Chemical Engineering	Academic Expert	AC Tech, Chennai.
4.	Dr. N. Kannappan Professor, Department of Pharmacy	Academic Expert	Annamalai University
5.	Mr. G. Karthick General Manager	Industrial Expert	Global Calcium pvt. ltd Hosur
6.	Dr. K. Sundara Murthy Dean academics	Academic Expert	Paavai Engineering College
7.	Mr. M. G. Karthih AP/Pharmaceutical Tech	Member	
8.	Mr. M. Ponmanian AP/Pharmaceutical Tech	Member	
9.	Ms. S. Pragathi AP/Pharmaceutical Tech	Member	

10.	Ms. P. S. Aiswarya AP/Pharmaceutical Tech	Member	
11.	Mr. P. H. Arya AP/Pharmaceutical Tech	Member	
12.	Mr. R. Balasubramani HOD/ Chemical Engineering	Member	
13.	Dr. G. Balaji Prof & Head /EEE	Member	

AGENDA

1. The Curriculum and syllabus for the 7th and 8th semester of Regulations 2019 (For the students admitted during the academic year 2019-2020)
2. The Curriculum and syllabus for the 5th to 6th semester of Regulations 2019 (For the students admitted during the academic year 2020-2021)
3. List of one credit and value-added courses
4. Panel of examiners

The members suggested the following points

- PT19554 - Course name of Regulatory Issues in Pharmaceutical Industry may changed as Regulatory Requirements in Pharmaceutical Industry for seventh semester.
- Credit points of seventh semester Project Phase I and eighth semester Project Phase II were discussed and they approved the credits allotted.
- Discussed the one credit courses of Regulations 2019-2020 and 2020-2021 admitted students along with Soft Skills I and Skills II and approved by experts.
- Committee members suggested to include HOD in the panel for question paper scrutiny and discussed the list of examiners, examination pattern, project rubrics and credit summary.
- Based on suggestions by the stakeholders as discussed in Department Advisory Committee meeting and its follow-ups, the R2019 courses of fifth and sixth semester of 2020-2021 admitted students were discussed and its syllabus were approved by the experts.
- Expert also approved the syllabus of readmitted students.
- Second semester mandatory course- MC20201 Environmental Science and Engineering for the lateral entry students and 2020-2021 admitted students were discussed.
- Examination pattern for relative grading: Anna University – Uniform evaluation method of students based on relative grading- Letter No. 4040/AU/CAC/ Rel.Grading/2022 dated on 25.06.2022 for the students admitted in the year 2021-2022 onwards.
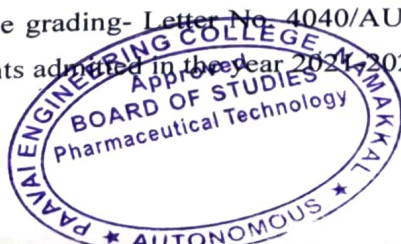
LIST OF NEW COURSES OFFERED

S.No.	Course code	Course Title
1	PT19351	Computer Aided Drug Design
2	PT19352	Nutraceuticals
3	PT19353	Bioconjugate Technology
4	PT19354	Pharmacotherapeutics
5	PT19453	Advances in Drug Delivery System
6	PT19454	Precision Medicine
7	PT19552	Clinical Research and Pharmacovigilance
8	PT19553	Biosafety
9	PT19554	Regulatory Issues in Pharmaceutical Industry
10	PT19652	Stem Cell and Tissue Engineering
11	PT19654	Lifestyle Diseases
12	PT19901	Fundamentals of Nanoscience
13	PT19902	Introduction to Pharmaceutical Technology

LIST OF ONE CREDIT COURSES OFFERED

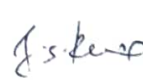| S.No.	Course code	Course Title
1	PT19951	Clinical Laboratory Techniques
2	PT19952	First Aid and Emergency Care
3	PT19953	Physical Chemistry of Polymers
4	PT19954	Polymeric Materials
5	PT19955	Metabolic Engineering
6	PT19956	Analysis For Characterization of Nanomaterials
7	PT19957	Biophysical Methods
8	PT19958	Bio- Medical Instrumentation
9	PT19959	Advanced Techniques in Clinical Microbiology
10	PT19960	Biophysical Engineering Laboratory

