

# **PAAVAI ENGINEERING COLLEGE**

**(Autonomous)**

**Department of Aeronautical Engineering**

**Minutes of 6<sup>TH</sup> Board of Studies Meeting**

**Date and Time: 11.07.2020, 10.00 AM**

**Online mode thru Google meet App**

## **Members Present**

<b>S.No</b>	<b>Name</b>	<b>Designation</b>	<b>Position in the Committee</b>	<b>College / University / Industry</b>
1.	Dr.R.Arravind	Professor & HOD	Chairman	Paavai Engineering College
2.	Dr.B.T.N.Sridhar	Professor	University Nominee	Anna University MIT Campus Chennai
3.	Dr.J.BruceRalphin Rose	Asst.Prof (Sr.G) / Aero	Academic Expert	Anna University Regional Centre, Thirunelveli
4.	Dr.R.Kannan	Asst.Prof (S.G) / Aero	Academic Expert	Amrita School of Engineering Coimbatore
5.	Mr.K..Prasanna Venkatesh	Ground Instructor/	Industry Expert	Air Asia,Kempegowda Airport,Bangalore.
6.	Ms.P.Shanmugapriya	Project Assistant	Alumni	GTRE,Banglore
7.	Mr.D.Rajkumar	AP/ Aero	<b>Internal Members</b>	
8.	Mr.G.Sasi	AP/Aero		
9.	Mr.P.Prasanna	AP/Aero		
10.	Mr.K.Gokulnath	AP/Aero		
11.	Miss.T.S.Vaishnavi	AP/Aero		



## Minutes of the Sixth Board of Studies Meeting

Online Mode: Google Meet

Date and Time: 11.07.2020, 10.00 Am

1. Chairman / BoS welcomed all members to the 6<sup>th</sup> meeting of Board of Studies.
2. Chairman / BoS introduced the members to the Board of Studies.
3. Chairman / BoS introduced the members about agenda.
  - B.E. Aeronautical Engineering
  - Passed following details
    - To discuss the Curriculum and 3rd & 4th semester syllabus of the students admitted in the year 2019-2020 under R2019.
    - To discuss the Curriculum and syllabus of the students going to be admitted in the year 2020-2021 under R2019.
    - To discuss the assessment of one credit courses and online courses under R2019
    - Any other items proposed as table agenda relevant to the board of studies.

The following are the suggestion given by the member of Board of Studies:

4. AE19301 BASICS OF AERONAUTICAL ENGINEERING course
  - Three hours lecture was suggested to change into Two hours lecture and one hour practical.
  - Some UAV concepts are suggested to introduce in the syllabus.
  - Unit-I may be renamed - 'Introduction to Aircraft'.
  - Replace the word 'aircrafts' with 'aircraft' in the syllabus.
  - Correct some course objectives- replace 'mechanism of flight' with 'principles of flight'. Similarly, in course outcomes- replace 'examine the space system' with 'apply laws of space mechanics for orbit determination'.
  - Some changes in the allotment of contact hours may be made- Unit-I (8), Unit-II(9), Unit-III(9), Unit -IV (10) and Unit-V, (9).
5. AE19302 FLUID MECHANICS AND MACHINERY FOR AERONAUTICAL ENGINEERING Course
  - Titles was too lengthy and consider to change the name of the course as 'Fluid Mechanics and Machinery'.
  - Suggested to include Bernoulli's equations and rephrase application of continuity equation, energy equation and momentum equation topic in Unit I.





- In Unit-IV, expand the words 'propeller fundamentals' with 'propeller fundamentals for marine propulsion'.
- It is suggested to Change the title of Unit V as 'Basics of Flow over Airfoils and Wing Sections'. And change some content. Reduce the lecture hour for Unit-V.
- Include text books with latest editions preferably after 2015.
- In the course outcomes- you may modify the last one i.e. examine the properties of flow over airfoil – 'determine the properties of flow over an airfoil'.

6. AE19303 SOLID MECHANICS FOR AIRCRAFT STRUCTURES course

- This subject may be renamed as 'Solid Mechanics and Basics of Aircraft Structures'.
- The contact hours may be readjusted as 9, 9,10,8 and 9 for units I, II, III, IV and V respectively.
- The course objective 'apply basic equation of simple torsion in designing shafts and helical springs' may be rewritten as 'comprehend the role of torsion in designing shafts and helical springs'.
- It is suggested to add some basic knowledge of Column in Unit V.
- Include Stress, strain curve and moment of inertia and thermal stress.
- In the course out comes the word like 'examine' and 'find' may be replaced with 'determine' or 'obtain'.

7. AE19304 AERO ENGINEERING THERMODYNAMICS course

- It is suggested to change the syllabus completely.
- The third unit may be renamed as 'Basics of Propulsion Systems'.
- There are certain common topics between the subject 'Basics of Aeronautical Engineering' and 3<sup>rd</sup>&5<sup>th</sup> chapters of Aero Engineering thermodynamics- like rocket motor and jet engines. To the extent possible the repetition may be avoided.
- Latest edition of text books may be included.
- The fifth course objective may be rewritten as 'to understand the basic heat transfer mechanisms and jet engine performance parameters'.

8. If it is possible merge any two of the Fluid Mechanics Laboratory, Strength Laboratory or Thermodynamics Laboratory and introduce any UAV Laboratory or Laboratory Course based on core Aeronautical.

9. It is suggested to add some basic aerodynamic experiments in AE19305 Fluid Mechanics and Machinery Laboratory also add in the same passion to AE19306 Strength of Materials laboratory and AE19307 Thermodynamics laboratory.

10. AE19305 FLUID MECHANICS AND MACHINERY LABORATORY course

- The 1<sup>st</sup> course outcome may be rewritten as 'to determine the mass flow rate in a duct using a venture meter.'



- The 3<sup>rd</sup> course objective may be rewritten as 'to understand the procedure for estimation of performance of pumps and turbines'

#### 11. AE19305 STRENGTH OF MATERIALS LABORATORY course

- The following course objectives have to be rewritten

- |  |
|--|
| ▪ understand the knowledge of material hardness ( to understand the importance of material physical property like hardness)    |
| ▪ gain the knowledge on tension ( to acquire knowledge on tensile testing of materials)  |
| ▪ understand the impact strength of the materials ( to familiarize the students with impact testing methodology for materials) |
| ▪ acquire the knowledge fatigue test ( to gain knowledge on fatigue testing method)  |
| ▪ know the block compression test using UTM ( to understand the procedure for block compression testing)                       |

#### 12. AE19305 THERMODYNAMICS LABORATORY course

- In the list of experiments and elsewhere in the text replace the word 'solid' with 'a solid material'.
- The number of course objectives and course outcomes is only 4 each. Include one more each.

13. It is suggested to change the title of EN19401 English Proficiency Laboratory.

14. The mapping of COs and POs may be relooked. Out of 12 POs, only three or four of POs are mapped as relevant. It will augur well, if more POs are made relevant to COs. In general, out of 12 POs, at least 5 POs should be relevant for a CO.

15. While going for NBA, properly phrasing the Course outcome and course objective and concentrate on CO and PO Mapping. It has 65 marks allocated for mapping alone.

#### 16. AE19401 AERODYNAMICS I course

- The 4<sup>th</sup> and 5<sup>th</sup> course objectives may be corrected:

- |  |
|--|
| ▪ know the basics of airfoil wing theory and its applications. ( familiarize the fundamentals of airfoil and wing theories and their applications) |
| ▪ learn the boundary layer theory and its problems ( learn boundary layer theory and its applications)   |

- Include basics of vector calculus in unit II and include continuity, energy and momentum equation in Unit I. If it is possible include Jacobin matrix in Unit III.

- The course outcomes of Aerodynamics-1 may be modified as:

- |   |
|---|
| ▪ apply the basic equation to the aerodynamics. ( apply conservation laws for airflow problems and their solutions) |
| ▪ solve and optimize the aircraft wing performance. ( determine aircraft wing aerodynamic                           |





performance)
▪ apply Joukowski transformation to fluid flow problems.
▪ examine airfoil and wing characteristics. ( calculate aerodynamic characteristics of wing and airfoil)
▪ apply boundary layer theory to predict flow performance ( apply boundary layer theory for estimation of skin friction drag)

- The text books can be of latest edition, preferably 2015 or later.

#### 17. AE19402 AIRCRAFT PROPULSION course

- The 2<sup>nd</sup> course objective may be modified: familiarize with jet propulsion components and its methods. ( familiarize with operating principle of jet propulsion method).
- Reshuffle the Unit and include Ramjet concept.
- The course outcomes may be modified:

▪ analyze overall performance of an aircraft engines. (determine aircraft engine performance parameters)
▪ compare and contrast the relation between area ratio and external deceleration ratio for diffuser. (calculate diffuser performance in terms of geometrical and operational parameters)
▪ judge the combustion mechanisms of gas turbine engine. (apply combustion mechanism principles to determine combustion chamber performance)
▪ examine the operating characteristics of compressors (determine performance characteristics of compressors)
▪ calculate the operating characteristics of turbine (calculate performance characteristics of turbines)

- Try to include latest textbook "Hand book of Gas turbine by Boyce" or replace the Cohen, H. Rogers" instead of Hill, P.G. & Peterson in text book.

#### 18. AE19403 AIRCRAFT STRUCTURES I Course

- The course objectives may be modified:

▪ understand the linear static analysis of determinate structure(s)
▪ understand (familiarize with) the linear static analysis of indeterminate structure
▪ know the energy theorem and their application – (learn energy theorem and its application)
▪ gain the knowledge of column and their critical load (to learn structural behaviour of columns under different loading conditions)
▪ know the failure theory on material ( to understand failure theory of materials)



- The 4<sup>th</sup> and 5<sup>th</sup> course outcomes may be modified:

- |  |
|--|
| ▪ compute different numerical methods available to solve a single structural problem. ( to apply different numerical methods for the solution of aircraft structural problems) |
| ▪ examine the structural failures using failure theories. (determine the structural failures using failure theories)   |

- The 2<sup>nd</sup> text book can be of latest edition, preferably 2015 or later. The 3<sup>rd</sup> and 4<sup>th</sup> reference books do not have year of publication.

#### 19. AE19404 AIRCRAFT SYSTEMS AND INSTRUMENTS course.

- Text books and references may be latest edition (preferably after 2015).
- The contact hours may be rearranged for units – 9,9,9,10 and 8 for units I,II,III,IV and V respectively.
- The course outcomes 4 and 5 may be modified:

- |   |
|---|
| ▪ acquire and interpret data from various aircraft instruments. (interpret data acquired by basic aircraft instruments) |
| ▪ utilize the various cockpit controls. (acquire knowledge on the cockpit control systems)                              |

#### 20. AE19405 AERODYNAMICS LABORATORY course

- The course objectives may be modified:

- |   |
|---|
| ▪ understand the flow pattern around the airfoil (gain practical knowledge on flow pattern around airfoil)  |
| ▪ know the wind tunnel calibration (familiarize with subsonic wind tunnel calibration)  |
| ▪ gain the knowledge of wind tunnel balance (to know the procedure on the use of wind tunnel balance to determine aerodynamic forces and moments) |
| ▪ learn about the various cylinders pressure distribution (to understand practically on pressure distribution pattern on cylinders)               |
| ▪ gain knowledge around the airfoil (to gain knowledge on the use of flow visualization methods)  |

- It is suggested to remove the subsonic flow visualization experiment.
- Rephrase the 'surface and flow pattern visualization' experiment as surface flow visualization.
- The course outcomes may be modified:

- |  |
|--|
| ▪ examine the flow around the airfoil (practically examine the air flow around bodies by flow visualization methods) |
| ▪ examine the pressure using wind tunnel (obtain pressure distribution in a wind tunnel)                             |
| ▪ analyze the wind tunnel balance (to use and operate a wind tunnel balance)   |





- determine the pressure around the cylinder (obtain pressure distribution over a cylinder)
- determine the lift and drag around the airfoil (determine lift and drag forces produced by bodies in external airflow)

## 21. AE19406 AIRCRAFT STRUCTURES LABORATORY – I course

- Advised to include composite material experiments.
- The course objectives may be modified:
  - understand the deflection due to load for various beams (to understand the behaviour of deflection of various beams under different loads)
  - familiarize the Young's modulus of the materials (to understand the practical importance of Young's modulus of materials)
  - gain the knowledge of reciprocal theorem (to familiarize with reciprocal theorem)
  - know about the properties of thin cylinder under pressure (to acquaint with mechanical properties of thin cylinder under internal pressure)
  - understand about the superposition (practically understand the principle of superposition)

## 22. In Semester V

- AE19502 Rocket Propulsion may be renamed as AE19502 Ramjet & Rocket Propulsion.
- AE19504 Aircraft General Engineering Maintenance Practices may be renamed as 'AE19504 General Engineering Practices for Aircraft Maintenance'

## 23. In Semester VI

- AE19604 Aero CAD and CAM Laboratory may be renamed as 'AE19604 CAD&CAM Lab for Aeronautical Applications'

## 24. In Professional Electives

- AE19153 Missile Technology as Professional Elective -I may not be suitable. AE19451Cryogenic Engineering in Professional Elective - IV list may replace this.AE19153 Missile Technology can go to Professional Elective-IV.
- AE19454 Turbulent Flow theory may be renamed as AE19454 Theory of Turbulent Flows.
- AE19152 Space Mechanics and AE19154 Orbital Mechanics need not be in the same list. Attending classes for AE19154 Orbital Mechanics may need some knowledge in Space Mechanics.
- AE19453 Viscous Flow Theory and AE19254 Boundary layer theory generally have more or less same syllabus. Otherwise, you have to devise syllabus for AE19254 Boundary Layer Theory only for incompressible and compressible airflows. AE19453Viscous Flow Theory can cover low Reynolds number flows and other flows of non-aeronautical applications.

25. It is advised to include some aircraft pollution inMC20201Environmental Science and Engineering course.



26. It is suggested to include some aircraft wiring methods in EE20201 Basic Electrical Engineering course.
27. It is suggested to offer 'Elementary Space Mechanics and Rocketry' instead of the AE19801 Rockets and Missiles course from Gate Syllabus.
28. It is advised to make sure that the Engineering graphics syllabus should be prepared with the industry feedback and their expectation.
29. For one credit courses like NPTEL syllabus were tough so it is advised to assess the marks and grade accordingly.
30. The comments made in R-2019 pertaining to 3<sup>rd</sup> to 8<sup>th</sup> semesters & open electives may be considered for R-2020 Curriculum also. It seems the curriculum is same for both from 3<sup>rd</sup> semester onwards.



**Dr.R.Arravind**  
**HoD / AERONAUTICAL – BoS (Chairman)**





**PAAVAI ENGINEERING COLLEGE**  
(Autonomous)  
**DEPARTMENT OF AGRICULTURE ENGINEERING**

Minutes of Sixth Board of Studies Meeting

Venue: Online mode through Microsoft Teams platform

Date and Time: 11.09.2020, 3 p.m

Minutes of Sixth Board of Studies meeting held on September 11<sup>th</sup> 2020 at 3.00 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.K.Vishnubharth	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.S.Thambidurni	Assistant professor/Farm Machinery	Academic Expert	Department of Farm Machinery and Power Engineering, Agricultural Engineering College & Research Institute, Trichy
5	Mr.N.Meganathan	Managing Partner	Industrial Expert	Kongunad Tractors, Namakkal
6	Ms.S.Divya Priya	Tnpse Aspirant	Alumni	Paavai Engineering College
7	M.Janardhanan	Asst.Professor/Agri	Members	Paavai Engineering College
8	S.M.Murugesan	Asst.Professor/Agri		
9	N.Satheeswaran	Asst.Professor/Agri		
10	Dr.A.Vivekanandhini	Asst.Professor/Agri		
11	D.ANANDAN	Asst.Professor/Agri		
12	P.Arthiya	Asst.Professor/Agri		
13	M.Bhuvaneswari	Asst.Professor/Agri		
14	A.Meignanmoorthi	Asst.Professor/Agri		
15	A.Subashini	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. To discuss the Curriculum and syllabus of 3<sup>rd</sup> & 4<sup>th</sup> semester under Regulations 2019 for the students admitted in the academic year 2019-2020

4. To discuss the Curriculum and syllabus of first & second 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

### **III AND IV SEMESTER**

#### **1. A119406- Drawing of Farm Structure laboratory**

Members suggested that, to interchange the course A119307 (Fluid mechanics & Strength of Material Lab) and A119406 Drawing of Farm Structure laboratory from the third semester to the fourth semester and vice versa respectively.

