ST. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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

Avadi, Chennal – 600 054.



Academic Council

17th meeting on 23.03.2018

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.

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Dr. L. Mahesh Kumar Registrar

SPIHER /REG/F009/AC-17/2018

19.02.2018

To

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

Sir/Madam,

Sub: Academic Council – 17th meeting on 23.03.2018 – Meeting notice - Reg.

The 17th meeting of the Academic Council is scheduled to be held on 23.03.2018 at 11.00 a.m. at the Conference Hall in the University Campus. All the members are requested to attend the meeting.

The Agenda is enclosed.

Yours faithfully,

Copy to:

1. All the Deans/HODs

2. The Secretary, UGC

3. The Finance Officer

4. Estate Officer

5. Office File/Guard File

For information:

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.

17th Meeting of the Academic Council

Date: 23.03.2018 at 11.00 a.m.

Revised Agenda

- **17.1** To confirm the minutes of the 16th meeting of the Academic Council held on 06.09.2017. **(Appendix-I)**
- 17.2 To report on the action taken on the minutes of the 16th meeting of the academic council. (Appendix-II)
- **17.3** (a) To consider the minutes of the 17th meeting of the following Boards of Studies held on the dates mentioned: (Appendix-III)
 - **1.** Biomedical Engineering (13.03.2018)
 - 2. Civil Engineering (15.03.2018)
 - **3.** Computer Science and Engineering (13.03.2018)
 - **4.** Electronics and Communication Engineering (13.03.2018)
 - **5.** Electrical and Electronics Engineering (13.03.2018)
 - **6.** Information Technology (13.03.2018)
 - **7.** Mechanical Engineering (12.03.2018)
 - **8.** Computer Science and Applications (14.03.2018)
 - **9.** Science and Humanities (16.03.2018)
 - (b) To consider the new Regulations 2018 with syllabi for the I and II semesters of B.E. / B.Tech in Civil Engineering / Mechanical Engineering / Biomedical Engineering / Computer Science and Engineering / Information Technology / Electronics and Communication Engineering / Electrical and Electronics Engineering on the pattern of AICTE Model Curriculum as per the minutes of the concerned Boards of Studies. (Appendix-IV)
 - (c) To consider the minutes of the 17th meeting of the Board of Studies in Research held on 15.03.2018. (Appendix-V)
- 17.4 To consider the minutes of the 11th meeting of the Board of Studies in Architecture held on 14.03.2018. (Appendix-VI)

17.5 Any other

Date: 21.03.2018 Sd. Registrar

ST. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

ST. PETER'S UNIVERSITY

(Declared under Section 3 of the UGC Act 1956) Avadi, Chennai – 600 054.

Minutes of the 16th Meeting of the Academic Council Date: 06.09.2017 at 11.00 a.m.

Members Present

- 1. Dr. Francis C Peter, Vice Chancellor
- 2. Dr. D.S. Ramachandra Murthy, Dean
- 3. Prof. K . Rajamanickam, Dean
- 4. Dr. Kasthuri Kantharaj, Dean
- 5. Dr. K. Balagurunathan, Dean
- 6. Dr. L. Mahesh Kumar, Dean
- 7. Dr. S. Gunasekaran, Dean
- 8. Dr. P. Asha, HoD-Civil Engg
- 9. Dr. S. Pushpa, HoD-CSE
- 10. Mr. K. Balamurugan, HoD-IT
- 11. Mr. Laspha Paul Raj, HoD/ B.Arch
- 12. Dr. R. Latha, HoD-MCA
- 13. Dr. R. Gayatri, HoD-MBA
- 14. Dr. N. Srinivasan, HoD-Mathematics
- 15. Dr. S. Stella Mary, HoD-Physics
- 16. Dr. Sayeeda Sultana, HoD-Chemistry
- 17. Dr. P. Periayasamy, HoD- Mechanical Engg
- 18. Dr. S. Uma Maheshwari, HoD- English
- 19. Dr. A. K. Polson, (English)
- 20. A. Bharathi, HoD- Aero
- 21. P. Subhashini, (CSE)
- 22. Dr. Kasthuri Kantharaj, HoD-Bio-medical
- 23. Ms. A. Kasthuribai, HoD- Bio Technology
- 24. Mrs. A. Annamahesh, HoD-Automobile Engg
- 25. Prof. R. Jayaraman, HoD-EEE
- 26. Dr.G.P. Ramesh, HoD- ECE
- 27. Mr. K. Balaji, HoD-EIE 💰
- 28. Ms. J. Cynthia Sheba, HoD-Chemical Engg
- **16.1** Considered the minutes of the 15^{th} meeting of the Academic Council held on 22.03.2017.

RESOLVED the minutes of the 15th meeting of the Academic Council held on 22.03.2017 be confirmed. (Appendix-I)

16.4 Considered the minutes of the 9th meeting of the Board of Studies in Architecture held on 22.08.2017.

RESOLVED that the minutes of the 9th meeting of the Board of Studies in Architecture held on 22.08.2017 be approved. (Appendix-IV)

16.5 Considered the minutes of the meeting of the ad-hoc Board of Studies in Medicine held on 03.07.2017.

RESOLVED that the minutes of the meeting of the ad-hoc Board of Studies in Medicine held on 03.07.2017 be approved. (Appendix-V)

- 16.6 (i) The Chairman of Board of Studies in Management Studies is requested to revise the syllabi of M.B.A. programme in the light of the developments, to be implemented from the batch of students admitted in 2017-18 and place the proposed Syllabi under the Regulations 2017 at the next meeting of the Board of Studies to be convened soon.
 - (ii) All other chairmen of the Boards of Studies are requested to initiate the exercise of revising the syllabus of B.E./ B.Tech./ M.E./ M.Tech./ M.C.A. programmes for implementation from the batch of students admitted in 2018-19.

Vice Chancellor

Date: 06.09.2017

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ST. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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17th Meeting of the Academic Council

Date: 23.03.2018

Action Taken on the Minutes of the 16th meeting of Academic Council held on 06.09.2017

Item	Action taken
16.1	Noted
16.2	Noted
16.3	Informed the HoDs concerned for further action, wherever required.
16.4	Informed the HoD / Architecture to take necessary action.
16.5	Noted
16.6	Informed all the HoDs for further action.

Date: 20.03.2018

Sd. 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

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MINUTES OF THE 11th MEETING OF THE BOARD OF STUDIES IN

B.ARCH Held on 14.03.2018

Members Present

S.No	Name Designation		Member	Signature
1.	Ar Lashba Paulraj	Design Chair and HOD	Chairman	James A
2.	Ar Vasudevan T J	Senior Professor	Member	wooders
3.	Ar P.Kanimozhi Associate Professor Ar Ashwini Hebsur Assistant Professor Member Member		Member	1). Janous
4.			Member	Murini
5.	Ar Mushtaq Ahmed			MAL
6.	Ar Sethu Practicing Architect		External Member	Ollun
7.	Ar M.Rajkumar	Academician	External Member	agrum
8.	K.Geetha	Alumni	Member	achat
9.	R.Vimaladhithan	Alumni	Member	Limalatura

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Chairman

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`11.1	Considered the minutes of the 10th meeting of Board of studies in Architecture held on 26.09.2017.
	RESOLVED that the minutes of the 10th meeting of Board of studies in Architecture held on 26.09.2017 ne confirmed.
11.2	Reviewed the syllabi of B.Arch. Programme under the Regulations 2015 with Choice Based Credit System (CBCS)
	RESOLVED that the syllabi of B.Arch. Programme under the Regulations 2015 with Choice Based Credit System (CBCS) be continued taking into consideration of the suggestions and remarks given by the members to include the new elective course (Appendix - I).
	1. Sustainable urban habitat -915ART11
11.3	Reviewed the syllabi of B.Arch. Programme under the Regulations 2017 with Choice Based Credit System (CBCS) be continued.
	RESOLVED that the syllabi of B.Arch. Programme under the Regulations 2017 with Choice Based Credit System (CBCS) 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).

Following are the amendments proposed in Regulation 2017.

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- In the syllabus of 117ARP02- Basic Design, exercises involving the basic elements of Architecture and the guiding principles of Architecture to be included along with basic shapes and colour theory.
- In the syllabus of 217ART04 Building Materials and Construction I, Industrial visits to manufacturing Industries and Construction sites to be included.
- In the examination pattern for all Architectural Design courses of Regulation 2017, one time problem for a shorter duration to be included.
- Signing of MoU's with Architects, Contractors and Builders were discussed and resolved that MoU's may be signed for subjects like Building Construction, Architectural Detailing to do a detailed study for a time period of minimum one week.
- Swayam courses, if the content matches the syllabus of the course prescribed in the regulation and syllabi of B.Arch. degree programme, then it shall be considered for credit transfer with the approval of BOS. If other relevant courses from allied fields are taken by the student, then it shall be mentioned in the mark sheet as extra credits earned and shall not be considered for CGPA calculation.

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- Additional training in the upcoming concepts of infrastructure development is recommended.
- Exposure of students to sustainable development and control tools through Green rating bodies such as GRIHA and IGBC through workshops and short term training is recommended

Date: 21.08.2018

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Appendix - I

Programme	Stakeholder	Feedback	Recommendation	Action taken
B.Arch	Student	Students suggested the needfor job oriented courses Theyalso requested to provide career guidance and expert talks by practicing architects	To offer multilingual program for advancing architecture field	Carrier guidance programs were given and counseling cell supported the development of soft skills and communication ability.
	Teacher	Teaching methods and teaching aids must be improved	Suggested for advance learning	ICT methods and smart boards were used for effective teaching. Computer centre promoted (FOSS)
				Free OpenSource Software to all services will provided in the campus to run web mail,LDAP and MODLE
	Alumni	More emphasis should be on the applications of the opted field of study. Focus more on interdisciplinary activities of many courses.	Suggested for Interdisciplinary projects.	Inter departmental research initiatives between civil department was encouraged.