LIST OF VALUE ADDED COURSES OFFERED

S.No.	Course code	Course Title
1	PT20VC301	Modern Methods of Instrumentation
2	PT20VC401	Biomaterials
3	PT20VC501	Nanomaterials and Nanotechnology
4	PT20VC601	Introduction to Cancer Biology
5	PT20VC701	Quality Control in Herbal Drugs
6	PT20VC801	Process Safety Engineering

The above suggestions were given by the members and approved the syllabi for the 7th and 8th semester of 2019-2020 admitted students of Regulations 2019 (CBCS), 5th to 8th semester of 2020-21 admitted students of Regulations 2019 (CBCS), one credit courses, value added courses and panel of examiners.

Position in the committee	University Nominee	Academic Expert	Academic Expert	Industrial Expert	Chairman
Name & Designation	Dr. A. Puratchikody Professor & Head / Pharmaceutical Technology	Dr. V. Sivakumar Associate Professor, Department of Chemical Engineering	Dr. N. Kannappan Professor, Department of Pharmacy	Mr. G. Karthick General Manager	Dr. R. Praveen Cumar HOD/ Pharmaceutical Technology
e-Signature					

Approved
BOARD OF STUDIES
Pharmaceutical Technology
PAAVAI ENGINEERING COLLEGE, NAMAKKAL
★ AUTONOMOUS ★

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF CHEMISTRY

MINUTES OF THE SEVENTH BOARD OF STUDIES MEETING

(ONLINE MODE)

Date & Time: 06.08.2022 & 2.30 pm

The Seventh Board of Studies Meeting was conducted on 06/08/2022 by 2.30 pm through Online Mode

MEMBERS PRESENT

S.No	Name	Designation	Position in the Committee	College / University / Industry
1	Dr.G.Raja	Prof & HOD/ Chemistry	Chairman	Paavai Engineering College
2	Dr.M.Dharmendira Kumar	Prof/Chemistry	University Nominee	Alagappa College of Technology, Anna University, Chennai
3	Dr.S.Sasikumar	Prof/Chemistry	Academic Expert	Vellore Institute of Technology (VIT), Vellore
4	Prof.M.Mohan	Prof & HOD/S&H	Member	Paavai Engineering College
5	Dr.D.Rajamanickam	AP/Chemistry	Member	Paavai Engineering College
6	Mr.N.Vijayanand	Associate Prof/ Chemistry	Member	Paavai Engineering College
7	Dr.N.Geetha	Assistant Prof / Chemistry	Member	Paavai Engineering College
8	Dr.N.Dhanabalan	Associate Prof / Chemistry	Member	Paavai Engineering College
9	Ms.S.Sathiyasudha	Assistant Prof / Chemistry	Member	Paavai Engineering College
10	Mr.A.Jeeva	Assistant Prof / Chemistry	Member	Paavai Engineering College
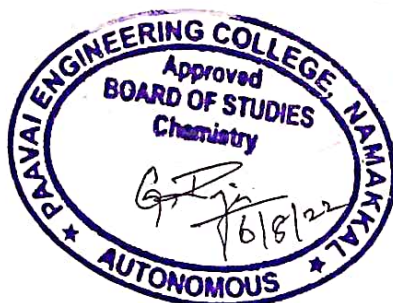
AGENDA

1. Minutes of the Department Advisory Committee meeting.
2. List of value added courses (For the students admitted during the academic year 2022-2023)
3. Curriculum for the students of CSE(AI & ML), CSE(IOT), Robotics and Automation, Safety and Fire Engineering & Bio Technology admitted in the academic year 2022-2023 of Regulations 2019(CBCS)
4. Syllabi of I and II semester of UG Programme
5. Panel of examiners

Minutes of the meeting

- The Board of Chairman Dr.G.Raja welcomed the University Nominee, Academic Expert and members for the seventh BOS meeting and briefed the outcomes of the courses under Chemistry Board.