#### **2. A119301-Principles and Practices of Crop Production**

Members suggested to add an objective on the production practices of cash crops, oil seeds and fiber crops.

#### **3. A119302-Surveying, Leveling and Farm Structures**

Members suggested to add Government subsidies regarding farm structure and cost of farm structures in the V unit.

#### **4. A119304 -Mechanics of Machines**

Members suggested to change the title of the first unit as Mechanics instead of Terminology

#### **5. A119501 -Operation of Farm Machinery and Equipment**

Members suggested to change the title of the course as Theory of farm machinery and equipment instead of Operation of Farm Machinery and Equipment

#### **6. A119604 -Soil Mechanics and Water Quality Laboratory**

Committee members suggested, to shift this lab from VI to V semester instead of A119507 (CAD Laboratory for Agriculture Engineering) .

#### **7. A119863 -Disaster Management**

Committee Members suggested that an open elective A119863 (Disaster Management) title of course to be changed as Environment impact assessment.



Chairman



# PAAVAI ENGINEERING COLLEGE

(Autonomous)

## DEPARTMENT OF CIVIL ENGINEERING

### Minutes of Sixth Board of Studies Meeting

Venue: Online mode through Microsoft Teams Platform

Date and Time: 20.06.2020, 10.30 a.m.

Minutes of the Sixth Board of Studies meeting held on June 20<sup>th</sup> 2020 at 10.30 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.	Mrs.J.Umanambi	Prof. & 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, Karur
7.	Mrs.K.Sharmiladevi	AP/Civil	Members	Paavai Engineering College, Namakkal
8.	Mr.P.Vigensh	AP/Civil		
9.	Ms.S.Gayathri	AP/Civil		
10.	Mr.N.Moorthi	AP/Civil		
11.	Mr.M.Rajkannan	AP/Civil		



The following agenda are discussed and approved

1. Chairman - BoS introduced the members of the Board of Studies,
2. Chairman -BoS briefed the members about the agenda,
3. To discuss the Curriculum of Students admitted in the year 2019-2020 of R 2019,
4. To discuss the 3<sup>rd</sup> and 4<sup>th</sup> Semester Syllabus of UG and PG Students admitted in the year 2019-2020 of R 2019,
5. To discuss the Curriculum of Students admitted in the year 2020-2021 of R 2019,
6. To discuss the 1<sup>st</sup> and 2<sup>nd</sup> Semester syllabus of Students admitted in the year 2020-2021 of R 2019.

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

#### **UG - Regulation 2019**

#### **III SEMESTER**

##### **1. Plane & Geodetic surveying**

- The committee suggested to add the topic "Remote sensing & GIS" in the Unit V.

##### **2. Construction materials , Techniques & Practices**

The committee suggested to

- Include specific gravity test for cement and aggregates in Unit II.
- Include S.S.Bhavikatti "Building Material & construction" text book and change the M.S.Shetty "Concrete technology" as reference book.

##### **3. Construction materials Laboratory**

The committee suggested

- To include Grading of coarse aggregates, Water absorption Test for aggregates.
- Elongation & Flakiness Index test to be Excluded and included in Highway Engineering Laboratory.
- To Combine Impact value & Crushing strength test as one Experiment and to be included in Highway Engineering Laboratory.
- Fineness & Specific gravity test to be combined as one experiment.
- Consistency, Initial & Final Setting time to be combined as one experiment.
- Soundness test and Compressive strength of cement cube to be included.





#### **4. Plane & Geodetic surveying Laboratory**

The committee suggested

- To remove the words "Study of" from Experiment number 1 & 11.

#### **IV SEMESTER**

The committee suggested the following points to

##### **1. Strength of Materials**

- Include the topic "Thin cylindrical & Spherical shells" at the end of Unit I.

##### **2. Applied Hydraulic Engineering**

- Include Modi P.N and Seth, "Hydraulics & Fluid Mechanics including Hydraulic Machines" book as text book and shift the Jain.A.K. "Fluid Mechanics" as reference book.

##### **3. Hydraulic Engineering Laboratory**

- Include determination of coefficient of discharge for mouthpiece together with orifice.

##### **4. Highway Engineering Laboratory**

- Exclude Sieve analysis, Specific gravity & Water absorption test on aggregates.
- Include Crushing strength test along with Impact factor test as one Experiment.
- Include Ring & Ball test in Bitumen testing.

##### **5. One credit Course**

- Rename the one credit course "Building Planning & Vaasthu" as Building Planning

PG - Regulation 2019

The committee suggested the following points,

#### **III SEMESTER**

- The name of the courses "Design of Prestressed concrete structures & Design of Wind & Cyclone Effects on Structures" renamed as "Prestressed concrete structures & Wind & Cyclone Effects on Structures"

##### **1. Analysis of Laminated Composite Plates**

- To include the topics "geometric & physical definitions, natural and man-made composites, types & classification of composites with its application" in Unit I.

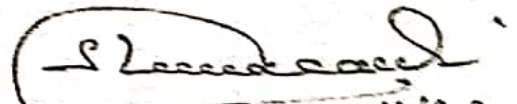


### 1. Analysis of Laminated Composite Plates

- To include the topics "geometric & physical definitions, natural and man-made composites, types & classification of composites with its application" in Unit I.
- To include "Finite Element modeling of Composites and Sandwich Laminates" by S.K.Singh and A.Chakrabarti, Lambert Academic Publishing, ISBN: 978-3-659-23481-1 in reference books.

### 2. Fracture Mechanics

- To rename the title of Unit III as "Plasticity and Crack detection technique"


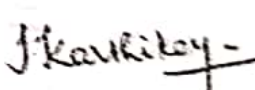
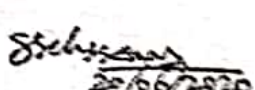

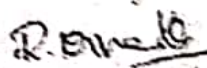
  
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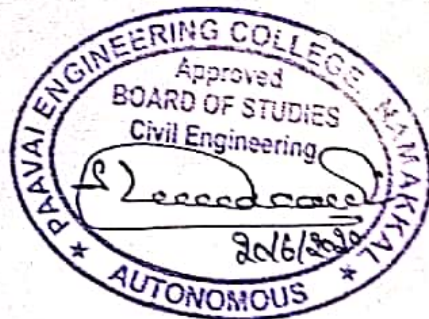
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Professor and Head/Chairman-BoS Civil

Sir/Madam,

Kindly affix your digital signature and resend it to us.

- |                          |                      |  |
|--------------------------|----------------------|--|
| 1. Dr.K.Chinnaraju       | - University Nominee | -               |
| 2. Dr.J.Karthikeyan      | - Academic Expert    | -               |
| 3. Dr.S.S.Chandrasekaran | - Academic Expert    | - <br>20/6/2020 |
| 4. Mr.Rajaram            | - Industry Expert    | - <br>20/6/2020 |
| 5. Mrs.R.Nivetha         | - Alumni             | - <br>20/6/2020 |





**PAAVAI ENGINEERING COLLEGE**

**(AUTONOMOUS)**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**Minutes of the Board of Studies Meeting**

**Date and Time: 03.07.2020, 11.30 a.m.**

1. Dr.A.Suphalakshmi, Chairman / BoS, welcomed the following internal and external members to the 6<sup>th</sup> meeting (online thru Microsoft teams app) of Board of Studies.

S.No.	Name& Designation	Category
1.	Dr.H.Khanna Nehemiah Professor, Anna University, Chennai.	University Nominee
2.	Dr.T.Thenmozhi, Associate Professor/CSE, Vellore Institute of technology, Vellore.	Academic Expert
3.	Dr.T.Senthil Kumar, Associate Professor/CSE, Amirtha School of Engineering, Coimbatore.	Academic Expert
4.	Mr.S.Sathish Kumar, Consultant, HCL Technologies, Chennai.	Industry Expert
5.	Mr.Basant Kumar Soni, Software Architect, Virtusa Technologies, Chennai.	Alumni
6.	Dr.D.Banumathy, Prof. /CSE,PEC.	Internal Members
7.	Mrs.P.Renukadevi,ASP/CSE,PEC.	
8.	Mr.S.Sivaganesh,AP/CSE,PEC.	
9.	Mr.J.Karthick,AP/CSE,PEC.	
10.	Mrs.M.Revathi,AP/CSE,PEC.	



2. Chairman / BoS briefed the members about agenda.

- B.E., and M.E., Computer Science Engineering Passing of the following details:
  - Curriculum for the students admitted in the academic year 2020-2021 Regulation-19.
    - ✓ Syllabi of 1<sup>st</sup> and 2<sup>nd</sup> semester UG.
  - Curriculum for the students admitted in the academic year 2019-2020 Regulation-19.
    - ✓ Syllabi of 3<sup>rd</sup> and 4<sup>th</sup> semester UG.
    - ✓ Curriculum and syllabi of 3<sup>rd</sup> and 4<sup>th</sup> semester PG.
  - One Credit Courses and Online Courses under R2019.
- PO's, PEO's and PSO's are presented before the BoS members.

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

- The keyword called "sustainable" to be added in the vision and mission of the department and the phrase "well qualified Computer Science Engineers" -specified in the Vision to be changed as "well qualified Engineers".
- There can be a breakup and mark allocation for "System Design" in Examination pattern (Project Work), where the students can highly concentrate on System Framework/System Design while doing and presenting the projects.
  - ✓ This can be done by reducing marks allotted for Hardware Simulation tool Required and compensating it for System Design.
- Marks allotted for Viva Voce is to be increased.
- In the Assessment Procedure, Change the component "Presentation" to "Demonstration" and change the term "Innovative Topic" to "Innovative Idea".
- Publication of the students' work in reputed journals can be given marks to motivate the students' community. In spite of this, they can be allowed for inter-department presentation to explain their project work by adding weightage to their internal project assessment.





The members of the board suggested the following changes in the curriculum and syllabi of B.E-CSE- Regulation 2019.

- Additional Programming Lab like "Office Suite" (1 credit) can be added in the 1<sup>st</sup> semester where-in access tools, word, spreadsheet, power point, database packages can be included.
- Remove the topic "Recursion" from Unit 3 of Programming in C.
- Stick on to single text book for all the subjects in the curriculum.
- The subject "Basic Electrical Engineering" to be given as "Basic Electrical and Electronics Engineering".
- The subject "Physics for Information Science" to be offered as "Physics" to avoid discrepancies when they apply for higher studies in foreign or other universities.
- Change the subject name "Data Structures with C" to "Data Structures". Remove the unit "Graphs" and the 4 units can be mapped to 5 units.
- Reduce the syllabus for the subject "OOPS with Java".
- To give embedded part as Content beyond syllabus for the subject - Computer Architecture.
- Remove the topic "NP Completeness" from unit 5-DAA. Replace DAA(3<sup>rd</sup> sem) to Python(5<sup>th</sup> sem).
- Hands-on Lab to be offered for the students during 4<sup>th</sup> semester in parallel with Microprocessor and Micro Controller theory course.
- Add about Multicore processor, Parallel processor, Fault tolerant processor in the syllabus replacing the obsolete conventional syllabus in MPMC.
- Remove the topic "Organization of records and files" from unit 5-Query Optimization in DBMS. The topic "Mapping entity relationship model to entity relations" is to be added. Unit 5 can be reduced as the syllabus is vast.
- Could bring Industry experts to deliver the advanced concepts (like Agile) to the students. Assignments can be given on those topics.
- The topic "Process Scheduling" from the subject Operating Systems can be changed to "Process Control Block".
- Replace the subject "Artificial Intelligence" from the 5<sup>th</sup> semester to "Machine Learning".
- Case Studies can be included for the laboratories by reducing the exercises to 6 or 7.
- The subject "Formal Languages and Automata" can be replaced as "Mobile Application Development" (associated lab to be added). Basics of Formal Languages and Automata



to be given in the subject "Discrete Mathematics".

- In 6<sup>th</sup> semester, the subject "Artificial Intelligence Lab" to be replaced as "Big Data Analytics/ Query Language Lab.
- Can include ERP software Lab either in 6<sup>th</sup> or 7<sup>th</sup> semester of the curriculum.
- The subject "Compiler Design" from the 7<sup>th</sup> semester can be shifted to previous semesters or can be removed from the curriculum.
- Relative elective papers to be grouped together in a particular semester.

The members of the board suggested the following changes in ME-CSE regulation 2019.

- Remove "Mobile Application Development" and offer advanced paper in curriculum.
- Reframe the syllabus for the subject High-Performance Computing.
- All the 5th units of all subjects in M.E curriculum can be case studies.
- Change the elective subject "Software Reliability" to some other.
- Reduce the syllabus content of Business Analytics (Open Elective).

4. Chairman thanked all the members for their active participation, suggestions and contribution made for the confirmation of the B.E. Computer Science and Engineering Syllabi (1<sup>st</sup>, 2<sup>nd</sup> semester for the students admitted during the academic year 2020-2021 and 3<sup>rd</sup>, 4<sup>th</sup> semester for the students admitted during the academic year 2019-2020) of 2019 Regulation, M.E Computer Science and Engineering Curriculum Structure and Syllabi (3<sup>rd</sup> and 4<sup>th</sup> semester) of 2019 Regulation, One credit courses and Online Courses under 2019 Regulation to the Academic Council.





4/2020

Mail - Dr.A.Suphalakshmi - Outlook

**Fw: Paavai\_BOS\_Minutes\_Khanna Sir Approval**

Revathi Mohan <revathimohanpec@paavai.edu.in>

Tue 9/15/2020 19:21

To: PEC CSE Hod <peccsehod@paavai.edu.in>

---

**From:** nehemiah@annauniv.edu <nehemiah@annauniv.edu>

**Sent:** 15 September 2020 18:54

**To:** Revathi Mohan <revathimohanpec@paavai.edu.in>

**Subject:** Re: Paavai\_BOS\_Minutes

Dear Madam,

I have gone through the minutes of the BOS. The minutes is approved.

Dr H Khanna Nehemiah  
Professor  
Ramanujan Computing Centre  
Anna University  
Chennai - 600025

**Fw: Paavai\_BOS\_Minutes\_Senthil Sir**

Revathi Mohan <revathimohanpec@paavai.edu.in>

Tue 9/15/2020 19:28

To: PEC CSE Hod <peccsehod@paavai.edu.in>

---

**From:** Dr. Senthilkumar T (CSE) <t\_senthilkumar@cb.amrita.edu>

**Sent:** 08 September 2020 18:09

**To:** Revathi Mohan <revathimohanpec@paavai.edu.in>

**Subject:** Re: Paavai\_BOS\_Minutes

Madam

Thanks for sharing the BoS Minutes. I place my approval for the BoS Minutes.

Best Wishes to the team.

Dr.T.Senthil Kumar  
Associate Professor  
Computer Science and Engineering Department  
Amrita School of Engineering  
Amrita Vishwa Vidyapeetham  
Ettimadai P.O  
Coimbatore-641112  
Email : t\_senthilkumar@cb.amrita.edu,senthan111@gmail.com  
Mobile-9842977522



**Re: Paavai\_BOS\_Minutes**

Revathi Mohan <revathimohanpec@paavai.edu.in>

Wed 9/16/2020 15:20

To: PEC CSE Hod <peccsehod@paavai.edu.in>

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**From:** Thenmozhi T <thenmozhi.t@vit.ac.in>

**Sent:** Tuesday, 15 September, 2020, 7:40 PM

**To:** Revathi Mohan

**Subject:** Re: Paavai\_BOS\_Minutes

Dear Mam,

Hope all is fine . .

Went through the BOS Minutes.

All the suggestions have been carried out.

I hereby approve the syllabus.

Regards,

Thenmozhi T

SCOPE

---

**From:** Revathi Mohan <revathimohanpec@paavai.edu.in>

**Sent:** Tuesday, September 15, 2020 7:24:24 PM

**To:** Thenmozhi T

**Subject:** Fw: Paavai\_BOS\_Minutes

---

**From:** Revathi Mohan <revathimohanpec@paavai.edu.in>

**Sent:** 08 September 2020 16:57

**To:** nehemiah@annauniv.edu <nehemiah@annauniv.edu>; Mr.T.SENTHIL KUMAR <t\_senthilkumar@cb.amrita.edu>; thenmozhi.t@vit.ac.in <thenmozhi.t@vit.ac.in>

**Cc:** bbbasantsoni@outlook.com <bbbasantsoni@outlook.com>

**Subject:** Paavai\_BOS\_Minutes

Dear BOS Members,

Hope you all in good health.

