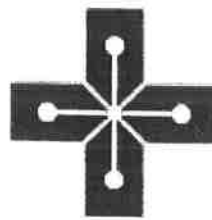


# **St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

(Deemed to be University U/S 3 of the UGC Act, 1956)  
Avadi, Chennai - 600 054.



UNITE • INSPIRE • INNOVATE

## **Academic Council**

**28<sup>th</sup> Meeting on 15.03.2022**

### **AGENDA**



# St. Peter's Institute of Higher Education and Research

(Deemed to be University U/S 3 of the UGC Act, 1956)

AVADI, CHENNAI - 600 054. TAMIL NADU.

Phone : 26558080 - 84, Fax : 044-26555430

E-mail : spiher@spiher.ac.in

Website : www.spiher.ac.in

**Dr. L. Mahesh Kumar**  
**Registrar**

SPIHER /REG/F009/AC-28/2022

04.03.2022

To

All the Members of the Academic Council,  
St. Peter's Institute of Higher Education and Research.

Sir/Madam,

Sub: Academic Council – 28<sup>th</sup> meeting on 15.03.2022 –  
Meeting notice - Reg.

-----

The 28<sup>th</sup> meeting of the Academic Council is scheduled to be held on  
15.03.2022(Tuesday) at 11.00 a.m. at the Conference Hall in the Institute.  
All the members are requested to attend the meeting.

Agenda will be sent later.



Yours faithfully,

*L. Mahesh Kumar*  
Registrar  
Registrar

St. Peter's Institute of Higher Education and Research  
(Deemed to be University U/S 3 of the UGC Act, 1956)  
Avadi, Chennai-600 054.  
For information:

Copy to:

1. All the Deans/HoDs
2. The Secretary, UGC
3. The Finance Officer
4. Estate Officer
5. Office File/Guard File

1. The Chancellor
2. The Vice Chancellor

# St. Peter's Institute of Higher Education and Research

(Deemed to be University U/S 3 of the UGC Act, 1956)  
Avadi, Chennai - 600 054.

## Minutes of the 27<sup>th</sup> Meeting of the Academic Council held on 26<sup>th</sup> November 2021.

- 27.1 Considered the confirmation of the minutes of the 26<sup>th</sup> meeting of the Academic Council held on 20.09.2021.  
**Resolved** that the minutes of the 26<sup>th</sup> meeting of the Academic Council held on 20.09.2021 be confirmed. **(Appendix-1)**
- 27.2 Considered the action taken on the minutes of the 26<sup>th</sup> meeting of the Academic council. **(Appendix-2)**  
**Noted** the action taken on the minutes of the 26<sup>th</sup> meeting of the Academic council on 20.09.2021.
- 27.3 Considered the UGC letter no. F.No.9-1/2010 (PS/Misc) pt.Vol-II dated 12.10.2021 with Gazette notification dated 11.12.2021 regarding Ph.D. as mandatory requirement for appointment of Assistant professors in departments of the Universities with effect from 01.07.2023.  
**Noted** the UGC letter no. F.No.9-1/2010 (PS/Misc) pt.Vol-II dated 12.10.2021 with Gazette notification dated 11.12.2021 regarding Ph.D. as mandatory requirement for appointment of Assistant professors in departments of the Universities with effect from 01.07.2023. **(Appendix-3)**
- 27.4 Considered the UGC letter no D.O.No 1-4/2021(QIP) dated 18.11.2021 on Initiatives undertaken by UGC for implementation of NEP, 2020.  
**Noted** the UGC letter no D.O.No 1-4/2021(QIP) dated 18.11.2021 on Initiatives Undertaken by UGC for implementation of NEP, 2020. **(Appendix-4)**

27.5 To Consider the ODD semester examination to be conducted by online except for the final year students in of UC/PG Arts & Science / Engineering and Technology / Management Studies.

Resolved the ODD semester examination to be conducted by online except for the final year students in of UC/PG Arts & Science / Engineering and Technology / Management Studies.

  
**Vice Chancellor**

**Date: 26.11.2021**

  
**Registrar**

**St. Peter's Institute of Higher Education and Research**

(Deemed to be University U/S 3 of the UGC Act, 1956)

Avadi, Chennai - 600 054.

**28<sup>th</sup> Meeting of the Academic Council**

**Date: 15.03.2022**

**Action Taken on the Minutes of the 27<sup>th</sup> meeting of  
Academic Council held on 26.11.2021**

27.1 Noted.

27.2 Noted.

27.3 Noted.

27.4 Noted.

27.5 Noted

**Date: 08.03.2022**

  
**Registrar**

**St. Peter's Institute of Higher Education and Research**

(Deemed to be University U/S 3 of the UGC Act, 1956)

Avadi, Chennai - 600 054.

**28<sup>th</sup> Meeting of the Academic Council**

**Date: 15.03.2022**

**Action Taken on the Minutes of the 27<sup>th</sup> meeting of  
Academic Council held on 26.11.2021**

27.1 Noted.

27.2 Noted.

27.3 Noted.

27.4 Noted.

27.5 Noted

**Date: 08.03.2022**

  
**Registrar**



# St. Peter's Institute of Higher Education and Research

(Deemed to be University U/S 3 of the UGC Act, 1956)

AVADI, CHENNAI - 600 054, TAMIL NADU.

Phone : 26558080 - 84, Fax : 044-26555430

E-mail : splher@splher.ac.in

Website : www.splher.ac.in

**Dr. L. Mahesh Kumar**  
**Registrar**

SPIHER /REG/F009/AC-29/2022

12.07.2022

To

All the Members of the Academic Council,  
St. Peter's Institute of Higher Education and Research.

Sir/Madam,

Sub: Academic Council – 29<sup>th</sup> meeting on 25.07.2022 –  
Meeting notice - Reg.

The 29<sup>th</sup> meeting of the Academic Council is scheduled to be held on  
25.07.2022(Monday) at 11.00 a.m. at the Conference Hall in the Institute. All  
the members are requested to attend the meeting.

Agenda will be sent later.



Copy to:

1. All the Deans/HoDs
2. The Secretary, UGC
3. The Finance Officer
4. Estate Officer
5. Office File/Guard File

Yours faithfully,

*L. Mahesh Kumar*  
Registrar  
Registrar

For information,  
Deemed to be University U/S 3 of the UGC Act, 1956

1. The Chancellor
2. The Vice Chancellor

# St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

Avadi, Chennai - 600 054. Tamil Nadu.

## ACADEMIC COUNCIL (Effective from 02.01.2021)

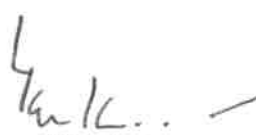
Reconstitution of Academic Council as per the MoA/Rules effective from 26.12.2018 based on UGC (Institutions Deemed to be Universities) Regulations 2019.

S.No.	Category	Members
1.	Vice Chancellor ( <b>Ex officio</b> )	Vice Chancellor - Chairman
2.	Pro Vice Chancellor ( <b>Ex officio</b> )	—
3.	Dean(s) of Faculties ( <b>Ex officio</b> )	All the Deans
4.	Heads of the Departments ( <b>Ex officio</b> )	All the HoDs
5.	All Professors other than the Heads of the Departments ( <b>Ex officio</b> )	All Professors other than HoDs
6.	Two Associate professors from the Departments other than the Heads of the Departments by rotation of seniority ( <b>Two years</b> )	1. Dr. D. Kavitha, Computer Science and Applications 2. Dr. K. Balaji, Electrical and Electronics Engineering
7.	Two Assistant professors from the Departments by rotation of seniority ( <b>Two years</b> )	1. Ms. M. Suryalakshmi, Commerce 2. Mr. K. Cornelius, Information and Technology
8.	Three persons from amongst educationists of repute or persons from any other field related to the activities of the University, nominated by the Vice-Chancellor ( <b>Two years</b> )	1. Dr. P. Natarajan, Academic Director, Kovai Kalaimagal Group of Institutions, Thondamuthur, Coimbatore. 2. Dr. K.A. Chinnaraju, Director, Coimbatore Institute of Engineering and Technology, Coimbatore. 3. Dr. Anbuhezhan, Principal RMD College, Chennai.
9.	Three persons who are not members of the teaching staff, co-opted by the Academic Council for their specialized knowledge. ( <b>Two years</b> )	1. Dr. R. Parvathi, M.B.B.S.(Physician) 2. Mr. S. Ramamurthy (Economist) 3. Mr. S. Balakrishnan, (Industrialist)
10.	The Registrar, who shall be the Secretary of the Academic Council. ( <b>Ex officio</b> )	Registrar - Secretary

**Note:** The representation of different categories shall be only through rotation and not through election. It may also be ensured that no particular faculty dominates the membership of the Council.

**Term of Membership:** The term of members other than the ex-officio members shall be two years from 02.01.2021.

Date: 18.07.2022

  
Registrar



# **St. Peter's Institute of Higher Education and Research**

(Deemed to be University U/S 3 of the UGC Act, 1956)

Avadi, Chennai - 600 054.

## **29<sup>th</sup> Meeting of the Academic Council**

**Date: 25.07.2022 at 11.00 a.m.**

### **Agenda**

- 29.1 To confirm the minutes of the 28<sup>th</sup> meeting of the Academic Council held on 15.03.2022. **(Appendix-1)**
- 29.2 To report on the action taken on the minutes of the 28<sup>th</sup> meeting of the Academic council. **(Appendix-2)**
- 29.3 To consider the minutes of the **6<sup>th</sup> / 7<sup>th</sup> / 8<sup>th</sup> / 19<sup>th</sup> / 25<sup>th</sup> / 26<sup>th</sup>** meetings of the various Boards of Studies held from 11<sup>th</sup> to 15<sup>th</sup> July 2022. **(Appendix-3)**
- 29.4 To consider the Academic Calendar for the year 2022-2023
- 29.5 Any other

**Date: 18.07.2022**

  
**Registrar**

# St. Peter's Institute of Higher Education and Research

(Deemed to be University U/S 3 of the UGC Act, 1956)

Avadi, Chennai - 600 054.

## Minutes of the 28<sup>th</sup> Meeting of the Academic Council held on 15<sup>th</sup> March 2022.

28.1 Considered the minutes of the 27<sup>th</sup> meeting of the Academic Council held on 26.11.2021.

**Resolved** that the minutes of the 27<sup>th</sup> meeting of the Academic Council held on 26.11.2021 be confirmed. **(Appendix-1)**

28.2 Considered the action taken on the minutes of the 27<sup>th</sup> meeting of the Academic council.

**NOTED** the action taken on the minutes of the 27<sup>th</sup> meeting of the Academic council. **(Appendix-2)**

28.3 Considered the minutes of the 5<sup>th</sup> / 6<sup>th</sup> / 7<sup>th</sup> / 18<sup>th</sup> / 24<sup>th</sup> / 25<sup>th</sup> meetings of the various Boards of Studies held from 21<sup>st</sup> to 27<sup>th</sup> February 2022.

**RESOLVED** that the minutes of the 5<sup>th</sup> / 6<sup>th</sup> / 7<sup>th</sup> / 18<sup>th</sup> / 24<sup>th</sup> / 25<sup>th</sup> meetings of the various Boards of Studies held from 21<sup>st</sup> to 27<sup>th</sup> February 2022 be approved from the forth coming year onwards. **(Appendix-3)**

28.4 **RESOLVED** that in order to introduce changes/amendments in the syllabi every year as unanimously suggested by the members taking into account of the recent developments and syllabi for each batch of students admitted be approved.

*P D T H*  
Vice Chancellor

*L. K.*  
Registrar

18.03.2022

# **St. Peter's Institute of Higher Education and Research**

(Deemed to be University U/S 3 of the UGC Act, 1956)

Avadi, Chennai - 600 054.

## **29<sup>th</sup> Meeting of the Academic Council**

**Date: 25.07.2022**

### **Action Taken on the Minutes of the 28<sup>th</sup> meeting of Academic Council held on 15.03.2022**

28.1 Noted.

28.2 Noted.

28.3 Noted.

28.4 Noted.

28.5 Noted

**Date: 18.07.2022**

  
**Registrar**



# St. Peter's Institute of Higher Education and Research

(Deemed to be University U/S 3 of the UGC Act, 1956)

AVADI, CHENNAI - 600 054, TAMIL NADU.

Phone : 26558080 - 84, Fax : 044-26555430

E mail : spihor@spihor.ac.in

Website : www.spihor.ac.in

**Dr. L. Mahesh Kumar**  
**Registrar**

SPIHER /REG/F009/AC-30/2022

03.10.2022

To

All the Members of the Academic Council,  
St. Peter's Institute of Higher Education and Research.

Sir/Madam,

Sub: Academic Council – 30<sup>th</sup> meeting on 19.10.2022 –  
Meeting notice - Reg.

The 30<sup>th</sup> meeting of the Academic Council is scheduled to be held on  
19.10.2022(Wednesday) at 11.00 a.m. at the Conference Hall in the  
Institute. All the members are requested to attend the meeting.

Agenda will be sent later.

Yours faithfully,



*L. Mahesh Kumar*  
Registrar  
Registrar

St. Peter's Institute of Higher Education and Research  
(Deemed to be University U/S 3 of the UGC Act, 1956)  
For information Chennai-600 054.

Copy to:

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2. The Secretary, UGC
3. The Finance Officer
4. Estate Officer
5. Office File/Guard File

1. The Chancellor
2. The Vice Chancellor

# St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

Avudh, Chennai - 600 054, Tamil Nadu.

## ACADEMIC COUNCIL (Effective from 02.01.2021)

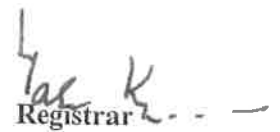
Reconstitution of Academic Council as per the MoA/Rules effective from 26.12.2018 based on UGC (Institutions Deemed to be Universities) Regulations 2019.

S.No.	Category	Members
1.	Vice Chancellor ( <b>Ex officio</b> )	Vice Chancellor - Chairman
2.	Pro Vice Chancellor ( <b>Ex officio</b> )	—
3.	Dean(s) of Faculties ( <b>Ex officio</b> )	All the Deans
4.	Heads of the Departments ( <b>Ex officio</b> )	All the HoDs
5.	All Professors other than the Heads of the Departments ( <b>Ex officio</b> )	All Professors other than HoDs
6.	Two Associate professors from the Departments other than the Heads of the Departments by rotation of seniority ( <b>Two years</b> )	1. Dr. D. Kavitha, Computer Science and Applications 2. Dr. K. Balaji, Electrical and Electronics Engineering
7.	Two Assistant professors from the Departments by rotation of seniority ( <b>Two years</b> )	1. Ms. M. Suryalakshmi, Commerce 2. Mr. K. Cornelius, Information and Technology
8.	Three persons from amongst educationists of repute or persons from any other field related to the activities of the University, nominated by the Vice-Chancellor ( <b>Two years</b> )	1. Dr. P. Natarajan, Academic Director, Kovai Kalaimagal Group of Institutions, Thondamuthur, Coimbatore. 2. Dr. K.A. Chinnaraju, Director, Coimbatore Institute of Engineering and Technology, Coimbatore. 3. Dr. Anbuchezhian, Principal RMD College, Chennai.
9.	Three persons who are not members of the teaching staff, co-opted by the Academic Council for their specialized knowledge. ( <b>Two years</b> )	1. Dr. R. Parvathi, M.B.B.S.(Physician) 2. Mr. S. Ramamurthy (Economist) 3. Mr. S. Balakrishnan, (Industrialist)
10.	The Registrar, who shall be the Secretary of the Academic Council. ( <b>Ex officio</b> )	Registrar - Secretary

**Note:** The representation of different categories shall be only through rotation and not through election. It may also be ensured that no particular faculty dominates the membership of the Council.

**Term of Membership:** The term of members other than the ex-officio members shall be two years from 02.01.2021.

Date: 06.10.2022

  
Registrar

# St. Peter's Institute of Higher Education and Research

(Deemed to be University U/S 3 of the UGC Act, 1956)  
Avadi, Chennai - 600 054.

## 30<sup>th</sup> Meeting of the Academic Council

Date: 19.10.2022 at 11.00 a.m.

### Agenda

- 30.1 To confirm the minutes of the 29<sup>th</sup> meeting of the Academic Council held on 27.07.2022. **(Appendix-1)**
- 30.2 To report on the action taken on the minutes of the 29<sup>th</sup> meeting of the Academic council. **(Appendix-2)**
- 30.3 To consider that the 13<sup>th</sup> Convocation be held on 30<sup>th</sup> October 2022.
- 30.4 To report that the Odd Semester Examinations, 2022 is scheduled to be held from 18<sup>th</sup> November 2022. **(Appendix-3)**
- 30.5 To report the UGC letter No D.O.No. F-1-1/2022(ABC) dt 22.09.2022 regarding the Implementation of Academic Bank of Credits (ABC) for credit mobility between Higher Education Institutions (HEIs). **(Appendix-4)**
- 30.6 To report the UGC letter No D.O.No.1-6/2007 (CPP-II) dt 30.09.2022 regarding Pursuing Two Academic Programmes Simultaneously. **(Appendix-5)**
- 30.7 To report the UGC letter No D.O.No. 2-88/2022(CPP-II) dt 02.10.2022 regarding the Vidyanjali initiative. **(Appendix-6)**
- 30.8 Any other

Date: 12.10.2022

  
Registrar

# St. Peter's Institute of Higher Education and Research

(Deemed to be University U/S 3 of the UGC Act, 1956)

Avadi, Chennai – 600 054.

## Minutes of the 29<sup>th</sup> Meeting of the Academic Council held on 25 July 2022.

29.1 Considered the minutes of the 28<sup>th</sup> meeting of the Academic Council held on 15.03.2022.

**Resolved** that the minutes of the 28<sup>th</sup> meeting of the Academic Council held on 15.03.2022 be confirmed. **(Appendix-1)**

29.2 Considered the action taken on the minutes of the 28<sup>th</sup> meeting of the Academic council.

**NOTED** the action taken on the minutes of the 28<sup>th</sup> meeting of the Academic council. **(Appendix-2)**

29.3 Considered the minutes of the 6<sup>th</sup> / 7<sup>th</sup> / 8<sup>th</sup> / 19<sup>th</sup> / 25<sup>th</sup> / 26<sup>th</sup> meetings of the various Boards of Studies held from 11<sup>th</sup> to 15<sup>th</sup> July 2022.

**RESOLVED** that the minutes of the 6<sup>th</sup> / 7<sup>th</sup> / 8<sup>th</sup> / 19<sup>th</sup> / 25<sup>th</sup> / 26<sup>th</sup> meetings of the various Boards of Studies held from 11<sup>th</sup> to 15<sup>th</sup> July 2022 be approved **(Appendix-3)**

29.4 Considered the Academic calendar for the Academic year 2022-2023

**Resolved to approve** the Academic calendar for the Academic year 2022-2023

Date: 26.07.2022

Vice Chancellor

  
Registrar

**St. Peter's Institute of Higher Education and Research**  
(Deemed to be University U/S 3 of the UGC Act, 1956)  
Avadi, Chennai - 600 054.

**30<sup>th</sup> Meeting of the Academic Council**  
**Date: 19.10.2022**

**Action Taken on the Minutes of the 29<sup>th</sup> meeting of  
Academic Council held on 27.07.2022**

- 29.1 Noted.
- 29.2 Noted.
- 29.3 Noted.
- 29.4 Noted.

**Date: 13.10.2022**

  
**Registrar**



S.NO	DEPARTMENT NAME
1.	Architecture
2.	Biomedical Engineering
3.	Civil Engineering
4.	Computer Science and Engineering
5.	Electronics and Communication Engineering
6.	Electrical and Electronics Engineering
7.	Mechanical Engineering
8.	Information Technology
9.	Biochemistry
10.	Biotechnology
11.	Business Administration
12.	Chemistry
13.	Computer Science and Application
14.	Commerce
15.	English
16.	Economics
17.	Mathematics
18.	Microbiology
19.	Physics
20.	Tamil
21.	Visual Communication

# St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

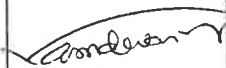

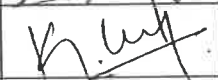
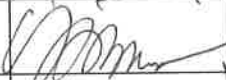

(Deemed to be University U/S 3 of the UGC Act, 1956)  
AVADI, CHENNAI – 600 054.

## MINUTES OF THE 18th MEETING OF THE BOARD OF STUDIES IN

### B.ARCH

Held on 23.02.2022

### Members Present

S.No	Name	Designation	Member	Signature
1.	Ar Vasudevan T J	Professor and Director	Chairman	
2.	Ar S.Arun Deepak	Assistant Professor	Member	
3.	Ar K.Uma Mageswari	Assistant Professor	Member	
4.	Ar K.S.Subramaniann	Practicing Architect	External Member	
5.	Dr N. Kumudhavalli Sasidhar	Academician	External Member	

  
Chairman




  
Registrar

St. Peter's Institute of Higher Education and Research  
(Deemed to be University U/S 3 of the UGC Act, 1956)  
Avadi, Chennai-600 054.

18.1	<b>Considered</b> the minutes of the 18 th meeting of Board of Studies in Architecture held on 23.02.22 <b>RESOLVED</b> that the minutes of the 18 th meeting of Board of Studies in Architecture held on 23.02.22 be confirmed.
18.2	<b>Reviewed</b> to finalize the Syllabi of B. Arch. Programme under 2020 Regulations for 5th to 10th semester <b>RESOLVED</b> the Regulations and Syllabi of B. Arch. Programme under 2020 Regulations for 5th to 10th semester be confirmed
18.3	<b>Reviewed</b> to include Traffic Awareness as an elective subject in 2017 Regulations and 2020 Regulations Syllabus. <b>RESOLVED</b> Inclusion of Traffic Awareness as an elective subject as per the directions of COA in semester VI under the 2020 Regulations syllabus and in semester IX under the 2017 Regulations syllabus be reviewed and
18.4	<b>Reviewed</b> the Regulations and Syllabi of B. Arch. Programme under the Regulations 2020. <b>RESOLVED</b> As per Suggestion to include the theory subject relevant to the respective Architecture design studio of that semester based on that the syllabus
18.5	<b>Reviewed</b> to finalize the credit points for 2020 Regulations <b>RESOLVED</b> As per COA norms the credit points for 2020 Regulations have been reviewed and confirmed. The maximum credit points can be retained to 280 which is below 300 credit points prescribed by COA in 2020 Regulations
18.6	<b>Reviewed</b> to provide an alternative for the students of II nd year to go for Rural Study Visit. <b>RESOLVED</b> a Common design problem can be given to the students for rural study in the IV th semester till the pandemic period.
8.7	<b>Reviewed</b> to finalize the Internship Program Portfolio for the students of IV th year <b>RESOLVED</b> The student's internship portfolio in the VIII th semester should contain minimum 2 pages of the design philosophy of the projects handled by their Architect.
18.8	<b>Reviewed</b> to include the concepts of Climatology and Building bye laws in the Architectural Design subjects of all semesters. <b>RESOLVED</b> Allocation of marks for implementation of Climatology and for the components of the bye laws of their respective architectural design.
18.9	<b>Reviewed</b> to improve the credit points and to suggest an alternative instead of Educational Tour for the V th year students till the pandemic period. <b>RESOLVED</b> Documentation of an architectural monument or documentation of an Architect's project can be considered alternate for the Educational Tour with 1 credit point till the pandemic period.

Date: 23.02.2020

  
Registrar



Chairman

St. Peter's Institute of Higher Education and Research  
(Deemed to be University U/S 3 of the UGC Act, 1956)  
Avadi, Chennai-600 054.




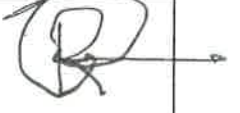



# St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Deemed to be University U/S 3 of the UGC Act, 1956)  
AVADI, CHENNAI - 600 054.