- Further the Chairman presented the syllabi for B.E./B.Tech Programmes.
  Minutes of the Department Advisory Committee meeting were discussed.
  Internal and external mark allotment for both Theory and Practical were discussed.

Suggestions by the members

- **Curriculum for the students admitted in the academic year 2022-2023, Regulations 2019(CBCS)**
  The existing syllabus of the I year (R-2019) should be followed for the following programme students of CSE(AI & ML), CSE(IOT), Robotics and Automation, Safety and Fire Engineering & Bio Technology admitted in the academic year 2022-2023 of Regulations 2019(CBCS)
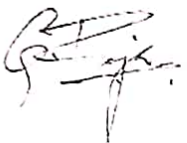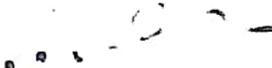
Value added Courses are offered

1. **Industrial Inorganic Materials**
   - The content of Module 1 should be reduced
   - The topic Solar panels & Optical Fibre Cable should be included in Module 1.
   - The topic Nano applications of Metal Matrix composite should be included in Module 3.

2. **Women in Society**
   - The members approved the syllabus.

   The above suggestions were given by the members and approved the syllabi for the 2022-2023 admitted students of Regulations 2019 (CBCS), value added courses and panel of examiners.

Position in the committee	Chairman	University Nominee	Academic Expert
Name & Designation	Dr.G.Raja Prof/ Chemistry	Dr.M.Dharmendira Kumar Prof/ Chemistry	Dr.S.Sasikumar Prof/ Chemistry
e-Signature			

PAAVAI ENGINEERING COLLEGE (Autonomous)
Pachal, Namakkal-637018

DEPARTMENT OF ENGLISH

MINUTES OF THE SEVENTH BOARD OF STUDIES MEETING

Date and Time: 12.08.2022 & 11.00 a.m.

1. The Board Chairman Dr.R.Shanthi welcomed everyone present in the online meeting.

2. The University nominee Dr.S.Soundiraraj, Associate Professor, Anna University CEG Campus and the Academic Expert Dr.J.Michael Raj, Assistant Prof (SLG), SRM Institute of Science and Technology, Department of English & Foreign Languages gave suggestions.

3. Syllabus for new courses of 1st and 2nd semesters of UG - Regulations 2019 - CSE-IOT, AI&DS, Biotech, Fire and Safety & Robotics and Soft Skills Laboratory I & II syllabus were approved.

4. In Value added course, English Articulation was approved by the BOS Members. The members suggested to add compound words, mispronounced words and to remove error analysis.

Board Chairman   **UniversityNominee**   **AcademicExpert**

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)

DEPARTMENT OF MATHEMATICS

MINUTES OF THE SEVENTH BOARD OF STUDIES MEETING
(ONLINE MODE)

DATE: 05.08.2022   **TIME: 11.00AM**

MEMBERS PRESENT

S. NO	NAME & DESIGNATION	POSITION IN COMMITTEE	COLLEGE/UNIVERSITY
1	Dr. P. Jayakumar	Professor & Head	Paavai Engineering College
2	Dr. P. Vimala	Professor	Anna university, Chennai
3	Dr. G. Murugusundaramoorthy	Professor (HAG)	Vellore Institute of Technology (VIT), Vellore
4	Dr. B.KishokKumar	Professor	Paavai Engineering College
5	Mrs.K. Uma	Associate Professor	Paavai Engineering College
6	Dr.M. Sathish kumar	Associate Professor	Paavai Engineering College
7	Mrs. R.Pradeepa	Associate Professor	Paavai Engineering College
8	Mrs. C.Manjula	Associate Professor	Paavai Engineering College
9	Mrs. M. Sathiya	Assistant Professor	Paavai Engineering College
10	Mr.R.Rajeshkumar	Assistant Professor	Paavai Engineering College
11	Mr.T.Ramesh	Assistant Professor	Paavai Engineering College
12	Mr. A.Henry	Assistant Professor	Paavai Engineering College
13	Miss.R. Aiswarya	Assistant Professor	Paavai Engineering College
14	Mrs. D. Seethalakshmi	Associate Professor	Paavai Engineering College
15	Mr.D.Nagaraj	Assistant Professor	Paavai Engineering College
16	Mrs.D.Latha	Assistant Professor	Paavai Engineering College
17	Mr.K.Anbumani	Assistant Professor	Paavai Engineering College