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MINUTES OF THE 17th MEETING OF THE BOARD OF STUDIES IN BIOMEDICAL ENGINEERING

Held on 13.03.2018

Members Present

S.No	Name	Designation	Member	Signature
1.	Dr. K. Kantharaj	Professor& Head	Chairman	15mm
2.	Mrs. V. Subharamya	Associate Professor	Internal Member	Lyhomerel
3.	Ms. A. Vanitha	Assistant Professor	Internal Member	midle
4.	Ms. M. Fazilath	Assistant Professor	Internal Member	Sand
5.	Dr. R. Vasuki	Head (BME) Bharath Institute of Higher Education and Research Tambaram Head (BME) External Member		Varuli
6.	Dr. Rani Hemamalini	Professor ECE -SPCET	External Member	Juni
7.	Mr. Sridhar Subramanian	Senior Manager, Endosys technology	Industrial expert	l

Hegistrai

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Chairman

17.1 Considered the minutes of the 16th meeting of Board of Studies in Biomedical Engineering held on 21.08.2017.

RESOLVED that the minutes of the 16th meeting of Board of Studies in Biomedical Engineering held on 21.08.2017 be confirmed

17.2 Reviewed the Regulation & Syllabi of B.E. Biomedical Engineering programme under the Regulations 2013.

RESOLVED that the Regulation & Syllabi of B.E. Biomedical Engineering programme under the Regulations 2013 with Choice Based Credit System (CBCS) be continued.

17.3 Reviewed the Regulation & Syllabi of B.E (Biomedical Engineering) programmes under the Regulations 2017 and 2018 with Choice Based Credit System (CBCS).

RESOLVED that the new regulations and syllabi of B.E.(Biomedical Engineering) on the pattern of AICTE model curriculum for the I and II semester from the batch of students to be admitted from 2018-19 under the regulations 2018 be approved.

17.4 Reviewed the new regulations and syllabi of M.E.(Biomedical Engineering) from the batch of students to be admitted from 2018-19 under the regulations 2018.

RESOLVED that the new regulations and syllabi of M.E.(Biomedical Engineering) from the batch of students to be admitted from 2018-19 under the regulations 2018 be approved.

17.5 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 (Biomedical Engineering) programme under the Regulations 2013, 2017 & 2018 and M.E. (Biomedical Engineering) under the Regulations 2013 and 2018 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.

17.6 Considered to include courses having focus on employability/ entrepreneurship /skill development in the syllabi of B.E/ (BME) under

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the Regulations 2013, 2017 & 2018 and M.E. (Biomedical Engineering) under the Regulations 2013 & 2018.

RESOLVED that the courses having focus on employability/ entrepreneurship /skill development year wise in the syllabi of B.E (BME) under the Regulations 2013, 2017 & 2018 and M.E. (BME) under the Regulations 2013 & 2018 to be approved.

17.7 Considered to include value added courses imparting transferable and life skills offered beyond the curriculum in the syllabi of B.E (Biomedical Engineering) and M.E. (Biomedical Engineering).

RESOLVED that the value added courses imparting transferable and life skills offered to be approved for the upcoming semester (2018-19 Even semester).

17.8 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 – III)

Date: 13.03.2018

Chairman

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MINUTES OF $17^{\rm st}$ MEETING OF THE BOARD OF STUDIES OF CIVIL ENGINEERING HELD ON 15.03.2018

Members Present

S No	Name	Designation	Role in Board
1	Dr. V.B.M. Sayana	Prof. & Head Dept. of Civil Engineering SPIHER	Chair Person
2	Dr.P.Asha	Professor Dept. of Civil Engineering SPIHER	Internal Member
3	Mr.K.Ķarthik	Associate Professor Dept. of Civil Engineering SPIHER	Internal Member
4	Mr.P.Sampath	Assistant Professor Dept. of Civil Engineering SPIHER	Internal Member
5	Dr. P.Partheeeban	Dean Academics St Peter's College of Engineering and Technology	External Member Academics
6	Dr.E.Arun Babu	Assistant Professor Dept. of Civil Engineering Anna University	External Member Academics
7	Dr.S.Justin	Chief Engineering Manager (L&T ECC)	External Member Industry
8	Mr.Babu Kamaraj.P	Assistant Professor Dept. of Civil Engineering SPCET	External Member (Alumni)

15.03.2018

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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, 1959) 17.1 Considered the minutes of 16th Board of Studies in Civil Engineering held on 18.08.2017.

Resolved that the 16th Board of Studies in Civil Engineering held on 18.08.2017 be confirmed.

17.2 Reviewed the syllabus of B.E. Civil Engineering under regulation 2013.

RESOLVED that the Regulation and Syllabi of B.E (Civil Engineering) programme under the Regulations 2013 with Choice Based Credit System (CBCS) be continued taking into consideration of the suggestions and remarks given by the members to include the following New Elective courses (Appendix - I).

1	613CET08	REMOTE SENSING TECHNIQUES AND GIS
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- 2 713CET06 GROUNDWATER ENGINEERING
- 3 713CET09 ENVIRONMENTAL IMPACTASSESSMENT
- 4 813CET04 TALL BUILDINGS
- 5 813CET10 FINITE ELEMENTTECHNIQUES

17.3 Considered the new regulation and syllabi of B.E. Civil Engineering on the pattern of AICTE curriculum from the batch of students to be admitted from 2018-19 under regulation 2018.

RESOLVED that the new Regulation and Syllabi of B.E (Civil Engineering) on the pattern of AICTE curriculum from the batch of students to be admitted from 2018-19 under the Regulations 2018 with Choice Based Credit System (CBCS) for I and II semester be approved. (Appendix - II).

17.4 Considered the new regulation and syllabi of M.E. Structural Engineering from the batch of students to be admitted from 2018-19 under regulation 2018.

RESOLVED that the new Regulation and Syllabi of M.E. Structural Engineering from the batch of students to be admitted from 2018-19 under the Regulations 2018 with Choice Based Credit System (CBCS) for I and II semester be approved. (Appendix - III).

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17.5 Reviewed the syllabus of M.E. Structural Engineering under regulation 2013.

RESOLVED that the Regulation and Syllabi of M.E. Structural Engineering programme under the Regulations 2013 with Choice Based Credit System (CBCS) be continued.

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

Resolved that the courses having focus on employability/ entrepreneurship /skill development year wise in the syllabi of B.E (CIVIL) under the Regulations 2018 and M.E (STRUCTURAL ENGINEERING) under the Regulations 2018 to be approved.

17.7 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 and M.E (STRUCTURAL ENGINEERING) under the Regulations 2018 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.

17.8 Considered to include value added courses imparting transferable and life skills offered beyond the curriculum in the syllabi of B.E (CIVIL) under the Regulations 2018 and M.E (STRUCTURAL ENGINEERING) under the Regulations 2018.

RESOLVED that the value added courses imparting transferable and life skills offered beyond the curriculum.

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17.9 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. (Appendix - II)

15.03.2018

Chairman

Dr. V.B.M. SAYANA, M.E., Ph.D.
Professor & Head
Department of Civil Engg.
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APPENDIX - I

613CET08 - REMOTE SENSING TECHNIQUES AND GIS

OBJECTIVES:

- To introduce the students to the basic concepts and principles of various components ofremote sensing.
- To provide an exposure to GIS and its practical applications in civil engineering. UNIT I

EMR AND ITS INTERACTION WITH ATMOSPHERE & EARTH MATERIAL

Definition of remote sensing and its components - Electromagnetic spectrum - wavelength regions important to remote sensing – Wave theory, Particle theory, Stefan-Boltzman and Wein's Displacement Law – Atmospheric scattering, absorption – Atmospheric windows – spectral signature concepts – typical spectral reflective characteristics of water, vegetation and soil.

PLATFORMS AND SENSORS

Types of platforms - orbit types, Sun-synchronous and Geosynchronous - Passive and Activesensors resolution concept – Pay load description of important Earth Resources and Meteorological satellites – UNIT III

IMAGE INTERPRETATION AND ANALYSIS

Types of Data Products – types of image interpretation – basic elements of image interpretation - visual interpretation keys - Digital Image Processing - Pre-processing - image enhancement techniques multispectral image classification – Supervised and unsupervised. UNIT IV

GEOGRAPHIC INFORMATION SYSTEM

Introduction – Maps – Definitions – Map projections – types of map projections – map analysis - GIS definition - basic components of GIS - standard GIS softwares - Data type - Spatial and nonspatial (attribute) data – measurement scales – Data Base Management Systems (DBMS).

DATA ENTRY, STORAGE AND ANALYSIS

Data models – vector and raster data – data compression – data input by digitization and scanning – attribute data analysis – integrated data analysis – Modeling in GIS Highway alignment studies – **OUTCOMES:**

On completion of the course the students will have knowledge on

- Principles of Remote Sensing and GIS
- Analysis of RS and GIS data and interpreting the data for modeling applications TEXT BOOKS:

- Lillesand, T.M., Kiefer, R.W. and J.W.Chipman. "Remote Sensing and Image 1. Interpretation" 5th Edition., John Willey and Sons Asia Pvt. Ltd., New Delhi, 2004. 2.
- Anji Reddy, M. "Textbook of Remote Sensing and Geographical Information System" 2nd REFERENCES:

- Lo. C.P.and A.K.W.Yeung, "Concepts and Techniques of Geographic Information 1. Systems", Prentice Hall of India Pvt. Ltd., New Delhi, 2002 2.
- Peter A.Burrough, Rachael A. McDonnell, "Principles of GIS", Oxford University Press,2000 Ian Heywood "An Introduction to GIS", Pearson Education Asia, 2000 3.