Herewith I have attached the BOS minutes for your perusal. Kindy go through and approve it(Send me a reply mail stating that the minutes mentioned are approved).

Thanks & Regards,

Revathi.M

Assistant Professor

**Re: Paavai\_BOS\_Minutes**

Revathi Mohan <revathimohanpec@paavai.edu.in>

Wed 9/16/2020 15:20

To: PEC CSE Hod <peccsehod@paavai.edu.in>

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**From:** Sathish Kumar <sathishkumarjs33@gmail.com>

**Sent:** Tuesday, 15 September, 2020, 7:38 PM

**To:** Revathi Mohan

**Subject:** Re: Paavai\_BOS\_Minutes

Dear Madam,

The minutes mentioned in the trail email is approved.

Thanks & Best Regards,  
Sathishkumar S

On Tue, Sep 8, 2020, 6:30 PM Revathi Mohan <revathimohanpec@paavai.edu.in> wrote:

---

**From:** Revathi Mohan <revathimohanpec@paavai.edu.in>

**Sent:** 08 September 2020 16:57

**To:** [nehemiah@annauniv.edu](mailto:nehemiah@annauniv.edu) <[nehemiah@annauniv.edu](mailto:nehemiah@annauniv.edu)>; Mr.T.SENTHIL KUMAR  
<[t\\_senthilkumar@cb.amrita.edu](mailto:t_senthilkumar@cb.amrita.edu)>; [thenmozhi.t@vit.ac.in](mailto:thenmozhi.t@vit.ac.in) <[thenmozhi.t@vit.ac.in](mailto:thenmozhi.t@vit.ac.in)>

**Cc:** [bbbasantsoni@outlook.com](mailto:bbbasantsoni@outlook.com) <[bbbasantsoni@outlook.com](mailto:bbbasantsoni@outlook.com)>

**Subject:** Paavai\_BOS\_Minutes

Dear BOS Members,

Hope you all in good health.

Herewith I have attached the BOS minutes for your perusal. Kindy go through and approve it(Send me a reply mail stating that the minutes mentioned are approved).

Thanks & Regards,  
Revathi.M  
Assistant Professor



4/2020

Mail - Dr.A.Suphalakshmi - Outlook

**Fw: Paavai\_BOS\_Minutes\_Basant**

Revathi Mohan <revathimohanpec@paavai.edu.in>

Tue 9/15/2020 19:24

To: PEC CSE Hod <peccsehod@paavai.edu.in>

---

**From:** bbbasantsoni@outlook.com <bbbasantsoni@outlook.com>

**Sent:** 14 September 2020 20:41

**To:** Revathi Mohan <revathimohanpec@paavai.edu.in>

**Subject:** Re: Paavai\_BOS\_Minutes

Hi Revathi Mam,

The MOM is approved.

Regards,  
Basant Soni

# **PAAVAI ENGINEERING COLLEGE**

(AN AUTONOMOUS INSTITUTION)

**Pachal, Namakkal**

## **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

### **BOARD OF STUDIES**

Minutes of the 6<sup>th</sup> Board of Studies meeting held on June 27<sup>th</sup> 2020, at 11.00 a.m.through online mode after the approval from Anna University.

#### **Agenda:**

1. The Curriculum of Regulations 2019 for 2019-2020 admitted students and 2020-2021(yet to be admitted) and syllabus for second year of study in Choice based Credit System of the B.E. Electronics and Communication Engineering Programme were discussed.
2. The Curriculum and syllabus for second year of study in Choice based Credit System of the M.E - Communication Systems Programme for the students admitted from 2019 academic year onwards were also discussed.
3. List of One Credit Courses, examination pattern, project rubrics, credits summary were also added in the presentation and discussed.
4. Any other subjects

#### **SUGGESTIONS BY BOS EXPERTS**


- ❖ The committee members gave the following suggestions,
  - Professional Core courses for third and fourth semester for Regulations 2019 were approved.
  - Professional Elective courses for various semesters with different domains under Regulations 2019 were approved.
  - List of One Credit Courses for Undergraduate and Postgraduate programmes along with grading were also approved.
  - Regarding the Curriculum, they suggested that Antennas and Microwave Engineering could be two separate courses.
  - Syllabus for Analog electronics could be revised as it covers many concepts.
  - For 2020-2021 admitted students, Circuit theory or Network Analysis can be included apart from Electron Devices. In this regard, Electrical Circuits and Measurements core paper which covers circuit theory, measurement concepts and its syllabus were also approved.



- Electron Devices, Circuits and Devices Laboratory and Engineering Practices (Electronics) experiments, were discussed and approved for 20-21 academic year students.
- Analog and Digital electronics, Digital Principles and System Design and its related Laboratory to be offered to other Departments were also discussed.
- Open Elective Courses were approved and modifications in the title were suggested. Basics of Communication could be “Basics of Communication Engineering”. The “Introduction” added in the title of the subject “Introduction to Nanotechnology” could be revised.
- Latest editions or reprint on latest year should be specified in text books or reference books for both UG and PG programmes.
- Norman.S.Nise text book can be preferred for Control Systems apart from the books mentioned in the syllabus.
- As far as Microprocessor and Microcontroller course syllabus is considered, Review of 8085 contents can be added and its related experiments could be added in Laboratory practice.
- Curriculum and syllabus for M.E - Communication Systems Programme (third and fourth semester) under Regulations 2019 were approved.
- In M.E - Communication Systems Programme, under Professional elective II-Fiber Optics could be renamed as Fiber Optic Communication and Networks.
- The following website were suggested by the Industry expert <https://meity.gov.in/content/meity-electronics-schemes> for the benefit of teaching and student fraternity.
- Alumnus suggested that the students need to be updated and certified in the emerging and industry needed professional courses which are in demand such as Database or ETL Administrator, Firewall and Network Defense, Automation tester and few more courses.
- The following suggestions given by the expert members will be carried out and passed to the Academic Council meeting.
- **Implementation of the 5<sup>th</sup> BoS suggestions for 19 Regulations were also discussed:**
  - Transmission Lines and Waveguides modified as RF Transmission Lines.
  - Television and Video Engineering changed as Display Technologies as suggested.
  - Concepts of IE3D and HFSS software included in Antenna syllabus.
  - Wireless network principles included in Wireless Communication.
  - In PG courses, integrated Lab and Theory could be implemented. Due to complications this integration was not carried out.

**BOS - PANEL OF EXPERTS AND MEMBERS**

S.No	Name	Designation	Position in the Committee	College / University / Industry
1.	Dr.M.Sudha	Professor & Head , ECE	Chairman	Paavai Engineering College
2.	Dr.K.Malathi	Professor , ECE	University Nominee	CEG Campus, Anna University, Chennai
3.	Dr.D.Sriram Kumar	Professor, ECE	Academic Expert	NIT, Trichy
4.	Dr. Kamalraj Subramaniam	Associate Professor & Head, BME	Academic Expert	Karpagam Academy of Higher Education, Coimbatore
5.	Mr.Pragadheeswaran Venkat	CEO	Industry Expert	Aries Biomedical Technology, Coimbatore
6.	Mr. S.Santha kumar	Programmer Analyst	Alumni	Cognizant Technology Solutions , Cochin
7.	Dr.S.Vijayakumar	Professor, ECE	Members	Paavai Engineering College
8.	Mrs.A.Samundeeswari	Associate Professor, ECE		
9.	Dr.R.Mohanapriya	Associate Professor, ECE		
10.	Mrs.E.Sangeetha	Associate Professor, ECE		
11.	Mrs.C.Vanaja	Associate Professor, ECE		
12.	Mr. S.Vijayakumar	Associate Professor, ECE		
13.	Mr.S.Loganathan	Assistant Professor, ECE		
14.	Mr. K.Ravishankar	Assistant Professor, ECE		
15.	Ms.S.Pavya	Assistant Professor, ECE		
16.	Mr. G.Nandhakumar	Assistant Professor, ECE		

  
**(Dr.M.SUDHA)**  
**CHAIRMAN**  
**BOARD OF STUDIES, ECE**



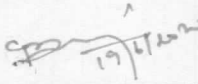
Date: 19.06.2020

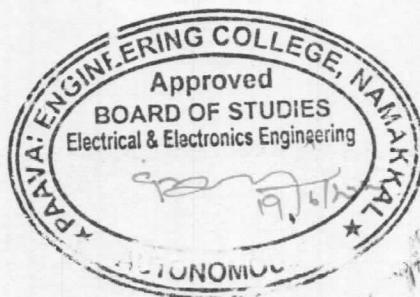
**Minutes of the Board of Studies Meeting**

**Venue: Department of Electrical and Electronics Engineering**

**Date and Time: 19.06.2020, 11.00 AM**

**Members Present**

S.No	Name	Designation	Position in the Committee	College / University / Industry	Signature with Date
1.	Dr.G.Balaji	HoD & Professor	Chairman	Paavai Engineering College	 19/6/2020
2.	Dr.R.P.Kumudhini Devi	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.R.Kandasamy	Plant Engineer	Industry Expert	TNPL, Karur	
6.	Mr.M.Ramamoorthy	Project Engineer Level 2	Alumini	DRDO, Bangalore	
7.	Dr.B.Murali Babu	Professor	Member	Paavai Engineering College	
8.	Dr.A.Rathinam	ASP/EEE			
9.	Dr.K.Jagatheesan	ASP/EEE			
10.	Mrs.G.Umamaheswari	ASP/EEE			
11.	Mrs.K.K.Poongodi	ASP/EEE			
12.	Mr.C.Arulkumar	ASP/EEE			
13.	Mrs.S.Suganya	AP/EEE			



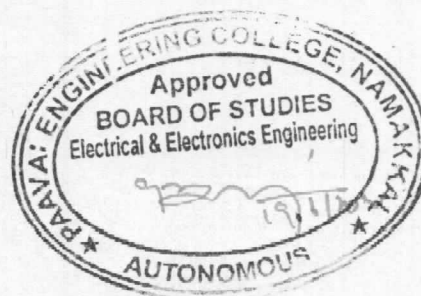
1. Chairman / BoS welcomed all members for the 6th meeting of Board of Studies.
2. Chairman / BoS introduced the members to the Board of Studies.
3. Chairman / BoS briefed the members about agenda.
  1. Chairman / BoS discussed the status of implementation of 5<sup>th</sup> BoS suggestions to the members of Board of Studies.
  2. B.E. Electrical and Electronics Engineering Passing of the following details:
    - Syllabi of Third and Fourth semester (academic year 2020-2021) for the batches of students admitted during the academic year 2019-2020 under 2019 Regulations.
    - Curriculum and Syllabi of First and Second semester (academic year 2020-2021) for the batches of students admitted during the academic year 2020-2021 under 2019 Regulations.
    - Amendment for the course control systems, control systems laboratory.
    - List of One credit courses for the UG students and grade equivalence.
    - NPTEL online courses
  3. M.E Power Systems Engineering passing of the following details
    - Syllabi of Third and Fourth semester the academic year 2020-2021 for the batches of students admitted in the academic year 2019-2020 under 2019 Regulations.
  4. 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:

- **EE19302 - Electrical Machines I:**
  - ✓ The Course objectives may be refined.
- **EE19303 - Electromagnetic Theory:**
  - ✓ The course shall be followed by Electrical Machines I
- **EE19401- Electrical Machines II:**
  - ✓ Author A.E. Fitzgerald may be given as text book and B.L.Therja as reference.
- **EE19402 - Control Systems:**



- ✓ State space analysis unit may be included.
- ✓ The course may be moved to fifth semester, instead of Control Systems, Signals and Systems shall be included in fourth semester.
- **EE19403 - Digital Logic Circuits:**
  - ✓ Unit-II contents may be elaborated.
- **EE19404 - Transmission and Distribution**
  - ✓ C.L.Wadwa may be given as text book.
  - ✓ Introduction to capacitance topic may be included in unit II.
- **EE19406 - Control Systems laboratory:**
  - ✓ Lab may be moved to fifth semester along with theory.
  - ✓ Position control and response of type 0 & type 1 systems experiments may be included.
  - ✓ Stability analysis experiments shall be modified.
- **EE19306 - Electrical Machines and Drives: (Mechatronics)**
  - ✓ The application related outcomes may be changed
- **EE19307 - Electrical Engineering laboratory: (Mechatronics)**
  - ✓ Alternator experiment may be removed and drives related experiments shall be included.
- **EE19309 - Electrical Machine Drives and Sensors:(Food Technology)**
  - ✓ Some topics related to application of electrical engineering may be included in Unit-V as food preservation concepts.
- Curriculum of UG course can be modified as per the suggestions given

#### **PG Curriculum and Syllabi**

The members of the board suggested the following:

- **PPS19554 - Dynamics of Linear system:**
  - ✓ Course may be modified to System Theory.
- **PPS19651 - Distributed Generation and Microgrid:**
  - ✓ Idea about different power sources may be included.
  - ✓ storage elements, batteries, supercapacitor concepts shall be encompassed.
  - ✓ Unit-V title may be modified.
- **PPS19652 - Soft Computing Techniques:**
  - ✓ Unit-IV title may be changed as Evolutionary Algorithms.



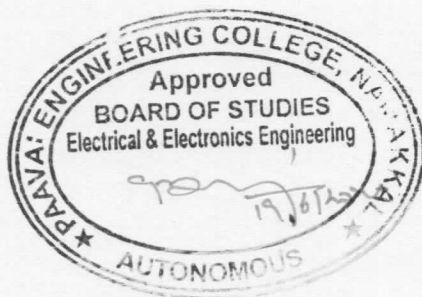


- **PPS19653 - Design of Substations:**

- ✓ The syllabus contents of all units shall be elaborated and the prescribed hours for the syllabus contents may be checked.

- Curriculum of PG course can be modified as per the suggestions given

3. Chairman/BOS thanked all the members for their active participation, suggestions and contribution made for recommending the B.E. Electrical and Electronics Engineering, M.E. Power Systems Engineering the syllabi of UG and PG 3<sup>rd</sup> and 4<sup>th</sup> semester of 2020-2021 for the students admitted during 2019-2020 and UG curriculum of 1<sup>st</sup> and 2<sup>nd</sup> semester for 2020-2021 admitted students to the academic council.



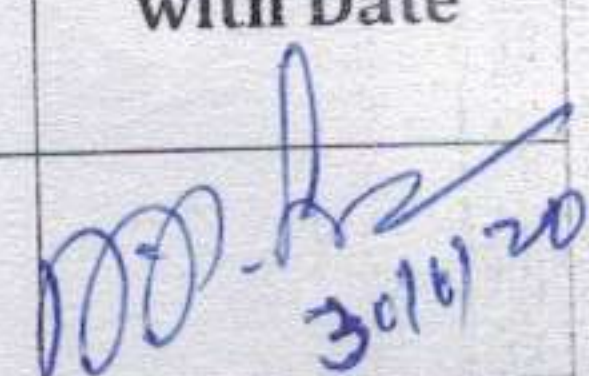
**Dr.G.Balaji**

Professor / Chairman – BoS (EEE)



**Minutes of the Board of Studies Meeting**  
**Venue: Department of Mechanical Engineering**  
**Date and Time: 30.06.2020, 11.00 AM**

**Members Present**

S.No	Name	Designation	Position in the Committee	College / University / Industry	Signature with Date
1.	Mr.A.P.Sivasubramaniam	HoD & Prof / Mech	Chairman	Paavai Engineering College.	 30/6/20
2.	Dr. K. Shanmuga Sundaram	Prof/ Mech	University Nominee	Department of Mechanical Engineering, Anna University, Chennai-600 025.	
3.	Dr.K.Jayabal	AP/ 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	Prof/ Mech			
8.	Dr.V.Subburam	Prof/ Mech			
9.	Dr.M.Makesh	Prof/ Mech			
10.	Dr.M.S.Vijayanand	ASP/ Mech			
11.	Mr.K.Muruga Bhoopathy	Assistant General Manager	Industry Expert	SAIL, Salem.	
12.	Mr.Kavin Lakshmanan	Senior Quality Engineer	Alumni	Shapoorji Pallonji Mideast LLC, Dubai.	





**Minutes of the Board of Studies Meeting**  
**Venue: Department of Mechanical Engineering**  
**Date and Time: 30.06.2020, 11.00 am**

1. Chairman / BoS welcomed all the members to the 6<sup>th</sup> 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 first and Second semester for the batches of students admitted in 2020– 2021 Under 2019 Regulations.
- Curriculum and Syllabi of third and fourth semester for the batches of students admitted in 2019– 2020 Under 2019 Regulations.