AGENDA:

1. To discuss the value added and elective course (EEE) syllabus.

2. To discuss the curriculum and syllabus for the students admitted in the academic year 2022-2023 (R2019) for new branches (CSE (IOT), CSE (AI & ML), Bio-Tech Safety & Fire Engineering, Robotics & Automation)

SUGGESTIONS BY THE MEMBERS:

➤ *Elective course*: **MA19701/MA20701-Operations Research**

1. Unit I

o   Rename the title 'Linear Programming Models' instead of 'Introduction to Linear Programming'

- o Remove the topic "Introduction to applications of operations research in functional areas of management".
- o Mention the method name 'Big- M' method in Simplex methods.

2. Unit II
- o Rename the title 'Transportation and Assignment Problems' instead of 'Linear Programming Extensions'

3. Unit V

- o Rename the title 'Queuing Models' instead of 'Queuing Theory and Replacement Models'.
- o Remove the topics 'Replacement models – Individual's replacement models (With and without time value of money).

4. In text book -Replace "Hamdy A Taha (2013), "Introduction to Operations Research", 9th Edition, Prentice Hall India, Third Indian Reprint" instead of "Hamdy A Taha (2004), "Introduction to Operations Research", 7th Edition, Prentice Hall India, Third Indian Reprint".

➢ Value added course-Aptitude and Reasoning- No changes.

➢ Value added course-Gender Studies – Mention the Lecture hours

The above suggestions were given by the members and approved the syllabi for the 1st and 2nd semester of 2022-2023 (R2019) admitted students for new branches (**CSE (IOT), CSE (AI & ML), Bio-Tech, Safety & Fire, Robotics & Automation**)

Position in the committee	Dr. P. Jayakumar	Dr. P. Vimala	Dr. G.Murugusundaramoorthy
Name & Designation	Professor & Head	Professor	Professor (HAG)
e-Signature			

PAAVAI ENGINEERING COLLEGE
(AUTONOMOUS)

DEPARTMENT OF PHYSICS

## MINUTES OF THE EIGTH BOARD OF STUDIES MEETING

(ONLINE MODE)

DATE & TIME: 04.08.2022 & 2.00 p.m

MEMBERS PRESENT

S.No	Name	Designation	Position in the Committee	College / University / Industry
1.	Mrs.S.Kavitha	HoD & Associate Professor / Physics	Chairman	Paavai Engineering College
2.	Dr.G.Kalpana	Professor / Physics	University Nominee	GCE, Chennai
3.	Dr.A.Karthigeyan	Professor / Physics and Nanotechnology	Academic Expert	SRM Institute of Science and Technology Kanchipuram
4.	Mr.R.Dhananchezian	Assistant Professor / Physics	Member	Paavai Engineering College
5.	Mrs.C.Barathi	Associate Professor / Physics	Member	Paavai Engineering College
6.	Dr.T.Prakesh	Assistant Professor / Physics	Member	Paavai Engineering College
7.	Mr.P.Suresh	Assistant Professor / Physics	Member	Paavai Engineering College
8.	Mrs.P.Divya	Assistant Professor / Physics	Member	Paavai Engineering College
9.	Mr.P.Surendiran	Assistant Professor / Physics	Member	Paavai Engineering College

AGENDA

1. The syllabus for the new courses (CSE - (IOT, AI & ML) BIOTECH, SAFETY AND FIRE ENGINEERING & ROBOTICS AND AUOTOMATION) of Regulations 2019