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713CET06 - GROUNDWATER ENGINEERING

OBJECTIVES:

• To introduce the student to the principles of Groundwater governing Equations and Characteristics of different aquifers,

• To understand the techniques of development and management of groundwater.

UNIT I HYDROGEOLOGICAL PARAMETERS

Introduction – Water bearing Properties of Rock – Type of aquifers - Aquifer properties – permeability, specific yield, transmissivity and storage coefficient – Methods of Estimation–Ground water table fluctuation and its interpretations – Groundwater development and Potential in India – GEC norms.

UNIT II WELL HYDRAULICS

Objectives of Groundwater hydraulics – Darcy"s Law - Groundwater equation – steady state flow - Dupuit Forchheimer assumption - Unsteady state flow - Theis method - Jacob method - Slug tests - Image well theory – Partial penetrations of wells.

UNIT III GROUNDWATER MANAGEMENT

Need for Management Model – Database for groundwater management –groundwater balance study – Introduction to Mathematical model – Conjunctive use – Collector well and Infiltrationgallery.

UNIT IV GROUNDWATER QUALITY

Ground water chemistry - Origin, movement and quality - Water quality standards - Health and aesthetic aspects of water quality - Saline intrusion - Environmental concern and Regulatory requirements

UNIT V GROUNDWATER CONSERVATION

Artificial recharge techniques – Remediation of Saline intrusion– Ground water management studies – Protection zone delineation, Contamination source inventory, remediation schemes -Ground water Pollution and legislation.

OUTCOMES:

- Students will be able to understand aquifer properties and its dynamics after the completion of the course. It gives an exposure towards well design and practical problems of groundwater aquifers.
- Students will be able to understand the importance of artificial recharge and groundwater quality concepts.

TEXT BOOKS:

- 1. Raghunath H.M., "Ground Water Hydrology", New Age International (P) Limited, NewDelhi, 2010.
- 2. Todd D.K., "Ground Water Hydrology", John Wiley and Sons, New York, 2000.

REFERENCES:

- 1. Fitts R Charles, "Groundwater Science". Elsevier, Academic Press, 2002.
- 4. Ramakrishnan, S, Ground Water, K.J. Graph arts, Chennai, 1998.



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713CET09 - ENVIRONMENTAL IMPACT ASSESSMENT

OBJECTIVES:

To impart knowledge on Environmental management and Environmental Impact Assessment.

INTRODUCTION

Impact of development projects - Sustainable development- Need for Environmental Impact Assessment (EIA) - Environmental Impact Statement (EIS) - EIA capability and limitations - Legal provisions on EIA-Stages of EIA, Types of EIA

METHODOLOGIES

Methods of EIA - Check lists - Matrices - Networks - Cost-benefit analysis - Analysis of alternatives

PREDICTION AND ASSESSMENT

Assessment of Impact on land, water, air, social & cultural activities and on flora & fauna-Mathematical models- Public participation

ENVIRONMENTAL MANAGEMENT PLAN

Plan for mitigation of adverse impact on environment - Options for mitigation of impact on water, air, land and on flora & fauna - Addressing the issues related to the Project Affected People. Post project monitoring

CASE STUDIES

EIA for infrastructure projects - Dams - Highways - Multi-storey Buildings - Water Supply and Drainage Projects - Waste water treatment plants, STP.

OUTCOMES:

The students completing the course will have ability to

- carry out scoping and screening of developmental projects for environmental and social assessments
- explain different methodologies for environmental impact prediction and assessment
- plan environmental impact assessments and environmental management plans
- evaluate environmental impact assessment reports

TEXT BOOKS:

- Canter, R.L., "Environmental Impact Assessment", McGraw Hill Inc., New Delhi, 1996. 1.
- Shukla, S.K. and Srivastava, P.R., "Concepts in Environmental Impact Analysis", 2. Common Wealth Publishers, New Delhi, 1992.

REFERENCES:

- John G. Rau and David C Hooten "Environmental Impact Analysis Handbook", McGrawHill
- "Environmental Assessment Source book", Vol. I, II & III. The World Bank, Washington, D.C., 2.
- Judith Petts, "Handbook of Environmental Impact Assessment Vol. I & II", Blackwell 3. Science, 1999. of Higher Educa

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813CET04 - TALL BUILDINGS

OBJECTIVES:

• The design aspects and analysis methodologies of tall buildings will be introduced. Thestability analysis of tall buildings is another important objective of this course.

UNIT I DESIGN CRITERIA AND MATERIALS

Development of High Rise Structures - General Planning Considerations - Design philosophies - Materials used for Construction - High Strength Concrete - High Performance Concrete - Self Compacting Concrete - Glass - High Strength Steel

UNIT II LOADING

Gravity Loading - Dead Load - Live Load - Live load reduction technique - Impact Load - Construction Load - Sequential Loading. Lateral Loading - Wind load - Earthquake Load. Combination of Loads.

UNIT III BEHAVIOUR OF VARIOUS STRUCTURAL SYSTEMS

Factors affecting growth, Height and Structural form. High rise behaviour of Various structural systems - Rigid frames, braced frames, Infilled frames, shear walls, coupled shear walls, wall-frames, tubular structures, cores, outrigger - braced and hybrid mega systems.

UNIT IV ANALYSIS AND DESIGN

Modeling for approximate analysis, Accurate analysis and reduction techniques, Analysis of buildings as total structural system considering overall integrity and major subsystem interaction, Analysis for member forces, drift and twist, computerised general three dimensional analysis.

UNIT V STABILITY OF TALL BUILDINGS

Overall buckling analysis of frames, wall-frames, Approximate methods, second order effects of gravity of loading, P-Delta analysis, simultaneous first-order and P-Delta analysis, Translational, Torsional instability, out of plumb effects, stiffness of member in stability, effectof foundation rotation.

OUTCOMES:

• At the end of this course the student should have an understanding on the behaviour of tallbuildings subjected to lateral building. The students should have knowledge about the rudimentary principles of designing tall buildings as per the existing codes.

TEXT BOOKS:

- 1. Bryan Stafford Smith, Alex coull, "Tall Building Structures, Analysis and Design", JohnWiley and Sons, Inc., 1991.
- 2. Taranath B.S., "Structural Analysis and Design of Tall Buildings", McGraw Hill, 2011.

REFERENCES:

1. Lin.T.Y, Stotes Burry.D, "Structural Concepts and systems for Architects and Engineers", John Wiley, 1988.

2. Lynn S.Beedle, "Advances in Tall Buildings", CBS Publishers and Distributors, Delhi,1986. Wolfgang Schueller "High Rise Building Structures", John Wiley and Sons, New York1977.

813CET10 - FINITE ELEMENT TECHNIQUES

OBJECTIVES:

• To apprise the students about the basics of Finite Element theory, computer implementation of this theory and its practical applications.

UNIT I INTRODUCTION TO FINITE ELEMENT ANALYSIS AND FINITE ELEMENTFORMULATION TECHNIQUES

Introduction - Basic Concepts of Finite Element Analysis - Introduction to Elasticity - Steps in Finite Element Analysis - Virtual Work and Variational Principle - Galerkin Method- Finite Element Method: Displacement Approach - Stiffness Matrix and Boundary Conditions.

UNIT II ELEMENT PROPERTIES

Natural Coordinates - Triangular Elements - Rectangular Elements - Lagrange and SerendipityElements - Solid Elements - Isoparametric Formulation - Stiffness Matrix of Isoparametric Elements Numerical Integration: One, Two and Three Dimensional

UNIT III ANALYSIS OF FRAME STRUCTURES

Stiffness of Truss Members - Analysis of Truss - Stiffness of Beam Members - Finite ElementAnalysis of Continuous Beam - Plane Frame Analysis - Analysis of Grid and Space Frame.

UNIT IV FEM FOR TWO AND THREE DIMENSIONAL SOLIDS

Constant Strain Triangle - Linear Strain Triangle - Rectangular Elements -Numerical Evaluation of Element Stiffness -Computation of Stresses, Geometric Nonlinearity and Static Condensation -Axisymmetric Element -Finite Element Formulation of Axisymmetric Element -Finite Element Formulation for 3 Dimensional Elements

UNIT V APPLICATIONS OF FEM

Plate Bending Problems - Finite Elements for Elastic Stability - Finite Elements in Fluid Mechanics - Dynamic Analysis

OUTCOMES:

• Students will be in a position to develop computer codes for any physical problems using FE techniques.

TEXT BOOKS:

- 1. Chandrupatla, T.R., and Belegundu, A.D., "Introduction to Finite Element in Engineering", Third Edition, Prentice Hall, India, 2003.
- 2. Krishnamoorthy C. S., "Finite Element Analysis Theory and Programming", Tata McGraw Hill Education, 1994
- 3. David V. Hutton, "Fundamentals of Finite Element Analysis", Tata McGraw Hill, 2004
- 4. Daryl L.Logan, "A First Course in Finite Element Method", Cengage Learning, 2012.

REFERENCES:

- 1. Reddy J.N., "An Introduction to Finite Element Method", McGraw-Hill, Intl. Student Edition, 1985.
- 2. Zienkiewics, "The finite element method, Basic formulation and linear problems", Vol.1, 4th Edition, McGraw-Hill, Book Co., 1987
- 3. Rao S.S, "The Finite Element Method in Engineering", Pergaman Press, 2003.
- 4. Desai C.S. and. Abel J.F, "Introduction to the Finite Element Method", Affiliated EastWest Press, 1972.
- 5. Cook R. D., "Concepts and Applications of Finite Element Analysis", Wiley and Sons, 1989.