**M.E. Engineering Design:**

- Curriculum and Syllabi of third and fourth semester for the batches of students admitted in 2019-2020 under 2019 Regulations.
- Any other relevant matter

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

- **ME19303 Engineering Materials and Metallurgy:**
  - The topic of 'Introduction to semiconductors' can be added in Unit- V.
  - The topic 'Classification of Engineering materials' should come in beginning of the Unit-I
- **ME19402 Mechanics Of Materials:**
  - Unit- 3 'Torsion of Shafts and Springs' should be placed as 2<sup>nd</sup> Unit and 'Beams – loads and stresses' which is given as Unit-II can be brought to 3<sup>rd</sup> Unit.
  - The course objectives and outcomes should be changes in accordance with the above interchange of Units.
  - In the topic of 'Twist and torsion stiffness', remove the word 'twist' since both words imply the same meaning.
  - The title of Unit 1- 'Stress Strain Deformation of Solids' can be modified as 'Stress, Strain and Deformation of Solids'
  - The topics found in UNIT V such as 'Principal planes and stresses' and 'Mohr's circle of stresses' should come at the end of Unit- 1
  - In the reference books section, the book by "Beer F. P. and Johnston R" should come as the first book and 'Bansal' could be placed second.

**ME19302 Manufacturing Processes:**

- In Unit-1, the topic of 'Casting cleaning processes' can be changed more appropriately as 'Secondary finishing processes'.
- In Unit-2: Joining Processes, add the topic 'edge preparation' which is important for





welding. The title of the Unit can also be changed as 'Introduction to Joining Processes' as it deals only the basics of Joining Processes.

- In Unit 3: Bulk Deformation Processes, add sub-topics 'direct and indirect extrusions' under 'types of extrusions'.
- In Unit- 4 Sheet Metal Processes: Add basic processes like stamping, blanking, piercing, etc.

- **ME19401 Applied Thermodynamics :**

- A topic of "Waste recovery system" can be added at a suitable place.
- Reference books: NPTEL links and Swayam links can be added as reference material for all the subjects.

- **ME19403 Kinematics of Machinery:**

- Unit 1 portion is heavy and can be reduced by removing topics on 'ratchets' etc.
- In Unit 3, a topic on 'Kinematic Coefficiency' topic can be added.
- In the reference books section, AK Ghosh and Mallick book can be added.

- **ME19404 Metal Cutting Processes:**

- In Unit-, topics on 'Merchant circle - force analysis' and 'Heat transfer characteristics' can be included.
- The title of Unit 3 'Reciprocating and Milling machines' can be modified to suit the contents.
- In Unit- 4, the topic, 'Gear cutting' should come first and 'Gear finishing' should be last and also a topic on 'Shot peening' should be added.
- In Unit 5, the topic 'water machining' is irrelevant to the unit and hence to be removed.
- In the reference book section, one foreign author book can be added (Eg. Author: Kalpak Jain).

- **ME19406 Metal Cutting Processes Laboratory**

- Avoid the word 'Making' is inappropriate and should be avoided. ( For example, Making Keyway should be Keyway machining).

- **ME19407 STRENGTH OF MATERIALS LABORATORY**

- Test on Cement can be modified as compression test on concrete
- 'Column buckling test' can be added
- Compression test on cube added.

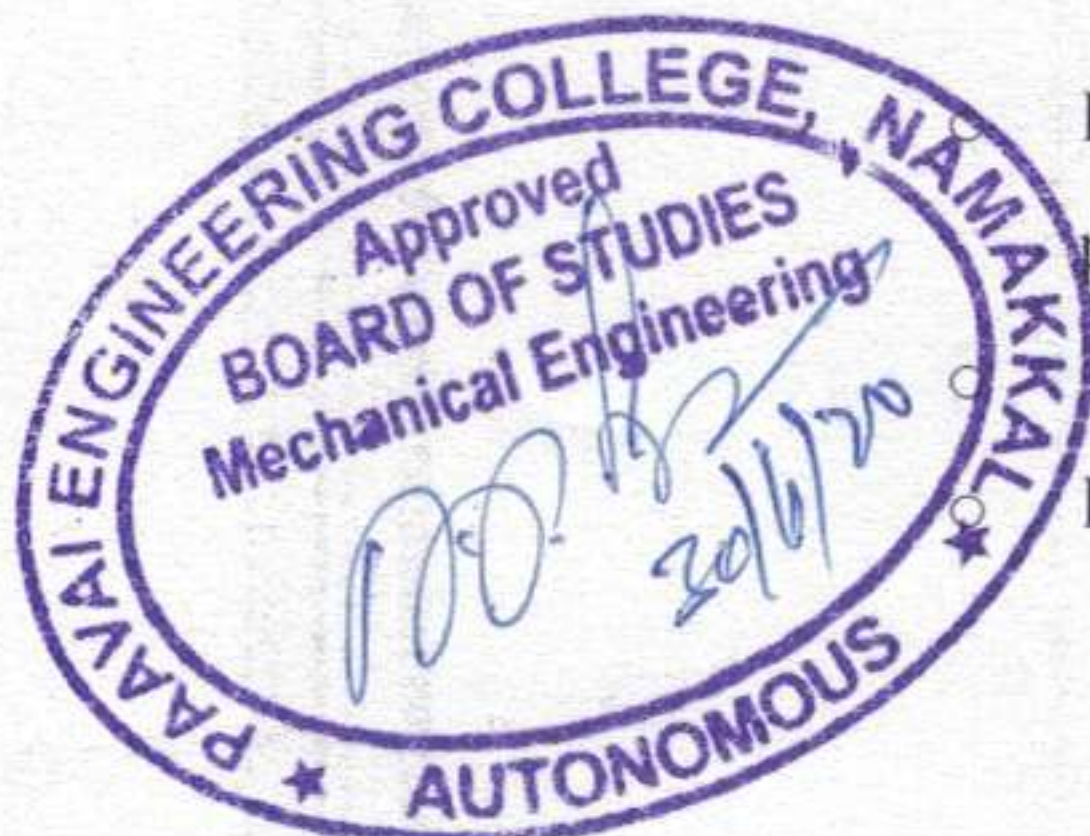
- **ME20101 ENGINEERING GRAPHICS**

- The title of Unit I should be 'Introduction to orthographic projection' instead of 'Introduction to Principal Planes'.
- In Unit II, instead of referring as 'Principal planes' it should be Principle planes (HP or VP) for clarity of understanding.

In Unit 4 also, the topics with reference to 'principle planes' should be mentioned properly as mentioned in Unit-II

The topic 'Introduction of Orthographic projection' should come in the 1<sup>st</sup> Unit itself.

In the reference books section, a book by N.D Bhatt should be included.





• **ME20202-BASIC MECHANICAL ENGINEERING**

- In Unit- 4, add a topic on 'Electric hybrid vehicle'.
- In Unit- 5 the topic 'Window and Split type room Air conditioner' should be 'Window and Split type room Air conditioners' ( typographical mistake)

**One Credit Courses:**

- Instead of mentioning commercial names of the packages, mention as 'Low end modeling packages' or 'High end modeling packages' or 'CFD analysis package' etc.
- DFMA (Design for Manufacturing and Assembly) package can be added in the one credit course.

1. Dr. K. Shanmuga Sundaram  
(University Nominee) -
2. Dr.K.Jayapal  
(Academic Expert) -
3. Dr.A.Vinoth Jebaraj  
(Academic Expert) -
4. Mr.K.Muruga Bhoopathy  
(Industry Expert) -

Mr.A.P.Sivasubramanian

HoD/ MECH. BoS (Chairman)



**Members**

5. Dr.M.Premkumar -
6. Dr.K.K.Ramasamy -
7. Dr.K.Sundara Murthy -
8. Dr.V.Subburam -
9. Dr.M.Makesh -
10. Dr.M,S,Vijayanand -

M.S.V. 20/01/20





Re: PAAVAI ENGINEERING COLLEGE 6th BoS MEETING held on 30.06.2020,

K.Shanmuga Sundaram <drkshanmugasundaram@gmail.com>

Thu 23-07-2020 12:12

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

Dear Sir,

I have gone through the minutes of the meeting and it is fine with me, and request the corrections indicated by Prof Jayabal and Prof Vinoth Jebaraj be suitably included.

Kind Regards,

Shan

Dr.K.Shanmuga Sundaram,

Professor in Mechanical Engineering,

Engineering Design Division, CEG Campus,

Anna University, Chennai.

Phone: 044 22357654, 22357656, 22357646

Fax: 044 22357744

Mobile: +91 9940155773

On Thu, Jul 9, 2020 at 2:31 AM PEC MECH Hod <[pecmechhod@paavai.edu.in](mailto:pecmechhod@paavai.edu.in)> wrote:

Respected Sir,

Here with I have attached the 6th BoS , Minutes of meeting details for your kind perusal. Kindly go through it and approve the same. If any more suggestions share with me.

Thank you,

With Regards

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 6th BoS MEETING held on 30.06.2020,

K Jayabal <jayabal@iiitdm.ac.in>

in 12-07-2020 10:15

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

Cc: drkshanmugasundaram@gmail.com <drkshanmugasundaram@gmail.com>; vinoth jebaraj <vjebbaraj@gmail.com>; kmbhoopathy@gmail.com <kmbhoopathy@gmail.com>; kmuruga\_bhoopathi@yahoo.com <kmuruga\_bhoopathi@yahoo.com>; LV KV <lakshkavin@gmail.com>; visugangga279@gmail.com <visugangga279@gmail.com>; dean academics <deanacademics@paavai.edu.in>

Dear sir,

The minutes of the meeting is fine with me. Please proceed further.

Please check in the following whether it is Unit 1 or other unit?

- **ME19403 Kinematics of Machinery:**

- Unit 1 portion is heavy and can be reduced by removing topics on 'ratchets' etc.

Regards,  
Jayabal

-----  
Dr. Jayabal K

Associate Professor in Mechanical Engineering

Indian Institute of Information Technology

Design and Manufacturing Kancheepuram

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

Melakottaiyur, Off Vandalur-Kelambakkam Road

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

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

On Thu, 9 Jul 2020 at 15:01, PEC MECH Hod <pecmechhod@paavai.edu.in> wrote:

Respected Sir,

Here with I have attached the 6th BoS , Minutes of meeting details for your kind perusal. Kindly go through it and approve the same. If any more suggestions share with me.

Thank you,

With Regards

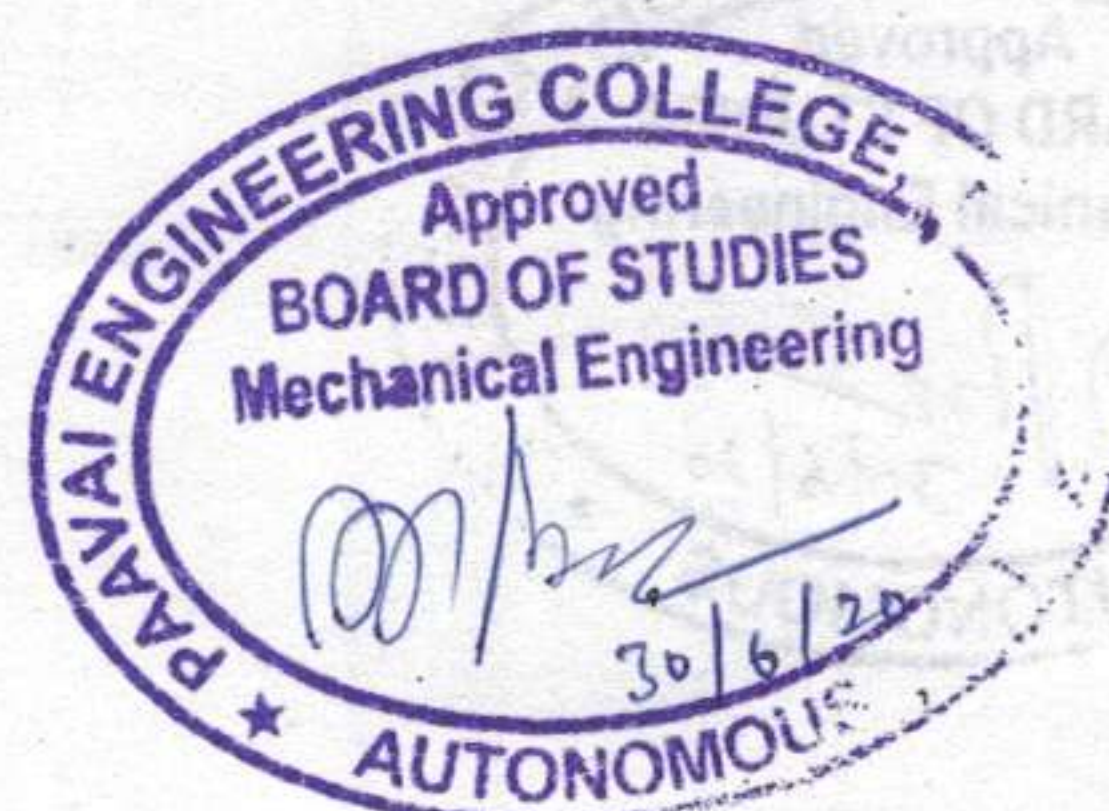
A.P.Sivasubramaniam., M.E., (Ph.D)

Head of the Department,

Department of Mechanical Engineering,

Paavai Engineering College,

Ph.No: 9842070288





Re: PAAVAI ENGINEERING COLLEGE 6th BoS MEETING held on 30.06.2020,

muruga bhoopathy kaliaperumal <kmbhoopathy@gmail.com>

Thu 09-07-2020 17:58

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

Dear sir,

I have gone through the attached the 6th BoS , Minutes of meeting details and I would like to approve the same.

Thank you,

Regards

K Muruga Bhoopathy  
DGM (SAIL)

On Thu, Jul 9, 2020 at 3:01 PM PEC MECH Hod <[pecmechhod@paavai.edu.in](mailto:pecmechhod@paavai.edu.in)> wrote:

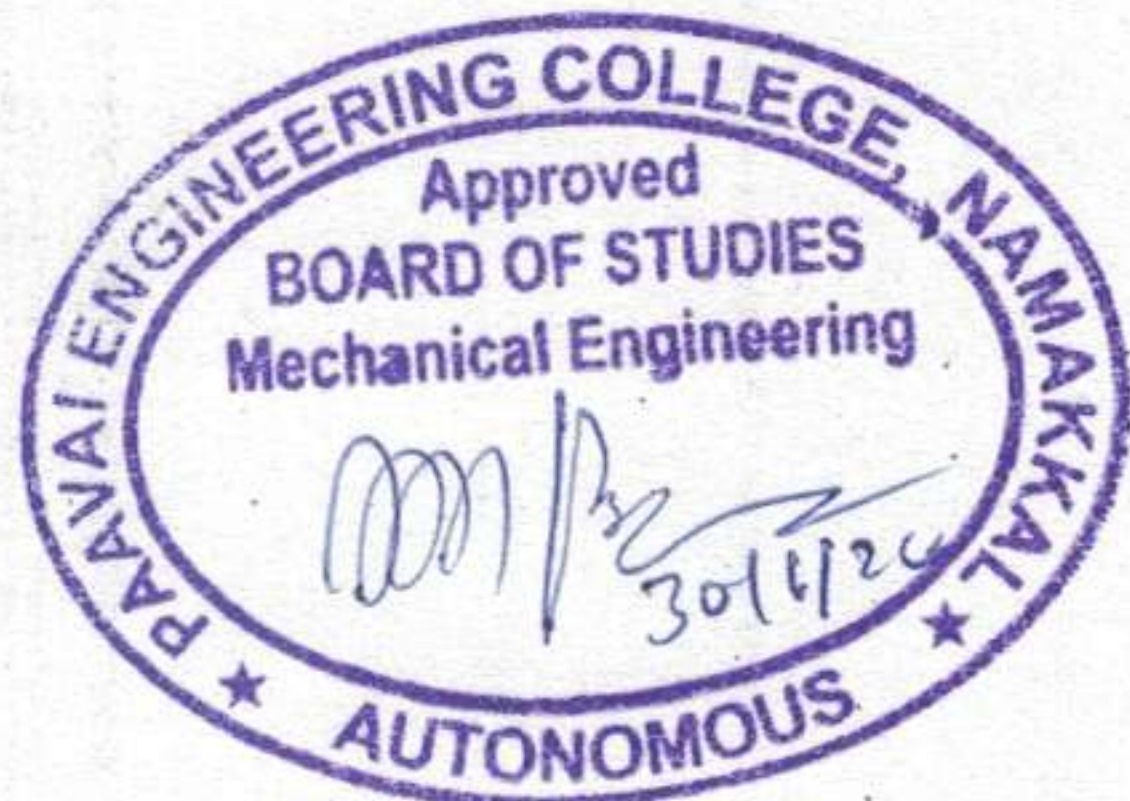
Respected Sir,

Here with I have attached the 6th BoS , Minutes of meeting details for your kind perusal. Kindly go through it and approve the same. If any more suggestions share with me.