2. List of value added courses for the Regulation 2019 (CBCS)

Approved
BOARD OF STUDIES
Physics
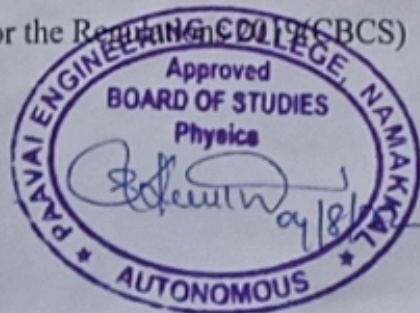
SUGGESTIONS BY THE MEMBERS:

   PH20201-Engineering Physics
   PH20201-Physics for Electronics Engineering
   PH20202-Physics for Information Science
   PH20203-Material Science
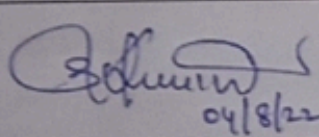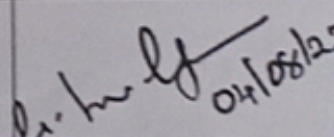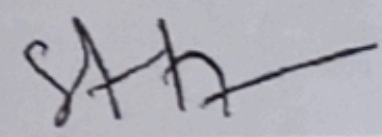   PH20204-Physics of Materials
   PH20102/PH20205-Physics Laboratory

There is no change in the above syllabus

Value added Course

- **PHYSICS IN EVERDAY LIFE** - Module-IV - removed nuclear physics and added the topic optics sensor, scanner and its types.

- **INDIAN CONSTITUTION AND HUMAN RIGHTS**- No changes

   The above suggestions were given by the BOS panel members and approved the syllabi for the Regulations 2019 (CBCS) value added courses the candidates admitted in the academic year 2022-2023.

Position in the committee	Chairman	University Nominee	Academic Expert
Name & Designation	Prof.S.Kavitha HoD &Associate Professor	Dr.G.Kalpana Professor / Physics	Dr.A.Karthigeyan Professor / Head i/c Physics and Nanotechnology
e-Signature	04/8/22	04/08/22	
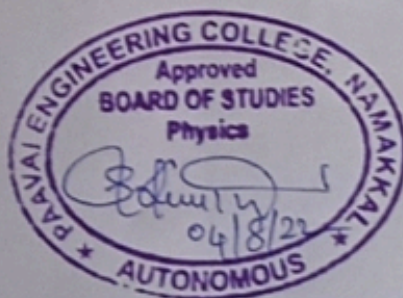
PAAVAI ENGINEERING COLLEGE
Autonomous Institution | Approved By AICTE
Affiliated To Anna University, Chennai | Accredited By NBA & NAAC with 'A' Grade

Department of Physics

8th BOARD OF STUDIES MEETING

Academic year 2022-2023
Date: 04.08.2022 | Time: 2.00 PM
Regulations 2019
CURRICULUM FOR NEW COURSES
(CSE-IOT, AI&ML, BIOTECH, SAFETY AND FIRE
ENGINEERING, ROBOTICS &AUTOMATION)
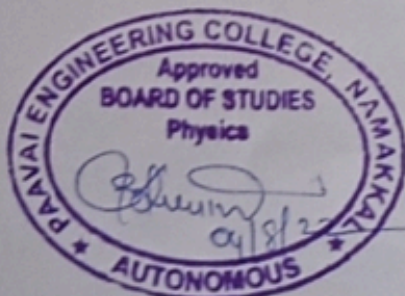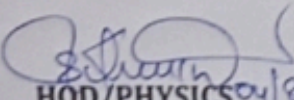BASED ON CHOICE BASED CREDIT SYSTEM (CBCS)

PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)
Pachal ,Namakkal.