## MINUTES OF THE 24<sup>th</sup> MEETING OF THE BOARD OF STUDIES IN CIVIL ENGINEERING

Held on 24.02.2022

### Members Present

S.No	Name	Designation	Member	Signature
1.	Dr.V.B.M.SAYANA	Professor & Head Department of Civil Engineering, SPIHER	Chairman	
2.	Mr.P.SAMPATH	Professor Department of Civil Engineering, SPIHER	Internal Member	
3.	Mr.P.BABU KAMARAJ	Associate Professor, Department of Civil Engineering, SPIHER	Internal Member	
4.	Mr.R.RAJESHWARAN	Assistant Professor, Department of Civil Engineering, SPIHER	Internal Member	
5.	Ms.ANITHA BHAVANI	Assistant Professor, Department of Civil Engineering, S.P.C.E.T	External Member (Academics)	
6.	Dr.S.SENTHIL SELVAN	Professor, Department of Civil Engineering, SRM University	External Member (Academics)	
7.	Mr.B.SARAVANA KUMAR	HOD/Structures Ramboll Oil & Gas	External Member (Industry)	



  
Registrar  
St. Peter's Institute of Higher Education and Research  
(Deemed to be University U/S 3 of the UGC Act, 1956)  
Avadi, Chennai - 600 054

  
Chairman

Dr. V.B.M. SAYANA, M.E., Ph.D.  
Professor & Head  
Department of Civil Engg.  
St. Peter's Institute of Higher Education and Research  
(Deemed to be University U/S 3 of the UGC Act, 1956)  
Avadi, Chennai-600 054.

- 24.1 Considered the minutes of the 23<sup>th</sup> meeting of Board of Studies in CIVIL ENGINEERING held on 09.09.2021.

**RESOLVED** that the minutes of the 23<sup>th</sup> meeting of Board of Studies in CIVIL ENGINEERING held on 09.09.2021 be confirmed

- 24.2 Reviewed the Regulation and Syllabi of B.E (CIVIL ENGINEERING) programmes under the Regulations 2018 with Choice Based Credit System (CBCS).

**RESOLVED** that the Regulation and Syllabi of B.E (CIVIL ENGINEERING) programmes under the Regulations 2018 with Choice Based Credit System (CBCS) to be continued.

- 24.3 Reviewed the Regulation and Syllabi of B.E (CIVIL ENGINEERING under the Regulations 2020 with Choice Based Credit System (CBCS).

**RESOLVED** that the Regulation and Syllabi of B.E. (CIVIL ENGINEERINGs) under the Regulations 2020 with Choice Based Credit System (CBCS) be continued.

- 24.4 Reviewed the Regulation and Syllabi of M.E. (STRUCTURAL ENGINEERINGs) under the Regulations 2018 with Choice Based Credit System (CBCS).

**RESOLVED** that the Regulation and Syllabi of M.E. (STRUCTURAL ENGINEERINGs) under the Regulations 2018 with Choice Based Credit System



  
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(CBCS) be continued.

- 24.5 Reviewed the Regulation and Syllabi of M.E (STRUCTURAL ENGINEERING under the Regulations 2021 with Choice Based Credit System (CBCS).

**RESOLVED** that the Regulation and Syllabi of M.E. (STRUCTURAL ENGINEERINGs) under the Regulations 2021 with Choice Based Credit System (CBCS) be continued.

- 24.6 Reviewed the curricula developed having relevance to the local/national/regional/global developmental needs with learning objectives including programme outcomes, program specific outcomes and course outcomes of all the programmes.

**RESOLVED** that the syllabi of B.E (CIVIL) programme under the Regulations 2018 & 2013 and M.E. (STRUCTURAL ENGINEERINGs) under the Regulations 2018 & 2013 developed having relevance to the local/national/regional/global developmental needs with learning objectives including programme outcomes, program specific outcomes and course outcomes of all the programmes be approved.

- 24.7 Considered to include courses having focus on employability/ entrepreneurship /skill development in the syllabi of B.E (CIVIL) under the Regulations 2018 & 2013 and M.E. (STRUCTURAL ENGINEERINGs) under the Regulations 2018 & 2013



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**RESOLVED** that the courses having focus on employability/ entrepreneurship /skill development year wise in the syllabi of B.E (ECE) under the Regulations 2018 & 2013 and M.E. (STRUCTURAL ENGINEERINGs) under the Regulations 2018 & 2013 to be approved.

- 24.8 Considered to include value added courses imparting transferable and life skills offered beyond the curriculum in the syllabi of B.E (CIVIL ENGINEERING) and M.E. (STRUCTURAL ENGINEERINGs).

**RESOLVED** that the value added courses imparting transferable and life skills offered beyond the curriculum such as course on “Advanced Antenna Design & Simulation” be approved for the upcoming semester (2018-19 – Even semester).

- 24.9 Reviewed and considered the curriculum feedback analysis and action taken report based on the suggestions given by the stake holders.

**Resolved** that the curriculum feedback analysis and action taken report based on the suggestions given by the stake holders to be approved.

**Date: 24.02.2022**



**Chairman**

**Dr. V.B.M. SAYANA, M.E., Ph.D.,**  
Professor & Head  
Department of Civil Engg.  
St. Peter's Institute of Higher Education and Research  
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# St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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## MINUTES OF THE 24<sup>th</sup> MEETING OF THE BOARD OF STUDIES IN COMPUTER SCIENCE AND ENGINEERING

Held on 26.02.2022

### Members Present

S.No	Name	Designation	Member
1.	Dr. B. Shanthini	Professor & Head	Chairman
2.	Dr. S. Pushpa	Professor	Internal Member
3.	Ms. A. Jayanthi	Assistant Professor	Internal Member
4.	Mr. S. Baskar	General Manager -IT IBM India Bangalore	External Member
5.	Dr. K. Suresh Joseph	Professor Dept of CSE Pondicherry University	External Member

*B. Shanthini*  
Chairman



*[Signature]*  
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**24.1** Considered the minutes of the 23<sup>rd</sup> meeting of Board of Studies in Computer Science and Engineering held on 13.09.2021

**RESOLVED** that the minutes of the 23<sup>rd</sup> meeting of Board of Studies in Computer Science and Engineering held on 13.09.2021 be confirmed

**24.2** Reviewed the Syllabus of B.E. (Computer Science and Engineering) under the Regulations 2020

**RESOLVED** that the Syllabus of B.E. (Computer Science and Engineering) under the Regulations 2020 to be effective from 2021 -22 be approved.

**24.3** Reviewed the Syllabus of B.E. (Computer Science and Engineering) under the Regulations 2018

**RESOLVED** that the Syllabus of B.E. (Computer Science and Engineering) under the Regulations 2018 with syllabi for 7<sup>th</sup> & 8<sup>th</sup> semesters to be effective from 2021 -22 be approved with the following changes.(Appendix - I)

Inclusion of new course "718CST03 -Machine Learning for Real World Applications" in the Programme elective III and 718CST12-Big Data Analytics in the Programme elective IV.

**24.4** Reviewed the syllabus of III & IV semester of M.E (Computer Science and Engineering) programme from the batch of students to be admitted from 2021-22 under the Regulations 2021.

**RESOLVED** that the syllabus of III & IV semester of M.E. (Computer Science and Engineering) programme from the batch of students to be admitted from 2021-22 under the Regulations 2021 be approved.

**24.5** Considered on developing the skills in professional domains and branch specific areas to promote industry ready competency among learners/ Necessary certification courses / Internship training

**RESOLVED** that developing the skills in professional domains and branch specific areas to promote industry ready competency among learners/ Necessary certification courses / Internship training to be approved based on the suggestions given by the BOS members as follows:

- i. Value added course to be conducted on Human Augmentation/Machine learning and Data science using python to reduce the gap between academic and industry.
- ii. MOUs to be signed for the Internship training to enhance the student skills

Date: 26.02.2022



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*B. S. S. S.*  
Chairman



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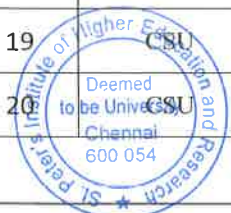
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## NEW COURSES FOR THE ACADEMIC YEAR 2021-2022

### B.E. – COMPUTER SCIENCE AND ENGINEERING

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	CSU	B.E. - Computer Science and Engineering	ACST2102	DESIGN AND ANALYSIS OF ALGORITHMS
2	CSU	B.E. - Computer Science and Engineering	ACST2103	OBJECT ORIENTED PROGRAMMING
3	CSU	B.E. - Computer Science and Engineering	ACST2104	PROGRAMMING AND DATA STRUCTURE
4	CSU	B.E. - Computer Science and Engineering	AECT2102	DIGITAL SYSTEM DESIGN
5	CSU	B.E. - Computer Science and Engineering	ACSL2101	OBJECT ORIENTED PROGRAMMING LAB
6	CSU	B.E. - Computer Science and Engineering	ACSL2102	PROGRAMMING AND DATA STRUCTURE LABORATORY
7	CSU	B.E. - Computer Science and Engineering	AECL2102	DIGITAL SYSTEM DESIGN LABORATORY
8	CSU	B.E. - Computer Science and Engineering	AMAT2104	DISCRETE MATHEMATICS
9	CSU	B.E. - Computer Science and Engineering	ACST2105	OPERATING SYSTEMS
10	CSU	B.E. - Computer Science and Engineering	AECT2107	MICROPROCESSOR AND MICROCONTROLLER
11	CSU	B.E. - Computer Science and Engineering	ACST2106	OBJECT ORIENTED SOFTWARE DESIGN
12	CSU	B.E. - Computer Science and Engineering	ACST2107	COMPUTER ORGANIZATION AND ARCHITECTURE
13	CSU	B.E. - Computer Science and Engineering	ACSL2103	OPERATING SYSTEMS LABORATORY
14	CSU	B.E. - Computer Science and Engineering	ACSL2104	OBJECT ORIENTED SOFTWARE DESIGN LABORATORY
15	CSU	B.E. - Computer Science and Engineering	718CST01	NETWORK AND INFORMATION SECURITY
16	CSU	B.E. - Computer Science and Engineering	718CST02	GRID AND CLOUD COMPUTING
17	CSU	B.E. - Computer Science and Engineering	718CST03	MACHINE LEARNING FOR REAL WORLD APPLICATIONS
18	CSU	B.E. - Computer Science and Engineering	718CST12	BIG DATA ANALYTICS
19	CSU	B.E. - Computer Science and Engineering	718CSP01	NETWORK AND INFORMATION SECURITY
20	CSU	B.E. - Computer Science and Engineering	718CSP02	GRID AND CLOUD COMPUTING



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21	CSU	B.E. - Computer Science and Engineering	718CSP03	PROJECT PHASE-1
22	CSU	B.E. - Computer Science and Engineering	818CST02	PROGRAM ELECTIVE V:FUNDAMENTALS OF BLOCK CHAIN TECHNOLOGY AND ITS APPLICATIONS
23	CSU	B.E. - Computer Science and Engineering	818CST09	PROGRAM ELECTIVE VI:INTRODUCTION TO SECURITY ASSESSMENT AND TESTING
24	CSU	B.E. - Computer Science and Engineering	818CSP01	PROJECT PHASE-II
25	CSU	B.E. - Computer Science and Engineering	518CST07	CYBER SECURITY FUNDAMENTALS



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**NEW COURSES FOR THE ACADEMIC YEAR 2021-2022**

**M.E. – COMPUTER SCIENCE AND ENGINEERING**

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	CSP	M.E. - Computer Science and Engineering	ACSPT1101	ADVANCED DATA STRUCTURES AND ALGORITHMS
2	CSP	M.E. - Computer Science and Engineering	ACSPT1102	ADVANCED DATABASE MANAGEMENT SYSTEMS
3	CSP	M.E. - Computer Science and Engineering	ACSPT1103	OPERATING SYSTEM INTERNALS
4	CSP	M.E. - Computer Science and Engineering	ACSPT1104	PARALLEL COMPUTING ARCHITECTURE
5	CSP	M.E. - Computer Science and Engineering	ACSPT1105	MACHINE LEARNING TECHNIQUES
6	CSP	M.E. - Computer Science and Engineering	ACSPL1101	DATA STRUCTURES AND ALGORITHMS LABORATORY
7	CSP	M.E. - Computer Science and Engineering	ACSPL1102	OPERATING SYSTEMS LABORATORY
8	CSP	M.E. - Computer Science and Engineering	ACSPL1103	TERM PAPER WRITING AND SEMINAR
9	CSP	M.E. - Computer Science and Engineering	ACSPT1201	NETWORK DESIGN AND SECURITY
10	CSP	M.E. - Computer Science and Engineering	ACSPT1202	CLOUD COMPUTING TECHNOLOGIES
11	CSP	M.E. - Computer Science and Engineering	ACSPT1203	INTERNET OF THINGS
12	CSP	M.E. - Computer Science and Engineering	ACSPT1204	DATA SCIENCE
13	CSP	M.E. - Computer Science and Engineering	ACSPT1207	ELECTIVE I: WEB ENGINEERING
14	CSP	M.E. - Computer Science and Engineering	ACSPT1211	ELECTIVE II: INFORMATION RETRIEVAL TECHNIQUES
15	CSP	M.E. - Computer Science and Engineering	ACSPL1201	ADVANCED NETWORKING LABORATORY
16	CSP	M.E. - Computer Science and Engineering	ACSPL1202	DATA SCIENCE LABORATORY
17	CSP	M.E. - Computer Science and Engineering	ACSPL1203	MINI PROJECT



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## MINUTES OF THE 24<sup>th</sup> MEETING OF THE BOARD OF STUDIES IN ELECTRONICS AND COMMUNICATION ENGINEERING (ECE)

Held on 26.02.2022

### Members Present

S.No	Name	Designation	Member
1.	Dr. G.P. Ramesh	Professor & Head	Chairman
2.	Dr.J.M.Mathana	Professor & Dean	Member
3.	Ms. T. Anne Ramya	Assistant Professor	Member
4.	Ms. R. Gomathi	Assistant Professor	Member
5.	Ms.R.Nirmala	Assistant Professor	Member
6.	Dr. C. Tharini	Professor & Head B.S.Abdur Rahman Crescent Institute of Science & Technology	Academic Expert Member
7.	Mr. V. S. Ramesh	Director – STEPS Knowledge Services Pvt Ltd Authorized Partner Texas Instruments India University Program	Industry Expert Member



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Chairman

HEAD

Department of ECE

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At the outset, Dr.G.P.Ramesh, Professor & HOD of ECE Department and Chairman of ECE – BOS, Welcome the BOS members

**24.1** Considered the minutes of the 23<sup>rd</sup> meeting of Board of Studies in Electronics and Communication Engineering held on 13.09.2021

**RESOLVED** that the minutes of the 23<sup>rd</sup> meeting of Board of Studies in Electronics and Communication Engineering held on 13.09.2021 be confirmed

**24.2** Reviewed the Syllabus of B.E. (Electronics and Communication Engineering) under the Regulations 2020

**RESOLVED** that the Syllabus of B.E. (Electronics and Communication Engineering) under the Regulations 2020 to be effective from 2021 -22 be approved with the following changes.(Appendix - I).

Inclusion of new course "AECT3184 -Deep learning" in the Programme elective under Group C - Embedded system and IOT system

**24.3** Reviewed the Syllabus of B.E. (Electronics and Communication Engineering) under the Regulations 2018

**RESOLVED** that the Syllabus of B.E. (Electronics and Communication Engineering) under the Regulations 2018 with syllabi for 7<sup>th</sup> & 8<sup>th</sup> semesters to be effective from 2021 -22 be approved with the following changes.(Appendix - II)

Inclusion of new course "718ECT26 -Data Science for Engineers" in the Programme elective under Group C - Embedded system and IOT system

**24.4** Reviewed the syllabus of III & IV semester of M.E (communication Systems) programme from the batch of students to be admitted from 2021-22 under the Regulations 2021.

**RESOLVED** that the syllabus of III & IV semester of M.E. (Communication Systems) programme from the batch of students to be admitted from 2021-22 under the Regulations 2021 be approved. .(Appendix - III)

**24.5** Considered on developing the skills in professional domains and branch specific areas to promote industry ready competency among learners/ Necessary certification courses / Internship training

**RESOLVED** that developing the skills in professional domains and branch specific areas to promote industry ready competency among learners/ Necessary certification courses / Internship training to be approved based on the suggestions given by the BOS members as



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follows:

- i. Value added course to be conducted on Human Augmentation/Machine learning and Data science using python to reduce the gap between academic and industry.
- ii. MOUs to be signed for the Internship training to enhance the student skills

**24.6** With the above discussion, chairman of the board expressed his deep sense of gratitude for all members for an academic vibrant discussion on various matters. Since there was no other agenda, the meeting ended with vote of thanks by the Board chairman Dr.G.P.Ramesh.

**Date: 26.02.2022**



**Chairman**

**HEAD**

**Department of ECE**

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**Appendix – I**  
**B.E (Electronics and Communication Engineering)**  
**Regulation -2020**  
**CHOICE BASED CREDIT SYSTEM**

**AECT3184**

**DEEP LEARNING**

**L T P C**

**3 0 0 3**

**OBJECTIVES:**

- To understand the basic ideas and principles of Neural Networks
- To understand the basic concepts of Big Data and Statistical Data Analysis
- To familiarize the student with the Image Processing facilities like Tensor flow and Keras
- To appreciate the use of Deep Learning Applications
- To understand and implement Deep Learning Architectures

**UNIT I      BASICS OF NEURAL NETWORKS**

Basic concept of Neurons – Perceptron Algorithm – Feed Forward and Back Propagation Networks.

**UNIT II      INTRODUCTION TO DEEP LEARNING**

Feed Forward Neural Networks – Gradient Descent – Back Propagation Algorithm – Vanishing Gradient problem – Mitigation – ReLU Heuristics for Avoiding Bad Local Minima – Heuristics for Faster Training – Nestors Accelerated Gradient Descent – Regularization – Dropout.

**UNIT III      CONVOLUTIONAL NEURAL NETWORKS**

CNN Architectures – Convolution – Pooling Layers – Transfer Learning – Image Classification using Transfer Learning

**UNIT IV      MORE DEEP LEARNING ARCHITECTURES**

LSTM, GRU, Encoder/Decoder Architectures – Auto encoders – Standard- Sparse – Denoising – Contractive- Variational Auto encoders – Adversarial Generative Networks – Autoencoder and DBM

**UNIT V      APPLICATIONS OF DEEP LEARNING**

Image Segmentation – Object Detection – Automatic Image Captioning – Image generation with Generative Adversarial Networks – Video to Text with LSTM Models – Attention Models for Computer Vision – Case Study: Named Entity Recognition – Opinion Mining using Recurrent Neural Networks – Parsing and Sentiment Analysis using Recursive Neural Networks – Sentence Classification using Convolutional Neural Networks – Dialogue Generation with LSTMs.

**OUTCOMES:**

**On completion of the course, the students will be able to:**

1. Understand the role of Deep learning in Machine Learning Applications.
2. To get familiar with the use of Tensor Flow/Keras in Deep Learning Applications.
3. To design and implement Deep Learning Applications.
4. Critically Analyse Different Deep Learning Models in Image Related Projects.
5. To design and implement Convolutional Neural Networks.
6. To know about applications of Deep Learning in NLP and Image Processing.



  
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**Appendix - II**  
**B.E (Electronics and Communication Engineering)**  
**Regulation -2018**  
**CHOICE BASED CREDIT SYSTEM**

**718ECT26**

**DATA SCIENCE FOR ENGINEERS**

**L T P C**

**3 0 0 3**

**COURSE OBJECTIVES**

- Will gain knowledge in the basic concepts of Data Analysis
- To acquire skills in data preparatory and preprocessing steps
- To understand the mathematical skills in statistics
- To learn the tools and packages in Python for data science
- To gain understanding in classification and Regression Model
- To acquire knowledge in data interpretation and visualization techniques

**UNIT I INTRODUCTION**

Need for data science – benefits and uses – facets of data – data science process – setting the research goal – retrieving data – cleansing, integrating, and transforming data – exploratory data analysis – build the models – presenting and building applications

**UNIT II DESCRIBING DATA I**

Frequency distributions – Outliers – relative frequency distributions – cumulative frequency distributions – frequency distributions for nominal data – interpreting distributions – graphs – averages – mode – median – mean – averages for qualitative and ranked data – describing variability – range – variance – standard deviation – degrees of freedom – interquartile range – variability for qualitative and ranked data

**UNIT III PYTHON FOR DATA HANDLING**

Basics of Numpy arrays – aggregations – computations on arrays – comparisons, masks, boolean logic – fancy indexing – structured arrays – Data manipulation with Pandas – data indexing and selection – operating on data – missing data – hierarchical indexing – combining datasets – aggregation and grouping – pivot tables

**UNIT IV DESCRIBING DATA II**

Normal distributions – z scores – normal curve problems – finding proportions – finding scores – more about z scores – correlation – scatter plots – correlation coefficient for quantitative data – computational formula for correlation coefficient – regression – regression line – least squares regression line – standard error of estimate – interpretation of  $r^2$  – multiple regression equations – regression toward the mean

**UNIT V PYTHON FOR DATA VISUALIZATION**

Visualization with matplotlib – line plots – scatter plots – visualizing errors – density and contour plots – histograms, binnings, and density – three dimensional plotting – geographic data – data analysis using statmodels and



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**Appendix - III**  
**B.E (Communication systems)**  
**Regulation -2021**  
**CHOICE BASED CREDIT SYSTEM**

**III SEMESTER**

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
<b>Theory &amp; Practical</b>								
	Programme Elective-4	3	0	0	3	40	60	100
	Programme Elective-5	3	0	0	4	40	60	100
	Institute Elective-2	3	0	0	3	40	60	100
ACEPP3101	Technical Seminar	0	0	2	1	40	60	100
ACEPP3102	Project Work Phase-I	0	0	12	6	40	60	100
	<b>Total</b>	<b>9</b>	<b>0</b>	<b>14</b>	<b>16</b>	<b>200</b>	<b>300</b>	<b>500</b>

**IV SEMESTER**

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
<b>Theory &amp; Practical</b>								
ACEPP4101	Project Work Phase-II	0	0	24	12	40	60	100
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>12</b>	<b>40</b>	<b>60</b>	<b>100</b>



  
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## MINUTES OF THE 24<sup>th</sup> MEETING OF THE BOARD OF STUDIES IN ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)

Held on 24.02.2022

### Members Present

S.No	Name	Designation	Member
1.	Dr. R. Rani Hemamalini	Professor & Head	Chairperson
2.	Dr. K. Balaji	Associate Professor	Member
3.	Mr. K. Matthew	Assistant Professor	Member
4.	Ms. V. Elanangai	Assistant Professor	Member
5.	Dr. S. Chandramohan	Professor & Head, Department of EEE, Anna University- Chennai	Academic Expert
6.	Dr. S. U. Prabha	Principle, Dr.N.G.P Institute of Technology, Coimbatore	Academic Expert
6.	Dr. Sithu D Sudarsan	Executive Director/CDAC, Bangalore	Industrial Expert



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R. Ramintharan

At the outset, Dr.Ranihemamalini, Professor & HOD of EEE Department and Chairperson of EEE – BOS, Welcome the BOS members

**24.1 CONSIDERED** the minutes of the 23<sup>rd</sup> meeting of Board of Studies in Electrical and Electronics Engineering held on 11.09.2021.

**RESOLVED** that the minutes of the 23<sup>rd</sup> meeting of Board of Studies in Electrical and Electronics Engineering held on 11.09.2021 be confirmed.

**24.2 REVIEWED** the Syllabus of B.E. (Electrical and Electronics Engineering) under the Regulations 2020 to be effective from 2021 -22 be approved with the following changes.