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APPENDIX – II B.E. (CIVIL ENGINEERING)

(Regulations 2018)

REGULATIONS AND SYLLABI UNDER CHOICE BASED CREDIT SYSTEM (Effective from the Academic Year 2018-2019)

I Semester

Code No.	Course Title	Credit	Marks			Pre-	Page
			CA EA Total		requisites	no	
	r	heory					
118PHT01	Physics	4	25	75	100	Nil	1
118MAT02	Mathematics –I	4	25	75	100	Nil	1
118BET03	Basic Electrical Engineering	4	25	75	100	Nil	3
118EGT04	Engineering Graphics& Design	1	25	75	100	Nil	5
	Pra	ctical					
118PHP01	Physics Laboratory	2	25	75	100	118PHT01	8
118BEP02	Basic Electrical Engineering	1	25	75	100	Nil	. 9
118EGP03	Engineering Graphics & Design	2	25	75	100	Nil	5
	Total	18	175	525	700		

II Semester

Code No.	Course Title	Credit	Marks			Pre-	Page
			CA EA		Total	requisites	no
	Т	`heory					
218CYT01	Chemistry	4	25	75	100	NIL	10
218MAT02	Mathematics –II	4	25	75	100	118MAT02	12
218PPT03	Programming for Problem Solving Using C and Python	3	25	75	100	NIL	14
218WMT04	Manufacturing Practices	1	25	75	100	NIL	16
218EHT05	English	3	25	75	100	NIL	17
218CET06	Engineering Mechanics	- 3	25	75	100	118PHT01	19
	Practic	al					
218CYP01	Chemistry Laboratory	2	25	75	100	218CYT01	21
218PPP02	Programming for Problem Solving Using C and Python	2	25	75	100	218PPT03	22
218WMP03	Manufacturing Practices	2	25	75	100	NIL	23
	Total	24	225	675	900		



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APPENDIX - III

M.E (STRUCTURAL ENGINEERING) PROGRAMME

Regulations and Syllabi (Effective from the Academic Year 2018-19)

SEMESTER-I

	SEMESTER - I		T	T			Ma	ırks
Code No.	Course Title	L	Т	P	Credit	CA	EA	Tota
	Theory & Practica	ıl					T	100
	Advanced Numerical Methods	4	1	0	5	25	75	100
118SEPT01		3	1	0	4	25	75	100
118SEPT02	Concrete Structures	4	1	0	5	25	75	100
118SEPT03	Structural Dynamics	+	1	0	5	25	75	100
118SEPT04	Theory of Elasticity and Plasticity	4	1	10	1	23		
118SEPT06	Elective I - Maintenance And Rehabilitation of Structures -	4	0	0	4	25	75	. 100
118SEPT10	Elective II - Advanced Concrete Technology	4) 4	25	75	100
	Total	23	3 4	1	0 27	150	450	600

SEMESTER – II

	11	T	T				Ma	irks
Code No.	Course Title	L	T	P	Credit	CA	EA	Total
Code 1101	Theory					25	75	100
218SEPT01	Finite Element Analysis	2	2	0	4			100
-10GEDT02	Experimental Techniques and Instrumentation	2	2	0	-	25	75	
218SEPT02 218SEPT03	Steel Structures	3	1	(4	25	75	100
	Earthquake Analysis and Design of Structures	3	1	1	0 4	25	75	100
218SEPT04 218SEPT05	Elective III - Design of Bridges -	3	1	-	0 4		75	100
218SEPT07	Elective IV - Prestressed Concrete	3		1	0 4	25	75	100
Practical	1.Eicoving	T	T	T		T	- 75	100
218SEPP01	Advanced Structural Engineering Laboratory	()	0	3 3	2:	5 75	
2100-	Total	1	6	8	3 2	7 17	5 525	700



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St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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MINUTES OF THE 17th MEETING OF THE BOARD OF STUDIES IN

COMPUTER SCIENCE AND ENGINEERING

Held on 13.03.2018

Members Present

S.No	Name	Designation	Member	Signature
1.	Dr.S.Pushpa	Professor& Head	Chairperson	8
2.	Ms. P. Subhashini	Assistant Professor	Internal Member	p. S.
3.	Mr. R. Mohanraj	Assistant Professor	Internal Member	Produc
4.	Mr. K. Suresh Babu	Assistant Professor	Internal Member	K. Samla behr
5.	Dr. Chitra Elangovan	Professor, Dept of IT, Prathyusha Engg College	External Member	Theta
6.	Dr. T. Sakthivel	Director, Firstsoft Technologies	External Member	T. Southiel
7.	Mr. V. Shyamal Szhunmugam,	Senior Software Engineer, Capgemini India Pvt. Ltd., (Alumni)	External Member	V.BL

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Chairperson

St. Peter's institute of Higher Education and Research Deemed to be University U/S 3 of the UGC Act 19561 Avadi, Chennai-600 054 17.1 Considered the minutes of the 16th meeting of Board of Studies in Computer Science and Engineering held on 21.08.2017.

RESOLVED that the minutes of the 16th meeting of Board of Studies in Computer Science and Engineering held on 21.08.2017 be confirmed.

Reviewed the Regulation & Syllabi of VII & VIII semesters of B.E(Computer Science and Engineering) programmes under the Regulations 2013 with Choice Based Credit System (CBCS).

RESOLVED that the Syllabi of VII & VIII semesters of B.E. (Computer Science and Engineering) under the Regulations 2013 with Choice Based Credit System (CBCS) be approved.(Appendix – I)

17.3 Considered the new Regulations and Syllabi of I & II semester of B.E. (Computer Science and Engineering) on the pattern of AICTE Model Curriculum from the batch of students to be admitted from 2018-19 under the Regulations 2018 with Choice Based Credit System (CBCS).

RESOLVED that the new Regulations and Syllabi of I & II semester of B.E. (Computer Science and Engineering) on the pattern of AICTE Model Curriculum from the batch of students to be admitted from 2018-19 under the Regulations 2018 with Choice Based Credit System (CBCS) be approved. (Appendix - II)

17.4 Reviewed the Regulation & Syllabi of M.E. (Computer Science and Engineering) programmes under the Regulations 2013 with Choice Based Credit System (CBCS).

RESOLVED that the Regulation & Syllabi of M.E.(Computer Science and Engineering) programmes under the Regulations 2013 with Choice Based Credit System (CBCS) be continued.

17.5 Considered the new Regulations and Syllabi of I & II semesters M.E. (Computer Science and Engineering) from the batch of students to be admitted from 2018-19 under the Regulations 2018 with Choice Based Credit System (CBCS).

RESOLVED that the new Regulations and Syllabi of I & II semesters M.E. (Computer Science and Engineering) from the batch of students to be admitted from 2018-19 under the Regulations 2018 with Choice Based Credit System (CBCS) be approved.(Appendix – III)

17.6 Reviewed the curricula developed having relevance to the

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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(CSE) programme under the Regulations 2013 and M.E.(CSE) under the Regulations 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.

17.7 Considered to include courses having focus on employability/ entrepreneurship /skill development in the syllabi of B.E(CSE) under the Regulations 2013 and M.E.(CSE) under the Regulations 2013.

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

17.8 Considered to include value added courses imparting transferable and life skills offered beyond the curriculum in the syllabi of B.E (CSE) and M.E. (CSE).

RESOLVED that the value added courses imparting transferable and life skills offered beyond the curriculum such as course on "Photoshop and Video Editing" be approved for the upcoming semester (2018-19 Odd semester).

Date: 13.03.2018

Chairman



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Appendix - I

B.E (Computer Science and Engineering) Regulation -2013 CHOICE BASED CREDIT SYSTEM

218CHT05 - ENVIRONMENTAL SCIENCE

OBJECTIVES:

To the study of nature and the facts about environment.

To find and implement scientific, technological, economic and political solutions to

To study the interrelationship between living organism and environment.

To appreciate the importance of environment by assessing its impact on the human world; envision the surrounding environment, its functions and its value.

To study the dynamic processes and understand the features of the earth"s interior and

To study the integrated themes and biodiversity, natural resources, pollution control and

UNIT I ENVIRONMENT, ECOSYSTEMS AND BIODIVERSITY

Definition, scope and importance of Risk and hazards; Chemical hazards, Physical hazards, Biological hazards in the environment – concept of an ecosystem – structure and function of an ecosystem – producers, consumers and decomposers-Oxygen cycle and Nitrogen cycle – energy flow in the ecosystem – ecological succession processes – Introduction, types, characteristic features, structure and function of the (a) forest ecosystem (b) grassland ecosystem (c) desert ecosystem (d) aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries) – Introduction to biodiversity definition: genetic, species and ecosystem diversity - biogeographical classification of India - value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values – Biodiversity at global, national and local levels – India as a mega-diversity nation – hot-spots of biodiversity – threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts - endangered and endemic species of India – conservation of biodiversity: In-situ and ex-situ conservation of biodiversity. Field study of common plants, insects, birds Field study of simple ecosystems - pond, river, hill slopes, etc.

UNITII **ENVIRONMENTAL POLLUTION**

Definition – causes, effects and control measures of: (a) Air pollution (Atmospheric chemistry- Chemical composition of the atmosphere; Chemical and photochemical reactions in the atmosphere - formation of smog, PAN, acid rain, oxygen and ozone chemistry;-Mitigation procedures- Control of particulate and gaseous emission, Control of SO2, NOX, CO and HC) (b) Water pollution: Physical and chemical properties of terrestrial and marine water and their environmental significance; Water

quality parameters – physical, chemical and biological; absorption of heavy metals - Water treatment processes. (c) Soil pollution - soil waste management: causes, effects and control measures of municipal solid wastes - (d) Marine pollution (e) Noise pollution (f) Thermal poll ution (g) Nuclear hazards-role of an individual in prevention of pollution – pollution case studies - Field study of local polluted site - Urban / Rural / Industrial / Agricultural.