DEPARTMENT OF PHYSICS

BOARD OF STUDIES MEMBERS
Academic Year (2022-2023)

S.No	Name	Designation	Position in the Committee	College / University / Industry
1.	Mrs.S.Kavitha	HoD & Associate Professor / Physics	Chairman	Paavai Engineering College
2.	Dr.G.Kalpana	Professor / Physics	University Nominee	GCE, Chennai
3.	Dr.A.Karthigeyan	Professor / Physics and Nanotechnology	Academic Expert	SRM Institute of Science and Technology Kanchipuram
4.	Mr.R.Dhananchezian	Assistant Professor / Physics	Member	Paavai Engineering College
5.	Mrs.C.Barathi	Associate Professor / Physics	Member	Paavai Engineering College
6.	Dr.T.Prakesh	Assistant Professor / Physics	Member	Paavai Engineering College
7.	Mr.P.Suresh	Assistant Professor / Physics	Member	Paavai Engineering College
8.	Mrs.P.Divya	Assistant Professor / Physics	Member	Paavai Engineering College
9.	Mr.P.Surendiran	Assistant Professor / Physics	Member	Paavai Engineering College

HOD/PHYSICS 04|8|22

PAAVAI ENGINEERING COLLEGE
(Autonomous)
DEPARTMENT OF MANAGEMENT STUDIES

Minutes of Seventh Board of Studies Meeting
Venue: Online mode through Microsoft Teams platform
Date and Time: 02.08.2022, 11.00 a.m.

Minutes of Seventh Board of Studies meeting held on August 2nd 2022 at 11.00 a.m. through online mode using Microsoft Teams platform.

The following members were present

S.NO.	Name	Designation	Position in committee	College/University/Industry
1.	Dr. S. Sumathi	Prof & Head /MBA	Chairman	Paavai Engineering College
2.	Dr. A.K. Sheik Manzoor	Associate Professor/MBA	University Nominee	Anna University, Chennai.
3.	Dr.N.L.Balasudarsun	Associate Professor/MBA	Academic Expert 1	Symbiosis Institute of Business Management, Bangalore.
4.	Mr. R. R. Pattabi Reguraman	General Manager (Sales)	Industry Expert	Dalmia Cement Bharat Limited, Chennai
5.	Mr. S.Bramanathan	Director / Sales	Alumni member	Ibis Chennai City Centre & ibis Chennai Sip cot
6.	Dr.R.N.Padma	Professor/MBA	BOS member	Paavai Engineering College
7.	Dr.K.S.Kavitha	Assistant Professor (Senior Grade) / MBA	BOS member	Paavai Engineering College
8.	Dr. Karpagavalli	Assistant Professor MBA	BOS member	Paavai Engineering College
9.	Mrs. G. Aarthana	Assistant Professor MBA	BOS member	Paavai Engineering College
10.	Mrs. V.Priyankadevi	Assistant Professor MBA	BOS member	Paavai Engineering College

AGENDA

The following matters were discussed

1. Chairman –BoS introduced the members of the Board of Studies
2. Chairman –BoS briefed the members about the agenda
3. The Open Elective Course to be offered by MBA department to Engineering Programs.
4. The Management courses meant for UG Engineering Programs.
5. The list of Value added courses for MBA.

The following member was absent.

S.NO.	Name	Designation	Position in committee	College/University/Industry
1.	Dr.Shilpa Gopal	Assistant Professor (Senior Grade) / MBA	Academic Expert 2	Manipal Academy of Higher Education, Manipal

SUGGESTIONS GIVEN BY THE MEMBERS OF BOARD OF STUDIES

R 2019 - CURRICULUM & SYLLABUS:

1. **PE - BA19353 - ENGINEERING ECONOMICS (B.E - Mechanical/VIII Semester)**
   - Syllabus needs to be simplified.
   - The basics of Macro Economics to be included.
   - To include Economic Market Structures and Economic indicators

2. **PE – BA19354 / DIGITAL & SOCIAL MEDIA MARKETING (B.E - IT/VIII Semester)**
   - To include Basics of Marketing and Digital Marketing.
   - To include Supply Chain Operation, Supply Chain Management & Techniques of Supply Chain Management.