**RESOLVED** that the syllabus of B.E. (Electrical and Electronics Engineering) under the Regulations 2020 to be effective from 2021-22 be approved with the following changes. (Appendix –I)

- i. Inclusion of new course Industry 4.0 in Elective under Program Elective III.
- ii. Inclusion of new topic 'Smart Grid and IOT components in unit IV of AEET4115 - High Voltage Direct Current Transmission System.
- iii. Removal of Elective subject AEET4133 - 'Illumination Engineering' from Program Elective III.
- iv. Removal of Elective subject AEET4134 - 'Acoustic Engineering' from Program Elective III.
- v. Removal of Core subject AEET3113 - 'High Voltage Engineering and Travelling Waves' from Semester VI.
- vi. Inclusion of Elective subject AEET3113 - 'High Voltage Engineering and Travelling Waves' under Program Elective III.

**24.3 REVIEWED** the syllabus of B.E. (Electrical and Electronics Engineering) under the Regulations 2018 to be reviewed.

**RESOLVED** that the syllabus of B.E. (Electrical and Electronics Engineering) under the Regulations 2018 with syllabi for 7<sup>th</sup> and 8<sup>th</sup> semesters to be effective from 2021-22 be approved with the following changes.(Appendix-I)

- i. Inclusion of new course Industry 4.0 in Elective under Program Elective III.
- ii. Inclusion of new topic 'Smart Grid and IOT components in unit of AEET4115 - High Voltage Direct Current Transmission System.
- iii. Removal of Elective subject 718EET10 - 'Illumination Engineering' from Program Elective III.
- iv. Removal of Elective subject 718EET11 - 'Acoustic Engineering' from Program Elective III.
- v. Removal of Core subject AEET3113 - High Voltage Engineering and Travelling Waves' from Semester VI.
- vi. Inclusion of Elective subject AEET3113 - 'High Voltage Engineering and Travelling Waves' under Program Elective III.



  
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**24.4 REVIEWED** the Syllabus of M.E. (Power Electronics and Drives) under the Regulations 2018.

**RESOLVED** that the Syllabus of M.E. (Power Electronics and Drives) under the Regulations 2018 to be continued.

**24.5 REVIEWED** the Syllabus of M.E. (Power Electronics and Drives) programme from the batch of students to be admitted from 2021-22 under the Regulations 2021.

**RESOLVED** that the Syllabus of M.E. (Power Electronics and Drives) programme from the batch of students to be admitted from 2021-22 under the Regulations 2021 be approved.

**24.6 REVIEWED** on developing the skills in professional domains and branch specific areas to promote industry ready competency among learners/ Necessary certification courses / Internship training

**RESOLVED** that developing the skills in professional domains and branch specific areas to promote industry ready competency among learners/ Necessary certification courses / Internship training to be approved based on the suggestions given by the BOS members as follows:

- i. Value added course to be conducted on IoT Applications in Smart City to reduce the gap between academic and industry.
- ii. MOUs to be signed with industry for the Internship training to enhance the student skills

**24.7** Reviewed and considered the curriculum feedback analysis and action taken report collected from the stake holders

**RESOLVED** that the curriculum feedback analysis and action taken report collected from the stake holder be approved by the following changes

- i. Including 'Smart grid and IOT Components' topic in a course 'High Voltage Direct Current Transmission' in the curriculum.
- ii. Including a course 'Industry 4.0' in the curriculum.

**24.8** With the above discussion, chairman of the board expressed his deep sense of gratitude for all members for an academic vibrant discussion on various matters. Since there was no other agenda, the meeting ended with vote of thanks by the Board chairperson Dr.R.Rani Hemamalini.

**Date: 24.02.2022**

  
**Chairperson**



  
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## Appendix I

<b>AEET4115</b>	<b>HIGH VOLTAGE DIRECT CURRENT TRANSMISSION SYSTEM</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>Total Marks</b>
		<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>100</b>

### OBJECTIVES

To impart knowledge about the following topics:

- Planning of DC power transmission and comparison with AC power transmission.
- HVDC converters.
- HVDC system control.
- Harmonics and design of filters.
- Power flow in HVDC system under steady state.

### UNIT I DC TRANSMISSION TECHNOLOGY

9

Indian scenario of HVDC transmission systems, Interconnection of Power Grids-Asynchronous operation. Comparison of AC and DC Transmission (Economics, Technical Performance and Reliability). Application of DC Transmission. Types of HVDC Systems. Components of a HVDC system. Line Commutated Converter and Voltage Source Converter based systems.

### UNIT II ANALYSIS OF LINE COMMUTATED AND VOLTAGE SOURCE CONVERTERS

9

Line Commutated Converters (LCCs): Six pulse converter, Analysis neglecting commutation overlap, harmonics, Twelve Pulse Converters. Inverter Operation. Effect of Commutation Overlap. Expressions for average dc voltage, AC current and reactive power absorbed by the converters. Effect of Commutation Failure, Misfire and Current Extinction in LCC links. Voltage Source Converters (VSCs): Two and Three-level VSCs. PWM schemes: Selective Harmonic Elimination, Sinusoidal Pulse Width Modulation. Analysis of a six pulse converter. Equations in the rotating frame. Real and Reactive power control using a VSC.

### UNIT III CONTROL OF HVDC CONVERTERS

9

Principles of Link Control in a LCC HVDC system. Control Hierarchy, Firing Angle Controls.– Phase-Locked Loop, Current and Extinction Angle Control, Starting and Stopping of a Link. Higher level Controllers Power control, Frequency Control, Stability Controllers. Reactive Power Control. Principles of Link Control in a VSC HVDC system: Power flow and DC Voltage Control. Reactive Power Control /AC voltage regulation.

### UNIT IV COMPONENTS OF HVDC SYSTEMS

9

Smoothing Reactors, Reactive Power Sources and Filters in LCC HVDC systems. DC line: Corona Effects. Insulators, Transient Over-voltages. DC line faults in LCC systems. DC line faults in VSC systems. DC breakers. Monopolar Operation, Ground Electrodes. Smart Grid and IOT components.



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## UNIT V STABILITY ENHANCEMENT USING HVDC CONTROL AND MTDC LINKS

9

Basic Concepts: Power System Angular, Voltage and Frequency Stability. Power Modulation: basic principles – synchronous and asynchronous links. Voltage Stability Problem in AC/DC systems.

Multi-Terminal and Multi-Infeed Systems. Series and Parallel MTDC systems using LCCs. MTDC systems using VSCs. Modern trends in HVDC Technology. Introduction to Modular Multi-level Converters.

**TOTAL: 45 PERIODS**

### COURSE OUTCOMES:

At the end of this course, students will demonstrate the ability to

CO2 - Understand the advantages of DC transmission over AC transmission.

CO3 - Understand the operation of Line Commutated Converters and Voltage Source Converters.

CO4 - Analyze the control strategies used in HV DC transmission system.

CO5 - Appraise the improvement of power system stability using an HV DC system.

### TEXT/REFERENCE BOOKS:

1. Arrillaga, "High Voltage Direct Current Transmission", Peter Peregrinus Ltd., 1983.
2. E. W. Kimbark, "Direct Current Transmission", Vol.1, Wiley-Interscience, 1971.
3. K. R. Padiyar, "HVDC Power Transmission Systems", New Age International Publishers, 2011.



  
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<b>AEET3113</b>	<b>HIGH VOLTAGE ENGINEERING AND TRAVELLING WAVES</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>Total Marks</b>
		<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>100</b>

## COURSE OBJECTIVES

To impart knowledge on the following Topics

- Various types of over voltages in power system and protection methods.
- Generation of over voltages in laboratories.
- Measurement of over voltages.
- Nature of Breakdown mechanism in solid, liquid and gaseous dielectrics.
- Testing of power apparatus and insulation coordination

### UNIT I BREAKDOWN IN GASES

9

Ionization processes and de-ionization processes, Types of Discharge, Gases as insulating materials, Breakdown in Uniform gap, non-uniform gaps, Townsend's theory, Streamer mechanism, Corona discharge Breakdown in liquid and solid Insulating materials - Breakdown in pure and commercial liquids, Solid dielectrics and composite dielectrics, intrinsic breakdown, electromechanical breakdown and thermal breakdown, Partial discharge, applications of insulating materials.

### UNIT II GENERATION OF HIGH VOLTAGES

9

Generation of high voltages, generation of high D. C. and A.C. voltages, generation of impulse voltages, generation of impulse currents, tripping and control of impulse generators.

Measurements of High Voltages and Currents - Peak voltage, impulse voltage and high direct current measurement method, cathode ray oscillographs for impulse voltage and current measurement, measurement of dielectric constant and loss factor, partial discharge measurements.

### UNIT III LIGHTNING AND SWITCHING OVER-VOLTAGES

9

Charge formation in clouds, Stepped leader, Dart leader, Lightning Surges. Switching over-voltages, Protection against over-voltages, Surge diverters, Surge modifiers.

### UNIT IV TRAVELLING WAVES

9

The shape, attenuation, distortion of waves, Successive reflections. Traveling waves on multi conductor systems, Theory of ground wires, counterpoise.

### UNIT V HIGH VOLTAGE TESTING OF ELECTRICAL APPARATUS AND HIGH VOLTAGE LABORATORIES

9

Various standards for HV Testing of electrical apparatus, IS, IEC standards, Testing of insulators and bushings, testing of isolators and circuit breakers, testing of cables, power transformers and some high voltage equipment, High voltage laboratory layout, indoor and outdoor laboratories, testing facility requirements, safety precautions in H. V. Labs.

**TOTAL; 45 PERIODS**

## COURSE OUTCOMES:

At the end of the course, the student will demonstrate


CO2 - Understand the basic physics related to various breakdown processes in solid, liquid and gaseous insulating materials.

CO4 - Obtain knowledge of generation and measurement of D.C., A.C., & Impulse voltages.

CO5 - Select the tests on H. V. equipment and on insulating materials, as per the standards.

CO4 - Obtain knowledge of how over-voltages arise in a power system, and protection against these over-voltages.



  
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## TEXT BOOKS

1. L.V.Bewley, "Traveling Waves on Transmission Systems" Dover Publications, Inc., New York
2. E. Kuffel and W.S. Zaengl, J.Kuffel, "High voltage Engineering fundamentals", Newnes Second Edition Elsevier , New Delhi, 2005.
3. M. S. Naidu and V. Kamaraju, " High Voltage Engineering", McGraw Hill Education, 2013.
4. C.L.Wadhwa, "High Voltage Engineering", New Age International Publishers, 2007.

## REFERENCES

1. L.L. Alston, 'High Voltage Technology', Oxford University Press, First Indian Edition, 2011.
2. Mazen Abdel – Salam, Hussein Anis, Ahdab A-Morshedy, Roshday and Radwan, "High Voltage Engineering – Theory &Practice", Second Edition Marcel Dekker, Inc., 2010.
3. D. V. Razevig (Translated by Dr. M. P. Chourasia), " High Voltage Engineering Fundamentals", Khanna Publishers, 1993.
4. E. Kuffel, W. S. Zaengl and J. Kuffel, " High Voltage Engineering Fundamentals", Newnes Publication, 2000.
5. R. Arora and W. Mosch "High Voltage and Electrical Insulation Engineering", John Wiley & Sons, 2011.
6. Subir Ray, "An Introduction to High Voltage Engineering", PHI Learning Private Limited, New Delhi, Second Edition, 2013.
7. Various IS standards for HV Laboratory Techniques and Testing



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**NEW COURSES FOR THE ACADEMIC YEAR 2021-2022**

**B.E. – ELECTRICAL AND ELECTRONICS ENGINEERING**

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	EEU	B.E. - Electrical and Electronics Engineering	AMAT2111	PROBABILITY & STATISTICS
2	EEU	B.E. - Electrical and Electronics Engineering	AECT2110	ANALOG ELECTRONICS
3	EEU	B.E. - Electrical and Electronics Engineering	AECL2106	ANALOG ELECTRONICS LAB
4	EEU	B.E. - Electrical and Electronics Engineering	AEET2102	ELECTRICAL CIRCUIT ANALYSIS
5	EEU	B.E. - Electrical and Electronics Engineering	AEET2103	ELECTRICAL MACHINES – I
6	EEU	B.E. - Electrical and Electronics Engineering	AEEL2102	ELECTRICAL MACHINES – I LAB
7	EEU	B.E. - Electrical and Electronics Engineering	AECT2199	ELECTROMAGNETIC FIELDS
8	EEU	B.E. - Electrical and Electronics Engineering	AEET2104	RENEWABLE SOURCE OF ENERGY
9	EEU	B.E. - Electrical and Electronics Engineering	AMAT2112	NUMERICAL METHODS AND LAPLACE TRANSFORMS
10	EEU	B.E. - Electrical and Electronics Engineering	AEET2105	GENERATION, TRANSMISSION AND DISTRIBUTION
11	EEU	B.E. - Electrical and Electronics Engineering	AEET2106	ELECTRICAL MACHINES – II
12	EEU	B.E. - Electrical and Electronics Engineering	AEEL2103	ELECTRICAL MACHINES – II LAB
13	EEU	B.E. - Electrical and Electronics Engineering	AEET2107	POWER ELECTRONICS
14	EEU	B.E. - Electrical and Electronics Engineering	AEEL2104	POWER ELECTRONICS AND DIGITAL SYSTEM DESIGN LAB
15	EEU	B.E. - Electrical and Electronics Engineering	AEET2108	POWER QUALITY IN MODERN POWER SYSTEM
16	EEU	B.E. - Electrical and Electronics Engineering	AEEI2101	INTERNSHIP I



  
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MINUTES OF THE 24<sup>th</sup> MEETING OF THE BOARD OF STUDIES IN

### MECHANICAL ENGINEERING

Held on 22.02.2022 by Online  
**Members Present**

S. No.	Name of the Member	Designation	Member
1.	Dr. N. Rajeswari	Professor & Head, Dept. of Mechanical Engg.SPIHER.	Chairperson
2.	Dr. P. Periyasamy	Professor, Dept. of Mechanical Engg.SPIHER.	Member
3.	Dr. D. Chandramohan	Professor, Dept. of Mechanical Engg.SPIHER.	Member
4.	Dr. K. Gurusami	Asso. Professor, Dept. of Mechanical Engg.SPIHER.	Member
5.	Dr. M. Dhanashekar	Asst. Professor, Dept. of Mechanical Engg.SPIHER.	Member
6.	Dr. S. Dinesh Kumar	Asst. Professor, Dept. of Mechanical Engg.SPIHER.	Member
7.	Mrs. K. Sunitha	Asst. Professor, Dept. of Mechanical Engg.SPIHER.	Member
8.	Mr. S. Rangarajan	Asst. Professor, Dept. of Mechanical Engg.SPIHER.	Member
10.	Dr. A. Elayaperumal	Professor, Engineering Design division Anna University.	Academic Expert Member
11.	Dr. Raja Rasalnath Selvaraj	Director, Burnass Engg. Solutions &Tech. Pvt. Ltd. Chennai.	Industry Expert Member



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**Chairman**

**24.1** Considered the minutes of the 23<sup>rd</sup> meeting of Board of Studies in Mechanical Engineering held on 06.09.2021

**RESOLVED** that the minutes of the 23<sup>rd</sup> meeting of Board of Studies in Mechanical Engineering held on 06.09.2021 be confirmed.

**24.2** Reviewed the Curriculum and Syllabi of B.E. (Mechanical Engineering) programme under the Regulations 2018.

**RESOLVED** that the Curriculum and Syllabi of B.E. (Mechanical Engineering) programme under the Regulations 2018 be continued with following amendments (Appendix I).

(a.) Emerging techniques in manufacturing process be included and with restructured course on 818MET06- Modern Manufacturing Techniques (3 Credits) in the Programme Elective Group VI for VIII semester.

(b.) The under mentioned, two new courses be included in the curriculum under open elective category as given below.

(i) The course on 818MET14- Intellectual Property Rights (3 Credits), in order to provide comprehensive knowledge to the students regarding the general principles of Intellectual Property Rights, its Concept, Theories and Criticisms.

(ii) The course on 818MET15- Entrepreneurial Development (3 Credits), in order to inculcate the Entrepreneurial spirit, awareness and the relevant knowledge among the students.

**24.3** Reviewed the Curriculum and Syllabi of B.E. (Mechanical Engineering) programme under the Regulations 2020 for semester I to Semester VI.

**RESOLVED** that the Curriculum and Syllabi of B.E. (Mechanical Engineering) programme under the Regulations 2020 for semester I to Semester VI, be continued with following amendment (Appendix II)

- Considering the importance of imparting practical knowledge among the students on Automotive Components and their functions, a Subdivision on Dismantling And Assembling Of Automotive



Components' is included as Part-B in AMEL3106- Thermal Engineering Laboratory- I in the 5<sup>th</sup> semester. Out of 60 marks, 40 and 20 marks are considered for Part A and Part B respectively.

**24.4** Reviewed the Regulation and Syllabi of 7<sup>th</sup> & 8<sup>th</sup> semesters of B.E. (Mechanical Engineering) under the Regulations 2020 with choice based credit system (CBCS).

**RESOLVED** that the Syllabus of B.E. (Mechanical Engineering) under the Regulations 2020 with syllabi for 7<sup>th</sup> & 8<sup>th</sup> semesters to be effective from 2021-22 be approved with the following changes.(Appendix - III)

**24.5** Reviewed the syllabus of III & IV semester of M.E (Advanced Manufacturing Technology) programme from the batch of students to be admitted from 2021-22 under the Regulations 2021.

**RESOLVED** that the syllabus of III & IV semester of M.E. (Advanced Manufacturing Technology) programme from the batch of students to be admitted from 2021-22 under the Regulations 2021 be approved. (Appendix - IV)

**24.5** Considered on developing the skills in professional domains and branch specific areas to promote industry ready competency among learners/ Necessary certification courses / Internship training

**RESOLVED** that developing the skills in professional domains and branch specific areas to promote industry ready competency among learners/ Necessary certification courses / Internship training to be approved based on the suggestions given by the BOS members as follows:

- Value added course to be conducted on mechanical micro machining to reduce the gap between academic and industry.
- MOUs to be signed for the Internship training to enhance the student skills.



  
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**24.6** Reviewed and considered the curriculum feedback analysis and action taken report based on the suggestions given by the stake holders.

**Resolved** that the curriculum feedback analysis and action taken report based on the suggestions given by the stake holders to be approved. (Appendix - V).

**24.7** With the above discussion, chairman of the board expressed his deep sense of gratitude for all members for progressive academic discussion. Since there was no other agenda, the meeting ended with vote of thanks by the Board chairman Dr.N. Rajeswari.

**Date: 22.02.2022**



**Chairman**



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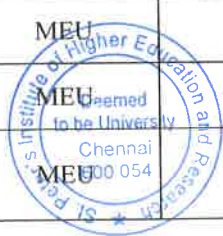
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**NEW COURSES FOR THE ACADEMIC YEAR 2021-2022**

**B.E. – MECHANICAL ENGINEERING**

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	MEU	B.E. - Mechanical Engineering	AMET2103	STRENGTH OF MATERIALS
2	MEU	B.E. - Mechanical Engineering	AMET2104	FLUID MECHANICS AND MACHINERY
3	MEU	B.E. - Mechanical Engineering	AMET2105	ENGINEERING THERMODYNAMICS
4	MEU	B.E. - Mechanical Engineering	AMET2106	MANUFACTURING TECHNOLOGY-I
5	MEU	B.E. - Mechanical Engineering	AMET2107	ENGINEERING MATERIALS AND METALLURGY
6	MEU	B.E. - Mechanical Engineering	AMEL2102	STRENGTH OF MATERIALS AND FLUID MACHINERY LABORATORY
7	MEU	B.E. - Mechanical Engineering	AMET2108	KINEMATICS OF MACHINERY
8	MEU	B.E. - Mechanical Engineering	AMET2109	THERMAL ENGINEERING
9	MEU	B.E. - Mechanical Engineering	AMET2110	MANUFACTURING TECHNOLOGY- II
10	MEU	B.E. - Mechanical Engineering	AMET2111	METROLOGY AND MEASUREMENTS
11	MEU	B.E. - Mechanical Engineering	AMET2112	COMPUTER AIDED DESIGN
12	MEU	B.E. - Mechanical Engineering	AMEL2103	COMPUTER AIDED DESIGN AND MANUFACTURING LABORATORY
13	MEU	B.E. - Mechanical Engineering	AMEL2104	MACHINE DRAWING
14	MEU	B.E. - Mechanical Engineering	AMEL2105	MANUFACTURING TECHNOLOGY LABORATORY
15	MEU	B.E. - Mechanical Engineering	AMEI2101	INTERNSHIP I
16	MEU	B.E. - Mechanical Engineering	718MET01	HYDRAULICS AND PNEUMATICS
17	MEU	B.E. - Mechanical Engineering	718MET02	POWER PLANT ENGINEERING
18	MEU	B.E. - Mechanical Engineering	718MET03	PRODUCTION PLANNING AND CONTROL
19	MEU	B.E. - Mechanical Engineering	718MET07	PROCESS PLANNING AND COST ESTIMATION (PRG. ELECTIVE IV)



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20	MEU	B.E. - Mechanical Engineering	718MET09	MEMS AND MICROSYSTEMS (PRG. ELECTIVE IV)
21	MEU	B.E. - Mechanical Engineering	718MET11	PRODUCT DESIGN AND DEVELOPMENT (PRG. ELECTIVE V)
22	MEU	B.E. - Mechanical Engineering	718MET13	PRECISION MANUFACTURING (PRG. ELECTIVE V)
23	MEU	B.E. - Mechanical Engineering	718MET17	ELECTRIC VEHICLE FUNDAMENTALS AND DESIGN (INSTITUTE ELECTIVE-I)
24	MEU	B.E. - Mechanical Engineering	718MEP01	COMPUTER AIDED SIMULATION ANALYSIS LABORATORY
25	MEU	B.E. - Mechanical Engineering	718MEP02	PROJECT PHASE I
26	MEU	B.E. - Mechanical Engineering	818MET03	QUALITY AND RELIABILITY ENGINEERING (PRG. ELECTIVE VI)
27	MEU	B.E. - Mechanical Engineering	818MET06	MODERN MANUFACTURING TECHNIQUES (PRG. ELECTIVE VI)
28	MEU	B.E. - Mechanical Engineering	818MEP01	PROJECT PHASE -II

*[Handwritten signature]*



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**Appendix I**  
**B.E. MECHANICAL ENGINEERING**  
**REGULATION 2018**  
**(Choice Based Credit System)**

**818MET06      MODERN MANUFACTURING TECHNIQUES**

Prerequisites: Manufacturing Technology-II & Unconventional machining Techniques

**Course Objectives:**

**The main learning objective of this course is to prepare the students for:**

- To make the students aware of the various alternative manufacturing processes available.
- To develop an attitude to look for the upcoming advanced manufacturing process to machine
- To make them to understand and appreciate the latest manufacturing process for micro fabrication and devices.

**UNIT 1: ADVANCES IN CASTING**

Newer casting techniques- Expandable pattern casting- Plaster mold and ceramic mold casting- Vacuum casting- squeeze casting and semisolid metal forming- rapid solidification for amorphous alloys- casting techniques for single crystal components.

**UNIT 2: ADVANCED FORMING AND POWDER METALLURGY PROCESS**

High speed forging machines- Die materials- Peen forming of sheet metals- Super plastic forming Forming and shaping glass- Design consideration for P/M forming- Production of metal powders- Compaction ,Sintering- Selective laser Sintering- Finishing of sintered parts- Economic of P/M forming

**UNIT 3: RAPID PROTOTYPING AND TOOLING**

Definition, evolution, CAD for RPT- Product design and rapid product development- Fundamentals of various RPT technologies Creation of STL or SLA file from a 3D solid model- Principles and typical processes for quick batch production of plastic and metal parts through quick tooling

**UNIT 4: FABRICATION OF MICRO DEVICES**

Semiconductors – films and film depurification – Oxidation - diffusion – ion implantation – etching – metallization – bonding – surface and bulk machining – LIGA Process – Solid free form fabrication



  
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## UNIT 5: MICROFABRICATION TECHNOLOGY

Wafer preparation – monolithic processing – moulding – PCB board hybrid & mcm technology – programmable devices & ASIC – electronic material and processing– steriolithography SAW devices, Surface Mount Technology.