Act ual Activities:

i.Plantation

ii.Shu tting down the fans and ACs of the campus for an hour or so iii.Drive for segregation of waste

UNIT III NATURAL RESOURCES

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

Forest resources: Use and over-exploitation, deforestation, case studies- timber extraction, mining, dams and their effects on forests and tribal people – Water resources: Use and overutilization of surface and ground water, dams-benefits and problems – Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies – Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies – Energy resources: Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources. Energy Conversion processes – Biogas – production and uses, anaerobic digestion; case studies – Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification – role of an individual in conservation of natural resources – Equitable use of resources for sustainable lifestyles. Introduction to Environmental Biochemistry: Proteins – Biochemical degradation of pollutants, Bioconversion of pollutants.

Field study of local area to document environmental assets - river/forest/grassland/hill/mountain

UNIT IV SOCIAL ISSUES AND THE ENVIRONMENT

From unsustainable to sustainable development – urban problems related to energy – water conservation, rain water harvesting, watershed management – resettlement and rehabilitation of people; its problems and concerns, case studies – role of non-governmental organization- environmental ethics: Issues and possible solutions – 12 Principles of green chemistry- nuclear accidents and holocaust, case studies. – wasteland reclamation – consumerism and waste products – environment production act – Air act – Water act – Wildlife protection act – Forest conservation act – The Biomedical Waste (Management and Handling) Rules; 1998 and amendments- scheme of labeling of environmentally friendly products (Ecomark). enforcement machinery involved in environmental legislation- central and state pollution control boards- disaster management: floods, earthquake, cyclone and landslides. Public awareness.

Awareness Activities:

i.Small group meetings about water management , promotion of recycle use, generation of less waste, avoiding electricity waste.
ii.Lectures from experts

UNIT V HUMAN POPULATION AND THE ENVIRONMENT

Population growth, variation among nations – population explosion – family welfare programme – environment and human health – human rights – value education – HIV / AIDS – women and child welfare –Environmental impact analysis (EIA)- -GIS-remote sensing-role of information technology in environment and human health – Case studies.

OUTCOMES:

Environmental Pollution or problems cannot be solved by mere laws. Public participation is an important aspect which serves the environmental Protection. One will obtain knowledge on the following after completing the course.

Public awareness of environment at infant stage.

Ignorance and incomplete knowledge has lead to misconceptions.

 Development and improvement in standard of living has lead to serious environmental disasters.

TEXT BOOKS:

1. Gilbert M.Masters, "Introduction to Environmental Engineering and Science", 2nd Edition, Pearson Education, 2004.

2. Benny Joseph, "Environmental Science and Engineering", Tata McGraw-Hill, New Delhi, 2006.

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REFERENCES:

- **1.** R.K. Trivedi, "Handbook of Environmental Laws, Rules, Guidelines, Compliances and Standard", Vol.I and II, Enviro Media.
- **2.** Cunningham, W.P. Cooper, T.H. Gorhani, "Environmental Encyclopedia", Jaico Publ., House, Mumbai, 2001.
- **3.** Dharmendra S. Sengar, "Environmental law", Prentice Hall of India PVT LTD, New Delhi, 2007.
- 4.Rajagopalan, R, "Environmental Studies-From Crisis to Cure", Oxford University Press 2005



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Appendix – II DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACTION TAKEN REPORT ON STAKEHOLDERS FEEDBACK 2017-2018

Stakehold er	Feedback	Recommendation	Action taken
Student	Students suggested the need for job oriented courses, 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 computer education.	Carrier guidance programs were given and counseling cell supported the development of soft skills and communication ability.
Teacher	Teaching methods and teaching aids must be improved	Suggested for advance learning	ICT methodsand smart boards were Used for effective teaching. Computer centre promoted (FOSS) Free Open SourceSoftware to allservices will provided in the campus to run web, mail, LDAP andMODLE
Alumni	More emphasis should be on the applications of the opted field of study. Focus more on interdisciplinary activities of many courses.	ations of the opted field of disciplinary projects. Focus more on inter-linary activities of many	
Parents	Practical Knowledge to be imparted which will help them to face real life situations.	students to participate in competition.	Mini-Project models and individual presentations by students in the institution were encouraged for articipating in competitions organised by other institutions.
Employer	Recruiters suggested that the students are be strong in their aptitude skills, as it is the first level of the interview process		Intensive training on aptitude training was planned for the next academic year.

Date: 21.08.2018

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Appendix - I

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218CHT05 - ENVIRONMENTAL SCIENCE

OBJECTIVES:

To the study of nature and the facts about environment.

• To find and implement scientific, technological, economic and political solutions to environmental problems.

To study the interrelationship between living organism and environment.

- To appreciate the importance of environment by assessing its impact on the human world; envision the surrounding environment, its functions and its value.
- To study the dynamic processes and understand the features of the earth"s interior and surface.
- To study the integrated themes and biodiversity, natural resources, pollution control and waste management.

UNIT I ENVIRONMENT, ECOSYSTEMS AND BIODIVERSITY

Definition, scope and importance of Risk and hazards; Chemical hazards, Physical hazards, Biological hazards in the environment – concept of an ecosystem – structure and function of an ecosystem – producers, consumers and decomposers-Oxygen cycle and Nitrogen cycle – energy flow in the ecosystem – ecological succession processes – Introduction, types, characteristic features, structure and function of the (a) forest ecosystem (b) grassland ecosystem (c) desert ecosystem (d) aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries) – Introduction to biodiversity definition: genetic, species and ecosystem diversity – biogeographical classification of India – value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values – Biodiversity at global, national and local levels – India as a mega-diversity nation – hot-spots of biodiversity – threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts – endangered and endemic species of India – conservation of biodiversity: In-situ and ex-situ conservation of biodiversity. Field study of common plants, insects, birds
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quality parameters – physical, chemical and biological; absorption of heavy metals - Water treatment processes. (c) Soil pollution - soil waste management: causes, effects and control measures of municipal solid wastes – (d) Marine pollution (e) Noise pollution (f) Thermal pollution (g) Nuclear hazards—role of an individual in prevention of pollution – pollution case studies – Field study of local polluted site – Urban / Rural / Industrial / Agricultural.

Actual Activities:

i.Plantation

ii.Shutting down the fans and ACs of the campus for an hour or so iii.Drive for segregation of waste

UNIT IIINATURAL RESOURCES

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Forest resources: Use and over-exploitation, deforestation, case studies- timber extraction, mining, dams and their effects on forests and tribal people - Water resources: Use and overutilization of surface and ground water, dams-benefits and problems - Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies - Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies - Energy resources: Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources. Energy Conversion processes - Biogas - production and uses, anaerobic digestion; case studies - Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification - role of an individual in conservation of natural resources - Equitable use of resources for sustainable lifestyles. Introduction to Environmental Biochemistry: Proteins – Biochemical degradation of pollutants, Bioconversion of pollutants. assets

environmental document to local area study of river/forest/grassland/hill/mountain

SOCIAL ISSUES AND THE ENVIRONMENT

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UNIT V HUMAN POPULATION AND THE ENVIRONMENT

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Environmental Pollution or problems cannot be solved by mere laws. Public participation is **OUTCOMES:** an important aspect which serves the environmental Protection. One will obtain knowledge on the following after completing the course.

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REFERENCES:

- 1. R.K. Trivedi, "Handbook of Environmental Laws, Rules, Guidelines, Compliances and Standard",
- Vol.I and II, Enviro Media. Cunningham, W.P. Cooper, T.H. Gorhani, "Environmental Encyclopedia", Jaico Publ., 2. House, Mumbai, 2001.
- Dharmendra S. Sengar, "Environmental law", Prentice Hall of India PVT LTD, New
- 4.Rajagopalan, R, "Environmental Studies-From Crisis to Cure", Oxford University Press 2005

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Appendix – II DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ACTION TAKEN REPORT ON STAKEHOLDERS FEEDBACK 2017-2018

Stakehold er	Feedback	Recommendation	Action taken	
Student	Students suggested the need for job oriented courses, 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 computer education.	Carrier guidance programs were given and counseling cell supported the development of soft skills and communication ability.	
Teacher	Teaching methods and teaching aids must be improved	methods and teaching Suggested for ICT		
Alumni	More emphasis should be on the applications of the opted field of study. Focus more on interdisciplinary activities of many courses.	Suggested for Inter- disciplinary projects.	Inter departmental research initiatives was encouraged.	
Parents	imparted which will help them tostudents to		Mini-Project models and individual presentations by students in the institution were encouraged for in competitions organised by other institutions.	
Employer	Recruiters suggested that the students are be strong in their aptitude skills, as it is the first level of the interview process		Intensive training on aptitude training was planned for the next academic year.	

Date: 21.08.2018

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On Other

Chairperson

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 17th MEETING OF THE BOARD OF STUDIES IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Held on 13.03.2018

Members Present

S.No	Name	Designation	Member	Signature
1.	Dr.G.P.Ramesh	Professor& Head	Chairman	an .
2.	Mrs.T.Anne Ramya	Assistant Professor	Internal Member	Box.
3.	Mrs.R.Gomathi	Assistant Professor	Internal Member	R.4.
4.	Mrs.R.Ranjudha	Assistant Professor	Internal Member	River
5.	Dr.E.Logashanmuga m	Professor, Head, Dept of ECE, Sathyabama University	External Member	Que
6.	Rtn.Er.C.Selvakumar asamy	Director, Labtech Electronics Pvt. Ltd. (Industry)	External Member	86
7.	Dr.P.Nirmal Kumar,	Professor, Dept. of ECE, Anna University (Alumni)	External Member	Dinal

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St. Peter's Institute of Higher Education and Pesezion

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Chairman HEAD

Department of ECE
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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. **L7.1** Considered the minutes of the 16th meeting of Board of Studies in Electronics and Communication Engineering held on 21.08.2017.