Thank you,

With Regards

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 6th BoS MEETING held on 30.06.2020,

vinoth jebaraj <vjebbaraj@gmail.com>

Sat 11-07-2020 19:09

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

Dear Sir,

Greetings.

I have gone through the minutes of the Board of Studies meeting held on 30.06.2020 and the same has been approved.

Kindly ensure that the topic of "Over head welding" has been removed from the Manufacturing technology lab syllabus which is not mentioned in the minutes.

Thank you.

On Thu, 9 Jul 2020 at 15:01, PEC MECH Hod <pecmechhod@paavai.edu.in> wrote:

Respected Sir,

Here with I have attached the 6th BoS , Minutes of meeting details for your kind perusal. Kindly go through it and approve the same. If any more suggestions share with me.

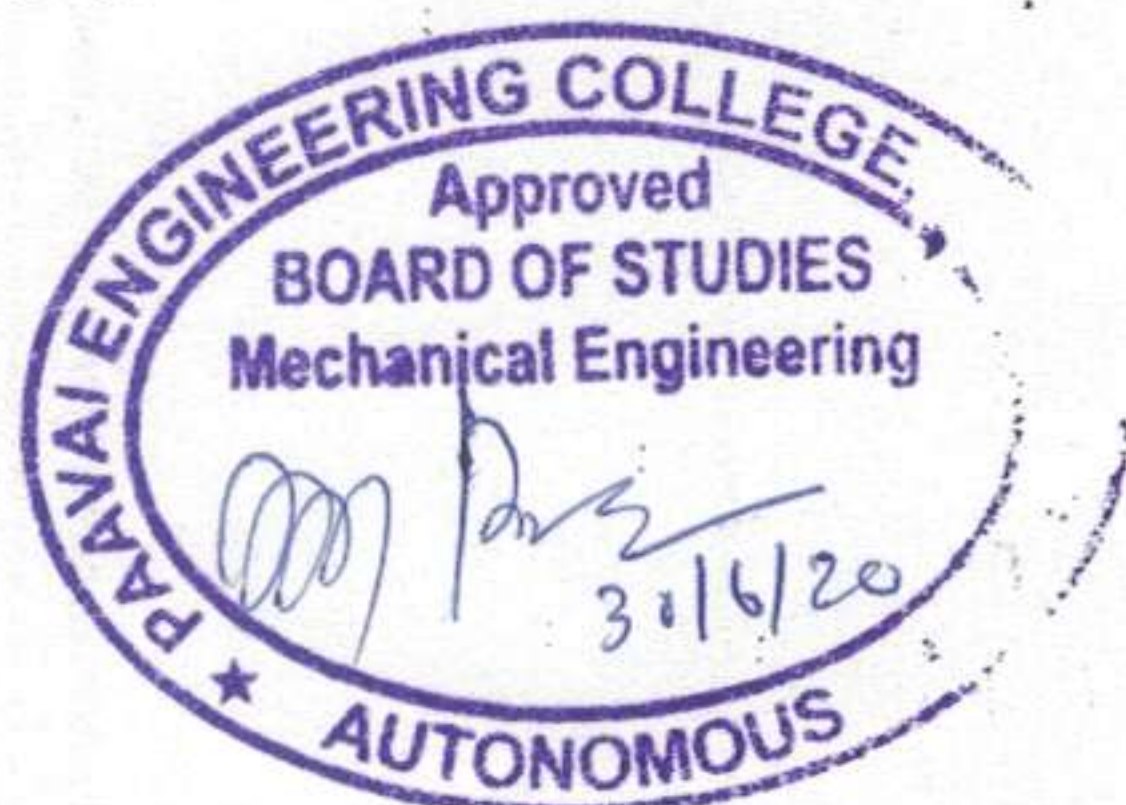
Thank you,

With Regards

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

"A MINUTE'S SUCCESS PAYS THE FAILURE OF YEARS"

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





Re: PAAVAI ENGINEERING COLLEGE 6th BoS MEETING held on 30.06.2020,

LV KV <lakshkavin@gmail.com>

Thu 23-07-2020 12:50

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

Cc: drkshanmugasundaram@gmail.com <drkshanmugasundaram@gmail.com>; K Jayabal <jayabal@iiitdm.ac.in>; vinoth jebaraj <vjebbaraj@gmail.com>; kmbhoopathy@gmail.com <kmbhoopathy@gmail.com>; kmuruga\_bhoopathi@yahoo.com <kmuruga\_bhoopathi@yahoo.com>; visugangga279@gmail.com <visugangga279@gmail.com>; dean academics <deanacademics@paavai.edu.in>

Dear Sir,

If possible one study subject "Concrete Mix design" may include in the laboratory. It will be useful for the students who are coming to the Construction industry either from Mech or Civil dept.

Concrete Mix design is a basic interview question in the Construction industry.

Further all are fine. Please proceed sir.

Thank you very much for this good opportunity and considering me for this board meeting.

Regards,

Kavin Lakshmanan,

**Senior QA/QC Engineer - Mechanical,**

Qaryat Al Hidd | Saadiyat Development Project – Abudhabi.

Call @ +971 56 689 8245

On Thu, Jul 9, 2020 at 1:31 PM PEC MECH Hod <pecmechhod@paavai.edu.in> wrote:

Respected Sir,

Here with I have attached the 6th BoS , Minutes of meeting details for your kind perusal. Kindly go through it and approve the same. If any more suggestions share with me.

Thank you,

With Regards

**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)**

**Minutes of the 6<sup>th</sup> Board of Studies Meeting (On- Line mode)**

**Venue: Department of Mechatronics**

**Date and Time: 16.07.2020, 10.00 AM**

**Members 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. T.C. Kanish	Associate Professor	Academic Expert	Vellore Institute of Technology, Vellore
4.	Dr.S. Manikandan	Research Assistant Professor	Academic Expert	SRM Institute of Science and Technology, Kattankulathur
5.	Mr.T. Balavignesh	Design Engineer	Industry Expert	Kathigeya Moulds & Dies Pvt. Ltd. Chennai
6.	Mr.P. Nandagopal	Senior Software Engineer	Alumni	Tech Mahindra 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		

1. Dr.D.R.P.Rajarathnam, Chairman / BoS welcomed all members to the 6<sup>th</sup> meeting of Board of Studies meeting.
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 5<sup>th</sup> BoS suggestions to the members of Board of Studies.
2. **B.E. Mechatronics passing of the following details:**
  - Syllabi of Third and Fourth semester for the batches of students admitted during the academic year 2019-2020 under 2019 Regulations.
  - Curriculum and Syllabi of First and Second semester for the batches of students admitted during the academic year 2020-2021 under 2019 Regulations.
  - List of One credit courses for the UG students and grade equivalence. NPTEL online courses
  - Review of curriculum and syllabi for 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> semesters for the academic year 2020-2021 under 2016 Regulations.
  - Chairman / BoS briefed the members about B.E. Mechatronics curriculum structure (1<sup>st</sup> and 2<sup>nd</sup> semesters), (3<sup>rd</sup> and 4<sup>th</sup> semesters), (5<sup>th</sup> and 6<sup>th</sup> semesters) and (7<sup>th</sup> and 8<sup>th</sup> semesters) for the batches of students admitted during the academic year 2019-2020 and 2020-2021 under 2019 Regulations.
  - Any other matter.
3. The member of the board suggested the following changes in B.E - Mechatronics under Regulation 2019:
  - **MT19301/MT20301 - Engineering Metrology:**
    - ✓ Course title may be changed as Metrology and Measurements.
    - ✓ The syllabus contents of all units shall be modified.
    - ✓ Metrology Laboratory shall be introduced separately.
  - **MT19401/MT20401 - Theory of Machines:**
    - ✓ Course title may be changed as Mechanics of Machines.
  - **MT19701/MT20701 - Computer Aided Manufacturing:**
    - ✓ Computer Aided Manufacturing course may be replaced as Computer Integrated Manufacturing.
  - **MT19604/MT20603 - Fluid Power System:**
    - ✓ Fluid Power System course may be replaced as Fluid Power Automation.
  - **MT19703/MT20703 - CAD/CAM Laboratory:**
    - ✓ 3D printing exercise may be included in the syllabus.
  - **MT19552/MT20552 - Artificial Intelligence and Machine Learning:**
    - ✓ Fuzzy Logic and Artificial Neural Network concepts may be included in the syllabus.





- **MT19653/MT20653 - Internet of Things and Smart Manufacturing:**
    - ✓ Augmented Reality and Virtual Reality concepts may be included in the syllabus.
    - ✓ Cloud Computing concepts may be included in the syllabus.
  - Big Data Analytics and Cyber Security courses may be included in the Professional Electives.
  - Recent Edition Text Books and Reference Books shall be included.
  - Curriculum of UG course can be modified as per the suggestions given.
4. Chairman thanked all the members for their active participation, suggestions and contribution made for recommending the B.E. Mechatronics syllabi of 3rd and 4th semester of 2020-2021 for the students admitted during 2019-2020 and UG curriculum of 1st and 2nd semester for 2020-2021 admitted students to the academic council.

  
**Dr.D.R.P.Rajarathnam**  
 Professor /Chairman-BoS (MCT)



**PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)**

NH-7, PACHAL, NAMAKKAL-637018

**DEPARTMENT OF BIOMEDICAL ENGINEERING**

**BOARD OF STUDY DATE: 08.08.2020**

**MINUTES OF MEETING**

**MEMBERS OF BOS**

S.No	Name	Designation	Position in the Committee	College / University / Industry
1.	Dr.T.Arun Kumar	Professor & Head , BME	Chairman	Paavai Engineering College
2.	Dr. S.Poonguzhali	Associate 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,	Industry Expert	GE Healthcare, Chennai.
6.	Ms.R.Deepa Srii	Assistant Professor, BME	Members	Paavai Engineering College
7.	Mr.K.Baskar	Assistant Professor, BME		



## MINUTES OF MEETING

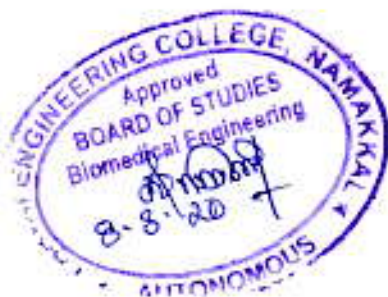
- The BME Board of studies Chairman Dr. T Arunkumar welcomed all the members to the 3rd meeting of BOS on 08/08/2020, at 11am and introduced the members of BOS.
- He also explained the work carried out for the Autonomous purpose for the past six months which involved
  - Getting suggestions from various industry experts.
  - Meeting held with internal and external faculty members for framing the curriculum and syllabus and
  - Methodologies to be adopted to enrich the knowledge of students in academics and Research
- Ms. Deepa Sri R, Member of BOS gave a presentation on the Curriculum and Syllabi of BE.BME with effect from the academic year 2020-2021
- She also explained about the proposed curriculum of BE-BME, syllabus of 1<sup>st</sup> and 2<sup>nd</sup> Semester BME related papers.
- The Committee members gave the following Suggestions.

### For R2016

- The students can be allowed for the Hospital Visit & Industrial Visit right from the first year onwards.
- The Presentation on the Curriculum and Syllabi of all UG Programme with effect from the Academic year 2020-2021 were presented.
- Core and elective subjects' pattern for the 3<sup>rd</sup> year UG programme (BE. Biomedical Engineering) should be uniformly framed.
- The ratio for choosing elective paper can be 1:4.
- It is advised to change the Professional elective which is in V semester (BM16154-Medical Electronics) to another elective, for R2016.
- In BM16501- Medical Instrumentation II, Certain topics in unit III need to be removed and real time applications to be added.
- BM16502-Microprocessor and Microcontroller, it is advised to change the title of Unit III.
- For BM16503- Biomedical Signal Processing, in unit V certain topics to be added regarding Signal Classifiers.
- It is advised to combine the courses of Semester V and VI (Diagnostic and Therapeutic Equipment I & II) into BM16601-Diagnostic & Therapeutic Equipment for the semester VI
- For the BM16507- Medical Instrumentation Laboratory, certain experiments from study to be removed and advised to include design experiments.
- BM16508- Biomedical Signal Processing Laboratory, suggested to include real time signals (eg., for ECG, EEG) as input.
- Course from Semester VI (Biomechanics) has been changed to Semester V, and in the course of Biomechanics advised to swap the Unit IV and V.
- BoS members suggested to have separate course for Medical Imaging Techniques.
- BM16252- Biomedical Laser Instruments, advised to add certain topics in Unit II.
- In BM16604- Diagnostic and Therapeutic Equipment Laboratory suggested to include some design experiments related to the syllabus.

## For R2019

- The BME Board of studies Chairman Dr. T Arunkumar welcomed all the members to the 3rd meeting of BOS on 08/08/2020, at 11am and introduced the members of BOS.
- He also explained the work carried out for the Autonomous purpose for the past six months which involved
  - Getting suggestions from various industry experts.
  - Meeting held with internal and external faculty members for framing the curriculum and syllabus and
  - Methodologies to be adopted to enrich the knowledge of students in academics and Research
- Ms. Deepa Sri R, Member of BOS gave a presentation on the Curriculum and Syllabi of BE-BME with effect from the academic year 2020-2021.
- She also explained about the proposed curriculum of BE-BME, syllabus of 1<sup>st</sup> and 2<sup>nd</sup> Semester BME related papers.
- The Committee members gave the following Suggestions.
- The total credits for Curriculum and Syllabi of BE-BME must be reduced to 163 from 185.
- It is advised to interchange the course which is in IV semester (BM19403- Anatomy and Physiology) to Semester III (BM19304- Pathology and Microbiology), R2019.
- BM19303- Sensors and Measurements, suggested to include some topics in Unit V.
- For BM19304- Anatomy and Physiology suggested to include certain topics in Unit V referring GATE syllabus.
- For BM19403- Pathology and Microbiology, Unit V, topics related to Covid19 and vaccination has to be included.
- BM19405- Biomedical Instrumentation laboratory, advised to include medical equipment related experiments.





**PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)**

**NII-7, PACHAL, NAMAKKAL-637018**

**DEPARTMENT OF MEDICAL ELECTRONICS**

**BOARD OF STUDY DATE: 12.08.2020**

**MINUTES OF MEETING**

**PANEL OF EXPERT MEMBERS**

<b>S.No</b>	<b>Name</b>	<b>Designation</b>	<b>Position in the Committee</b>	<b>College / University / Industry</b>
<b>1.</b>	<b>Dr.T.Arun Kumar</b>	<b>Professor &amp; Head, Medical Electronics</b>	<b>Chairman</b>	<b>Paavai Engineering College</b>
<b>2.</b>	<b>Dr.M.Ganesh Madhan</b>	<b>Professor &amp; Head Electronics Engineering</b>	<b>University Nominee</b>	<b>MIT Campus, Anna University Chennai.</b>
<b>3.</b>	<b>Dr.V.G.Sangam</b>	<b>Professor &amp; Head, Department of Medical Electronics,</b>	<b>Academic Expert</b>	<b>Dayananda Sagar College of Engineering, Bengaluru.</b>
<b>4.</b>	<b>Dr.K.J.Shanti</b>	<b>Professor &amp; Head, Department of Medical Electronics</b>	<b>Academic Expert</b>	<b>Dr.Ambedkar Institute of Technology, Bengaluru.</b>
<b>5.</b>	<b>Mr.S.Kumar</b>	<b>Manager, Biomedical Applications</b>	<b>Industry Expert</b>	<b>TMI Systems, Bengaluru</b>
<b>6.</b>	<b>Mr.K.Baskar</b>	<b>Assistant Professor, Medical Electronics</b>	<b>Members</b>	<b>Paavai Engineering College</b>
<b>7.</b>	<b>Ms.R.Deepa Srii</b>	<b>Assistant Professor, Medical Electronics</b>		



## **MINUTES OF MEETING**

1. The ME Board of studies Chairman Dr. T Arunkumar welcomed all the members to the 3rd meeting of BOS on 12/08/2020, at 3 pm and introduced the members of BOS.
2. He also explained the work carried out for the Autonomous purpose for the past six months which involved
3. Getting suggestions from various industry experts.
4. Meeting held with internal and external faculty members for framing the curriculum and syllabus and Methodologies to be adopted to enrich the knowledge of students in academics and Research
5. Mr.K.Baskar, Member of BOS gave a presentation on the Curriculum and Syllabi of BE.ME with effect from the academic year 2020-2021.
6. He also explained about the proposed curriculum of BE-ME, syllabus of 1st and 2nd Semester ME related papers.
7. The Committee members gave the following Suggestions.