### COURSE OUTCOMES

**Upon the completion of this course the students will be able to**

**CO1-** The students will gain knowledge in the alternative manufacturing methods in use.

**CO2-** Identify the advance casting, forming and other manufacturing processes for better and timely productivity.

**CO3-** Gain knowledge in the latest manufacturing techniques for micro fabrication and devices.

### TEXT BOOKS

1. Taniguchi – Nano technology – Oxford University Press 1996.
2. Padey P.C. & Shan HS Modern Machining Processes, Standard Publishing Co., 1980

### REFERENCES:

1. Serope kelpkijian & stevan r. schmid- manufacturing process engg material – 2003
2. Micro sensors Mems & smart devices- Julian W.Hardner – 2002
3. Brahem T. Smith, Advanced machining I.F.S. UK 1989.

## 818MET14- INTELLECTUAL PROPERTY RIGHTS

### Course Objectives:

**The main learning objective of this course is to prepare the students for:**

- To give an idea about IPR, registration and its enforcement.

### UNIT1: INTRODUCTION

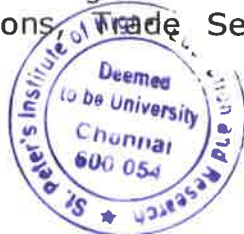
**9hrs**

Introduction to IPRs, Basic concepts and need for Intellectual Property– Patents, Copyrights, Geographical Indications, IPR in India and Abroad – Genesis and Development – the way from WTO to WIPO –TRIPS, Nature of Intellectual Property, Industrial Property, technological Research, Inventions and Innovations–Important examples of IPR.

### UNIT2: REGISTRATION OF IPRs

**10hrs**

Meaning and practical aspects of registration of Copy Rights, Trademarks, Patents, Geographical Indications, Trade Secrets and Industrial Design



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registration in India and Abroad

**UNIT3: AGREEMENTS AND LEGISLATIONS**

**10hrs**

International Treaties and Conventions on IPRs, TRIPS Agreement, PCT Agreement, Patent Act of India, Patent Amendment Act, Design Act, Trademark Act, Geographical Indication Act.

**UNIT4: DIGITAL PRODUCTS AND LAW**

**9hrs**

Digital Innovations and Developments as Knowledge Assets – IP Laws, Cyber Law and Digital Content Protection – Unfair Competition – Meaning and Relationship between Unfair Competition and IP Laws –Case Studies.

**UNIT5: ENFORCEMENT OF IPRs**

**7hrs**

Infringement of IPRs, Enforcement Measures, Emerging issues – Case Studies.

**Total Hours: 45**

**COURSE OUTCOME**

Upon the completion of this course the students will be able to manage Intellectual Property portfolio to enhance the value of the firm.

**TEXT/REFERENCE BOOKS**

1. V.ScopleVinod, "**Managing Intellectual Property**", Prentice Hall of India pvt Ltd, 2012.
2. S.V.Satakar, "**Intellectual Property Rights and Copy Rights**", EssEss Publications, New Delhi, 2002
3. Deborah E. Bouchoux, "**Intellectual Property: The Law of Trademarks**" Copyrights, Patents and Trade Secrets, Cengage Learning, Third Edition, 2012.

**818MET15- ENTREPRENEURIAL DEVELOPMENT**

**COURSE OBJECTIVES:**

**The main learning objective of this course is to prepare the students to:**

- To familiarize the students with the latest programmes of Government in promoting small and medium industries.
- To impart knowledge regarding starting of new ventures.

**UNIT I: ENTREPRENEURIAL COMPETENCIES**

**9 hrs**

Entrepreneurship – concept Entrepreneurship as a career- Entrepreneurial Personality- characteristics of a successful entrepreneur- qualities and skills of successful entrepreneur-classification of entrepreneur Entrepreneurial



Functions-factors affecting entrepreneurial growth- women entrepreneurs-problems.

## **UNIT II: ENTREPRENEURIAL DEVELOPMENT SUPPORT AGENCIES**

**9 hrs**

Commercial Banks - District Industries Centre - National Small Industries Corporation- Small Industries Development Organisation - Small Industries Service Institute- SIPCOT and its objectives. MSME Sector and its coverage - Objectives, Role and Functions of MSME - Development Organisation (MSME - DO) – Objectives of SIDCO - Functions of Tamil Nadu SIDCO - IRBI and its Role. NABARD and its role in the Rural Development of India - MUDRA.SIDC, SFCs, DGS & D, KVIC.

## **UNIT III: BUSINESS PLAN AND FEASIBILITY STUDY**

**9 hrs**

Sources of Project Idea-Feasibility Study-Criteria for Selection of Project-techniques for Project appraisal-preparation of Feasibility Report- Profile Preparation -matching Entrepreneur with the Project-Feasibility Report Preparation and Evaluation Criteria-factors affecting Project Development.

## **UNIT IV: PROJECT REPORT PREPERATION**

**9 hrs**

Project Report-Requirements of a good reportGeneral Principles of a Good Report-Performa of a Project Report.

## **UNIT V: GOODS AND SERVICES TAX**

**9 hrs**

Introduction –Direct and Indirect Taxes– Basic Concepts – Advantages – Disadvantages & Distinction - Types of indirect tax - sales tax- a specific tax, Value-Added Tax (VAT), or Goods And Services Tax (GST) - Comparison on Pros and Cons of VAT and GST- Movement to GST- Stages of Evolution of GST, Structure of GST – CGST, SGST, UTGST & IGST, Benefits of implementing GST, GSTN – Structure, features and functions.

**Total Hours: 45**

### **COURSE OUTCOMES**

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

**CO1:** Develop awareness about entrepreneurship and successful entrepreneurs and to develop an entrepreneurial mind-set, discover their strengths and weaknesses in terms of qualities and traits required to be a successful



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entrepreneur.

**CO2:** To formulate business plan and feasibility study and capability to prepare project reports.

**CO3:** Awareness about prevailing entrepreneurial development support agencies.

**CO4:** Develop the entrepreneurial mind-set further in terms of acquiring a business focus, creative thinking, risk-taking ability, and more.

**CO5:** Acquire knowledge on indirect taxes, GST and Customs Duty, registration, payment and refund of GST and develop capability to understand the impact of latest regulations and prepare for adopting the changes.


### **TEXT BOOKS:**

1. Janakiram B, and Rizwana M, Entrepreneurship Development, Text and Cases, Excel Books India, 2011, Delhi.
2. Arun Mittal & Gupta S.L - Entrepreneurship Development, International Book House Pvt. Ltd., 2011, Mumbai.

### **REFERENCE BOOKS:**

1. Anil Kumar S, Poornima S, Abraham K, Jayashree K –Entrepreneurship Development, New Age International (P) Ltd., 2012, Delhi
2. Gupta C B and Srinivasan NP, Entrepreneurial Development, Sultan Chand & Sons, 2013, New Delhi.



  
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## Appendix II

### **B.E. MECHANICAL ENGINEERING REGULATION 2020 (Choice Based Credit System)**

#### **AMEL3106- THERMAL ENGINEERING LABORATORY – I**

##### **COURSE OBJECTIVES:**

To practically understand the Internal Combustion Engine parts, their functionality, concepts of Valve Timing, Port Timing and p-v diagrams, performance characteristics of Engines, Boiler & Turbine and the procedure involved in dismantling and assembly of various engine components.

##### **PART A---I.C. ENGINE & STEAM LAB**

##### **LIST OF EXPERIMENTS:**

1. Valve Timing and Port Timing diagrams.
2. Actual p-v diagrams of IC engines.
3. Performance Test on 4 – stroke Diesel Engine.
4. Heat Balance Test on 4 – stroke Diesel Engine.
5. Morse Test on Multi-cylinder Petrol Engine.
6. Retardation Test on a Diesel Engine.
7. Determination of Flash Point and Fire Point of various fuels / lubricants.
8. Study on Steam Generators and Turbines.

##### **PART B-- DISMANTLING AND ASSEMBLING OF AUTOMOTIVE COMPONENTS**

##### **LIST OF EXPERIMENTS:**

1. Study of Automobile Components and its Functions.
2. Dismantling and Assembly of
  - Single Cylinder Diesel Engine.
  - Fuel Injection Systems.
  - Clutches.
  - Gear Boxes.
  - Differential.
  - Brakes.
  - Suspension.
  - steering system



  
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## COURSE OUTCOMES

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

**CO1-** Analyze the performance characteristics of various engines.

**CO2-** Apply for proper valve and port timing in IC engines.

**CO3-** Understand the concept of Flash and Fire Point and working of compressors.


**CO4-** Develop skills in dismantling & assembling of running system.

**CO5-** Understand the fundamentals in every area of thermal engineering.

## LIST OF EQUIPMENT FOR A BATCH OF 30 STUDENTS

S.No.	NAME OF THE EQUIPMENT	Qty.
1.	I.C Engine – 2 stroke and 4 stroke model	1 set
2.	Apparatus for Flash and Fire Point	1 No.
3.	4-stroke Diesel Engine with mechanical loading.	1 No
4.	4-stroke Diesel Engine with hydraulic loading.	1 No.
5.	4-stroke Diesel Engine with electrical loading.	1 No.
6.	Multi-cylinder Petrol Engine	1 No.
7.	Single cylinder Petrol Engine	1 No.
8.	Data Acquisition system with any one of the above engines	1 No.
9.	Steam Boiler with turbine setup	1 No.




  
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**Appendix III**  
**B.E. MECHANICAL ENGINEERING**  
**REGULATION 2020**  
**(Choice Based Credit System)**

SEMESTER 7									
Sl. No.	Course Code	Course Title	L	T	P	C	CA	EA	TOTAL
1.	AMET4140	Hydraulics and pneumatics	3	0	0	3	40	60	100
2.	AMET4141	Power Plant Engineering	3	0	0	3	40	60	100
3.	AMET4142	Production Planning and Control	3	0	0	3	40	60	100
4.		Programme Elective IV	3	0	0	3	40	60	100
5.		Programme Elective V	3	0	0	3	40	60	100
6.		Institute Elective I	2	0	0	3	40	60	100
7.	AMEL4109	Geometric Modeling And Simulation Laboratory	0	0	4	2	40	60	100
8.	AMEP4101	Project Phase I	0	0	0	3	40	60	100
TOTAL			17	0	4	23	320	480	800

SEMESTER 8									
Sl. No.	Course Code	Course Title	L	T	P	C	CA	EA	TOTAL
1.		Programme Elective –VI	3	0	0	3	40	60	100
2.		Institute Elective -II	3	0	0	3	40	60	100
3.	AMEP4102	Project Phase -II	0	0	0	7	40	60	100
TOTAL			6	0	0	13	120	180	300



  
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### Appendix – IV

#### M.E. ADVANCED MANUFACTURING TECHNOLOGY REGULATION 2021 (Choice Based Credit System)

Code No.	Course Title	L	T	P	Cred it	Marks		
						CA	EA	Tot al
<b>Theory&amp; Practical</b>								
	Programme Elective-4	3	0	0	3	40	60	100
	Programme Elective-5	3	0	0	3	40	60	100
	Institute Elective	3	0	0	3	40	60	100
AMEPP2101	Project Work Phase -I	0	0	12	8	40	60	100

Code No.	Course Title	L	T	P	Cred it	Marks		
						CA	EA	Tota l
<b>Theory&amp; Practical</b>								
AMEPP2102	Project Work Phase -II	0	0	24	16	40	60	100
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>16</b>	<b>40</b>	<b>60</b>	<b>100</b>



*[Signature]*  
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Appendix – V

**ACTION TAKEN REPORT ON STAKEHOLDERS FEEDBACK**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**2021-2022**

<b>Program</b>	<b>Stakeholder</b>	<b>Feedback</b>	<b>Recommendation</b>	<b>Action taken</b>
B.E. MECH	Student	Content of syllabi needs enhancement in terms of quality	Subsequent application by teachers was observed and efforts were effective	All the teachers were notified about the issue and they were encouraged and enriched the curriculum with more appropriate teaching-learning methods and techniques.
	Teacher	Teachers should have the freedom to adopt innovative techniques/strategies of teaching such as seminar presentations, group discussions etc.	Teachers paid more attention to have more innovative techniques and strategies for teaching	The details of the feedback were received by the department and appropriate awareness was created. Teachers were encouraged to adopt more innovative techniques and strategies for teaching
	Alumni	More exposure to field visits in curriculum	Teachers paid more attention to have more field visits and thus gave exposure to students for field visits.	All the teachers were notified about the issue and they were encouraged to have more field visits as a part of their curriculum
	Parents	Practical Knowledge to be imparted which will help them to face real life situations.	More attention for practical session	Mini Project models and individual presentations by students in the institution were encouraged for participating in competitions organised by other institutions were facilitated



	Employer	Faculty-student interaction may be enhanced. Smart class programmes may be made effective	Learning Management System through interactive activities which enables the mutual interaction between faculty and student was encouraged	Smart Class rooms, Video conferencing etc was made effective by use of ICT
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AVADI, CHENNAI - 600 054.

**MINUTES OF THE 11<sup>th</sup> MEETING OF THE BOARD OF STUDIES IN**

**BIOCHEMISTRY**

Held on 24.02.2022

**Members Present**

S.No	Name	Designation	Member	Signature
1.	Dr. N. Radhakrishnan	Professor & Head	Chairman	
2.	Dr. P. Vasantha Srinivasan	Professor & Head	Internal Member	
3.	Ms. BV. Febiyola	Assistant Professor	Internal Member	
4.	Dr. A. Suresh Kumar	Scientist, Biochemistry & Biotech Division CSIR-CLRI, Chennai	External Member	
5.	Dr. Balu Ranganathan	Technology- Director,  M/s Palms connect Solution Pvt. Ltd. Chennai.	External Member	



  
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Chairman

Head of the Department  
Biochemistry  
St. Peter's Institute of Higher Education & Research  
Avadi, Chennai - 600 054.

**11.1** Considered the minutes of the 10<sup>th</sup> meeting of Board of Studies in BIOCHEMISTRY held on 20.10.2021

**RESOLVED** that the minutes of the 10<sup>th</sup> meeting of Board of Studies in BIOCHEMISTRY held on 20.10.2021 be confirmed

**11.2** Reviewed the Regulation & Syllabi of V & VI of B.Sc. BIOCHEMISTRY programme under the Regulations 2020 with Choice Based Credit System (CBCS).

**RESOLVED** that the Regulation & Syllabi of V & VI of B.Sc. BIOCHEMISTRY programme under the Regulations 2020 with Choice Based Credit System (CBCS) be continued (Appendix I)

**11.3** Reviewed the Regulation & Syllabi of M.Sc. BIOCHEMISTRY programme under the Regulations 2020 with Choice Based Credit System (CBCS).

**RESOLVED** that the Regulation & Syllabi of M.Sc. BIOCHEMISTRY programme under the Regulations 2020 with Choice Based Credit System (CBCS) be continued.

**11.4** Considered to include value added courses imparting transferable and life skills offered beyond the curriculum in the syllabi of B.Sc. (BIOCHEMISTRY) and M.Sc. (BIOCHEMISTRY).

**RESOLVED** that the value added courses imparting transferable and life skills offered beyond the curriculum such as course on "Effects of global warming" be approved for the upcoming semester (2021-2022- Odd semester).

**11.5** Considered to include courses having focus on employability/ entrepreneurship /skill development in the syllabi of B.Sc. (BIOCHEMISTRY) under the Regulations 2020 and M.Sc. (BIOCHEMISTRY) under the Regulations 2020

**RESOLVED** that the courses having focus on employability/ entrepreneurship /skill development year wise in the syllabi of B.Sc. (BIOCHEMISTRY) under the Regulations 2020 and M.Sc. (BIOCHEMISTRY) under the Regulations 2020 to be approved.



Date 24.02.2022

Registrar

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Chairman  
Head of the Department  
Biochemistry  
St. Peter's Institute of Higher Education & Research  
Avadi, Chennai - 600 054.

## Appendix – I

### St. Peter's Institute of Higher Education and Research B. Sc. BIOCHEMISTRY

#### V Semester

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ABYT3601	Enzymology	5	0	0	4	40	60	100
ABYT36-	Program Elective – I*	5	0	0	4	40	60	100
ABYT36-	Program Elective –II**	5	0	0	6	40	60	100
-----	Institute Elective –I#	4	0	0	3	40	60	100
ABYL3601	Enzymology Lab	0	0	4	2	40	60	100
ABYL36-	Program Elective – I (Lab)	0	0	4	2	40	60	100
ASSL3604	Soft Skills – IV	2	0	0	1	-	100	100
ASSI3603	Internship – III	0	0	2	1	-	100	100
<b>Total</b>		<b>19</b>	<b>3</b>	<b>10</b>	<b>23</b>	<b>240</b>	<b>560</b>	<b>800</b>

#### VI Semester

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ABYT3608	Clinical Biochemistry	5	0	0	4	40	60	100
ABYT36_	Program Elective – III*	5	0	0	6	40	60	100
-----	Institute Elective –II**	4	0	0	3	40	60	100
ABYL3608	Clinical Biochemistry Lab	0	0	4	2	40	60	100
ABYP3601	Project Work	0	0	8	8	40	60	100
ASSL3605	Soft Skills – V	2	0	0	1	-	100	100
AEAL3601	Extension Activity	0	0	2	1	-	100	100
<b>Total</b>		<b>14</b>	<b>1</b>	<b>15</b>	<b>25</b>	<b>200</b>	<b>500</b>	<b>700</b>



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## St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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### MINUTES OF THE 11<sup>th</sup> MEETING OF THE BOARD OF STUDIES IN BIOTECHNOLOGY

Held on 24.02.2022

#### Members Present

S.No	Name	Designation	Member	Signature
1.	Dr. P. Vasantha Srinivasan	Professor & Head	Chairman	
2.	Dr. N. Radhakrishnan	Professor & Head	Internal Member	
3.	Dr. K. Amala	Assistant Professor	Internal Member	
4.	Ms. P. Yogarajalakshmi	Assistant Professor	Internal Member	
5.	Dr. A. Suresh Kumar	Scientist, Biochemistry & Biotech Division CSIR-CLRI, Chennai	External Member	
6.	Dr. Balu Ranganathan	Technology-Director, M/s Palms connect Solution Pvt. Ltd. Chennai.	External Member	



  
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Chairman

St. Peter's Institute of Higher Education and Research  
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Avadi, Chennai-600 054.

Head of the Department  
Biotechnology  
St. Peter's Institute of Higher Education & Research  
Avadi, Chennai - 600 054.

11.1 Considered the minutes of the 10<sup>th</sup> meeting of Board of Studies in Biotechnology held on 20.10.2021

**RESOLVED** that the minutes of the 10<sup>th</sup> meeting of Board of Studies in Biotechnology held on 20.10.2021 be confirmed

11.2 Reviewed the Regulation & Syllabi of V & VI of B.Sc. Biotechnology programme under the Regulations 2020 with Choice Based Credit System (CBCS).

**RESOLVED** that the Regulation & Syllabi of V & VI of B.Sc. Biotechnology programme under the Regulations 2020 with Choice Based Credit System (CBCS) be continued (Appendix I)

11.3 Reviewed the Regulation & Syllabi of M.Sc. Biotechnology programme under the Regulations 2020 with Choice Based Credit System (CBCS).

**RESOLVED** that the Regulation & Syllabi of M.Sc. Biotechnology programme under the Regulations 2020 with Choice Based Credit System (CBCS) be continued.

11.4 Considered to include value added courses imparting transferable and life skills offered beyond the curriculum in the syllabi of B.Sc. (Biotechnology) and M.Sc. (Biotechnology).

**RESOLVED** that the value added courses imparting transferable and life skills offered beyond the curriculum such as course on "Effects of global warming" be approved for the upcoming semester (2021-2022- Odd semester).

11.5 Considered to include courses having focus on employability/ entrepreneurship /skill development in the syllabi of B.Sc. (Biotechnology) under the Regulations 2020 and M.Sc. (Biotechnology) under the Regulations 2020

**RESOLVED** that the courses having focus on employability/ entrepreneurship /skill development year wise in the syllabi of B.Sc. (Biotechnology) under the Regulations 2020 and M.Sc. (Biotechnology) under the Regulations 2020 to be approved.

**Date: 24.02.2022**



  
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**Chairman**

Head of the Department  
Biotechnology  
St. Peter's Institute of Higher Education & Research  
Avadi, Chennai - 600 054.



## Appendix – I

### St. Peter's Institute of Higher Education and Research B. Sc. Biotechnology

#### V Semester

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ABTT3601	Bioinformatics	4	1	0	4	40	60	100
ABTT36--	Program Elective – I*	5	0	0	4	40	60	100
ABTT36--	Program Elective –II**	5	0	0	6	40	60	100
-----	Institute Elective –I <sup>#</sup>	4	0	0	3	40	60	100
ABTL3601	Bioinformatics Lab	0	0	4	2	40	60	100
ABTL36--	Program Elective – I (Lab)	0	0	4	2	40	60	100
ASSL3604	Soft Skills – IV	2	0	0	1	-	100	100
ASSI3603	Internship – III	0	0	2	1	-	100	100
Total		19	3	10	23	240	560	800

#### VI Semester

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ABTT3608	Genetic Engineering	5	0	0	4	40	60	100
ABTT36--	Program Elective – III*	5	0	0	6	40	60	100
-----	Institute Elective –II <sup>#</sup>	4	0	0	3	40	60	100
ABTL3608	Genetic Engineering Lab	0	0	4	2	40	60	100
ABTP36--	Project Work	0	0	6	6	40	60	100
ASSL3605	Soft Skills – V	2	0	0	1	100	-	100
AEAL3601	Extension Activity	0	0	2	1	100	-	100
Total		14	1	15	23	400	300	700



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## St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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AVADI, CHENNAI – 600 054.

### MINUTES OF THE 25<sup>th</sup> MEETING OF THE BOARD OF STUDIES IN DEPARTMENT OF MANAGEMENT STUDIES

Held on 24.02.2022

#### Members Present

S.No	Name	Designation	Member	Signature
1.	Dr. R.Balaji	Professor & Head of Management studies	Chairman	
2.	Dr.S.Ramachandran	Assistant Professor	Member	
3.	Ms. D. Divya	Assistant Professor	Member	
4.	Ms.Dhaniya	Assistant Professor	Member	
5.	Dr.V.Nagajothi	Principal, Sree Chandraprabhu Jain College, Meenjur, Chennai Metro	External Member	

  
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Chairman

HEAD OF DEPARTMENT  
School of Commerce &  
Management Studies  
SPIHER, Chennai

**25.1** Considered the minutes of the 23<sup>rd</sup> meeting of Board of Studies in Department of Management Studies held on 23.08.2021

**RESOLVED** that the minutes of the 23 meeting of Board of Studies in Department of Management Studies held on 23.08.2021 be confirmed

**25.2** Reviewed the Regulation and Syllabi of Department of Management Studies MBA for Semester I and Semester II, under the Regulations 2020 with Choice Based Credit System (CBCS).

**RESOLVED** that the Regulation and Syllabi of Department of Management Studies MBA for Semester I and Semester II, under the Regulations 2020 with Choice Based Credit System (CBCS) be continued.

**25.3** Reviewed the Regulation and Syllabi of Department of Management Studies BBA for Semester I and Semester II, under the Regulations 2020 with Choice Based Credit System (CBCS).

**RESOLVED** that the Regulation and Syllabi of Department of Management Studies BBA for Semester I and Semester II, under the Regulations 2020 with Choice Based Credit System (CBCS) be continued.

**25.4** Considered the new Regulations and syllabi of Department of Management Studies for MBA from the batch of students to be admitted from 2022-23 for MBA under the Regulations 2020 with Choice Based Credit System (CBCS).

**RESOLVED** that the new regulations and syllabi of Department of Management Studies for MBA with course outcomes from the batch of students to be admitted from 2022-23 under the Regulations 2020 with Choice Based Credit System (CBCS) be approved.