RESOLVED that the minutes of the 16th meeting of Board of Studies in Electronics and Communication Engineering held on 21.08.2017 be confirmed.

17.2 Reviewed the Regulation & Syllabi of VII & VIII semesters of B.E(Electronics and Communication Engineering) programmes under the Regulations 2015 with Choice Based Credit System (CBCS).

RESOLVED that the Syllabi of VII & VIII semesters of B.E. (Electronics and Communication Engineering) under the Regulations 2015 with Choice Based Credit System (CBCS) be approved.(Appendix – I)

Considered the new Regulations and Syllabi of I & II semester of B.E. (Electronics and Communication Engineering) on the pattern of AICTE Model Curriculum from the batch of students to be admitted from 2018-19 under the Regulations 2018 with Choice Based Credit System (CBCS).

RESOLVED that the new Regulations and Syllabi of I & II semester of B.E. (Electronics and Communication Engineering) on the pattern of AICTE Model Curriculum from the batch of students to be admitted from 2018-19 under the Regulations 2018 with Choice Based Credit System (CBCS) be approved. (Appendix - II)

17.4 Reviewed the Regulation & Syllabi of M.E. (Communication Systems) programmes under the Regulations 2013 with Choice Based Credit System (CBCS)..

RESOLVED that the Regulation & Syllabi of M.E.(Communication Systems) programmes under the Regulations 2013 with Choice Based Credit System (CBCS) be continued taking into consideration of the suggestions and remarks given by the members to include the new Elective course 313CEPT06 - Ultra Wide Band Communication (Appendix - III).

17.5 Considered the new Regulations and Syllabi of I & II semesters M.E. (Communication Systems) from the batch of students to be admitted from 2018-19 under the Regulations 2018 with Choice Based Credit System (CBCS).

RESOLVED that the new Regulations and Syllabi of I & II semesters M.E. (Communication Systems) from the batch of students to be admitted from 2018-19 under the Regulations 2018 with Choice Based Credit System (CBCS) be approved (Appendix – IV)

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17.6 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 (ECE) programme under the Regulations 2013 & 2015 and M.E. (Communication Systems) under the Regulations 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.

17.7 Considered to include courses having focus on employability/ entrepreneurship /skill development in the syllabi of B.E (ECE) under the Regulations 2013 & 2015 and M.E. (Communication Systems) under the Regulations 2013.

RESOLVED that the courses having focus on employability/ entrepreneurship /skill development year wise in the syllabi of B.E (ECE) under the Regulations 2013 & 2015 and M.E. (Communication Systems) under the Regulations 2013 to be approved.

Considered to include value added courses imparting transferable and life skills offered beyond the curriculum in the syllabi of B.E (Electronics and Communication Engineering) and M.E. (Communication Systems).

RESOLVED that the value added courses imparting transferable and life skills offered beyond the curriculum such as course on "Wireless Physical Layer Design" be approved for the upcoming semester (2018-19 Odd semester).

Date: 13.03.2018

Chairman

HEAD
Department of ECE
St. Peter's Institute of Higher Education and Research
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Appendix - I

B.E (Electronics and Communication Engineering) Regulation -2015 CHOICE BASED CREDIT SYSTEM

VII SEMESTER

		L	T	P	C
Code No.	Course Title				
Theory		3	0	0	3
715ECT01	RF and Microwave Engineering	3	0	0	3
715ECT02	Optical Communication and Networks	3	0	0	3
715ECT03	Wireless Communication	3	0	0	3
	Elective II:		0	0	3
	Elective III:	3		0	3
	Elective IV:	3	0	0	
Practical		0	0	3	2
715ECP01	Embedded Laboratory	0	0	3	2
715ECP02	Optical and Microwave Laboratory	0	0	3	2
715ECP03	Communication and soft skills Lab Total	18	0	9	24

VIII SEMESTER

				Т	P	C
Code No.	Course Title		Ben	-		
Theory			3	0	0	3
815ECT01	Wireless Networks		3	0	0	4
	Elective V:			0	0	1
	Elective VI:		3	0	0	7
Project						
	Project Work	71	0	0	12	6
815ECP01	Viva Voce	-4-1	9	0	12	17
		otal	9	U		

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Appendix - II

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

I SEMESTER

CodeNo.	CourseTitle	L	T					
118CYT01	Chemistry		In I all the	P	C		Marks	5
118MAT02	Mathematics-I	3	1	0	-	CA	EA	Total
118BET03		3	1	0	4	25	75	100
118EGT04	Basic Electrical Engineering Engineering Graphics	3	1	0	4	25	75	100
	& Design	1	3	0	4	25	75	100
118EHT05	English			U	1	25	75	100
118CYP01	Chemistry Lab	3	0	0	3			100
18BEP02	Basic Electrical Engineering	0	0	4	2	25	75	100
6).	Lab	0	0	2	1	25	75	100
18EGP03	Engineering Graphics			-	1	25	75	100
	& Design Lab	0	0	4	2	25		
200	Total	parent of			2	25	75	100
		13	6	10	21	200		
				1.617.2	~-	200	600	800

II SEMESTER

CodeNo.			SEMES	ILK				
	CourseTitle	L	T	P	C			
218PHT01	Physics						Mar	ks
218MAT02	Mathematics-II	3	1	0	4	CA	EA	Total
218PPT03	Progress :	3	1	0	-	25	75	100
	Programming for Problem	3	0		4	25	75	100
218WMT04	Solving Using C and Python Manufacturing Process			0	3	25	75	100
218PHP01	Physics Lab	1	0	0	1			100
218PPP02	Programmin - 6	0	0	4	2	25	75	100
	Programming for Problem Solving Using C and Python	0	0	4		25	75	100
	Lab			7	2	25	75	100
18WMP03	Manufacturing Process Lab			X 4 1 1	7 18 2 19			
	Total	0	0	2	2	25		
		10	2	10	18	25	75	100
					19	175	525	700

Overall percentage change for B.E (Electronics and Communication Engineering):46.77 %

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AVADI, Chennai - 600054. Tamil Nadu.

Phone:044-26558080-84 E-mail:registrar@spiher.ac.in Website:www.spiher.ac.in

NEW COURSES FOR THE ACADEMIC YEAR 2018-2019

B.E. – ELECTRONICS AND COMMUNICATION ENGINEERING

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	ECU	B.E Electronics and Communication Engineering	615ECT10	DIGITAL IMAGE PROCESSING
2	ECU	B.E Electronics and Communication Engineering	715ECT01	RF AND MICROWAVE ENGINEERING
3	ECU	B.E Electronics and Communication Engineering	715ECT02	OPTICAL COMMUNICATION AND NETWORKS
4	ECU	B.E Electronics and Communication Engineering	715ECT03	WIRELESS COMMUNICATION
5	ECU	B.E Electronics and Communication Engineering	715ECT05	ELECTRONIC TESTING
6	ECU	B.E Electronics and Communication Engineering	715ECT11	ELECTRONICS PACKAGING
7	ECU	B.E Electronics and Communication Engineering	715ECT18	HIGH SPEED NETWORKS
8	ECU	B.E Electronics and Communication Engineering	715ECP01	EMBEDDED LABORATORY
9	ECU	B.E Electronics and Communication Engineering	715ECP02	OPTICAL AND MICROWAVE LABORATORY
10	ECU	B.E Electronics and Communication Engineering	715ECP03	COMMUNICATION AND SOFT SKILLS LAB
11	ECU	B.E Electronics and Communication Engineering	815ECT01	WIRELESS NETWORKS
12	ECU	B.E Electronics and Communication Engineering	815ECT04	DATA CONVERTERS
13	ECU	B.E Electronics and Communication Engineering	815ECT08	CRYPTOGRAPHY AND NETWORK SECURITY
14	ECU	B.E Electronics and Communication Engineering	815ECP01	PROJECT WORK

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Appendix - III

M.E (COMMUNICATION SYSTEMS) Regulation -2013 CHOICE BASED CREDIT SYSTEM

313CEPT06 - ULTRAWIDE BAND COMMUNICATION

UNIT I INTRODUCTION TO UWB

History, Definition, FCC Mask, UWB features, UWB Interference: IEEE 802.11.a Interference, Signal to Interference ratio calculation, Interference with other wireless services.

UNIT II UWB TECHNOLOGIES AND CHANNEL MODELS

Impulse Radio , Pulsed Multiband, Multiband OFDM, features : Complexity, Power Consumption, Security and achievable data rate. MIMO Multiband OFDM, Differential multiband ofdm, Performacne characterization Ultra Wide Band Wireless Channels, Channel model: Impulse Response Modeling of UWB Wireless Channels, IEEE UWB channel model, Path loss, Delay profiles, Time and frequency modeling.

UNIT III UWB SIGNAL PROCESSING

Data Modulation schemes, UWB Multiple Access Modulation, BER, Rake Receiver, Transmit-Reference (T-R) Technique, UWB Range- Data Rate Performance, UWB Channel Capacity UWB Wireless Locationing: Position Locationing Methods, Time of Arrival Estimation, NLOS Location Error, Locationing with OFDM

UNIT IV UWB ANTENNAS

Antenna Requirements, Radiation Mechanism of the UWB Antennas, Types of Broad band antennas, Parameters, Analysis of UWB Antennas, Link Budget for UWB System. Design examples of broad band UWB antennas.