## **REGULATION 2016**

1. MD16502 – Biomedical Signal Processing Certain topics in Unit II, III, IV and V need to be removed and insisted to minimize the syllabus in R2016 for the semester V
2. It is advised to add a new course instead of MD16154 – Computer Communication Networks in R2016 for Professional Elective I for the semester V.
3. It is advised to add one more textbook in the Professional elective I MD16152 - Neural Networks and its applications in R2016 for the Semester V
4. It is advised to add Back propagation algorithm instead of Back propagation error in Unit II of Professional Elective I course MD16152-Neural Network and its applications in R2016 for the Semester V



## REGULATION 2019

13. It is advised to reduce the syllabus for the Course MD20201 – Circuit analysis for the Semester II in R2019
14. It is advised to change the Unit IV OP amp circuits and its characteristics and Unit V Op-Amp applications of the course MD19301 Analog Electronics due to replication in Linear Integrated Circuits for the Semester III in R2019
15. It is advised to split the MD19305- Analog and Digital Integrated Circuits Laboratory in to Analog Electronics Laboratory and Digital Electronics Laboratory for the Semester III in R2019
16. It is advised to remove the MD19404 – Medical Instrumentation Laboratory and make it to include the experiments in the MD19507 –Diagnostic and Therapeutic Laboratory in R2019



**PAAVAI ENGINEERING COLLEGE (Autonomous)**  
**DEPARTMENT OF CHEMICAL ENGINEERING**

**6<sup>th</sup> BOARD OF STUDIES MEETING**

**MINUTES OF THE MEETING**

**Date: 21.07.2020**

**Venue: Department of Chemical Engineering – Online- Google meet**

**Date and Time: 21.07.2020, 2.30 pm.**

**Members present**

S.No	Name	Designation	Position in the Committee	College / University / Industry
1.	Dr.G.Srinivasan	HOD / Chemical Engineering	Chairman	Paavai Engineering College
2.	Dr.K.V.Radha	Prof./Chemical Engineering	University Nominee	AC Tech Campus, AnnaUniversity, Chennai.
3.	Dr.K. Saravanan	Prof./Chemical Engineering	Academic Expert	Kongu Engineering College, Perundurai.
4.	Dr. N. Anantharaman	Prof./Chemical Engineering	Academic Expert	National Institute of Technology, Trichy.
5.	Er. S. Saravanan	Director	Industry Expert	Eco Pure Technologies Pvt Limited, Tirupur.
6.	Mr.D. Sreenivasan	AP/Chemical	Member	
7.	Mr.D. Dhanaraja	AP/Chemical	Member	
8.	Mrs.S.Nivedha	AP/Chemical	Member	
9.	Dr.K.Gopi	AP/Chemistry	Member	
10.	Dr.Shanthi	Prof & Head /English	Member	
11.	Dr.Raja Ganesan	Prof & Head /Chemistry	Member	
12.	Dr.G.Balaji	Prof & Head /EEE	Member	

  
21/07/2020



The Chairman, Board of studies presented

1. Detailed syllabus of Third and fourth semester (R 2019).
2. Detailed Syllabus of first semester (R 2019-Revised) Principle of Chemical Engineering
3. Tentative Curriculum of (R2019-Revised) for the students admitted in the academic year (2020-2021).
4. Detailed syllabus of seventh and eighth semester, programme elective, open elective & one credit course of R 2016.

#### OBSERVATIONS:

- ❖ The members of Board of Studies had a long discussion on the detailed syllabi of Third and fourth semester R2019 and recommended the syllabi with minor modifications.
- ❖ The committee critically reviewed the content of R 2019-Revised Curriculum for B.Tech Chemical Engineering.

#### SUGGESTIONS:

- ❖ Committee members strongly recommended the assessment of zero credit papers to be in words like Good, Satisfactory and Not Satisfactory rather than marks in grade sheet.
- ❖ Committee members insisted to be given weightage for the Psychology and Stress Management in the syllabus for the zero credit paper.
- ❖ The committee members suggested the following courses which can be include in the professional elective in near future.
  1. Complex Fluid
  2. Air Cooled Heat Exchanger
  3. Vacuum Technology
- ❖ Committee members suggested to include HOD in panel for question paper scrutiny

Dr.K.V.Radha  
University Nominee

Dr.K.Saravanan  
Academic expert

Dr. N. Anantharaman  
Academic expert

Er.S. Saravanan  
Industrial Expert

  
Dr.G.Srinivasan  
Chairman



Members

**PAAVAI ENGINEERING COLLEGE**  
(AUTONOMOUS)  
**DEPARTMENT OF INFORMATION TECHNOLOGY**  
**Minutes of the Board of Studies Meeting**

**Venue: Department of Information Technology**

**Date and Time: 20.06.2020, 01:30 PM**

**Members Present**

S.No	Name	Designation	Position in the Committee	College / University / Industry	Signature
1.	Mr.B.Venkatesan	HOD & Associate Professor / IT	Chairman	Paavai Engineering College.	<i>B.V.</i> 20/6/20
2.	Dr.P.Yogesh	Professor /IT	University Nominee	College of Engineering (CEG Campus), Anna University, Chennai	
3.	Dr. G. Sudha sadhasivam	Professor & Head / CSE	Academic Expert	PSG College Of Technology Coimbatore	
4.	Dr.N.Jaisankar	Professor / CSE	Academic Expert	VIT University, Vellore	
5.	Mr.Velmurugan Palanivel	Senior Software Engineer	Industry Expert	Robert Bosch, Coimbatore.	
6.	Mr.H.Sastha Prasath	Software Developer	Alumni	Cognizant Technology Solution, Chennai	
7.	Mr.S.SaravanaKumar	Assistant Professor/IT	Member	Paavai Engineering College	
8.	Mr.S.Rajesh	Associate Professor/CSE			
9.	Mr.R.Deenadhayalan	Assistant Professor/IT			
10.	Mrs.M.Pusphalatha	Assistant Professor/IT			
11.	Mr.S.Sakthivel	Assistant Professor/IT			





1. Mr.S.Rajesh, Member of BoS, welcomed all members to the 6<sup>th</sup> meeting of Board of Studies.
2. Mr.B.Venkatesan, Chairman of BoS, introduced the members to the Board of Studies.
3. Mr.B.Venkatesan, Chairman of BoS, briefed the members about the agenda as follows:

- **B.Tech - Information Technology** submitting the following details for the approval.
  - Curriculum and Syllabi of third and fourth semester for the students admitted in 2019-2020 with effect from the academic year 2020-2021, Under Regulations 2019.
  - Curriculum and Syllabi of first and second semester for the student admitted in the academic year 2020-2021 for the batches of students admitted in 2020-2024 Under Regulations 2019.
- **B.E – Electronics and Communication Engineering**, submitting the following course for the approval.
  - In third semester, the course of 'Fundamentals of Data Structures in C' and 'Fundamentals of Data Structures in C' Laboratory of Regulations 2019 , are submitted for approval.
- **B.E – Electrical and Electronics Engineering**, submitting the following course for the approval.
  - In third semester, the course of 'Object oriented Programming with C++ and Object oriented Programming with C++ Laboratory' of Regulations 2019 are submitted for approval.
- **B.E – Medical Electronics and Biomedical Engineering**, submitting for the approval of the following details:
  - In fourth semester, the course 'Object oriented Programming with C++ and Object oriented Programming with C++ Laboratory' under Regulations 2019, for the students admitted in 2019-2020.
  -
- **B.Tech IT – Submitting for the approval of Online and One Credit courses of Regulations 2019.**

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

The member of the board suggested the following changes in B.Tech. – IT Regulations 2019(III & IV Sem) and students admitted in the year 2019-2020.

1. In Object Oriented Programming course of third semester, any one of the programming





languages like (C++/Java/Python) may be introduced in syllabus.

2. In Design Analysis of Algorithm course of third semester, one tutorial hour may be added to increase one credit in-total.
3. Only one Text Book of David A. Patterson and John L. Hennessey, can be prescribed in Computer Architecture.
4. In fourth semester of Software Engineering, case studies may be added in the course related to our department.
5. In fourth semester of Python Programming, suggested to add the content of 'classes and objects' in the first unit itself.
6. In digital laboratory course exercises, one can make use of 'Computer Architecture' algorithms as laboratory exercise in the course of 'Digital principals and system Design'.
7. The name of the course 'Computer Networks' is changed to 'Computer Networks and communications'. And also include the content of 'data communication' in the first unit.

**In B.Tech -Information Technology , The member of the board suggested and approved the syllabus of first and second semester for the students admitted in the year 2020-2021 of Regulations 2019.**

**The member of the board suggested the following subjects in Regulations 2019 (B.E. - Electronics and Communication Engineering)**

- o In third semester , The BoS Members approved the course of 'Fundamentals of Data Structures in C' and 'Fundamentals of Data Structures in C Laboratory'.

**The member of the board suggested the following subjects in Regulations 2019 (B.E - Electrical and Electronics Engineering)**

- o In third semester, The BoS Members approved the course of 'Object oriented Programming with C++ and Object Oriented Programming with C++ Laboratory'..

**The member of the board suggested the following subjects in Regulations 2019 (B.E - Medical Electronics and Biomedical Engineering)**

- o In the fourth semester, The BoS Members approved the course of 'Object oriented Programming with C++ and Object Oriented Programming with C++ Laboratory'..

**The member of the board suggested and approved the one credit course and online courses and for their allocations of grade given below in B.Tech. - IT of Regulations -2019. They are**





IIT-B Spoken Tutorial		Oracle Learning Courses		NPTEL Courses		Examination through parent institution / industry / other institutions	
MARKS	GRADE	MARKS	GRADE	MARKS	GRADE	MARKS	GRADE
0-39	RA	0-49	RA	0-39	RA	0-49	RA
40-49	C	50-60	C	40-50	B	50-54	C
50-59	B	61-70	B	51-60	B+	55-59	B
60-69	B+	71-80	B+	61-70	A	60-69	B+
70-79	A	81-90	A	71-80	A+	70-79	A
80-89	A+	91-95	A+	81-100	O	80-89	A+
90-100	O	96-100	O	—	—	90-100	O

5. Chairman thanked all the members for their active participation, suggestions and contribution made for recommending the
- B. Tech - Information Technology Curriculum Structure and Syllabus (3<sup>th</sup> and 4<sup>th</sup> semester) of the Regulations 2019.
  - B.Tech - Information Technology new Curriculum discussion for Regulations 2019 and submitting for the approval of First and second semester.
  - B.E - Electronics and Communication Engineering Syllabi of 3<sup>th</sup> semester - Fundamentals of Data Structures in C' and 'Fundamentals of Data Structures in C' Laboratory of the Regulations 2019.
  - B.E - Electrical and Electronics Engineering Syllabi of 3<sup>th</sup> semester - Object Oriented Programming with C++ and Object Oriented Programming with C++ Lab of the Regulations 2019.
  - B.E - Medical Electronics and Biomedical Engineering Syllabi of 4<sup>th</sup> semester - Object oriented Programming with C++ and Object oriented Programming with C++ Lab of the Regulations 2019.
  - B. Tech - Information Technology- online and one credits courses and its grade allocation details were approved in the Regulations 2019.



*B.V.*  
20/6/20  
Prof.B.Venkatesan  
Chairman-BoS



PAAVAI ENGINEERING COLLEGE (Autonomous)

DEPARTMENT OF FOOD TECHNOLOGY

3<sup>RD</sup> BOARD OF STUDIES MEETING

MINUTES OF THE MEETING

Venue : Department of Food Technology – Online- Google meet

Date and Time : 24.08.2020, 2.30 pm.

Members present

S.No	Name	Designation	Position in the Committee	College / University / Industry
1.	Mrs.Ruthrapriya	HOD (ic) / Food Technology	Chairman	Paavai Engineering College
2.	Dr.B.S.Lakshmi	Professor Food Technology	University Nominee	Anna University, Chennai.
3.	Dr.J.Prakashmaran	Associate Professor Food and Nutrition	Academic Expert	Periyar University, Salem
4.	Dr. Jaganmohan	Associate Professor Pharmacy	Academic Expert	IIFPT, Thanjavur
5.	Mr. C. Manimaran	Managing Director,	Industry Expert	Fibro foods Pvt Ltd, Salem
6.	Dr.G.Srinivasan	Professor & Head/Chemical	Member	
7.	Mr.D.Sreenivasan	AP/Chemical,	Member	
8.	Mr.D.Prasanna	AP/Chemical	Member	
9.	Mrs.S.Nivedha	AP/Chemical	Member	
10.	Dr.K.Gopi	AP/Chemistry	Member	
11.	Dr.Shanthi	Prof & Head /English	Member	
12.	Dr.Raja Ganesan	Prof & Head /Chemistry	Member	
13.	Dr.G.Balaji	Prof & Head /EEE	Member	

A. G. Srinivasan  
24/8/2020



The Chairman, Board of Studies presented

1. Detailed syllabus of Third and fourth semester (R 2019).
2. Tentative Curriculum of R2019-Revised for the students admitted in the academic year 2020-2021.
3. Detailed syllabus of fifth and sixth semester, Programme Elective, Open Elective & one credit course of R 2016.

#### OBSERVATIONS:

- ❖ The members of Board of Studies had a long discussion on the detailed syllabi of Third and fourth semester- R 2019 and recommended the syllabi with minor modifications.
- ❖ The committee critically reviewed the content of R 2019-Revised Curriculum for B.Tech Food Technology.

#### SUGGESTIONS:

- ❖ Committee members recommended the Milling Technology to be included in Professional Course instead of Elective.
- ❖ Committee members suggested Microbiology lab include in the second Year either third or fourth semester.
- ❖ Committee members suggested to include HOD in panel for question paper scrutiny

Dr.B.S.Lakshmi  
University Nominee

Dr.J.Prakashmaran  
Academic Expert

Dr. Jaganmohan  
Academic Expert

Mr. C. Manimāran  
Industrial Expert

for Mrs.Ruthrapriya

Chairman

Members





PAAVAI ENGINEERING COLLEGE (Autonomous)

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY

3<sup>rd</sup> BOARD OF STUDIES MEETING

MINUTES OF THE MEETING

Venue : Department of Pharmaceutical Technology – Online- Google meet

Date and Time : 14.08.2020, 2.30 pm.

Members present

S.No	Name	Designation	Position in the Committee	College / University / Industry
1.	Mr.D. Dhanaraja	HOD (ic) / Pharmaceutical Technology	Chairman	Paavai Engineering College
2.	Dr.A.Puratchikody	Professor Pharmaceutical Technology	University Nominee	BIT Campus, AnnaUniversity, Trichy.
3.	Dr.V. Sivakumar	Associate.Professor Chemical Engineering	Academic Expert	AC Tech Campus Anna University, Chennai
4.	Dr. N. Kannappan	Associate Professor Pharmacy	Academic Expert	Annamalai University, Chidambaram
5.	Mr. Suresh	HR Manager	Industry Expert	East West Pharma, Salem
6.	Dr.G.Srinivasan	Professor & Head	Member	
7.	Mr.D.Sreenivasan	AP/Cherhical	Member	
8.	Mr.D.Prasanna	AP/Chemical	Member	
9.	Mrs.S.Nivedha	AP/Chemical	Member	
10.	Dr.K.Gopi	AP/Chemistry	Member	
11.	Dr.Shanthi	Prof & Head /English	Member	
12.	Dr.Raja Ganesan	Prof & Head /Chemistry	Member	
13.	Dr.G.Balaji	Prof & Head /EEE	Member	

G. Srinivasan  
14/8/2020



The Chairman, Board of Studies presented

1. Detailed syllabus of Third and fourth semester (R 2019).
2. Tentative Curriculum of R2019-Revised for the students admitted in the academic year 2020-2021.
3. Detailed syllabus of Fifth and Sixth semester, Programme Elective, Open Elective & one credit course of R 2016.