**25.5** Considered the new Regulations and syllabi of Department of Management Studies for BBA from the batch of students to be admitted from 2022-23 for BBA under the Regulations 2020 with Choice Based Credit System (CBCS).

  
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St. Peter's Institute of Higher Education and Research  
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**RESOLVED** that the new regulations and syllabi of Department of Management Studies for BBA with course outcomes from the batch of students to be admitted from 202-23 under the Regulations 2020 with Choice Based Credit System (CBCS) be approved.

- 25.6** Reviewed the curricula developed having relevance to the local/national/regional/global developmental needs with learning objectives including programme outcomes, program specific outcomes and course outcomes of all the programmes.

**RESOLVED** that the syllabi of Department of Management Studies MBA programme under the Regulations 2020 and BBA programme under the Regulations 2020 developed having relevance to the local/national/regional/global developmental needs with learning objectives including programme outcomes, program specific outcomes and course outcomes of all the programmes be approved.

- 25.7** Considered to include courses having focus on employability/ entrepreneurship /skill development in the syllabi of MBA programme under under the Regulations 2020 & and BBA under the Regulations 2020.

**RESOLVED** that the courses having focus on employability/ entrepreneurship /skill development year wise in the syllabi of MBA under the Regulations 2020 and BBA under the Regulations 2020 to be approved.

- 25.8** Considered to include value added courses imparting transferable and life skills offered beyond the curriculum in the syllabi of MBA, Department of Management Studies and BBA Department of Management Studies.

**RESOLVED** that the value added courses imparting transferable and life skills offered beyond the curriculum such as course on "FinTech Management" and "Talent Management" be approved for the upcoming semester (2022-2023 Odd and Even semester).

**Date: 24.02.2022**



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Chairman

**HEAD OF DEPARTMENT**  
**School of Commerce &**  
**Management Studies**  
**SPIHER, Chennai**

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AVADI, CHENNAI – 600 054.

**MINUTES OF THE 12<sup>th</sup> MEETING OF THE BOARD OF STUDIES IN  
CHEMISTRY**

**Held on Held on 24<sup>th</sup> February, 2022  
Members Present**

- |   |                 |
|---|-----------------|
| (1) Dr. Sayeeda Sultana, Professor & Head   | Chairperson     |
| (2) Dr. S. Ramabadran, Professor  | Internal Member |
| (3) Dr. S. Dhandayuthapani, Associate Prof.,  | Internal Member |
| (4) Dr. M. Priya, Assistant Professor   | Internal Member |
| (5) Ms. P. Shyamalavathy, Assistant Professor   | Internal Member |
| (6) Dr. U.P. Senthil Kumar, Senior Vice President<br>R&D Centre, Orchid Chemicals and<br>Pharmaceuticals Ltd., 476/14, Old<br>Mahabalipuram Road, Chennai | External Member |
| (7) Dr. Helan P Kavitha, M.Sc.,PhD., Professor & Head,<br>Department of Chemistry, SRM Institute of Science<br>and Technology, Ramapuram,Chennai          | External Member |

12.1	Considered the minutes of the 11 <sup>th</sup> meeting of Board of Studies in Chemistry held on 08.09.2021. <b>RESOLVED</b> that the minutes of the 11 <sup>th</sup> meeting of Board of Studies in Chemistry held on 08.09.2021 be confirmed.
12.2	Reviewed the syllabi of Chemistry prescribed for Engineering and Technology programmes under the Regulations 2018. <b>RESOLVED</b> that the syllabi of Chemistry prescribed for Engineering and Technology programmes under the Regulations 2018 be continued
12.3	Reviewed the syllabi of Chemistry prescribed for Engineering and Technology programmes under the Regulations 2020. <b>RESOLVED</b> that the syllabi of Chemistry prescribed for Engineering and Technology programmes under the Regulations 2020 be continued
12.4	Reviewed the Regulation & Syllabi of V and VI Semester of B.Sc Chemistry programme under the Regulations 2020. <b>RESOLVED</b> that the Regulation & Syllabi of V and VI Semester of B.Sc Chemistry programme under the Regulations 2020 be continued.(Appendix I)
12.5	Reviewed the Regulation & Syllabi of M.Sc Chemistry programme under the Regulations 2019. <b>RESOLVED</b> that the Regulation & Syllabi of M.Sc Chemistry programme under the Regulations 2019 be continued.
12.6	Considered the proposal for new syllabi of I and II Semester of M.Sc. (Chemistry) under the new Regulations 2022. <b>RESOLVED</b> that the new syllabi of I and II Semester of M.Sc. (Chemistry) under the new Regulations 2022. be approved effective from the batch of student admitted in 2022-23. (Appendix II).

Date: 24.02.2022



*Handwritten signature*  
**Registrar**

St. Peter's Institute of Higher Education and Research  
(Deemed to be University U/S 3 of the UGC Act, 1956)  
Avadi, Chennai - 600 054

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**DR. SAYEEDA SULTANA**  
Chairperson  
PROFESSOR AND HEAD  
DEPARTMENT OF CHEMISTRY  
St. Peter's Institute of Higher Education and Research  
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Avadi, Chennai - 600 054

## Appendix I

**St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**B.Sc. (CHEMISTRY) PROGRAMME-Regulations 2020**  
**REGULATIONS AND SYLLABI UNDER CHOICE BASED CREDIT**  
**SYSTEM**  
**(Effective from the Academic Year 2020-2021)**

## V Semester

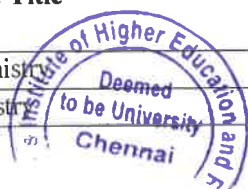
Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ACYT3605	Functional groups in Organic Chemistry	5	0	0	4	40	60	100
ACYT365_	Program Elective – I	5	0	0	4	40	60	100
ACYT365_	Program Elective – II	5	1	0	6	40	60	100
-----	Institute Elective –I	4	0	0	3	40	60	100
ACYL3605	Qualitative Analysis and preparation of Organic compounds Laboratory	0	0	4	2	40	60	100
ACYL365_	Program Elective – 1 Laboratory	0	0	4	2	40	60	100
ASSL3104	Soft Skills-IV	0	0	2	1	100	-	100
ACYI3603	Internship – III	0	0	0	1	100	-	100
Total		19	1	10	23	440	360	800

## VI Semester

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ACYT3606	Chemical Kinetics, Surface Chemistry And Photochemistry	5	0	0	4	40	60	100
ACYT365_	Program Elective –III	5	1	0	6	40	60	100
-----	Institute Elective –II	4	0	0	3	40	60	100
ACYL3606	Physical Chemistry Laboratory	0	0	4	2	40	60	100
ACYP3601	Project Work	0	0	6	6	40	60	100
ASSL3105	Soft Skills–V	0	0	2	1	100	-	100
AEAL3601	Extension Activity	0	0	0	1	100	-	100
Total		14	1	12	23	400	300	700

## Program Elective-II (V Semester)

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ACYT3654	Nuclear & Radiation Chemistry	5	1	0	6	40	60	100
ACYT3655	Advanced Material Chemistry	5	1	0	6	40	60	100



VI3656	Polymer Chemistry	5	1	0	6	40	60	100
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**Program Elective-III (VI Semester)**

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ACYT3657	Advanced Analytical Chemistry	5	1	0	6	40	60	100
ACYT3658	Heterocyclic Chemistry	5	1	0	6	40	60	100
ACYT3659	Medicinal Chemistry	5	1	0	6	40	60	100

**Overall percentage change: 33.33**



*Yank*  
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**Appendix II**

**St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**M.Sc. (CHEMISTRY) PROGRAMME**  
**REGULATIONS AND SYLLABI UNDER CHOICE BASED CREDIT SYSTEM**

(Effective from the Academic Year 2022-2023)

**M.Sc (CHEMISTRY) REGULATIONS (2022)**

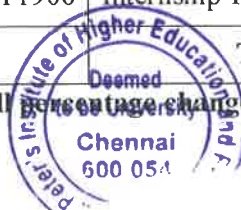
**Semester I**

Course Code	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ACYT1901	Organic Chemistry-I	6	1	0	4	40	60	100
ACYT1902	Inorganic Chemistry-I	6	1	0	4	40	60	100
ACAT19--	Institute Core – I	5	0	0	4	40	60	100
ACYT19--	Program Elective I	5	1	0	4	40	60	100
-----	Institute Core – I/Practical	0	0	3	2	40	60	100
ACYL1901	Organic chemistry Practical-I	0	0	3	2	40	60	100
	<b>Total</b>	<b>22</b>	<b>3</b>	<b>6</b>	<b>20</b>	<b>240</b>	<b>360</b>	<b>600</b>

**Semester II**

Course Code	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ACYT1903	Physical Chemistry-I	6	1	0	4	40	60	100
ACYT1904	Organic Chemistry-II	6	1	0	4	40	60	100
--	Institute Elective I	5	1	0	3	40	60	100
ACYT19--	Program Elective II	5	1	0	4	40	60	100
ACYL1902	Inorganic chemistry practical I	0	0	3	2	40	60	100
ACYL1903	Analytical Chemistry practical	0	0	3	2	40	60	100
ACYT1905	Mini Project	0	0	3	2	40	60	100
ASSL1---	Soft Skill –I	0	0	2	1	100	-	100
AMAT1906	Internship-I	0	0	0	1	100	-	100
	<b>Total</b>	<b>22</b>	<b>4</b>	<b>11</b>	<b>23</b>	<b>480</b>	<b>420</b>	<b>900</b>

Overall percentage change: 50



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Avadi, Chennai - 600 071

YOYEEDA SULTANA  
 PROFESSOR AND HEAD  
 DEPARTMENT OF CHEMISTRY  
 St. Peter's Institute of Higher Education and Research



# St. PETER'S UNIVERSITY




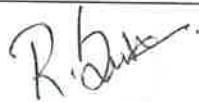
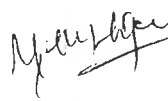
St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared under Section 3 of the UGC Act. 1956)  
AVADI, CHENNAI - 600 054.

## MINUTES OF THE 24<sup>th</sup> MEETING OF THE BOARD OF STUDIES IN COMPUTER SCIENCE & APPLICATIONS

Held on 24.02.2022

### Members Present

S.No	Name	Designation	Member	Signature
1.	Dr. R.Latha	Professor & Head	Chairperson	
2.	Dr. D. Kavitha	Assoc. Professor	Internal Member	
3.	Dr. S. Brindha	Assoc. Professor	Internal Member	
4.	Dr. M.C. Babu	Assoc. Professor	Internal Member	
5.	Dr. R. Subhashni	Assistant Professor	Internal Member	
6.	Dr. S. Sasikala	Professor	External Member	
7.	Mr. M.E. Thyagarajan	Co-Founder of Radiare software solutions, Ch.	External Member	



  
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Chairperson

24.1	<p>Considered the minutes of the 23<sup>rd</sup> meeting of Board of Studies in Computer Applications and Computer Science held on 06.09.2021.</p> <p><b>RESOLVED</b> that the minutes of the 23<sup>rd</sup> meeting of Board of Studies in Computer Applications held on 06.09.2021 to be confirmed</p>
24.2	<p>Considered the provision for the students of B.CA and B.Sc(CS) to have private study for the Non - Tamil and Non -English languages.</p> <p><b>RESOLVED</b> that the the provision for the students of B.CA and .B.Sc(CS), to have private study for the Non - Tamil and Non -English languages be approved.</p>
24.3	<p>Reviewed the Regulation &amp; Syllabi of B.C.A and B.Sc(CS) programme under the Regulations 2020 with Choice Based Credit System (CBCS).</p> <p><b>RESOLVED</b> that the Syllabi of B.C.A B.C.A and B.Sc(CS) programme under the Regulations 2020 with Choice Based Credit System (CBCS) to be continued.</p>
24.4	<p>Reviewed the Syllabi and course structure of M.Sc(CS) programmes under the Regulations 2020 with Choice Based Credit System (CBCS).</p> <p><b>RESOLVED</b> that the Syllabi and course structure of M.Sc(CS) programmes under the Regulations 2020 with Choice Based Credit System (CBCS) be continued taking into consideration of the suggestions and remarks given by the members to include following new courses. (Appendix - I)</p>
24.5	<p>Reviewed the curricula developed having relevance to the local/national/regional/global developmental needs with learning objectives including programme outcomes, program specific outcomes and course outcomes of all the programmes.</p> <p><b>RESOLVED</b> that the syllabi of B.C.A programme under the Regulations 2020,B.Sc(CS) progmmme Under the Regulations 2020 and M.Sc(CS) programme under the Regulations 2020 developed having relevance to the local/national/regional/global developmental needs with learning objectives including programme outcomes, program specific outcomes and course outcomes of all the programmes be approved.</p>
24.6	<p>Considered to include courses having focus on employability/ entrepreneurship /skill development in the syllabi of B.C.A under the Regulations 2020, B.Sc(CS) under the Regulations 2020, M.Sc(CS) under the Regulations 2020.</p> <p><b>RESOLVED</b> that the courses having focus on employability/ entrepreneurship /skill development year wise in the syllabi of B.C.A, B.Sc(CS),M.Sc(CS) under the Regulations 2020 to be approved.</p>



  
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24.7	<p>Considered to include value added courses imparting transferable and life skills offered beyond the curriculum in the syllabi of BC.A, B.Sc(CS), M.Sc(CS).</p> <p><b>RESOLVED</b> that the value added courses imparting transferable and life skills offered beyond the curriculum such as course on "Office Automation" be approved for the upcoming semester (2021-2022 Odd semester).</p>
24.8	<p>Reviewed and considered the curriculum feedback analysis and action taken report based on the suggestions given by the stake holders.</p> <p><b>Resolved</b> that the curriculum feedback analysis and action taken report based on the suggestions given by the stake holders to be approved. (Appendix - III)</p>

**Date:** 24.02.2022

  
**Chairperson**



  
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Website:www.spiher.ac.in

## NEW COURSES FOR THE ACADEMIC YEAR 2021-2022

### BACHELOR OF COMPUTER APPLICATION

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	CAU	Bachelor of Computer Science and Application	ABAT2654	COST AND MANAGEMENT ACCOUNTING
2	CAU	Bachelor of Computer Science and Application	AMAT2106	STATISTICS AND NUMERICAL METHODS
3	CAU	Bachelor of Computer Science and Application	ACAT2606	DATABASE MANAGEMENT SYSTEMS
4	CAU	Bachelor of Computer Science and Application	ACAT2607	COMPUTER GRAPHICS
5	CAU	Bachelor of Computer Science and Application	ACAL2604	DATABASE MANAGEMENT SYSTEMS LAB
6	CAU	Bachelor of Computer Science and Application	ACAI2602	INTERNSHIP - II
7	CAU	Bachelor of Computer Science and Application	516UIBT01	WEB TECHNOLOGY
8	CAU	Bachelor of Computer Science and Application	516UIBT02	INFORMATION SECURITY FUNDAMENTALS
9	CAU	Bachelor of Computer Science and Application	516UIBT03	PREDICTIVE ANALYTICS MODELLER
10	CAU	Bachelor of Computer Science and Application	516UIBT04	RESOURCE MANAGEMENT TECHNIQUES
11	CAU	Bachelor of Computer Science and Application	516UIBT05	VISUAL PROGRAMMING
12	CAU	Bachelor of Computer Science and Application	516UIBT06	RDBMS WITH ORACLE
13	CAU	Bachelor of Computer Science and Application	516UIBP01	WEB APPLICATIONS LAB
14	CAU	Bachelor of Computer Science and Application	619UIBT01	ETHICAL HACKING FUNDAMENTALS
15	CAU	Bachelor of Computer Science and Application	619UIBT02	ARTIFICIAL INTELLIGENCE
16	CAU	Bachelor of Computer Science and Application	619UIBT05	DISTRIBUTED COMPUTING
17	CAU	Bachelor of Computer Science and Application	619UIBT08	MOBILE APPLICATION DEVELOPMENT
18	CAU	Bachelor of Computer Science and Application	619UIBT09	INTERNET OF THINGS
19	CAU	Bachelor of Computer Science and Application	619UIBP01	PROJECT WORK
20	CAU	Bachelor of Computer Science and Application	619UEAT01	EXTENSION ACTIVITY



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21	CAU	Bachelor of Computer Science and Application	ACST3618	UNIVERSITY ELECTIVE-II: PHP WITH WORDPRESS
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**NEW COURSES FOR THE ACADEMIC YEAR 2021-2022**

**B.Sc. – COMPUTER SCIENCE**

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	CPU	B.Sc. - Computer Science	ACST2604	PROGRAMMING IN JAVA
2	CPU	B.Sc. - Computer Science	ACSL2604	PROGRAMMING IN JAVA LAB
3	CPU	B.Sc. - Computer Science	ACST2606	DATA ANALYTICS
4	CPU	B.Sc. - Computer Science	ACSL2606	DATA ANALYTICS LAB
5	CPU	B.Sc. - Computer Science	ACSI2602	INTERNSHIP –II
6	CPU	B.Sc. - Computer Science	ACST2603	DIGITAL ELECTRONICS –I
7	CPU	B.Sc. - Computer Science	ACSL2603	DIGITAL LAB
8	CPU	B.Sc. - Computer Science	ACST2809	DATA ANALYTICS



  
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## NEW COURSES FOR THE ACADEMIC YEAR 2021-2022

### M.Sc. – COMPUTER SCIENCE

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	CPP	M.Sc. - Computer Science	ACST2905	DIGITAL IMAGE PROCESSING
2	CPP	M.Sc. - Computer Science	ACST2906	DESIGN AND ANALYSIS OF ALGORITHMS
3	CPP	M.Sc. - Computer Science	ACST2907	PRINCIPLES OF COMPILER DESIGN
4	CPP	M.Sc. - Computer Science	ACST2958	CLOUD COMPUTING
5	CPP	M.Sc. - Computer Science	ACSL2905	IMAGE PROCESSING LAB
6	CPP	M.Sc. - Computer Science	ACSI2902	INTERNSHIP - II
7	CPP	M.Sc. - Computer Science	ACST2908	ADVANCED JAVA PROGRAMMING
8	CPP	M.Sc. - Computer Science	ACST2909	AI AND EXPERT SYSTEMS
9	CPP	M.Sc. - Computer Science	ACST2960	BIG DATA ANALYTICS
10	CPP	M.Sc. - Computer Science	ACSL2908	ADVANCED JAVA PROGRAMMING LAB
11	CPP	M.Sc. - Computer Science	ACSP2909	PROJECT PLUS VIVA VOCE
12	CPP	M.Sc. - Computer Science	ACST2957	MOBILE COMPUTING
13	CPP	M.Sc. - Computer Science	ACST2959	SOFT COMPUTING
14	CPP	M.Sc. - Computer Science	ACST2961	CRYPTOGRAPHY
15	CPP	M.Sc. - Computer Science	ACST2962	OBJECT ORIENTED ANALYSIS AND DESIGN



  
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St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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AVADI, CHENNAI – 600 054.

## BACHELOR OF COMPUTER APPLICATIONS 2020 REGULATIONS

### I Semester

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ATLT1601/ AHLT1601/ ATET1601/ AFLT1601	Language - I (Tamil/Hindi/Telugu/French)	4	0	0	4	40	60	100
AENT1638	English –I	4	0	0	4	40	60	100
AENT1642	Communication English	2	0	0	2	40	60	100
AMAT162-	Allied –I	5	1	0	6	40	60	100
ACAT1601	Programming in C	4	0	0	4	40	60	100
ACSL1601	Programming in C Lab	0	0	4	2	40	60	100
Total		19	1	4	22	240	360	600



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**II Semester**

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ATLT1602/ AHLT1602/ ATET1602/ AFLT1602	Language – II (Tamil/Hindi/Telugu/French)	4	0	0	4	40	60	100
AENT1639	English –II	4	0	0	4	40	60	100
AEVT1601	Environmental Science	2	0	0	2	40	60	100
AMAT16--	Allied –II	5	1	0	6	40	60	100
ACAT1602	C++ and Data Structures	4	0	0	4	40	60	100
ACAL1602	Data Structures using C++ Lab	0	0	4	2	40	60	100
ASSL1601	Soft Skills – I	0	0	2	1	100	-	100
ACAI1601	Internship-I	0	0	0	1	100	-	100
Total		19	1	6	24	440	360	800

**III Semester**

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ABAT26---	Allied –III	5	1	0	6	40	60	100
ACAT2603	Programming in Java	4	0	0	4	40	60	100
ACAT2604	Microprocessor and its Applications	4	1	0	5	40	60	100
ACAT2605	Operating Systems	4	1	0	5	40	60	100
ACAL2603	Programming in Java Lab	0	0	4	2	40	60	100
ASSL2602	Soft Skills – II	0	0	2	1	100	-	100
Total		17	3	6	23	300	300	600



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## IV Semester

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ABAT26	Allied –IV	5	1	0	6	40	60	100
-----	Institute Elective –I	3	0	0	3	40	60	100
ACAT2606	Database Management Systems	4	0	0	4	40	60	100
ACAT2607	Computer Graphics	5	1	0	6	40	60	100
ACAL2604	Database Management Systems Lab	0	0	4	2	40	60	100
ASSL2603	Soft Skills – III	0	0	2	1	100	-	100
ACAI2602	Internship –II	0	0	0	1	100	-	100
Total		17	2	6	23	400	300	700

## V Semester

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ACAT36--	Program Elective –1	4	1	0	5	40	60	100
ACAT36--	Program Elective –2	4	1	0	5	40	60	100
-----	Institute Elective –II	3	0	0	3	40	60	100
ACAT3608	Web Technology	4	0	0	4	40	60	100
ACAL3605	Web Technology Lab	0	0	4	2	40	60	100
ASSL3604	Soft Skills – IV	0	0	2	1	100	-	100
ACAI3603	Internship – III	0	0	0	1	100	-	100
Total		15	2	6	21	400	300	700



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## VI Semester

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ACAT36--	Program Elective – 3	4	1	0	5	40	60	100
-----	Institute Elective –III	3	0	0	3	40	60	100
ACAT3615	Android Development	4	0	0	4	40	60	100
ACAL3606	Android Development Lab	0	0	4	2	40	60	100
ACAP3601	Project Work	0	0	6	6	40	60	100
ASSL3605	Soft Skills – V	0	0	2	1	100	-	100
AEAL3601	Extension Activity	0	0	0	1	100	-	100
Total		11	1	12	22	400	300	700



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# St. PETER'S UNIVERSITY

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## BACHELOR OF COMPUTER SCIENCE 2020 REGULATIONS

### I Semester

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ATLT1601/ AHLT1601/ ATET1601/ AFLT1601	Language - I (Tamil/Hindi/Telugu/French)	5	0	0	4	40	60	100
AENT1638	English – I	5	0	0	4	40	60	100
AENT1642	English For Communication	3	0	0	2	40	60	100
---	Allied –I	5	1	0	6	40	60	100
ACST1601	Programming in C	5	0	0	4	40	60	100
ACSL1601	Programming in C Lab	0	0	4	2	40	60	100
Total		23	1	4	22	240	360	600

### II Semester

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ATLT1602/ AHLT1602/ ATET1602/ AFLT1602	Language – II (Tamil/Hindi/Telugu/French)	5	0	0	4	40	60	100
AENT201639	English – II	5	0	0	4	40	60	100
-----	Allied –II	5	1	0	6	40	60	100
AEVT1601	Environmental Science	2	0	0	2	40	60	100
ACST1602	C++ and Data Structures	5	0	0	4	40	60	100
ACSL1602	Data Structures using C++ Lab	0	0	4	2	40	60	100
ASSL1601	Soft Skills – I	0	0	2	1	100	-	100
ACSI1601	Internship-I	0	0	0	1	100	-	100
Total		22	1	6	24	440	360	800



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### III Semester

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ATLT2603/ AHLT2603/ ATET2603/ AFLT2603	Language - III (Tamil/Hindi/Telugu/French)	5	0	0	4	40	60	100
AENT2640	English – III	5	0	0	4	40	60	100
-----	Allied–III	5	0	0	4	40	60	100
ACST2604	Programming in Java	5	0	0	4	40	60	100
----	Allied Lab–III	0	0	4	2	40	60	100
ACSL2604	Programming in Java Lab	0	0	4	2	40	60	100
ASSL2602	Soft Skills – II	0	0	2	1	100	-	100
Total		20	0	10	21	340	360	700

### IV Semester

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ATLT2604/ AHLT2604/ ATET2604/ AFLT2604	Language – IV (Tamil/Hindi/Telugu/French)	5	0	0	4	40	60	100
AENT2641	English – IV	5	0	0	4	40	60	100
----	Allied –IV	5	0	0	4	40	60	100
ACST2606	Data Analytics	5	0	0	4	40	60	100
----	Allied Lab –IV	0	0	4	2	40	60	100
ACSL2606	Data Analytics Lab	0	0	4	2	40	60	100
ASSL2603	Soft Skills – III	0	0	2	1	100	-	100
ACSI2602	Internship –II	0	0	0	1	100	-	100
Total		20	0	10	22	440	360	800



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### V Semester

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ACST3607	Database Management Systems	5	0	0	4	40	60	100
ACST36--	Program Elective – 1	5	0	0	4	40	60	100
ACST36--	Program Elective –2	5	1	0	6	40	60	100
-----	Institute Elective –I	4	0	0	3	40	60	100
ACSL3607	Database Management Systems Lab	0	0	4	2	40	60	100
ACSL36--	Program Elective – 1 (Lab)	0	0	4	2	40	60	100
ASSL3604	Soft Skills – IV	0	0	2	1	100	-	100
ACSI3603	Internship – III	0	0	0	1	100	-	100
Total		19	1	10	23	440	360	800

### VI Semester

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ACST3614	PHP Programming	5	0	0	4	40	60	100
ACST36--	Program Elective – 3	6	1	0	6	40	60	100
-----	Institute Elective –II	4	0	0	3	40	60	100
ACSL3611	PHP Programming Lab	0	0	4	2	40	60	100
ACSP3601	Project Work	0	0	6	6	40	60	100
ASSL3605	Soft Skills – V	0	0	2	1	100	-	100
AEAL3601	Extension Activity	0	0	0	1	100	-	100
Total		15	1	12	23	400	300	700



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# St. PETER'S UNIVERSITY

## St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared under Section 3 of the UGC Act. 1956)

AVADI, CHENNAI – 600 054.