3. **PE – BA19352 / TOTAL QUALITY MANAGEMENT(B.E / B.TECH)**
   - Syllabus was approved

4. **OE – BA19351 / LEGAL ASPECTS OF BUSINESS (B.E / B.Tech)**
   - Course title 'Legality in Business' to be changed as 'Legal Aspects of Business'.
   - Syllabus to be simplified.

5. **VAC – 22BAVC101 / GENDER STUDIES**
   - To include self-defense in the syllabus.
   - To arrange guest lectures for the subject.

6. **VAC – 22BAVC301 / PSYCHOLOGY FOR EFFECTIVE LIVING**
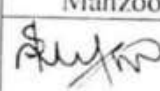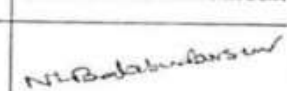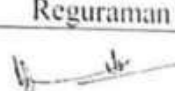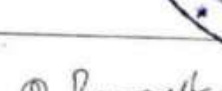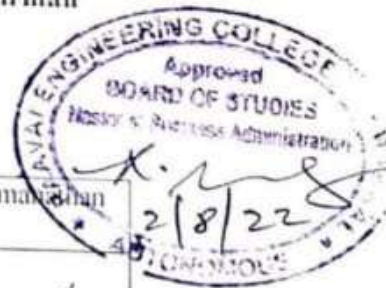   - To include Work Life Balance

GENERAL DISCUSSIONS:

- Value added courses were discussed and approved.
- Discussions regarding the above courses were made and clarified.

LIST OF VALUE ADDED COURSES

S.No	COURSE CODE / COURSE NAME
1	22BAVC101/GENDER STUDIES
2	22BAVC301/PSYCHOLOGY FOR EFFECTIVE LIVING

Chairman

Dr.A.K.Sheik Manzoor	Dr.N.L.Balasudarsun	Mr. R. R. Pattabi Reguraman	Mr. S.Bramanathan

(Autonomous)

MASTER OF COMPUTER APPLICATIONS [MCA]

<u>**Minutes of the 7th Board of Studies Meeting**</u>

Venue : Online

Date and Time: 23.08.2022, 12.00 pm

Mr.S.Senthilvelan, Chairman / BoS, welcomed all the External and Internal members to the 7th Board of Studies meeting.

BOARD OF STUDIES MEMBERS

S.No	Name	Designation	Position in the Committee	College/University/Industry
1	Mr.S.Senthilvelan	HOD/MCA	Chairman	Paavai Engineering College
2	Dr. P.Uma Maheswari	Professor/CSE	University Nominee	Anna University, Chennai.
3	Dr. S.P.Shantharajah	Professor/IT	Academic Expert	VIT University, Vellore.
4	Mr. Majid Shaikh	Project Manager	Industry Expert	Flexi Source Solutions, Bangalore.
5	Dr.K.Sundramurthy	Dean Academics	Member	Paavai Engineering College
6	Dr.V.Annapoorani	Prof/MCA		
7	Mr.C.Rathnakumar	ASP/MCA		
8	Mrs.M.Geetha	AP/MCA		

AGENDA

Master of Computer Applications Passing of the following details :

- To discuss value added course for second and third semester were presented which will be effective from the Academic year 2022-2023.
- Panel of Examiners.

Suggestion by Expert Members :

- Hands on Training to be given for the relevant subjects

Examination Pattern for relative grading :

- Anna University Letter No.4040/AU/CAC/Relative Grading/2022/dated on 25.06.22 - Uniform Evaluation method of Students based on Relative Grading is followed for the students admitted in the academic year 2021-2022.

List of Value Added Course are

S.No	Course Code	Course Title
1	22CAVC101	Shell Programming
2	22CAVC201	C# and .NET Programming

The above suggestions were given by the members and approved the value added course for the 2nd and 3rd semester, panel of examiners.
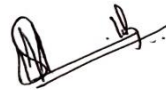

Mr.S.Senthilvelan

Chairman-BoS

Dr.P.UmaMaheswari

University Nominee

Dr. S.P.Shantharajah

Academic Expert

Mr.Majeed Sheik

Industry Expert