UNIT V UWB APPLICATIONS AND REGULATIONS

Wireless Ad hoc Networking, UWB Wireless Sensor, RFID , Consumer Electronics and Personal, Asset Location, Medical applications UWB Regulation and standards in various countries , UWB Regulation in ITU, IEEE Standardization REFERENCES:

- 1. Homayoun Nikookar and Ramjee Prasad, "Introduction to Ultra Wideband for Wireless Communications"1st Edition, Springer Science & Business Media B.V. 2009.
- 2. Thomas Kaiser, Feng Zheng "Ultra Wideband Systems with MIMO", 1st Edition, John Wiley & Sons Ltd, Newyork, 2010.
- 3. W. Pam Siriwongpairat and K. J. Ray Liu, "Ultra-Wideband Communications Systems: Multiband OFDM approach" John Wiley and IEEE press, Newyork 2008.

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Appendix - IV

M.E (COMMUNICATION SYSTEMS) Regulation -2018 CHOICE BASED CREDIT SYSTEM

SEMESTER I

COURSE	COURSE TITLE	L	Т	P	С
THEORY					1
118CEPT01	Advanced Applied Mathematics	3	1	0	4
118CEPT02	Signal Processing and Baseband Techniques	3	1	0	4
118CEPT03	Advanced Radiation Systems	3	1	0	4
118CEPT04	Advanced Modulation and Coding Techniques	3	1	0	4
118CEPT05	Wireless Communication Engineering	3	1	0	4
110021103	ELECTIVE I	3	1	0	4
PRACTICAL					
118CEPP01	Signal Processing and Wireless Communication Laboratory	0	0	3	3
TOTAL	0.3	18	6	3	27

SEMESTER II

COURSE	COURSE TITLE	L	Т	P	С
THEORY					- 63
218CEPT01	Advanced Wireless network	3	1	0	4
218CEPT02	Microwave Integrated Circuits	3	1	0	4
218CEPT03	Wireless Transceiver Design	3	1	0	4
218CEPT04	Optical Switching and Networking	3	1	0	4
22002. 101	ELECTIVE II	3	1	0	4
	ELECTIVE III	3	1	0	4
PRACTICALS					
218CEPP01	RF. Optical and Networks Laboratory	0	0	3	3
218CEPP02	Technical Seminar and Report Writing	0	0	1	1
TOTAL		18	5	5	28

Overall percentage change for M.E (Communication Systems): 76.47%

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NEW COURSES FOR THE ACADEMIC YEAR 2018-2019

M.E. - COMMUNICATION SYSTEM

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	СОР	M.E Communication System	118CEPT01	ADVANCED APPLIED MATHEMATICS
2	СОР	M.E Communication System	118CEPT02	SIGNAL PROCESSING AND BASEBAND TECHNIQUES
3	COP	M.E Communication System	118CEPT03	ADVANCED RADIATION SYSTEMS
4	СОР	M.E Communication System	118CEPT04	ADVANCED MODULATION AND CODING TECHNIQUES
5	СОР	M.E Communication System	118CEPT05	WIRELESS COMMUNICATION ENGINEERING
6	СОР	M.E Communication System	118CEPP01	SIGNAL PROCESSING AND WIRELESS COMMUNICATION LABORATORY
7	СОР	M.E Communication System	218CEPT01	ADVANCED WIRELESS NETWORK
8	COP	M.E Communication System	218CEPT02	MICROWAVE INTEGRATED CIRCUITS
9	COP	M.E Communication System	218CEPT03	WIRELESS TRANSCEIVER DESIGN
10	СОР	M.E Communication System	218CEPT04	OPTICAL SWITCHING AND NETWORKING
11	СОР	M.E Communication System	218CEPP01	RF. OPTICAL AND NETWORKS LABORATORY
12	СОР	M.E Communication System	218CEPP02	TECHNICAL SEMINAR AND REPORT WRITING
13	СОР	M.E Communication System	313CEPT06	ULTRA WIDE BAND COMMUNICATION

HEAD

Department of ECE

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St. Peter's Institute of Higher Education and Research (Deemed to be University U/S 3 of the UGC Act. 1936) Avadi, Chennai-600 054

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

MINUTES OF THE 17th MEETING OF THE BOARD OF STUDIES IN

ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)

Held on 13.03.2018

Members Present

S.No	Name	Designation	Member	Signature
1.	R. Jayaraman	Professor & Head	Chairman	of Julym
2.	Dr. J. Jasper Gnana Chandran	Professor	Internal Member	Justin
3.	Dr. G. Thiyagu	Professor	Internal Member	myn
4.	Dr. K. Balaji	Asso. Professor	Internal Member	* Dais
5.	Mr. S. Saravanan	Assistant Professor	Internal Member	Surening
6.	Dr. Ranthnakannan Kailasam	Professor Department of EEE, Anna University- Chennai.	External Member	Routh
7.	Dr. K. Mohana Sundaram	Dean Research, Vel tech Multitech. Dr. Rangarajan Dr. Sakunthala Engg. College.	External Member	KARY
8.	Dr. C. Kamala Kannan	Managing Director, GK Products. (Industry)	External Member	Carten
9.	Dr. Karthi Kumar	Professor, Builders Association College Thiruppur (Alumni)	External Member	Jeith.

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Avadi, Chennai-600 054.

Chairman

Considered the minutes of the 16th meeting of Board of Studies in Electrical and Electronics Engineering held on 21.08.2017.

RESOLVED that the minutes of the 16th meeting of Board of Studies in Electrical and Electronics Engineering held on 21.08.2017 be confirmed

Reviewed the Regulation & Syllabi of B.E. Electrical and Electronics Engineering programme under the Regulations 2018.

RESOLVED that the Regulation & Syllabi of B.E. Electrical and Electronics Engineering programme under the Regulations 2018 to be continued

17.3 Reviewed the Regulation & Syllabi of M.E (Power Electronics and Drive) programme under the Regulations 2018.

RESOLVED that the Regulation & Syllabi of M.E (Power Electronics and Drive) programme under the Regulations 2018.

17.4 Considered to include courses having focus on employability/ entrepreneurship /skill development in the syllabi of B.E (EEE) under the Regulations 2018 and M.E. (Power Electronics and Drive) under the Regulations 2018.

RESOLVED that the courses having focus on employability/ entrepreneurship /skill development year wise in the syllabi of B.E (EEE) under the Regulations 2018 and M.E. (Power Electronics and Drive) under the Regulations 2018 to be approved.

17.5 Considered to include value added courses imparting transferable and life skills offered beyond the curriculum in the syllabi of B.E (Electrical and Electronics Engineering) and M.E. (Power Electronics and Drive).

RESOLVED that the value added courses imparting transferable and life skills offered beyond the curriculum such as course on "VACEE040 – APPLICATION OF SENSORS IN INDUSTRY" be approved for the upcoming semester (2019-20).

17.6 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 – III)

Bosietus

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Date: 13.0

Chairman

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MINUTES OF THE 17th MEETING OF THE BOARD OF STUDIES IN

MECHANICAL ENGINEERING

Held on 19/3/2018

Members Present

1.	Dr. L. Mahesh Kumar	Chairperson
2.	Dr. P. Periyasamy	Member
3.	Dr. K. Gurusami	Member
4.	Mr. R. Praveen Kumar	Member
5.	Mr. S. Dinesh Kumar	Member
6.	Dr. S. Ranganathan	Member
7.	Dr. k. Purushothaman	Academic Expert Member
8.	Mr. A. Sevakumar	Industry Expert Member

17.1 Considered the minutes of the 16th meeting of Board of Studies in Mechanical Engineering held on 18/8/2017.

RESOLVED that the minutes of the 16th meeting of Board of Studies in Mechanical Engineering held on 18/8/2017 be confirmed.

17.2 Reviewed the Regulation & Syllabi of B.E. Mechanical Engineering programme under the Regulations 2013 with Choice Based Credit System (CBCS).

RESOLVED that the Regulation & Syllabi of B.E. Mechanical Engineering programme under the Regulations 2013 with Choice Based Credit System (CBCS) be continued taking into consideration of the suggestions and remarks given by the members to include the following new Elective courses. (Appendix - I)



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- 1. Quality Control And Reliability Engineering
- 2. Dynamics and Control
- 3. Creep and Fatigue Behavior of Materials
- **17.3** Reviewed the Syllabi of B.E. (Mechanical Engineering) under the Regulations 2013 effected from the batch admitted in 2013 -14.

RESOLVED that the Syllabi of B.E. (Mechanical Engineering) under the Regulations 2013 effected from the batch admitted in 2013 -14 be continued with additions in Unit IV and V of Heat and Mass Transfer-513MET02 in V semester, Unit II and IV of Design of Machine Elements-513MET03 in V semester and Unit I of Computer Integrated Manufacturing Systems-713MET03 in VII semester (Appendix II)

17.3 Considered the new Regulations and Syllabi of I & II semester of B.E. (Mechanical Engineering) on the pattern of AICTE Model Curriculum from the batch of students to be admitted from 2018-19 under the Regulations 2018 with Choice Based Credit System (CBCS).

RESOLVED that the new Regulations and Syllabi of I & II semester of B.E. (Mechanical Engineering) on the pattern of AICTE Model Curriculum from the batch of students to be admitted from 2018-19 under the Regulations 2018 with Choice Based Credit System (CBCS) be approved. (Appendix - III)

17.4 Considered the new Regulation and Syllabi of M.E. (Advanced Manufacturing Technology) on the pattern of AICTE Model Curriculum from the batch of students to be admitted from 2018 – 19 under the Regulation 2018 with Choice Based Credit System (CBCS).