### MASTER OF COMPUTER SCIENCE 2020 REGULATIONS

#### Semester I

Course Code	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ACST1901	Programming in PHP	6	0	0	4	40	60	100
ACST1902	VB .NET	6	0	0	4	40	60	100
AMAT19__	Institute Core - I	5	1	0	4	40	60	100
ACST19__	Program Elective I	5	1	0	4	40	60	100
ACSL1901	PHP Lab	0	0	3	2	40	60	100
ACSL1902	VB .NET Lab	0	0	3	2	40	60	100
	<b>Total</b>	<b>22</b>	<b>2</b>	<b>6</b>	<b>20</b>	<b>240</b>	<b>360</b>	<b>600</b>



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### Semester II

Course Code	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ACST1903	Python Programming	6	0	0	4	40	60	100
ACST1904	Data Mining and Warehousing	6	0	0	6	40	60	100
---	Institute Elective I	4	0	0	3	40	60	100
ACST19__	Program Elective II	5	1	0	4	40	60	100
ACSL1903	Python Programming Lab	0	0	3	2	40	60	100
ACSP1904	Mini Project	0	0	3	2	40	60	100
ASSL1901	Soft Skill -I	0	0	2	1	100	-	100
ACSI1901	Internship -I	0	0	0	1	100	-	100
	<b>Total</b>	<b>21</b>	<b>1</b>	<b>8</b>	<b>23</b>	<b>440</b>	<b>360</b>	<b>800</b>

### Semester III

Course Code	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ACST2905	Digital Image Processing	6	0	0	4	40	60	100
ACST2906	Design and Analysis of Algorithms	6	0	0	6	40	60	100
ACST2907	Principles of Compiler Design	6	0	0	6	40	60	100
ACST29__	Program Elective III	5	1	0	4	40	60	100
ACSL2905	Image Processing Lab	0	0	4	2	40	60	100
ASSL2902	Soft Skill -II	0	0	2	1	100	-	100
ACSI2902	Internship – II	0	0	0	1	100	-	100
	<b>Total</b>	<b>23</b>	<b>1</b>	<b>6</b>	<b>24</b>	<b>400</b>	<b>300</b>	<b>700</b>



  
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**Semester IV**

Course Code	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ACST2908	Advanced Java Programming	6	0	0	4	40	60	100
ACST2909	AI and Expert Systems	6	0	0	6	40	60	100
ACST29__	Program Elective IV	5	1	0	4	40	60	100
ACSL2908	Advanced Java Programming Lab	0	0	3	2	40	60	100
ACSP2909	Project plus viva voce	0	0	7	6	40	60	100
ASSL2903	Soft Skill -III	0	0	2	1	100	-	100
	<b>Total</b>	<b>17</b>	<b>1</b>	<b>12</b>	<b>23</b>	<b>300</b>	<b>300</b>	<b>600</b>



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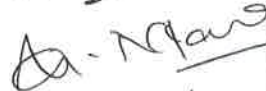






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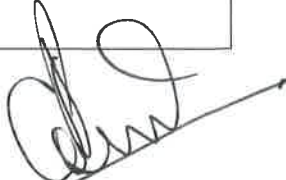
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**MINUTES OF THE 12<sup>th</sup> MEETING OF THE BOARD OF STUDIES IN  
DEPARTMENT OF COMMERCE**

Held on 26.02.2022

**Members Present**

S.No	Name	Designation	Member	Signature
1.	Dr.S. Panneer Selvam	Professor & Head	Chairman	
2.	Dr. A.Manorselvi	Associate Professor	Member	
3.	Dr. K. Ramesh	Associate Professor	Member	
4.	Dr. S. Smillee Bose	Associate Professor	Member	
5.	Ms.V. Saraswathi	Assistant Professor	Member	
6.	Ms. D.Mathivarthani	Assistant Professor	Member	
7.	Dr. P.C. Lakshmi Narayanan	Dean, LIBA, Chennai	Academic Expert Member	
8.	Dr. K. Sekar	Manager, HR, KMF Automotive India Private Ltd., Thiruvallur	Industry Expert Member	



**Chairman**

Dr.S.PANNEERSELVAM  
M.Com, MSA, M.Phil, Ph.D  
HOD / Commerce

St. Peter's Institute of Higher Education & Research  
St. Peter's University, Chennai-600 054.



  
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At the outset, Dr.S.PanneerSelvam, Professor & HOD of Commerce Department  
and Chairman of Commerce – BOS, Welcome the BOS members

- 12.1 Considered the minutes of the 11<sup>th</sup> meeting of Board of Studies in B.Com.(Commerce), B.Com (Corporate Secretary ship) B.Com (Accounting & Finance) and B.Com(Bank Management) under the Regulations 2020 with Choice Based Credit System (CBCS) held on 13.09.2021

**RESOLVED** that the minutes of the 11<sup>th</sup> meeting of Board of Studies in B.Com.(Commerce), B.Com (Corporate Secretary ship) B.Com (Accounting & Finance) and B.Com(Bank Management) under the Regulations 2020 with Choice Based Credit System (CBCS) held on 13.09.2021 to be confirmed

- 12.2 Reviewed the Syllabi of all semester and V & VI semester of B.Com.(Commerce), all semester and V & VI semester of B.Com (Corporate Secretary ship) V & VI semester of B.Com (Accounting & Finance) and B.Com(Bank Management) under the Regulations 2016 & 2020 with Choice Based Credit System (CBCS).

**RESOLVED** that the Syllabi of all semester and V & VI semester of B.Com.(Commerce), all semester and V & VI semester of B.Com (Corporate Secretary ship) V & VI semester of B.Com (Accounting & Finance) and B.Com(Bank Management) under the Regulations 2016 & 2020 with Choice Based Credit System (CBCS) from the batch of students to be admitted from 2020-21 to be approved.(Appendix – I)

- 12.3 Reviewed the syllabus of all semester of M.Com (Commerce) under the Regulations 2016 and I & II M.Com under 2022 Regulation with Choice Based Credit System (CBCS) to be admitted in 2022-23 batch.

**RESOLVED** that the syllabus of all semester of M.Com (Commerce) under the Regulations 2016 and I & II semester M.Com to be approved under 2022 Regulation with Choice Based Credit System (CBCS) admitted in 2022-23 batch students.

- 12.4 Considered on developing the skills in professional domains and branch specific areas to promote industry ready competency among learners/ Necessary certification courses / Internship training

**RESOLVED** that developing the skills in professional domains and branch specific areas to promote industry ready competency among learners/ Necessary certification courses / Internship training to be approved based on the suggestions given by the BOS members as follows: Value added course to be conducted on E-Accounting & Awareness of Cyber Hacking.

Date : 26-02-22



*[Signature]*  
Registrar

Chairman

*[Signature]*

**St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

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**B.COM (GENERAL)**

**SEMESTER V**

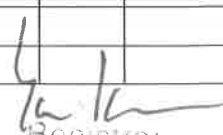
COURSE CODE	COURSE TITLE	L	T	P	C	CA	EA	TOTAL
ACMT3614	MANAGEMENT ACCOUNTING	4	2	0	5	40	60	100
ACMT3615	INCOME TAX LAW AND PRACTICE -I	6	0	0	5	40	60	100
ACMT3616	MERCHANT BANKING AND FINANCIAL SERVICES	6	0	0	5	40	60	100
ACMT36--	PROGRAMME ELECTIVE COURSE 1	6	0	0	5	40	60	100
ACMT36--	PROGRAMME ELECTIVE COURSE 2	6	0	0	5	40	60	100
ASSL3604	SOFT SKILL-IV	0	0	2	1	100	-	100
	<b>TOTAL</b>	<b>22</b>	<b>2</b>	<b>2</b>	<b>26</b>	<b>300</b>	<b>300</b>	<b>600</b>

**SEMESTER V**

**SEMESTER VI**

COURSE CODE	COURSE TITLE	L	T	P	C	CA	EA	TOTAL
ACMT3617	COST ACCOUNTING	4	2	0	5	40	60	100
ACMT3618	INCOME TAX LAW AND PRACTICE -II	6	0	0	5	40	60	100
ACMT36--	PROGRAMME ELECTIVE COURSE 3	6	0	0	5	40	60	100
ACMT36--	PROGRAMME ELECTIVE COURSE 4	6	0	0	5	40	60	100
ACMP3619	PROJECT WORK	0	0	6	3	40	60	100
ASSL3605	SOFT SKILL -V	0	0	2	1	100	-	100
AEAL 3601	EXTENSION ACTIVITY	0	0	2	1	100	-	100
	<b>TOTAL</b>	<b>22</b>	<b>2</b>	<b>8</b>	<b>25</b>	<b>400</b>	<b>300</b>	<b>700</b>



  
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Programme Electives (V & VI Semester)									
S.NO	COURSECODE	COURSE TITLE	L	T	P	Cred its	CA	EA	TOTAL
1	ACMT3651	Business Policy	6	0	0	5	40	60	100
2	ACMT3652	Human resource management	6	0	0	5	40	60	100
3	ACMT3653	Organizational Behaviour	6	0	0	5	40	60	100
4	ACMT3654	Financial Management	6	0	0	5	40	60	100
5	ACMT3655	Research methodology	6	0	0	5	40	60	100
6	ACMT3666	Investment management	6	0	0	5	40	60	100
7	ACMT3667	International financial management	6	0	0	5	40	60	100

### B.COM (CORPORATE SECRETARYSHIP)

#### SEMESTER V

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ABMT3611	Entrepreneurial Development	6	0	0	5	40	60	100
ABMT3612	Income Tax Law and Practice-I	6	0	0	5	40	60	100
ABMT3--/ ABMT3--	Program Elective – I	5	0	0	5	40	60	100
ABMT3--/ ABMP3--	Program Elective – II	5	0	0	5	40	60	100
ABMT3--/ ABMT3--	Program Elective – III	6	0	0	5	40	60	100
ASSL3604	Soft Skills – IV	1	0	0	1	-	100	100
ABMI3603	Internship – III	0	0	1	1	100	-	100
Total		29	0	1	27	260	540	600



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### SEMESTER VI

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ABMT3613	Digital Banking and Cyber security	6	0	0	5	40	60	100
ABMT3614	Income Tax Law and Practice-II	6	0	0	5	40	60	100
ABMT3 ---/ ABMT3----	Program Elective – IV	5	0	0	5	40	60	100
ABMT3 ---/ ABMP3----	Program Elective – V	5	0	0	5	40	60	100
ABMP3630	Project Work	0	0	6	3	40	60	100
ASSL3605	Soft Skills – V	1	0	0	1	-	100	100
AEAL3601	Extension Activity	0	0	1	1	100	-	100
Total		23	0	7	25	300	400	600

### PROGRAM ELECTIVES

#### Program Elective-I (V Semester)

Code No.	Course Title	L	T	P	Cre dit	Marks		
						CA	E A	Total
ABMT36 15	Investment Management	5	0	0	5	40	60	100
ABMT36 16	Customer Relationship Management	5	0	0	5	40	60	100
ABMT36 17	Mutual Funds and Merchant Banking	5	0	0	5	40	60	100



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**Program Elective-II (V Semester)**

Total Code No.	Course Title	L	T	P	Credit	Marks		
						CA	E A	
ABMT3618	International Banking	5	0	0	5	40	60	100
ABMT3619	Credit Risk and Management Banking	5	0	0	5	40	60	100
ABMT3620	Technology in Banking	5	0	0	5	40	60	100

**Program Elective-III (V Semester)**

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	E A	Total
ABMT3621	Management Accounting	6	0	0	5	40	60	100
ABMT3622	Portfolio Management	6	0	0	5	40	60	100
ABMT3623	Theory of Money and Banking	6	0	0	5	40	60	100



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**Program Elective-IV (VI Semester)**

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ABMT3624	Capital Market Operations	5	0	0	5	40	60	100
ABMT3625	Cost Accounting	5	0	0	5	40	60	100
ABMT3626	Practical Auditing	5	0	0	5	40	60	100

**Program Elective-V (VI Semester)**

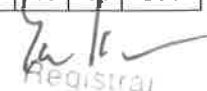
Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ABMT3627	Indirect Taxation	5	0	0	5	40	60	100
ABMT3628	Management of Foreign Trade	5	0	0	5	40	60	100
ABMT3629	Business Environment	5	0	0	5	40	60	100

**B.COM (BANK MANAGEMENT)**

**Semester V**

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ABMT3611	Entrepreneurial Development	6	0	0	5	40	60	100
ABMT3612	Income Tax Law and Practice-I	6	0	0	5	40	60	100
ABMT3--/ ABMT3--	Program Elective – I	5	0	0	5	40	60	100
ABMT3---/ ABMP3---	Program Elective – II	5	0	0	5	40	60	100
ABMT3---/ ABMT3---	Program Elective – III	6	0	0	5	40	60	100



  
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ASSL3604	Soft Skills – IV	1	0	0	1	-	100	100
ABMI3603	Internship – III	0	0	1	1	100	-	100
Total		29	0	1	27	260	540	600

### Semester VI


Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ABMT3613	Digital Banking and Cyber security	6	0	0	5	40	60	100
ABMT3614	Income Tax Law and Practice-II	6	0	0	5	40	60	100
ABMT3 —/ ABMT3—	Program Elective – IV	5	0	0	5	40	60	100
ABMT3 —/ ABMP3—	Program Elective – V	5	0	0	5	40	60	100
ABMP3630	Project Work	0	0	6	3	40	60	100
ASSL3605	Soft Skills – V	1	0	0	1	-	100	100
AEAL3601	Extension Activity	0	0	1	1	100	-	100
Total		23	0	7	25	300	400	600

### PROGRAM ELECTIVES

#### Program Elective-I (V Semester)

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ABMT3615	Investment Management	5	0	0	5	40	60	100
ABMT3616	Customer Relationship Management	5	0	0	5	40	60	100
ABMT3617	Mutual Funds and Merchant Banking	5	0	0	5	40	60	100



  
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**Program Elective-II (V Semester)**

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ABMT3618	International Banking	5	0	0	5	40	60	100
ABMT3619	Credit Risk and Management Banking	5	0	0	5	40	60	100
ABMT3620	Technology in Banking	5	0	0	5	40	60	100


**Program Elective-III (V Semester)**

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ABMT3621	Management Accounting	6	0	0	5	40	60	100
ABMT3622	Portfolio Management	6	0	0	5	40	60	100
ABMT3623	Theory of Money and Banking	6	0	0	5	40	60	100

**Program Elective-IV (VI Semester)**

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ABMT3624	Capital Market Operations	5	0	0	5	40	60	100
ABMT3625	Cost Accounting	5	0	0	5	40	60	100
ABMT3626	Practical Auditing	5	0	0	5	40	60	100



  
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**Program Elective-V (VI Semester)**

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
ABMT3627	Indirect Taxation	5	0	0	5	40	60	100
ABMT3628	Management of Foreign Trade	5	0	0	5	40	60	100
ABMT3629	Business Environment	5	0	0	5	40	60	100

**B.COM (ACCOUNTING AND FINANCE)**

**V SEMESTER**

COURSE CODE	COURSE TITLE	L	T	P	C	CA	EA	TOTAL
AAFT3617	Research Methodology	4	2	0	4	40	60	100
AAFT3618	Financial Services & Alternative Investments	6	0	0	4	40	60	100
AAFT36...	PROGRAMME ELECTIVE COURSE 1	6	0	0	4	40	60	100
AAFT36-----	PROGRAMME ELECTIVE COURSE 2	6	0	0	4	40	60	100
AAFT36...	PROGRAMME ELECTIVE COURSE 3	6	0	0	4	40	60	100
ASSL3604	SOFT SKILL-IV	0	0	2	1	100	-	100
AAFP3619	INTERNSHIP- III	0	0	1	1	100	-	100
	<b>TOTAL</b>	<b>28</b>	<b>2</b>	<b>3</b>	<b>22</b>	<b>400</b>	<b>300</b>	<b>700</b>



  
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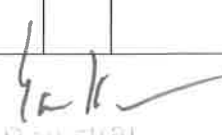
**SEMESTER VI**

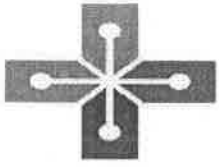
COURSE CODE	COURSE TITLE	L	T	P	C	CA	EA	TOTAL
AAFT3620	CORPORATE LAWS	4	2	0	4	40	60	100
AAFT3621	AUDITING AND CORPORATE GOVERNANCE	6	0	0	4	40	60	100
AAFT36...	PROGRAMME ELECTIVE COURSE 4	6	0	0	4	40	60	100
AAFT36...	PROGRAMME ELECTIVE COURSE 5	6	0	0	4	40	60	100
AAFP3622	PROJECT WORK	0	0	6	3	40	60	100
ASSL3605	SOFT SKILL -V	0	0	2	1	100	-	100
AEAL 3601	EXTENSION ACTIVITY	0	0	1	1	100	-	100
	<b>TOTAL</b>	<b>22</b>	<b>2</b>	<b>8</b>	<b>21</b>	<b>400</b>	<b>300</b>	<b>700</b>

**PROGRAM ELECTIVES**

Programme Elective – I (V & VI Semester )									
S.NO	COURSECODE	COURSE TITLE	L	T	P	Credits	CA	EA	TOTAL
1	AAFT3651	FINANCIAL SECURITIES AND DERIVATIVES	6	0	0	4	40	60	100
2	AAFT3652	TAXATION LAWS –I	6	0	0	4	40	60	100
3	AAFT3653	INTERNATIONAL FINANCE	6	0	0	4	40	60	100
4	AAFT3654	TAXATION LAWS II	6	0	0	4	40	60	100
5	AAFT3655	BUSINESS ANALYTICS	6	0	0	4	40	60	100
6	AAFT3656	FINANCIAL MODELLING	6	0	0	4	40	60	100
7	AAFT3657	ENTREPRENEURSHIP DEVELOPMENT	6	0	0	4	40	60	100



  
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AVADI, Chennai – 600054.TamilNadu.

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E-mail:registrar@spiher.ac.in  
Website:www.spiher.ac.in

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**NEW COURSES FOR THE ACADEMIC YEAR 2021-2022**

**BACHELOR OF COMMERCE**

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	CMU	Bachelor of Commerce	ACMT2608	FINANCIAL SYSTEM AND SERVICES
2	CMU	Bachelor of Commerce	ACMP2609	INTERNSHIP- II
3	CMU	Bachelor of Commerce	ACMT2610	CORPORATE ACCOUNTING II
4	CMU	Bachelor of Commerce	ACMT2611	BANKING LAW AND PRACTICE
5	CMU	Bachelor of Commerce	ACMT2612	PRINCIPLE AND PRACTICE OF AUDITING
6	CMU	Bachelor of Commerce	ACMP2613	INTENSHIP III
7	CMU	Bachelor of Commerce	ACST2640	MANAGEMENT INFORMATION SYSTEM
8	CMU	Bachelor of Commerce	AMAT1624	BUSINESS STATISTICS
9	CMU	Bachelor of Commerce	ACMT3101	INVESTMENT MANAGEMENT
10	CMU	Bachelor of Commerce	AAFT2606	PRINCIPLES OF MANAGEMENT
11	CMU	Bachelor of Commerce	AAFT2607	BUSINESS ENVIRONMENT
12	CMU	Bachelor of Commerce	AAFT2608	BUSINESS POLICY
13	CMU	Bachelor of Commerce	AAFT2609	INTERNATIONAL FINANCIAL REPORTING
14	CMU	Bachelor of Commerce	AAFT2610	STRATEGIC FINANCIAL MANAGEMENT -I
15	CMU	Bachelor of Commerce	AAFT2611	CORPORATE ACCOUNTING
16	CMU	Bachelor of Commerce	AAFT2612	MARKETING
17	CMU	Bachelor of Commerce	AAFT2613	ORGANISATIONAL BEHAVIOUR
18	CMU	Bachelor of Commerce	AAFT2614	PRACTICES OF BANKING AND INSURANCE
19	CMU	Bachelor of Commerce	AAFT2615	STRATEGIC FINANCIAL MANAGEMENT - II
20	CMU	Bachelor of Commerce	ABMT2605	CORPORATE ACCOUNTING



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21	CMU	Bachelor of Commerce	ABMT2606	LEGAL ASPECTS OF FINANCIAL SERVICES
22	CMU	Bachelor of Commerce	ABMT2607	BANKING THEORY LAW AND PRACTICE
23	CMU	Bachelor of Commerce	ABMT2608	ADVANCED CORPORATE ACCOUNTING
24	CMU	Bachelor of Commerce	ABMT2609	TREASURY MANAGEMENT
25	CMU	Bachelor of Commerce	ABMT2610	MARKETING OF BANKING SERVICES
26	CMU	Bachelor of Commerce	AEOT1646	OPEN ELECTIVES-II
27	CMU	Bachelor of Commerce	ABMI2602	INTERNSHIP -II
28	CMU	Bachelor of Commerce	ACPP2605	CORPORATE ACCOUNTING
29	CMU	Bachelor of Commerce	ACPT2606	BUSINESS AND CORPORATE LAW
30	CMU	Bachelor of Commerce	ACPT2607	E- COMMERCE
31	CMU	Bachelor of Commerce	ACPP2608	ADVANCED CORPORATE ACCOUNTING
32	CMU	Bachelor of Commerce	ACPT2609	CORPORATE FINANCE
33	CMU	Bachelor of Commerce	ACPT2610	MARKETING MANAGEMENT




  
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**MINUTES OF THE 10<sup>th</sup> MEETING OF THE BOARD OF STUDIES IN  
ECONOMICS**

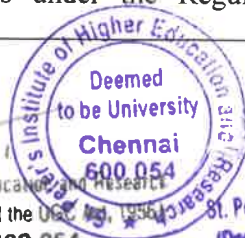
**Held on 02.03.2022  
Members Present**

- (1) Mrs. R. Anuradha, Asst. Professor & Head - Chairperson
- (2) Dr. M. Sudhakar, Assistant Professor - Internal Member
- (3) Mrs. R. Kanimozhi, Asst. Professor - Internal member
- (4) Dr. J. P Jaideep Associate Professor, - External Member  
Dept. of Economics, DG Vaishnav College Chennai.
- (5) Mr. Peter Sahayaraj, - External Member  
Director, Jayam Academic, Chennai

<b>10.1</b>	Considered the minutes of the 9 <sup>th</sup> meeting of Board of Studies in Economics held on 08.09.2021.  Resolved that the minutes of the 9 <sup>th</sup> meeting of Board of Studies in Economics held on 08.09.2021 be confirmed.
<b>10.2</b>	Reviewed the syllabi of B. A. Economics under regulations 2020.  Resolved the syllabi of B. A. Economics under regulations 2020 to be continued with modification of IV semester core paper Mathematical Analysis interchanged with Human Resource Development.
<b>10.3</b>	Reviewed the syllabi of M. A. Economics under regulations 2020.  <b>Resolved</b> the syllabi of M. A. Economics under regulations 2020 be continued.
<b>10.4</b>	To include self-study topic in Unit VI of all courses in B.A Economics and M.A Economics programmes
<b>10.5</b>	Reviewed the Syllabi of Economics prescribed for Commerce and Management Studies programmes under the Regulations 2020.  <b>RESOLVED</b> the syllabi of Economics prescribed for Commerce and Management Studies programmes under the Regulations 2020 be continued.