**OBSERVATIONS:**

- ❖ The members of Board of Studies had a long discussion on the detailed syllabi of Third and fourth semester- R 2019 and recommended the syllabi with minor modifications.
- ❖ The committee critically reviewed the content of R 2019-Revised Curriculum for B.Tech Pharmaceutical Technology.

**SUGGESTIONS:**

- ❖ Committee members recommended the Pharmaceutical Nanotechnology to be included in Professional Course instead of Elective.
- ❖ Committee members suggested Microbiology lab include in the second Year either third or fourth semester.
- ❖ Committee members suggested to include HOD in panel for question paper scrutiny

Dr. A. Puratchikody  
University Nominee

Dr. V. Sivakumar  
Academic Expert

Dr. N. Kannappan  
Academic Expert

Mr. Suresh  
Industrial Expert

Prof. D. Dhanaraja  
Chairman

Members





**PAAVAI ENGINEERING COLLEGE  
(AUTONOMOUS)  
DEPARTMENT OF MBA**

**MINUTES OF THE 6<sup>th</sup> BOARD OF STUDIES MEETING (R 2019)**

**Mode of the Meeting : Online Zoom Meeting**

**Date & Time: 17.07.2020 at 3.00 p.m.**

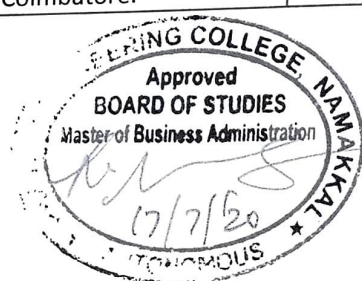
**Proceeds of the Meeting:**

The board has already approved the Regulations 2019 and its curriculum for the first and second year MBA program and as well the syllabi for the first year MBA program, during the previous 5<sup>th</sup> BoS Meeting (R 2019), held on 13.3.2019. The syllabus for the second year MBA program, under discussion in this BoS meet, shall come into force from the academic year 2020-2021, under the CBCS pattern.

The board has made few suggestions to be incorporated in the curriculum and syllabus of R 2019 for the 2<sup>nd</sup> year MBA program, which has been appended below. The board has recommended approving the syllabus, on incorporation of the changes suggested.

**ATTENDANCE OF THE BOARD OF STUDIES MEMBERS**

S.No.	Name	Designation	Position in the Committee	College / University / Industry	Attendance
1	Dr.S. Sumathi	Prof & Head /MBA	Chairman	Paavai Engineering College	Present
2	Dr.A.K.Sheik Manzoor	Associate Professor/MBA	University Nominee	Anna University , Chennai	Present
3	Dr.Shilpa Gopal	Faculty/Department of Management Studies	Academic Expert 1	National Institute of Technology, Trichy	Absent
4	Dr.N.L.Balasudarsun	AP(Selection Grade)/MBA	Academic Expert 2	PSG Institute of Management, PSG College of Technology, Coimbatore.	Present





5	Mr.K.Kavin Kumar	Senior Associate	Industry Expert	Capegimini, Bengaluru	Present
6	Ms.K.Kiruthika	HR Executive	Alumini	Usha Armour Pvt Ltd, Bengaluru	Present
7	Ms. C.Suganya	ASP/MBA	Members	Paavai Engineering College	Present
8	Mrs. G. Aarthana	AP/MBA			Present

The following were the suggestions given by the Board pertaining to the Curriculum & Syllabus:

1. The bullets for the course objectives and course outcomes, can be replaced with numbers.
2. The correlation of the course objective with that of the course outcome to be ensured for all the subjects.
3. The Web links if any given, should be ensured to include only authenticated ones and not to include from Wikipedia.
4. In the 2<sup>nd</sup> unit of the International Business Management subject, MINT needs to be included along with BRICS. Also, in the 5<sup>th</sup> unit about global institutions, it was suggested to remove Asian Development Bank. Further, it was suggested to provide cases for this subject.
5. In the syllabus for Strategic Management subject, Industrial Analysis needs to be included. Also, simulation games were suggested to be conducted in the class sessions.
6. The syllabus for the Supply Chain Management subject can be modified to include analytical part like ERP too.
7. In the list of General Management electives, any of these subjects - Event management or Indian Ethos in Modern Management or Disaster Management can be replaced with Business Analytics.





8. For few subjects like 'Digital & Social Media Marketing', latest Edition of the books needs to be included in the Books References.
9. In offering the online NPTEL certification course 'Entrepreneurship Development', it's credit equivalence needs to be checked, to skip a similar subject from the R 2019, offered by the department.
10. In the Entrepreneurship Development subject offered for Engineering stream, Funding Resources and the various funding Schemes can also be included.

 17/7/20

Dr. S. SUMATHI  
Professor and Head / BOS-Chairman (MBA)



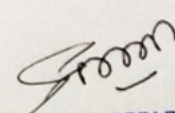


Date: 18.07.2020

**Minutes of the 5<sup>th</sup> Board of Studies Meeting**  
**Department of Master of Computer Applications**  
**Date and Time: 18.07.2020, 10.30am**

**Members Present**

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	Associate Professor / Dept of Computer Science and Engineering	University Nominee	Anna University CEG Campus Chennai
3.	Dr.S.Domnic	Associate Professor Department of Computer Applications	Academic Expert	National Institute of Technology Tiruchirappalli
4.	Dr. S.P.Shantharajah,	Professor, School of Information Technology & Engineering	Academic Expert	VIT University Vellore
5.	Mr.Majid Shaikh	Project Manager	Industry Expert	Flexi Source Solutions, Bengaluru.
6.	Mr.R.Kannan	Manager	Alumni	Repc Home Finance, Coimbatore
7.	Mr.C.Rathnakumar	ASP / MCA	Member	Paavai Engineering College
8.	Mrs.V.Annapoorani	ASP / MCA		
9.	Mrs.M.Sivakami	AP / MCA		
10.	Mrs.M.Geetha	AP / MCA		

  
**HEAD OF THE DEPARTMENT**  
**Master of Computer Application**  
**PAAVAI ENGINEERING COLLEGE**  
**NH-7, PACHAL (Po) Namakkal - 637 018.**



**PAAVAI ENGINEERING COLLEGE, NAMAKKAL**

**(Autonomous)**

**Affiliated to Anna University Chennai and approved by AICTE, New Delhi.**

**Accredited by NBA, New Delhi and NAAC with "A" Grade**

**MASTER OF COMPUTER APPLICATIONS [MCA]**

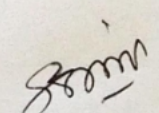
**CHOICE BASED CREDIT SYSTEM [CBCS]**

**Minutes of the 5<sup>th</sup> Board of Studies Meeting**

**Venue: Online**

**Date and Time: 18.07.2020, 10.30 am**

1. Chairman BoS welcomed all members to the 5<sup>th</sup> meeting of Board of Studies.
2. Chairman BoS introduced the members to the Board of Studies.
3. Chairman BoS briefed the members about agenda.
  - ❖ The Chairman of BoS of Master of Computer Application presented the following details :
    - Curriculum and Syllabi of Third Semester, Fourth semester, Fifth semester and Six semester were presented which will be effective from the Academic year 2019-2020 for the batches from 2019-2022 onwards under **Regulations 2019 Choice Based Credit System [CBCS]**.
    - Curriculum and Syllabi of First Semester, Second semester, Third semester and Four semester were presented which will be effective from the Academic year 2020-2021 for the batches from 2020-2022 onwards under **Regulations 2019 Choice Based Credit System [CBCS]**.
4. The following are the suggestions given by the members of Board of Studies.
  - ❖ The members of the Board approved and finalized the Curriculum and Syllabi for Regulations 2019 for the I and II Semester in 2020-22 batch.
  - ❖ The members of the Board discussed the Curriculum from III Semester to IV Semester for the Regulations 2019 in 2020-22 batch.
  - ❖ The members of the Board approved and finalized the Curriculum and Syllabi for Regulations 2019 for the III and IV Semester in 2019-22 batch.

  
(S. Senthilvelan)  
JOD/MEA -  
**HEAD OF THE DEPARTMENT**  
**Master of Computer Application**  
**PAAVAI ENGINEERING COLLEGE**  
**NH-7, PACHAL (Po) Namakkal - 637 018**



**2020-22 Batch - 2019 REGULATIONS (2 Years Duration)**

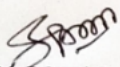
- I Semester - Unix Network Concepts to be removed and replaced with Operating System along with Unix, Object Oriented Programming with Java course contents added advanced Java concepts.
- II Semester - C# and .NET Framework to be removed and replaced with Web Technology C# and .NET Programming Laboratory to be removed and replaced with Web Technology Laboratory
- III Semester - Machine Learning and Deep Learning to be added instead of Data Mining and Data Ware Housing for (2020-22 Batch)
- IV Semester - Cyber Security course to be added Block Chain Technology.

**Professional Elective I**

Object Oriented Software Engineering Unit-3 Requirements and Analysis moved to as Unit-2 and Unit-2 become Unit-3. Also System Testing to be added in the course.

**2019-22 Batch - 2019 REGULATIONS (3 Years Duration)**

- III Semester - No Change
- IV Semester - No Change

  
Mr.S.Senthilvelan  
Chairman-BoS

Dr.P.Uma Maheswari  
University Nominee

Dr.S.Domnic  
Academic Expert 1

Dr. S.P.Shantharajah  
Academic Expert 2

Mr.Majeed Sheik  
Industri Expert

Mrs.R.Kannan  
Alumni

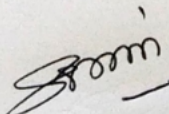


Paavai Engg. College - MCA Dept BOS Minutes of Meeting

Dr Uma <dr.umasundar@gmail.com>  
Wed 7/29/2020 11:10 AM  
To: PEC MCA Hod

I gone through the minutes and found that all the suggestions have been noted. There are some grammatical corrections to be done.

**Dr.P.Uma Maheswari**  
Associate Professor,  
Department of Computer Science & Engineering,  
College of Engineering, Guindy Campus,  
Anna University, Chennai - 600 025  
e-mail : [dr.umasundar@gmail.com](mailto:dr.umasundar@gmail.com)  
mobile : 89039 64134

  
S. Senthil Kumar

Head of the Department  
HEAD OF THE DEPARTMENT  
Master of Computer Application



Paavai Engg. College - MCA Dept BOS Minutes of Meeting

domnic@nitt.edu

Wed 7/29/2020 2:23 PM

To: PEC MCA Hod

Dear Sir,

Yes, It is approved.

Dr.S.Domnic

NIT Trichy

Quoting PEC MCA Hod <pecmahod@paavai.edu.in>:

> Respected Sir,

>

> we have conducted MCA Dept, Board of Studies Meeting on 18.07.2020.

>

> I have attached Minutes of Meeting and Syllabus (2020-22 Batch)

>

> Kindly verify the document and approve the same

*Domnic*  
*(S. Serikumar)*  
*Head of the Department*  
**HEAD OF THE DEPARTMENT**  
Master of Computer Application  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACHAL (Po) Namakkal - 637 018.



Paavai Engg. College - MCA Dept BOS Minutes of Meeting

Shantharajah S P <shantharajah.sp@vit.ac.in>

Wed 7/29/2020 9:44 AM

To: PEC MCA Hod

Dear Professor,  
Greetings!

The suggestions are carried out in the syllabus and organised well.  
Hence, as a member of the Board, I Approve the Curriculum and Syllabus framed for Dept.of  
MCA of Paavai Engineering College.

Thanking you.

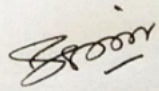
With Regards,

Dr.S.P. Shantharajah  
Professor,  
Office: SJT 413-A28,  
School of Information Technology and Engineering,  
Vellore Institute of Technology (VIT),  
Vellore, Tamilnadu, India-632014.  
9488477948.

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*VIT – Recognised as Institution of Eminence (IoE) by Government of India*

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S. Senthilvelan  
HOD/MCA  
HEAD OF THE DEPARTMENT  
Master of Computer Application  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACHAL (Po) Namakkal - 637 018.



**PAAVAI ENGINEERING COLLEGE**  
**(Autonomous)**  
**Namakkal – 637 018.**

Date: 29.06.2020

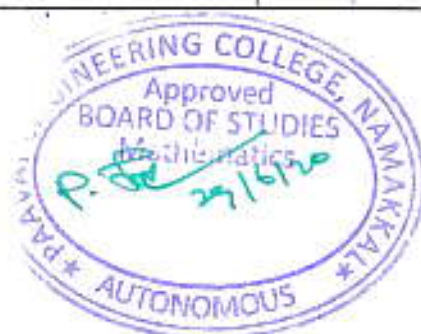
**Minutes of the Board of Studies Meeting**

Venue: Through online mode using Microsoft Teams

Date and Time: 29.06.2020, 1.30 pm

**Members Present**

S.No	Name	Designation	Position the committee	College/ University/ Industry
1	Dr. P. Jayakumar	Professor & Head	Chairman	Paavai Engineering College
2	Dr. P. Vimala	Professor	University nominee	Anna university, Chennai
3	Dr. G. Murugu sundaramoorthy	Professor	Academic Expert	VIT University, Vellore
4	Dr. B.Kishokkumar	Professor	Member	Paavai Engineering College
5	Mrs. K. Uma	Assistant Professor	Member	Paavai Engineering College
6	Dr. M. Sathish Kumar	Associate Professor	Member	Paavai Engineering College
7	Mrs. C.Manjula	Assistant Professor	Member	Paavai Engineering College
8	Mrs. K. Vimhala	Assistant Professor	Member	Paavai Engineering College
9	Ms.M. Nandhinipriya	Assistant Professor	Member	Paavai Engineering College





**PAAVAI ENGINEERING COLLEGE(AUTONOMOUS)**

**NAMAKKAL**

**DEPARTMENT OF MATHEMATICS**

**MINUTES OF 5<sup>th</sup> BOARD OF STUDIES MEETING DATED 29.0.2020**

<b>COURSE NAME</b>	<b>SUGGESTIONS</b>
<b>Matrices and calculus</b>	Unit I <ul style="list-style-type: none"> <li>Replace Diagonalisation by Diagonalisation by similarity and orthogonal transformations.</li> </ul>
<b>Complex Variables and Differential Equations</b>	Unit III <ul style="list-style-type: none"> <li>Replace "use of " to " evaluation of "</li> </ul>
<b>Transforms and Boundary Value Problems</b>	Unit IV <ul style="list-style-type: none"> <li>Replace the title of Unit IV from "Applications of PDE" to "Fourier series solution to PDE".</li> </ul>
<b>Linear Algebra and Partial Differential equations</b>	Rearrange the units with respect to the course title. Unit I <ul style="list-style-type: none"> <li>Modify "Vector spaces "as Unit I</li> </ul> Unit II <ul style="list-style-type: none"> <li>Replace "Linear Transformations and Diagonalisation" to "Linear Transformation and Inner Product Spaces "</li> </ul> Unit V <ul style="list-style-type: none"> <li>Replace the title of Unit V from "Applications of PDE" to "Fourier series solution to PDE".</li> </ul>
<b>Probability and Queuing Theory</b>	Unit II <ul style="list-style-type: none"> <li>Shift the topic "functions of random variable to Unit III"</li> </ul>
<b>Probability and Random Processes</b>	Unit IV <ul style="list-style-type: none"> <li>Shift the topic "functions of random variable to Unit III"</li> </ul>
<b>Probability and Statistics</b>	Unit III <ul style="list-style-type: none"> <li>Include the subtopic "Small samples " before t- test.</li> </ul>
<b>Numerical Methods</b>	<ul style="list-style-type: none"> <li>Shift the topic Newton's forward and backward interpolation after Lagrangian Polynomial.</li> </ul>
<b>Resource Management Techniques</b>	<ul style="list-style-type: none"> <li>Omit old edition and add the recent edition of Taha Volume as textbook</li> </ul>
<b>Operations Research (Open Elective)</b>	<ul style="list-style-type: none"> <li>Modify the Objectives and outcomes.</li> </ul>
<b>Career Development Laboratory I and II</b>	<ul style="list-style-type: none"> <li>Name the topics as Quantitative Aptitude -I and Quantitative Aptitude-II</li> </ul>



**Chairman**

*P. S. S.* 29/01/20



# **PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)**

**NAMAKKAL-637 018.**

## **DEPARTMENT OF MATHEMATICS**

### **MINUTES OF BOARD OF STUDIES MEETING - 29.06.2020**

The 5<sup>th</sup> Board of Studies meeting was held Online in Microsoft Teams Digital Platform on 29<sup>th</sup> of June 2020. The Head of the Department of Mathematics welcomed the members of Board of Studies. The Curriculum and syllabi for the Regulations 2019 and 2020 were discussed by the members of the board.