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<p>10.6</p>	<p>In another matter, it has been decided that in each course, the current trends- self-study report has to be included.</p>
<p>10.7</p>	<p>Considered to include value added courses imparting transferable and life skills offered beyond the curriculum in the syllabi of B.A. Economics.</p> <p><b>RESOLVED</b> that the value added courses imparting transferable and life skills offered beyond the curriculum such as course on “Impact of Industrial Revolution in Ecosystem Services” be approved for the upcoming semester (2022-2023).</p>

Date: 02.03.2022



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Chairperson

Department of Economics  
St. Peter's Institute of Higher Education and Research  
Avadi, Chennai - 600 054, Tamil Nadu  
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Website: www.stpetersinstitute.ac.in

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**MINUTES OF THE 12<sup>th</sup> MEETING OF THE BOARD OF STUDIES IN  
MATHEMATICS  
HELD ON 25.02.2022**

**Members Present**

S. No	Name of the Member	Designation	Member
1.	Dr. N. Srinivasan	Professor & Head, Department of Mathematics, SPIHER	Chairman
2.	Dr. M. Kavitha	Associate Professor, Department of Mathematics, SPIHER	Member
3.	Mrs. S. Cynthiya Margaret Indrani	Assistant Professor, Department of Mathematics, SPIHER	Member
4.	Mrs. D.L. Yamini Latha	Assistant Professor, Department of Mathematics, SPIHER	Member
5.	Mr. M.V. Suresh	Assistant Professor, Department of Mathematics, SPIHER	Member
6.	Dr.G. Balaji	Professor and HOD of Mathematics, Thangavelu Engineering College, Chennai.	Academic Expert Member
7.	Dr.P. Sumathi	Associate Professor and Head, Department of Mathematics, C. Kandasamy Naidu College for Men Chennai.	Academic Expert Member

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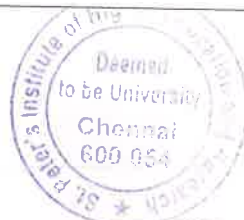
**MINUTES OF THE 12<sup>th</sup> MEETING OF THE BOARD OF STUDIES IN  
MATHEMATICS  
HELD ON 25.02.2022**

**Members Present**

S.No	Name of the Member	Designation	Member	Signature
1.	Dr. N. Srinivasan	Professor & Head, Department of Mathematics, SPIHER	Chairman	<i>N. Srinivasan</i> 25/2/22
2.	Dr. M. Kavitha	Associate Professor, Department of Mathematics, SPIHER	Member	<i>M. Kavitha</i>
3.	Mrs. S. Cynthiya Margaret Indrani	Assistant Professor, Department of Mathematics, SPIHER	Member	<i>S. Cynthiya</i> 25/2/22
4.	Mrs. D.L. Yamini Latha	Assistant Professor, Department of Mathematics, SPIHER	Member	<i>D.L. Yamini</i> 25/2/22
5.	Mr. M.V. Suresh	Assistant Professor, Department of Mathematics, SPIHER	Member	<i>M.V. Suresh</i> 25/2/2022
6.	Dr.G. Balaji	Professor and HOD of Mathematics, Thangavelu Engineering College, Chennai.	Academic Expert Member	<i>G. BALAJI</i> Professor & H.O.D. Department of Mathematics Thangavelu Engineering College CHENNAI - 600 055.
7.	Dr.P. Sumathi	Associate Professor and Head, Department of Mathematics, C. Kandasamy Naidu College for Men Chennai.	Academic Expert Member	<i>P. Sumathi</i> 25-2-22.  Dr. P. Sumathi, M.Sc., Ph.D., Recd. Guide (Madras University, Mangalam Sundaranar University, Bharathiar University) Associate Professor in Mathematics C. Kandaswami Naidu College for Men Anna Nagar, Chennai-102.

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12.1 Considered the minutes of the 11<sup>th</sup> meeting of Board of Studies in Mathematics held on 07/09/2021.

**RESOLVED** that the minutes of the 11<sup>th</sup> meeting of Board of Studies in Mathematics held on 07/09/2021 be confirmed.

12.2 Reviewed the Regulation and Syllabi of B.Sc. Mathematics programme and curricula developed having relevance to the local/national/regional/global developmental needs with learning objectives including program outcomes, program specific outcomes of all the programmes under the Regulations 2020 with Choice Based Credit System (CBCS).

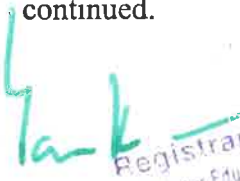
**RESOLVED** that the Syllabi of B.Sc. Mathematics programme under the Regulations 2020 with Choice Based Credit System (CBCS) to be continued having relevance to the local/national/regional/global developmental needs with learning objectives including program outcomes, program specific outcomes and course outcomes of all the programmes under the Regulations 2020 with Choice Based Credit System (CBCS) to be approved with minor addition in the syllabi of core papers.courses

- (i) AMAT1601-Algebra
- (ii) AMAT1602-Differential Calculus
- (iii) AMAT2604- Integral Calculus
- (iv) AMAT2605- Analytical Geometry

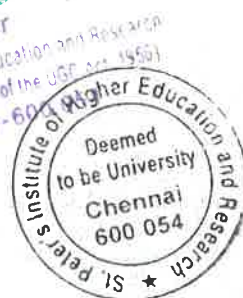
From the batch of 2022 – 2023 (**Annexure – I**)

12.3 Reviewed the syllabi of Mathematics paper for BCA, BBA, BA. (Economics), B.Com., B.Sc., (Physics, Chemistry, Computer Science, Cyber Security & Aeronautical) under Regulations 2020 with Choice Based Credit System (CBCS).

**RESOLVED** that the syllabi of Mathematics paper for BCA, BBA, BA(Economics), B.Com, B.Sc (Physics, Chemistry, Computer Science, Cyber Security & Aeronautical) under Regulations 2020 with Choice Based Credit System(CBCS) to be continued.

  
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12.4 Reviewed the syllabi of M. Sc (Mathematics) and curricula developed having relevance to the local/national/regional/global developmental needs with learning objectives including program out comes, program specific outcomes and course outcomes of all the programmes under the Regulations 2020 with Choice Based Credit System (CBCS).

**RESOLVED** that the Syllabi of M.Sc. Mathematics programme under the Regulations 2020 with Choice Based Credit System(CBCS) be continued having relevance to the local/national/regional/global developmental needs with learning objectives including program out comes, program specific outcomes and course outcomes of all the programmes under the Regulations 2020 with Choice Based Credit System (CBCS) be continued with the modifications of the contents of the core paper course AMAT2902–Topology from the batch of 2022-2023.

**(Annexure – II)**

12.5 Reviewed the syllabi of Mathematics for MBA (Statistics for Management and Applied Operations Research) and M.Sc(CS) (Resource Management Technique) under Regulations 2020 with Choice Based Credit System (CBCS).

**RESOLVED** that the syllabi of Mathematics for MBA (Statistics for Management and Applied Operations Research) and M.Sc(CS) (Resource Management Technique) under Regulations 2020 with Choice Based Credit System(CBCS) be continued.

12.6 Reviewed the syllabi of Mathematics prescribed for Engineering and Technology UG Programmes under Regulation 2020 with Choice Based Credit System (CBCS).

**RESOLVED** that the Syllabi of Mathematics prescribed for Engineering and Technology UG Programmes under Regulation 2020 with Choice Based Credit System (CBCS) be continued.

12.7 Reviewed the syllabi of Mathematics prescribed for Engineering and Technology PG Programmes (ME/M.Tech) under Regulation 2021 with Choice Based Credit System (CBCS).

**Resolved** that the syllabi of Mathematics prescribed for Engineering and Technology PG Programmes (ME/M.Tech) under Regulation 2021 with Choice Based Credit System (CBCS) be continued.

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areas to promote employment and competency among learners/necessary certification courses/Internship training.

**Resolved** that the skill development courses in professional domains and branch specific areas to promote employment and competency among learners/necessary certification courses/Internship training be continued. Value added courses to be conducted on

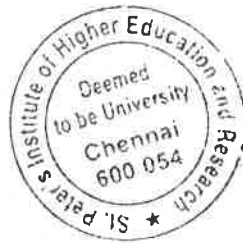
(i) Techniques in Testing of hypothesis.

with course duration of 33 hours for developing their skills. **(Annexure – III)**

**Date: 25.2.2022**

*N. Srinivasan*

**Chairman**



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## Annexure – I

AMAT1601	ALGEBRA	L	T	P	C	Total Marks
		6	1	0	6	100

**Prerequisites:** None

**COURSE OBJECTIVES:**

- To find the solution of the polynomial equations both in explicit term and in-terms of abstract algebraic structures
- To solve simultaneous equations with determinants
- To apply the concepts of matrix in solving a system of linear equations
- To be familiar with the characteristics roots and vectors
- To be exposed to basic concepts of theory of numbers.

**UNIT-1: Theory of Equations**

**18**

Introduction – Remainder Theorem-Relation between roots and coefficients – Sum of the powers of the roots of an equations-Newton’s Theorem on the sum of the powers of the roots-Symmetric functions of roots in terms of coefficients - Transformations of equations - Reciprocal equations - increase or decrease the roots of the given equation - Removal of term - Descarte’s rule of signs - Approximate solutions of roots of polynomials by Horner’s method - Cardan’s method of solution of a cubic polynomials.

**UNIT-2: Determinants**

**18**

General definition – rule of signs – expansion of determinants – multiplication of determinants – reciprocal of determinants – minors of reciprocal – symmetrical – skew symmetrical determinants – Cramer’s rule – consistency of equations.

**UNIT-3:Matrices**

**18**

Special type of matrices – scalar multiplication of matrices – Equality of Matrices - Rank of matrices – Solving simultaneous equations - Symmetric – Skew Symmetric - Hermitian - Skew Hermitian – multiplication of matrices – inverse of a matrices- **Eigen values - Eigen Vectors - Cayley - Hamilton Theorem - Similar matrices - Orthogonal Matrices – properties - Diagonalization of a matrix.**

**UNIT-4: Convergency and Divergency Series**

**18**

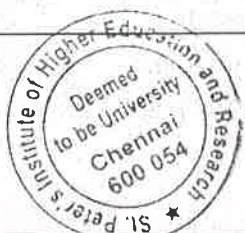
**Rational Numbers-Irrational numbers -Modulus of a real number – Limit of a sequence – Upper and Lower bounds – Bounded sequences – Monotonic sequence – Infinite series – Comparison test – Cauchy’s condensation test – D’Alembert’s Ratio test – Raabe’s test – Absolutely convergent series – Uniform convergence.**

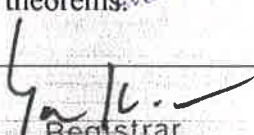
**UNIT-5: Theory of Number**

**18**

Prime number; Composite number; decomposition of a composite number as a product of primes uniquely; divisors of a positive integer n; Euler function - Congruence modulo n; highest power of a prime number p contained in n! ; Fermat’s and Wilson’s theorems.

**TOTAL HOURS :90**



  
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## COURSE OUTCOMES:

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

**CO 1:** Apply the knowledge of polynomial equations, irrational roots, Symmetric roots.

**CO 2:** Understand how matrices and determinants are used as mathematical tool in Quantitative Aptitude.

**CO 3:** Know how the Matrices, Eigen values and Eigen Vectors Reduce to Diagonalization.

**CO 4:** Effectively express the concepts and results of numbers

## TEXT / REFERENCE BOOKS:

1. Algebra Volume I by T. K. Manicavachagam Pillay, T. Natarajan, K.S. Ganapathy, Viswanathan Publication, 2007.
2. Algebra Volume II by T. K. Manicavachagam Pillay, T. Natarajan, K.S. Ganapathy, Viswanathan Publication 2008.
3. Algebra: by S. Arumugam (New Gama publishing house, Palayamkottai).
4. Matrices by A.R. Vasishtha, A.K. Vasishtha, Krishna prakashan Media private limited, 2015
5. Higher Algebra by, S. Barnard and J.M. Child, Arihant publications, 2016.

## Mapping with Programme Outcomes

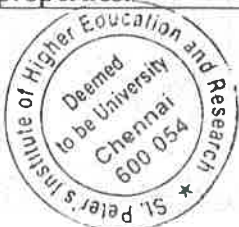
CO's\PO's\PSO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	2	2	-	-	2	2	2	-	1	2	2
CO2	2	2	2	-	2	2	1	1	-	2	2
CO3	2	2	-	-	2	1	1	2	-	2	2
CO4	-	2	2	-	1	-	2	-	-	1	1

Strong – 3; Medium – 2; Low – 1.

## Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Apply the knowledge of polynomial equations, irrational roots, Symmetric roots.	K1, K2, K3, K5
CO2	Develop the skills in roots of the equations and summation of series.	K1, K2, K3, K4, K5
CO3	Define and work with concepts of various types of matrices.	K1, K2, K3, K4, K5
CO4	Apply the knowledge of real numbers, their operations and basic properties.	K1, K2, K3



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AMAT1602	DIFFERENTIAL CALCULUS	L	T	P	C	Total Marks
		6	1	0	6	100

**Prerequisites:** None

**COURSE OBJECTIVES:**

- To understand the concepts of derivatives and its applications
- To gain the knowledge of Partial differential equations for several variables
- To learn about application of differentiation
- To extend the application of polar coordinates
- To Find the solution of rectilinear asymptotes.

**UNIT-1: Differentiation**

**18**

Limits - differentiation - Successive differentiation -  $n^{\text{th}}$  derivative- standard results in trigonometric - transformation – formation of equations using derivatives - Leibnitz’s theorem and its applications.

**UNIT-2: Functions of Several Variables**

**18**

Partial derivatives of a function of two functions – Euler’s theorems – problems - Total differential of a function – implicit functions - - Maxima and Minima of functions of two variables- Lagrange’s method of undetermined multipliers – **Errors and approximations – Taylors expansion of  $f(x,y)$ .**

**UNIT-3: Application of Differentiation**

**18**

Curvature - circle of curvature - radius and centre of curvature – Cartesian and polar co-ordinates for radius of curvature – Chord of curvature - evolute and involute - Envelopes – method of finding envelopes -p-r equation.

**UNIT-4: Applications of Polar Coordinates**

**18**

Angle between the radius vector and the tangent – slope of the tangent in the polar coordinates – the angle of intersection of two curves in polar coordinates- polar sub tangent and polar sub normal – the length of arc in polar coordinates.

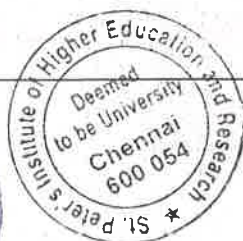
**UNIT-5:Asymptotes**

**18**

Definition-Rule - Rectilinear asymptotes – another method for finding asymptotes – asymptotes by inspection – intersection of a curve with an asymptote.

**Hours:90**

**Total**



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CO 1: Work with the function represented in various ways and also understand the meaning of derivatives.

CO 2: Exposed the concepts of Partial derivatives and its applications in examining the extremely value of the function.

CO 3: Analyze about Curvature, evolutes and Involutives in terms of derivatives.

CO 4: Calculate the length of an arc of a curve when whose equations are given in parametric and polar form.

CO 5: Conceive the concept of asymptotes and obtain their equations and learn about envelopes.

### TEXT / REFERENCE BOOKS

1. Calculus Vol- 1 by S. Narayanan and T.K. Manicavachagompillay - S. Viswanathan publishers – 2006.
2. A textbook of differential calculus, Ashanakhtar and Sabiha Ahsan, Second edition 2009.
3. Calculus of Finite Differences and Numerical Analysis by Gupta and Malik, Krishna Prakashan Media private Limited, 2014.
4. A textbook of calculus, Shanthinarayanan and J.N.Kapoor, S.Chand and co 2014.

### Mapping with Programme Outcomes

CO's\PO's\PSO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	2	2	1	-	2	2	2	-	-	2	1
CO2	2	2	2	-	2	2	1	1	-	2	2
CO3	2	2	1	-	2	1	1	2	-	2	2
CO4	2	1	1	-	2	2	2	-	-	2	2
CO5	2	2	2	1	2	2	2	-	1	2	2

Strong – 3; Medium – 2; Low – 1.



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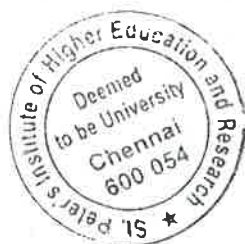


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## Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Understand the rules of differentiation and computing the derivatives of given functions.	K2,K4, K5
CO2	Uses of Partial derivatives and its applications in examining the extremely values of the function.	K1,K2,K3,K4
CO3	Analyses about Curvature, evolutes and Involutives in terms of derivatives.	K1,K5
CO4	Calculate the length of an arc of a curve when whose equations are given in parametric and polar form	K3,K5
CO5	Conceive the concept of asymptotes and obtain their equations and learn about envelopes	K2, K5



*Lakshmi*  
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AMAT2604	INTEGRAL CALCULUS	L	T	P	C	Total Marks
		6	1	0	6	100

Prerequisites: None

**COURSE OBJECTIVES**

- To Apply the concepts of different types of Integration
- To extend the application of integration
- To find the solution of indefinite integrals
- To set up and evaluate the line integrals of scalar functions along curves.

**Unit-1: Integration** 18

Basic results – Integration of rational algebraic functions – Special cases – Integration of irrational functions - Integration by Parts - Bernoulli’s formula - Reduction formulae - definite integral and its properties - problems - geometrical applications.

**Unit-2: Application of Integration** 18

Multiple Integrals - double integrals - triple integrals - applications of multiple integrals - area and volumes of solids of revolution - areas of curved surfaces - change of variables - Jacobians - properties and problems.

**Unit-3: Beta and Gamma functions** 18

Indefinite integral - Beta and Gamma functions - properties - applications to gamma functions to multiple integrals - elliptic integrals and its applications - error functions - series solution of differential equations.

**Unit-4: Vector Calculus** 18

Introduction - Gradient - divergence - curl - directional derivative - unit normal to a surface - Solenoidal and irrotational - Laplacian Differential Operators.

**Unit-5: Application of Vector Calculus** 18

Line - surface and volume integrals - Theorems of Gauss - Stokes and Greens. (Without proof) - Problems.

**TOTAL**

Back

**HOURS : 90**

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**COURSE OUTCOMES**

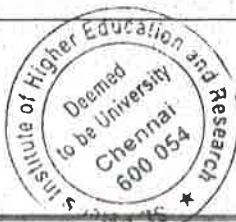
At the end of this course, students will be able to:

**CO 1:** Update the knowledge of different kinds of integration

**CO 2:** Evaluate iterated integrals and switch the order of integration

Back

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**TEXT / REFERENCE BOOKS**

1. Calculus Vol- II by S. Narayanan and T.K. Manicavachagampillai - S. Viswanathan publishers – 2007.
2. Vector Analysis by P.Duraipandian and kayalalpachayappa,S.Chand publication 2017
3. B.S. Grewal, Higher Engineering Mathematics, Khanna Publishers, 44th Edition, 2017
4. Integral Calculus and differential Equations: Dipak Chatterjee (TATA McGraw Hill Publishing Company Ltd.)
5. Vector Algebra and Analysis by Narayanan and T.K.Manickvachagam Pillai S .Viswanathan Publishers.
6. Calculus volume – II by Arumugam and ISSAC,New gamma Publishing House, 2008.

**Mapping with Programme Outcomes**

CO's\PO's\PSO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	2	2	2	-	2	2	2	-	2	2	2
CO2	2	2	2	-	2	2	2	-	2	2	2
CO3	2	2	2	-	2	2	2	-	-	2	2
CO4	2	2	2	-	2	2	2	-	-	2	2

3- Strong, 2- Medium, 1- Low.

**Course Outcomes**

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Update the knowledge of different kinds of integration.	K1, K2 ,K3, K4, K5
CO2	Develop their skills in evaluating Multiple Integrals	K1,K2,K3,K4,K5
CO3	Learn about Beta gamma functions and their relations..	K1,K2,K3,K4,K5
CO4	Understand the basic concepts of vector calculus	K1,K2,K3, K5

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AMAT2605	ANALYTICAL GEOMETRY	L	T	P	C	Total Marks
		6	1	0	6	100

Prerequisites: None

### COURSE OBJECTIVES

- To apply the concepts of pairs of straight line.
- To define and explain the concept of circle and also to teach students how to solve simple problems involving radius and diameter.
- apply the concept of plane, straight line and Sphere in three dimensional .

### UNIT-1: Pairs of Straight Line

18

Introduction – homogeneous equation of  $n^{\text{th}}$  degree – general equation of second degree pair of straight lines – angle between the lines – equation of the bisectors of angles between the lines – lines joining the origin to the intersection of the curve and straight line.

### UNIT-2: Circle

18

Definition – the equation of the circle when centre and radius are given – the condition for the general equation of the second degree to represent the circle – the equation of the circle described on the line joining the points as diameter – length of the tangent from the point to the circle – the equation of the tangent at point on the circle – intersection of the line and circle – condition should the line touch the circle – two tangents can be drawn from a given point to a circle.

### UNIT-3: The Plane

18

Introduction – general equation of first degree – equation of the plane making intercepts on the axes – equation of the plane passing through the points – direction cosines of the line which is perpendicular to a plane - angle between two planes – ratio in which the plane divides the line joining the points – equation of planes through the line of intersection of two given planes – length of perpendicular.

### UNIT-4: The Straight Line

18

Representation of line – Equation of the line through a given point drawn in a given direction - equation of a straight line passing through two given points – Two forms of the equation of a line – Transformation from the unsymmetrical to the symmetrical form- Angle between a line and a plane – Conditions for a line to lie in a plane - co-planar Lines- Condition for the coplanarity of lines - shortest distance between two given lines - The length of the perpendicular from a point to a line, intersection of three planes.

### UNIT-5: The Sphere

18

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– Intersection of a sphere and a line - Equation of a tangent plane – Angle of intersection of two spheres – Radial plane.