The following syllabi were placed before the committee for discussion and the objectives and outcomes were refined.

<b>UG</b>	MA20101- Matrices and Calculus
	MA20201- Complex Variables and Differential Equations.
	MA19301- Transforms and Boundary Value Problems
	MA19302- Linear Algebra and PDE
	MA19401- Probability and Queuing Theory
	MA19402- Probability and Random Processes
	MA19403- Probability and Statistics
	MA19404- Numerical Methods
	PL 19501- Career Development Laboratory I
	PL 19601- Career Development Laboratory II
<b>PG</b>	PMA19301- Resource Management Techniques
	PMA19901- Operations Research (Open Elective)

After a thorough discussion with the members, the above syllabi have been recommended to the academic council for the approval. All the suggestions of the members of Board of Studies have been incorporated in the syllabi.





PAAVAI ENGINEERING COLLEGE (Autonomous)

Pachal, Namakkal-637018

ACADEMIC YEAR 2020-2021

MINUTES OF THE SIXTH BOARD OF STUDIES MEETING

Department of English

Venue: English Communication Skills Laboratory

Date and Time: 24.06.2020, 2.00 p.m.

1. The Board Chairman Dr.R.Shanthi welcomed Director Admin, The Principal, Controller of Emaminations, Dean Academics, Dr.S.Soundiraraj, Associate Professor, Department of English, Anna University, Chennai and Dr.J.Michael Raj, Assistant Prof (S.G), SRM Institute of Science and Technology, Department of English & Foreign Languages, Chennai, heads of various departments and faculty members. The revised syllabus for the forth coming year was introduced online via Microsoft teams.

2. The University nominee Dr.S.Soundiraraj, recommended change in objectives in English Communication Skills I.

3. The Academic Expert Dr.J.Michael Raj, advised to change the topic Communal values as Social values.

4. The introduction of English Proficiency Course Laboratory was approved and appreciated.

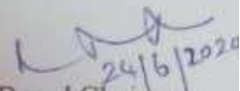
5. The syllabi of foreign languages and one credit courses were approved.

6. The Evaluation pattern of one credit courses were approved.

7. Vote of Thanks was proposed.

These were the suggestions given by the members during the Board of Studies meeting.



  
24/6/2020  
Board Chairman

Dr. R. SHANTHI  
HOD- English



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New group

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dean academics

Regarding minutes of 6th... 26-06-2020

Dear HoDs, After the discussion with Princ...

PEC COE Office

I Year CIA 2 Module I Test... 29-06-2020

PAAVAI ENGINEERING COLLEGE, NAMAK...

PEC MECH Hod

Paavai Engineering Colleg... 29-06-2020

Dear sir/Madam, We are happy to inform...

## Michaelraj J. soundiraraj Subbiah

&gt; Minutes of the meeting... 29-06-2020

Dear Madam, On the basis of the discussi...

shanthi

I am sharing minutes I do... 26-06-2020

Please check the attachment Shared from...

PEC ECE Hod

6th BOS ECE - Reg. 27-06-2020

Dear Sir/Madam, We conduct the 6th Bos...

Hariharan H2D; kasturi bai

&gt; Re: 26-06-2020

Yes mam I got it On Fri, Jun 26, 2020 at 7...

Hariharan H2D

(No subject) 26-06-2020

Good Evening Mam

kasturi bai

&gt; (No subject) 26-06-2020

Sent from my BlackBerry 10 smartphone.

kasturi bai

(No subject) 26-06-2020

Sent from my BlackBerry 10 smartphone.

PEC COE Office

II and III Year CIA 4 Modu... 26-06-2020

PAAVAI ENGINEERING COLLEGE, NAMAK...

Hariharan H2D

&gt; (No subject) 26-06-2020

<https://forms.gle/Dp4D1B5CTCRqSrB76>

PEC Principal

Last Chance to Register G... 26-06-2020

Dr.M.Premkumar,M.E.,PhD., Principal Paav...

PEC COE Office

II and III Year CIA 4 (Modul... 26-06-2020

PAAVAI ENGINEERING COLLEGE, NAMAK...

shanthi

Fwd: 26-06-2020

Forwarded message - From: Raghu Vigne...

RJOE Journal

Publish paper in an Intern... 24-06-2020

\* Research Journal Of English (RJOE) \* An I...

Certify'em

Your certificate is here for... 24-06-2020

Congrats Dr.R.Shanthi, you passed! Your c...

Google Forms

Quiz on English Grammar 24-06-2020

Thanks for filling out Quiz on English Gra...

PEC ENGLISH Hod

&gt; BOS Attendance June 2... 24-06-2020

Dr.R.Shanthi, Professor &amp; HOD / English, P...

Minutes of the meeting - reg.

2


 PEC ENGLISH Hod  
 Get Outlook for Android

Mon 29-06-2020 18:17

 Michaelraj J. <micheal@p...  
 rmist.edu.in>

Mon 29-06-2020 09:11

To: PEC ENGLISH Hod

Dear Madam,

 On the basis of the discussion we did in the  
 meeting, the syllabus you designed is highly  
 satisfactory and I approve it for actions.

Thank you very much Madam.

Thanks &amp; Regards,

Dr.J.Michael Raj,

Assistant Professor of English (SLG),

SRM Institute of Science and

Technology,

Kattankulathur, Chengalpattu Dt,

Chennai - 603203.

Contact No: 9994008495

E-mail: [micheal@srmist.edu.in](mailto:micheal@srmist.edu.in)

...

 soundiraraj Subbiah <sou...  
 ndiraraj@gmail.com>

Sun 28-06-2020 21:27

To: PEC ENGLISH Hod

Dear madam

 I have read the minutes of the BOS meeting sent  
 to my email ID. I approve all the points  
 mentioned in the minutes.

With regards

Dr.S.Soundiraraj

Professor

Dept. of English

Anna University

Chennai - 600025

...


 PEC ENGLISH Hod  
 Outlook for Android Dear S...

Sun 28-06-2020 16:30





**PAAVAI ENGINEERING COLLEGE**

**(Autonomous)**

**MINUTES OF THE 6<sup>th</sup> BOARD OF STUDIES MEETING**

**DEPARTMENT OF PHYSICS**

**Venue: Placement Cell**

**Date and Time: 24.06.2020, 12.00 pm**

1. The board chairman Dr.S.Vadivel welcomed the university nominee, academic expert and members for the 6<sup>th</sup> BOS meeting. The board chairman briefed the New Curriculum based on Choice Based Credit System (CBCS) under Regulations 2019 and also to discuss the syllabus for first and second semesters under Regulations 2019 and open elective courses for B.E/B.Tech. Students.
2. The chairman presented the syllabi for PH20201-Engineering Physics, PH20102-Physics Laboratory, PH20201-Physics for Electronics Engineering, PH20202-Physics for Information Science, PH20203-Material Science and PH20204-Physics of Materials.
3. In addition, the chairman presented the open elective paper syllabi for PH20206-Material Characterization Technique and PH20207-Photonics.

The following are the suggestion given by experts

- To add foreign author book in the reference list of the syllabus. (PH20101-Engineering Physics)
- To carry out any seven experiments out of ten experiments (PH20102 -Physics Laboratory)
- To mention interpretation and data analysis in bracket for XRD experiment. (PH20102 -Physics Laboratory)
- To add foreign author book in the reference list of the syllabus. (PH20201-Physics for Electronics Engineering, PH20202-Physics for Information Science)
- To mention specific applications. (PH20203-Material Science)
- To interchange Unit-IV and Unit-V. (PH20204-Physics of Materials)
- To change Acquire and Analysis words suitably (PH20204-Physics of Materials)
- To interchange 2<sup>nd</sup> text book and 5<sup>th</sup> reference book and add one more text book. (PH20206- Material Characterization Technique)
- To modify the order of the units. (PH20207-Photonics)
- To add one more Text book. (PH20207-Photonics)
- To offer one more paper Quantum Physics for Open Elective.



**Board Chairman**

**University Nominee**

  
**Academic Expert**



11/16/2020

Mail - PEC PHYSICS Hod - Outlook

g\_kalpa@annauniv.edu

New message

Reply all

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Forwarding

Email is being forwarded to  
chandramouleeswaransundarampec@paavai.ec

Turn off

Re: 6th BOS

g\_kalpa@annauniv.edu

g\_kalpa@annauniv.edu

Send email

View profile

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**All results**

g\_kalpa@annauniv.edu

Re: 6th BOS Meeting- Physics ... 30-07-2020

Dear Sir, Good Morning. I hereby app... [Inbox](#)

g\_kalpa@annauniv.edu

Re: 6th BOS Meeting- Physics ... 29-07-2020

Dear Sir, I read the minutes. Should I ... [Inbox](#)

function details

vadivel phd work

Drafts 154

Sent Items

Scheduled

Deleted Items 28

Junk E-Mail 8

Archive1

Notes

[Gmail]

Archive

Clutter

Conversation His...

Follow up

Misc

Priority

New folder

**Groups**

New group

Discover groups

Manage groups

On 2020-07-28 19:43, PEC PHYSICS Hod wrote:

> Dear Madam,

>

> I herewith attached 6th BOS Meeting report of  
Physics department.

> Kindly give your approval.

>

> By

>

> S.Vadivel

Reply Forward

PAVAI ENGINEERING COLLEGE, N. VAKKAL  
Approved  
BOARD OF STUDIES  
Physics  
8/6

AUTONOMOUS



**PAAVAI ENGINEERING COLLEGE**  
(Autonomous)

**DEPARTMENT OF CHEMISTRY**  
**6<sup>th</sup> BOARD OF STUDIES MEETING (ONLINE)**  
**MINUTES OF THE MEETING**

Venue: Placement and Training cell Date and Time: 24.06.2020, 11.00 am.

**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.Dharmendra Kumar	Prof/ Chemistry	University Nominee	Alagappa College of Technology, Anna University, Chennai
3.	Dr.S.Sasikumar	Associate 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.K.Gopi	Associate Prof / Chemistry	Member	Paavai Engineering College
8.	A.Jeeva	Assistant Prof / Chemistry	Member	Paavai Engineering College
9.	Dr.N.Dhanabalan	Associate Prof / Chemistry	Member	Paavai Engineering College





**PAAVAI ENGINEERING COLLEGE**  
**(Autonomous)**

**DEPARTMENT OF CHEMISTRY**  
**6<sup>th</sup> BOARD OF STUDIES MEETING**  
**MINUTES OF THE MEETING**

**Venue: Placement and Training cell**  
**Paavai Engineering College (Autonomous)**  
**Date and Time: 24.06.2020, 11.00 am.**

1. Chairman / BoS welcomed all members for the 6th meeting of Board of Studies.
2. Chairman / BoS introduced the members to the Board of Studies.
3. Chairman / BoS briefed the members about agenda.
4. Chairman / BoS discussed the status of implementation of 5<sup>th</sup> BoS suggestions to the members of Board of Studies.
5. Further the Chairman presented the syllabi for B.E./B.Tech Programmes for Passing of the following details:
  - Syllabi of Third and Fourth semester (academic year 2020-2021) for the batches of students admitted during the academic year 2019-2020 under 2019 Regulations.
  - Curriculum and Syllabi of First and Second semester (academic year 2020-2021) for the batches of students admitted during the academic year 2020-2021 under 2019 Regulations.
  - Open elective Syllabi of Sixth, Seventh semester (academic year 2020-2021) for the batches of students admitted during the academic year 2017-2018, 2018-2019 and 2020-2021 under 2016 & 2019 Regulations.
6. 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:

**CH20101 Engineering Chemistry:**

1. Inclusion of Numerical Problems in the topic EDTA (Unit-I) & Topics Vanthoff Isotherm, Isochore, in Unit- IV.
2. Specify the term, properties & uses of Ferrous & Non Ferrous Alloys in Unit-III



*G. Jaya*  
Board Chairman 24/6/20



**CH20102 Chemistry Laboratory:**

1. Rearrange the order of the Experiments as a) Hardness b) Ca & Mg c) Alkalinity d) DO

**MC20201/MC19401 Environmental Science & Engineering:**

1. No changes and suggestions was made to Environmental Science & Engineering Mandatory theory course.

**CH19301 Physical Chemistry:**

1. Inclusion of Numerical Problems for the topics Rate, Order, Molecularity in Unit-I & Topics Lamberts Law, Quantum Efficiency in Unit-IV.
2. Removal of topic Michaelis-Menten Equation in Unit-I, as it is in First year syllabus.

**CH19302 Physical Chemistry Laboratory:**

1. Removal of two experiments, Determination of  $K_a$  & Enzyme catalytic reaction, as there are more experiments.

**CH16901/CH19901/CH20901 Energy Storing Devices:**

1. Removal of topics, Lead acid and NICAD battery from Unit-I

**CH16902/CH19902/CH20902 Polymer Science:**

1. Specify IR Applications as Functional groups identification in Unit-III.
2. Specify the methods in TGA & DCS analysis (Thermal stability & Crystallization) in Unit-III

Curriculum & Syllabi of UG course (First, Second, Third, Fourth, Sixth and Seventh (Open Elective) can be modified as per the suggestions given.

7. Chairman/BOS thanked all the members for their active participation, suggestions and contribution made for recommending the syllabi of Third and Fourth semester for the students admitted during the academic year (2019-2020) under 2019 Regulations, Open elective syllabi of Sixth and Seventh semester for the students admitted during the academic year (2017-2018, 2018-2019 and 2020-2021) under 2016 & 2019 Regulations and UG curriculum & Syllabi of First and Second semester for the students admitted during the academic year (2020-2021) under 2019 Regulations admitted students to the academic council.



*[Signature]*  
Board Chairman 29/6/20



**Paavai Engineering College Chemistry Department Board of Studies  
Meeting Minutes for your approval-reg.**

dharmendra kumar <drmdkumar@gmail.com>

Sun 12-07-2020 14:22

To: Raja Ganesan <rajaganesanpec@paavai.edu.in>

Cc: ssasikumar@vit.ac.in <ssasikumar@vit.ac.in> director.ac@vit.ac.in [director.ac@vit.ac.in](mailto:director.ac@vit.ac.in)

Dear Team,

We had a detailed discussion about the chemistry syllabus presented by the Chemistry Dept HOD of Paavai Engg. College during the board of studies meeting conducted online. The inputs given by us were incorporated in the following subjects and I am happy with the current form of syllabus. Hence you can go ahead and place the same in the apex body (academic courses) for approval.

CH20101 Engineering Chemistry

CH20102 Chemistry Laboratory

MC20201/MC19401 Environmental Science & Engineering

CH19301 Physical Chemistry

CH19302 Physical Chemistry Laboratory

CH16901/CH19901/CH20901 Energy Storing Devices

CH16902/CH19902/CH20902 Polymer Science

With Regards,

Prof. M.Dharmendra Kumar,

University Nominee,

Anna University





**Paavai Engineering College Chemistry Department Board of Studies Meeting  
Minutes for your approval-reg.**

Director Academic Counselling <director.ac@vit.ac.in>  
Sun 12-07-2020 14:00

To: Raja Ganesan <rajaganesanpec@paavai.edu.in>  
Cc: drmdkumar@gmail.com <drmdkumar@gmail.com>

Dear Sir,

The required corrections were incorporated in the following syllabus hence Chemistry Department Board of Studies Meeting Minutes of Paavai Engineering College is approved.

CH20101 Engineering Chemistry  
CH20102 Chemistry Laboratory  
MC20201/MC19401 Environmental Science & Engineering  
CH19301 Physical Chemistry  
CH19302 Physical Chemistry Laboratory  
CH16901/CH19901/CH20901 Energy Storing Devices  
CH16902/CH19902/CH20902 Polymer Science

Yours Sincerely,

Dr. S.Sasikumar M.Sc., M.Phil., Ph.D.

Director, Academic Counselling

Professor in Chemistry

School of Advanced Sciences

Vellore Institute of Technology

Vellore - 632014.

Tamilnadu. India.

Office : +91 416 2202959

Mobile : +91 9994068194

**VIT - Recognized as an Institution of Eminence (IoE)**

**VIT - In the Top 550 of the QS World University Ranking by Subject in 3 subjects:**

**CS&IS, EEE and Chemistry**