**TOTAL HOURS: 90**

**COURSE OUTCOMES**

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

**CO 1:** Compute the angle between two straight lines and determined intersection of curve and straight line

**CO 2:** Describe that a circle is the set of all points equidistance from another point

**CO 3:** Know the techniques of Plane, Straight line and Sphere in three dimensional

**TEXT/REFERENCE BOOKS**

1. Analytical Geometry of Two Dimensions by T. K. Manikavachakam Pillai and T. Natarajan, Vishwanathan publishers-1999.
2. Analytical Geometry of two Dimensional by P.Durai Pandian- Muhil publishers.
3. Analytical Geometry of Three Dimension by T. K. Manikavachakam Pillai and T.Natarajan, Divya Subramanian for Anand Book Depot publications-2017.
4. Analytical Geometry of three Dimensions by R.K.Jain, Khalil Ahmed wiley Eastern limited ,1994.
5. Analytical Solid Geometry of three Dimensional by Shanthi Narayan and Dr.P.K. Mittal.

**Mapping with Programme Outcomes**

CO's\PO's\PSO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	2	2	2	-	2	2	2	-	2	2	2
CO2	2	2	2	-	2	2	2	-	2	2	2
CO3	2	2	2	-	2	2	2	-	2	2	2

**3- Strong; 2-Medium; 1-Low**

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## Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO STATEMENTS	Knowledge Level
CO1	Understand the basics concepts of chord of contact conjugate diameters of sphere, Hyperbola.	K1,K2,K3
CO2	Learn about analytical geometry two dimension in polar coordinates.	K1,K2,K3,K5
CO3	Learn about planes and orthogonal Projection.	K2,K3

## Annexure – II

AMAT2902	TOPOLOGY	L	T	P	C	Total Marks
		6	1	0	6	100

**Prerequisites :** None

### COURSE OBJECTIVES:

- To study topological spaces, continuous functions, connectedness, compactness, countability and separation axioms.

**UNIT-I:** 18

Topological spaces- the definition and examples - Bases for a topology - Open sets and closed sets - Interior closure of a set - Exterior and Boundary - Relative or subspace topology - sub bases Hausdorff spaces

**UNIT-II:** 18

Continuous function – open set and closed maps – Pasting lemma - Uniform metric and convergence theorem - Quotient space – Metric topology – examples for non metrizable spaces.

**UNIT-III:** 18

Connectedness – Connected spaces – Connected sets on the real line – Path connectedness

**UNIT-IV:** 18

Compactness – Compact space – Compact sets on the line  $\int$  limit point compactness – local



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$T_0$ ,  $T_1$  and  $T_2$  spaces - Hausdorff spaces- Regular and completely regular spaces- normal and completely normal spaces - Urysohn's lemma - Tietze extension theorem- Urysohn metrization theorem.

TOTAL HOURS :

**COURSE OUTCOMES:**

On the successful completion of the course, students will be able to

**CO 1:** Learn the basic concept of metric Spaces and Topological Spaces.

**CO 2:** Get the knowledge of Compact spaces and its uses.

**CO 3:** Prove basic results about completeness, compactness. Connectedness and convergence within these structures.

**CO 4:** Understanding of Urysohn's lemma and the Tietze extension theorem

**CO 5:** There is also application for medical imaging software and technology.

**REFERENCE BOOKS:**

1. George F. Simmons, Introduction to Topology and Modern Analysis, Tata-McGraw Hill. New Delhi, 2004.
2. J.R. Munkres, Topology (2<sup>nd</sup> Edition) Pearson Education Pvt. Ltd., Delhi-2002 (Third Indian)
3. J.L. Kelly, General Topology, Springer.


**Mapping with Programme Outcomes**

CO's\PO's\PSO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2
CO1	1	2	1	2	2	2	-	2	1	2
CO2	1	2	2	2	-	2	2	-	-	2
CO3	2	2	-	2	1	2	-	2	1	2
CO4	2	2	2	2	1	2	-	-	2	2
CO5	1	2	2	2	1	-	-	1	1	2

Strong – 3; Medium – 2; Low – 1.

  
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### Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Learn the basic concept of metric Spaces and Topological Spaces.	K1, K2, K3, K5
CO2	Get the knowledge of Compact spaces and its uses.	K1, K2, K3, K4, K5
CO3	Apply the concepts of Tychonoff's theorem and Ascoli's theorem	K1, K2, K3, K5
CO4	An understanding of Urysohn's lemma and the Tietze extension theorem	K1, K2, K3
CO5	Have the knowledge of the Weierstrass approximation Theorem and its uses.	K1, K2, K3




  
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(Annexure – III)

 <b>St. PETER'S</b> INSTITUTE OF HIGHER EDUCATION AND RESEARCH IGNITE - INSPIRE - INNOVATE	<b>DEPARTMENT RECORDS</b>	<b>DOC.NO.: SPIHER/MAT/ VACMM039</b>
	<b>DEPARTMENT OF MATHEMATICS</b>	<b>DATE : 08.03.2022</b>
		<b>PAGE :1 OF1</b>
		<b>ACADEMICYEAR: 2021-2022</b>
<b>SYLLABUS</b>		

Total Hours:33 Hours

**VACMM039 – TECHNIQUE OF TESTING OF HYPOTHESIS**

**Courseobjectives:**

- ❖ To define steps of testing of hypothesis
- ❖ To differentiate between large and small sample test.
- ❖ To find expected frequency and test the goodness of fit.
- ❖ Differentiate between parametric and non parametric test.

**MODULEI:Introduction**

6

Exponential and Normal distributions - One and Two tail test, Binomial, Poisson distributions. Two types of error -Level of Significance and Power of a test -Fundamentals Concepts of Statistical hypothesis

**MODULEII:Large Sample Test**

7

Single Mean and Difference of Mean - Single Proportion and Difference of Proportions Fisher's Z – transformation - Correlation and Testing - Population Correlation

**MODULEIII:Small Sample tests**

6

Chi – Square - T testing and F testing - Difference of mean - Correlation coefficients Population Variances

**MODULEIV:Comparison of Parametric & Non- Parametric test**

6

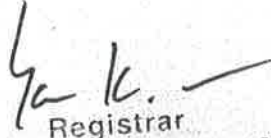
Sign test and Wilcoxon Signed rank test Paired samples -Test for independent samples Whitney U – test - Wald – Wolfowitz runs test.

**MODULEV:Analysis test**

8

Critical region, P – value , One – way Analysis test , Two – way Analysis test . Confidence intervals Kruskal – Walis test , Duncan's test , P-value Decision Making , Problems Solveing , Example of testing



  
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Course Outcome	
CO1	Knowledge about formulating and testing a hypothesis, using critical values to draw conclusions and determining Probability of making errors in hypothesis test.
CO2	Understand and analyze various methods of Non – Parametric test.

Course	CO	PO											
		1	2	3	4	5	6	7	8	9	10	11	12
VACMAT004 TECHNIQUE OF TESTING	CO1	-	-	√	-	√	-	-	√	-	-	-	√
	CO2	-	-	√	-	√	-	-	√	-	-	-	√



*L.K.*  
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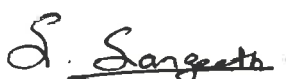





# St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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## MINUTES OF THE 11<sup>th</sup> MEETING OF THE BOARD OF STUDIES IN MICROBIOLOGY

Held on 17.02.2022

### Members Present

S. No	Name	Designation	Member	Signature
1	Dr. S. Sangeetha	Assistant Professor & Head	Chairman	
2	Dr. N. Radhakrishnan	Professor	Internal Member	
3	Dr.S. Ganesh Kumar	Associate professor	Internal Member	
3	Ms. T. R. Jabila Mary	Assistant Professor	Internal Member	
4	Dr. A. Suresh Kumar	Scientist, Microbiology & Biotech Division, CSIR - CLRI, Chennai	External Member	
5	Dr. Balu Ranganathan	Director, M/S Palmsconnect Solution Pvt. Ltd, Chennai	External Member	



**Chairman**

Professor and Head  
Department of Microbiology

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**Registrar**

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**11.1** Considered the minutes of the 10<sup>th</sup> meeting of Board of Studies in Microbiology held on 20.10.2021.

**RESOLVED** that the minutes of the 10<sup>th</sup> meeting of Board of Studies in Microbiology held on 20.10.2021 be confirmed

**11.2** Reviewed the Regulation and Syllabi of B.Sc. (Microbiology) under the Regulations 2020 with Choice Based Credit System (CBCS).

**RESOLVED** that the Syllabi of V to VI semester of B.Sc. (Microbiology) under the Regulations 2020 with Choice Based Credit System (CBCS) from the batch of students to be admitted from 2021-22 to be approved (Appendix – I)

**11.3** Reviewed the Regulation and Syllabi of M.Sc. (Microbiology) under the Regulations 2020 with Choice Based Credit System (CBCS).

**RESOLVED** that the Syllabi of I to IV semester of M.Sc. (Microbiology) under the Regulations 2020 with Choice Based Credit System (CBCS) from the batch of students to be admitted from 2021-22 to be continued

**11.4** Reviewed and considered the curriculum feedback analysis and action taken report based on the suggestions given by the stake holders.

**Resolved** that the curriculum feedback analysis and action taken report based on the suggestions given by the stake holders to be approved. (Appendix – II)

**Date: 17.02.2022**

*S. Sangeetha*

**Chairman**

*[Signature]*

**Professor and Head**

**Department of Microbiology**

St. Peter's Institute of Higher Education & Research

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**Registrar**



**St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

**B. Sc Microbiology**

**APPENDIX- I**

**V SEMESTER**

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
AMYT3606	Medical bacteriology	5	0	0	4	40	60	100
AMYT3609	Program Elective – I	5	0	0	6	40	60	100
AMYT3608	Program Elective –II	5	0	0	4	40	60	100
-	Institute Elective –I	4	0	0	2	40	60	100
AMYL3606	Medical bacteriology, Mycology, Parasitology and Virology Lab	0	0	4	3	40	60	100
AMYL3609	Program Elective – I (Lab)	0	0	4	2	40	60	100
ASSL3604	Soft Skills – IV	2	0	0	1	-	100	100
ASSI3603	Internship – III	0	0	2	1	-	100	100
Total		19	3	10	23	240	560	800

**VI SEMESTER**

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
AMYT3610	Environmental Microbiology	5	0	0	4	40	60	100
AMYT3611	Program Elective – III*	5	0	0	6	40	60	100
AMYT36--	Institute Elective –II <sup>#</sup>	4	0	0	3	40	60	100
AMYL3607	Environmental, food and dairy microbiology Lab	0	0	4	2	40	60	100
AMYP3601	Project Work	0	0	8	6	40	60	100
ASSL3605	Soft Skills – V	2	0	0	1	-	100	100
AEAL3601	Extension Activity	0	0	2	1	-	100	100
Total		14	1	15	23	200	500	700

  
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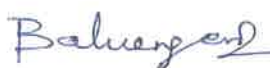
AVADI, CHENNAI – 600 054.

MINUTES OF THE 11<sup>th</sup> MEETING OF THE BOARD OF STUDIES IN

## MICROBIOLOGY

Held on 17.02.2022

### Members Present

S. No	Name	Designation	Member	Signature
1	Dr. S. Sangeetha	Assistant Professor & Head	Chairman	
2	Dr. N. Radhakrishnan	Professor	Internal Member	
3	Dr.S. Ganesh Kumar	Associate professor	Internal Member	
3	Ms. T. R. Jabila Mary	Assistant Professor	Internal Member	
4	Dr. A. Suresh Kumar	Scientist, Microbiology & Biotech Division, CSIR – CLRI, Chennai	External Member	
5	Dr. Balu Ranganathan	Director, M/S Palmsconnect Solution Pvt. Ltd, Chennai	External Member	



**Chairman**

Professor and Head  
Department of Microbiology  
St. Peter's Institute of Higher Education & Research  
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Avadi, Chennai-600

**11.1** Considered the minutes of the 10<sup>th</sup> meeting of Board of Studies in Microbiology held on 20.10.2021.

**RESOLVED** that the minutes of the 10<sup>th</sup> meeting of Board of Studies in Microbiology held on 20.10.2021 be confirmed

**11.2** Reviewed the Regulation and Syllabi of B.Sc. (Microbiology) under the Regulations 2020 with Choice Based Credit System (CBCS).

**RESOLVED** that the Syllabi of V to VI semester of B.Sc. (Microbiology) under the Regulations 2020 with Choice Based Credit System (CBCS) from the batch of students to be admitted from 2021-22 to be approved (Appendix – I)

**11.3** Reviewed the Regulation and Syllabi of M.Sc. (Microbiology) under the Regulations 2020 with Choice Based Credit System (CBCS).

**RESOLVED** that the Syllabi of I to IV semester of M.Sc. (Microbiology) under the Regulations 2020 with Choice Based Credit System (CBCS) from the batch of students to be admitted from 2021-22 to be continued

**11.4** Reviewed and considered the curriculum feedback analysis and action taken report based on the suggestions given by the stake holders.

**Resolved** that the curriculum feedback analysis and action taken report based on the suggestions given by the stake holders to be approved. (Appendix – II)

**Date: 17.02.2022**

*S. Sangeetha*

**Chairman**

  
**Professor and Head**  
**Department of Microbiology**  
St. Peter's Institute of Higher Education & Research  
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**APPENDIX V**  
**ACTION TAKEN REPORT ON STAKEHOLDERS FEEDBACK ON CURRICULAM**  
**DEPARTMENT OF MICROBIOLOGY**  
**Academic Year 2021-2022**

Stakeholder	Feedback	Recommendation	Action taken
Students feedback	Regular offline classes and hands on training session	Seminars, hands on session and demo classes to be conducted periodically.	Students were asked to do their projects in recent trends and product development based proposals
Teachers feedback	Periodic tests must be followed to assess their performance	More assessment practices needs to be conducted.	Continuous assessment tests & Model Exams were conducted to enhance the follow-up of concepts taught.
Alumni feedback	Upgrading on use ICT methods were welcomed.	Teachers were insisted to use more ICT enabled teaching methods.	Faculties were requested to opt for ICT teaching methods like PPT presentation, online quiz.
Professional feedback	Students must be taken to industries to understand the importance course	To conduct periodic hands on session and training program for students	Students were taken to industries and conference to get knowledge on research
Employer feedback	Students has to improve their communication skills and problem solving skills	Students were exposed to various programs which includes, problem solving ability, personality development	Special talks on improving skill development has been conducted

*S. Sangeetha*

**HOD/MICROBIOLOGY**

Dr. S. Sangeetha  
Asst. Professor/HOD,  
Department of Microbiology,  
St. Peter's Institute of Higher Education and Research  
Avadi, Chennai-600054.

*[Signature]*  
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2021-22

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**MINUTES OF THE 12<sup>th</sup> MEETING OF THE BOARD OF STUDIES IN  
PHYSICS**

Held on 25<sup>th</sup> February 2022

**Members Present**

S. No	Name of the Member	Designation	Member	Signature
1.	Dr. S. Stella Mary	Professor & Head Department of Physics SPIHER	Chairperson	
2.	Dr. S. Gunasekaran	Professor Department of Physics SPIHER	Member	
3.	<del>Dr. S. Gunasekaran</del>	Professor Department of Physics SPIHER	Member	
4.	Mrs. R. Ramalakshmi	Assistant Professor Department of Physics SPIHER	Member	
5.	Dr G. Anbalagan	Professor Department of Nuclear Physics University of Madras, Guindy Chennai	Academic Expert Member	
6.	Mr. S. L. Balaji	Mr. S. L. Balaji Mobtron Enterprizes, Kilpauk Chennai	Industry Expert Member	

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Dr. S. STELLA MARY, **Chairperson**  
Professor & Head, (Research) Department of Physics  
St. Peter's Institute of Higher Education and Research  
Avadi, Chennai - 600 054.



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Website:www.spiher.ac.in

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## NEW COURSES FOR THE ACADEMIC YEAR 2021-2022

### B.Sc. - PHYSICS

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	PHU	B.Sc. - Physics	APHT2603	MAJOR PRACTICAL III
2	PHU	B.Sc. - Physics	ACYT2607	ALLIED - CHEMISTRY I
3	PHU	B.Sc. - Physics	ACYL2607	ALLIED CHEMISTRY PRACTICAL I
4	PHU	B.Sc. - Physics	ATMT2604	LANGUAGE IV (TAMIL/FRENCH/HINDI/TELUGU)
5	PHU	B.Sc. - Physics	ACYT2608	ALLIED - CHEMISTRY II
6	PHU	B.Sc. - Physics	APHT2604	ELECTRICITY AND ELECTROMAGNETISM
7	PHU	B.Sc. - Physics	ACYL2608	ALLIED CHEMISTRY PRACTICAL II
8	PHU	B.Sc. - Physics	APHL2604	ELECTROMAGNETISM LAB
9	PHU	B.Sc. - Physics	APHI2602	INTERNSHIP –II
10	PHU	B.Sc. - Physics	516UPHT01	ELECTRICITY & ELECTROMAGNETISM
11	PHU	B.Sc. - Physics	APHT3659	DIGITAL ELECTRONICS
12	PHU	B.Sc. - Physics	APHT3660	MATERIALS SCIENCE
13	PHU	B.Sc. - Physics	APHT2610	ALLIED–III - PHYSICS –I
14	PHU	B.Sc. - Physics	APHL2610	ALLIED LAB–III - PHYSICS –I LAB
15	PHU	B.Sc. - Physics	APHT2611	ALLIED –IV - PHYSICS –II
16	PHU	B.Sc. - Physics	APHL2611	ALLIED LAB –IV - PHYSICS –II LAB



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<b>12.11</b>	<p>Considered to include value added courses imparting transferable and life skills offered beyond the curriculum in the syllabi of B.Sc (Physics) and M.Sc (Physics)</p> <p><b>RESOLVED</b> that the value added courses imparting transferable and life skills offered beyond the curriculum such as course on “Instrumentation of Energy Systems” be approved for the upcoming semester (2020-21-ODD semester).</p>
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**Date: 25.02.2022**

  
**Chairperson**

Dr. S. STELLA MARY, M.Sc., M.Phil., Ph.D.,  
Professor & Head (Research Supervisor)  
Department of Physics  
St. Peter's Institute of Higher Education and Research  
Avadi, Chennai - 600 054.



  
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**St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
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AVADI, CHENNAI – 600 054.  
**MINUTES OF THE 7<sup>th</sup> MEETING OF THE BOARD OF STUDIES IN  
TAMIL**

**Held on 25<sup>th</sup> February, 2022**

**Members Present**

S.No	Name	Designation	Member	Signature
1.	K. Jayaseelan	Assistant Professor	Chairman	
2.	M.Ravichandran	Assistant Professor	Internal Member	
3	Dr.J.Radhakrishnan	Associate Professor Department of Tamil , sri Shankara arts and college	External Member	

7.1	Considered the minutes of 6 <sup>th</sup> meeting of the Board of Studies in Tamil held on 11.09.2021 <b>RESOLVED</b> that the minutes of 6 <sup>th</sup> meeting of Board of Studies in Tamil held on 11.09.2021 be confirmed.
7.2	Considered the syllabi of B.A Tamil under the Regulation 2018. <b>RESOLVED</b> that the Syllabi of B.A (Tamil) under the regulations 2020
7.3	Considered the syllabi of B.A Tamil under the Regulation 2020 <b>RESOLVED</b> that syllabi of B.A Tamil under the Regulation 2020 be continued
7.4	Reviewed the syllabi of Tamil Prescribed for (B.C.A/B.Sc/B.B.A/B.A /b.com) Programmes under the regulations 2020 <b>RESOLVED</b> that the syllabi of General Tamil prescribed for (B.C.A/B.Sc/B.B.A/B.A/ B.Com ) Programmes under the regulations 2020 be continued.



  
Registrar

  
Chairperson

Date: 25/02/2022

தமிழ்த்துறைத் தலைவர்  
பணித பீட்டர் உயர்கல்வி மற்றும் ஆராய்ச்சி  
ஆவடி, சென்னை-600 054.

**St.PETERS INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
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**MINUTES OF THE 10<sup>th</sup> MEETING OF THE BOARD OF STUDIES IN  
VISUAL COMMUNICATION**  
Held on 03-02-2022

**Members Present**

S.No	Name	Designation	Member	Signature
1.	Mr.V.Saravana Ragavan	Professor & Head	Chairman	
2.	Mr.S. Kanthaswami	Assistant Professor	Internal Member	
3.	Mr.D.Vickram	Assistant Professor	Internal Member	
4.	Ms.M.Nithiya	Assistant Professor	Internal Member	
5.	Mrs.M.Usha Rani	Assistant Professor	Internal Member	
6.	Mr.K.JayaSurya	Assistant Professor	Internal Member	
7.	Mr.B.Aswin	Assistant Professor	Internal Member	
8.	Ms.K.Swapna	Assistant Professor	Internal Member	
9.	MR.R.SathyaNarayanan	Assistant Professor	Internal Member	
10.	Ms.T.Sai Devika	Assistant Professor	Internal Member	
11.	Mr.S.Ganesh	Assistant Professor	Internal Member	
12.	Dr. R.Ramani	Associate Professor, Department of Visual communication, Sindhi Arts and Science College, Chennai	External Member	
13.	Mr. S. Kalaiselvan	Assistant Professor and Head Department of Visual Communication, Vels Institute of Science, Technology and Advanced Studies, Chennai	External Member	



Registrar

10.1	<p>Considered the minutes of the 9<sup>th</sup> meeting of Board of Studies in Visual Communication held on 08-08-2021</p> <p><b>RESOLVED</b> that the minutes of the 8<sup>th</sup> meeting of Board of Studies in Visual Communication held on 08-08-2021 be confirmed.</p>
10.2	<p>Reviewed the Syllabi of B.Sc Visual Communication programme under the Regulations 2020 with Choice Based Credit System (CBCS).</p> <p><b>RESOLVED</b> that the Syllabi of B.Sc Visual Communication programme under the Regulations 2020 with Choice Based Credit System (CBCS) be continued.</p>
10.3	<p>Reviewed and considered the curriculum feedback analysis and action taken report based on the suggestions given by the stakeholders.</p> <p><b>RESOLVED</b> that curriculum feedback analysis and action taken report based on the suggestions given by the stakeholders to be approved. <b>(Appendix-I)</b></p>
10.3	<p>Considered to include Value Added Course imparting transferrable/ local needs / employability / entrepreneurship /skill development and life skills offered beyond the curriculum in the syllabi of B.Sc Visual Communication</p> <p><b>RESOLVED</b> that the Value Added Course imparting transferrable/ local needs / employability / entrepreneurship /skill development and life skills offered beyond the curriculum</p>

Date: 03-02-2022

Chairman  
HOD

Dept. of Visual Communication  
St. Peter's Institute of Higher Education and Research  
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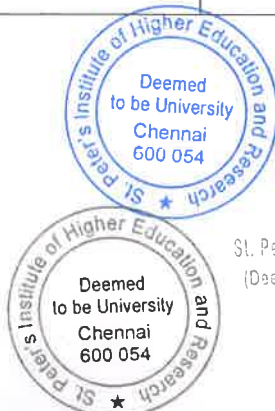
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**Appendix-I**

Programme	Stakeholders	Feedback	Recommendation	Action taken
VCU	Student	Students suggested the need for job oriented courses in industry and training for facing interviews during campus selection. They also requested to provide career guidance and expert talks by industrialists.	To offer multilingual program for advancing in technical domain.	Carrier guidance programs were given and counselling cell supported the development of soft skills and communication ability.
	Teacher	Teaching methods and teaching aids must be improved	Suggested advance learning	ICT methods and smart boards were Used for effective teaching.
	Alumni	More emphasis should be given to opted field of study. Focus more on Inter- disciplinary activities of many courses.	Suggested for Inter-disciplinary In-house projects.	Inter- departmental research initiatives was encouraged.
	Parent	Placement and industry based courses	To offer more focused placement training and industrial training and also advanced courses.	To offer more placement training and also advanced courses

Date: 03-02-2022



  
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 Chairman  
 HOD

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