RESOLVED that the new Regulation and Syllabi of M.E. (Advanced Manufacturing Technology) on the pattern of AICTE Model Curriculum from the batch of students to be admitted from 2018 – 19 under the Regulation 2018 be approved (Appendix – IV)

17.5 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.

PRESOLVED that the syllabi of B.E (Mechanical Engineering) programme under the Regulations 2013 and M.E. (Advanced Manufacturing Technology) under the Regulations 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:

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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 17.6 Considered to include courses having focus on employability/entrepreneurship /skill development in the syllabi of B.E (Mechanical Engineering) under the Regulations 2013 and M.E. (Advanced Manufacturing Technology) under the Regulations 2013.

RESOLVED that the courses having focus on employability/ entrepreneurship /skill development year wise in the syllabi of B.E (Mechanical Engineering) under the Regulations 2013 and M.E. (Advanced Manufacturing Technology) under the Regulations 2013 to be approved.

17.7 Considered to include value added courses imparting transferable and life skills offered beyond the curriculum in the syllabi of B.E (Mechanical Engineering) and M.E. (Advanced Manufacturing Technology).

RESOLVED that the value added courses imparting transferable and life skills offered beyond the curriculum such as course on "Plant Layout and Materials Handling" and "Off-Road Utility Vehicle" be approved for the upcoming semester (2018-19 Odd semester).

17.8 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)

Date: 19/3/2017

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Registrar

St. Peter's Institute of Higher Education and Research
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Appendix - I

B.E. (MECHANICAL ENGINEERING) **REGULATION 2013 CHOICE BASED CREDIT SYSTEM**

QUALITY CONTROL AND RELIABILITY ENGINEERING

OBJECTIVES:

- To introduce the concept of SOC
- To understand process control and acceptance sampling procedure and their application.
- To learn the concept of reliability.

INTRODUCTION AND PROCESS CONTROL FOR VARIABLES Introduction, definition of **UNITI** quality, basic concept of quality, definition of SQC, benefits and limitation of SQC, Quality assurance, Quality control: Quality cost-Variation in process causes of variation -Theory of control chart- uses of control chart - Control chart for variables - X chart, R chart and □chart -process capability - process capability studies and simple problems. Six sigma concepts

UNIT II PROCESS CONTROL FOR ATTRIBUTES

Control chart for attributes -control chart for non conformings- p chart and np chart - control chart for nonconformities- C and U charts, State of control and process out of control identification in charts, pattern study.

UNIT III ACCEPTANCE SAMPLING

Lot by lot sampling – types – probability of acceptance in single, double, multiple sampling techniques – O.C. curves - producer"s Risk and consumer"s Risk. AQL, LTPD, AOQL concepts-standard sampling plans for AQL and LTPD- uses of standard sampling plans.

UNIT IV LIFE TESTING - RELIABILITY

Life testing - Objective - failure data analysis, Mean failure rate, mean time to failure, mean time between failure, hazard rate - Weibull model, system reliability, series, parallel and mixed configuration simple problems. Maintainability and availability - simple problems. Acceptance sampling based on reliability test - O.C Curves.

UNIT V QUALITY AND RELIABLITY

Reliability improvements – techniques- use of Pareto analysis – design for reliability – redundancy unit and standby redundancy - Optimization in reliability - Product design - Product analysis - Product development - Product life cycles.

Note: Use of approved statistical table permitted in the examination.

Upon successful completion of this course, the students can able to apply the concept of SQC in process control for reliable component production

TEXT BOOKS:

- 1. Douglas.C. Montgomery, " Introduction to Statistical quality control", 4th edition, John Wiley
- 2. Srinath. L.S., "Reliability Engineering", Affiliated East west press, 1991.

REFERENCES:

- John.S. Oakland. "Statistical process control", 5th edition, Elsevier, 2005
 Connor, P.D.T.O., "Practical Reliability Engineering", John Wiley, 1993
 Grant, Eugene .L "Statistical Quality Control", McGraw-Hill, 1996

- 4. Monohar Mahajan, "Statistical Quality Control", Dhanpat Rai & Sons, 2001.
- 5. Gupta. R.C, "Statistical Quality control", Khanna Publishers, 1997.
- 6. Besterfield D.H., "Quality Control", Prentice Hall, 1993.

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- 7. Sharma S.C., "Inspection Quality Control and Reliability", Khanna Publishers, 1998.
- 8. Danny Samson, "Manufacturing & Operations Strategy", Prentice Hall, 1991 Deemed

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DYNAMICS AND CONTROL

OBJECTIVES

- Learn Low order linear mathematical models of physical systems and their manipulation.
- Know effects of negative feedback dynamic response and its characterization by primary analysis and performance measures.
- Learn Fundamental mathematical tools used in system analysis and design.

UNIT 1: LINEAR SYSTEMS THEORY

Review of time domain analysis of linear systems dynamics - stability, performance measures and design process - state space and process models - example control systems. System Representation in the s-domain: The Laplace transform and system transfer function - free/ forced behaviour and the characteristic equation - system poles and zeros, relative and absolute stability, root loci - steady-state error and the final value theorem.

UNIT 2: FREQUENCY RESPONSE OF LINEAR SYSTEMS

Sinusoidal excitation and Fourier Series - forecasting gain and phase, the frequency response function - graphical representation of frequency response, Bode plots

UNIT 3: CLOSED-LOOP CONTROL SYSTEMS

Open/closed loop transfer function definitions - performance measures in control system design control system design examples - PID control system definitions and characteristics.

UNIT 4: CONTROL SYSTEM STABILITY ANALYSIS

Stability in the s-domain, the Root locus method - stability in the frequency domain, Nyquist criterion - performance measures in the frequency domain - gain and phase margins, closed loop frequency response.

UNIT 5: DESIGN OF FEEDBACK CONTROL SYSTEMS

System compensation objectives and characteristics - lead-lag compensation, root locus and frequency response methods

COURSE OUTCOMES

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

- Derive a model, making justifiable assumptions, from a description of a physical system and determine criteria for desired system performance and interpret trade-offs in different design configurations.
- Analyze time and frequency domain response characteristics from plots, determine stability and predict responses for modified plots.
- Apply standard design techniques to achieve satisfactory closed-loop performance.

TEXT BOOK

- N.S. Nise, Control System Engineering, 3rd edition, Wiley & Sons, ISBN 0-471-36601-3, 2000.
- 2. C. L. Phillips and R. D. Harbor, Feedback Control Systems, 4th Ed., Prentice Hall, 2000. **REFERENCES**
- 1. J. Van de Vegte, Feedback Control Systems, 3rd Ed., Prentice Hall, 1994.
- 2. K. Ogata, Modern Control Engineering, 4th Ed., Prentice Hall, 2002.

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CREEP AND FATIGUE BEHAVIOR OF MATERIALS

OBJECTIVES:

By studying this course the students will learn

- The structure of materials and their defects
- The behaviors of materials when subject to creep and fatigue loads leading to their failure
- The privative methods to be adopted to overcome their failures

UNIT 1: INTRODUCTION

Strength of perfect crystal - Lattice resistance to dislocation movement - Elastic properties of dislocation - Dislocation multiplication - Slip and twinning in crystalline solid.

UNIT 2: HIGH - TEMPERATURE DEFORMATION RESPONSE

Creep Of Solids - Temperature stress - Strain rate relation- Deformation mechanism -Super plasticity deformation mechanism maps – Extrapolation procedure for creep rupture data - materials for elevated temperature rules.

UNIT 3: CYCLIC STRES AND STRAIN FATIGUE

Macrofractrography fatigue failures - cyclic stress and strain controlled fatigue - Fatigue life estimation for notched components – Crack initiation mechanisms.

UNIT 4: FATIGUE CRACK PROPAGATION

Stress and crack lengths correlations with FCP – Fracture modes in Fatigue – Microscopic fracture mechanisms – Crack growth behavior at Δk extremes – Influences – Micro structural aspects of FCP in metal alloys.

UNIT 5: ANALYSIS OF ENGINERING FAILURES

Typical defects - Microscopic surface examination - metallographic and fractographic examination – Component failure analysis – Fracture surface preservation – Cleaning and replication techniques and image interpretation.

CORSE OUTCOMES:

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

- Failure mechanisms due to creep and fatigue.
- The methods to be adopted in the design stage of the product to avoids their failure.
 - 1. Richard. W. Hertzberg," Deformation and Fracture Mechanism of Engineering

John Willey and Sons, 4th edition, 1996.

- 2. Anderson, T. L.," Fracture Mechanics: Fundamentals and Applications", CRC Press, **REFERENCES:**
- 1. Courtney, T. H.," Mechanical Behaviour of Materials", McGraw-Hill, 1990
- 2. Jones, D. R. H," Engineering Materials 3, Materials Failure Analysis- Case Studies and Design Implications", Pergamon, 1993.
- 3. Hull & Bacon "Introduction to Dislocations", 3rd ed., Pergamon Press, 1984.
- 4. Frost & Ashby, "Deformation Mechanism Maps", 1st ed., Pergamon Press, 1982.
- 5. Suresh, S.," Fatigue of Materials", Cambridge University Press, 2 nd edition, 1998.
- 6. Cadek, J.," Creep in Metallic Materials", Elsevier, 1988.
- 7. Ashok Saxena," Nonlinear Fracture Mechanics for Engineers", CRC Press, 1998.



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Appendix II B.E. (MECHANICAL ENGINEERING) REGULATION 2013 CHOICE BASED CREDIT SYSTEM

Following are the changes and amendments in syllabus content of B.E. Mechanical Engineering Regulation-2013.

- 1. Heat and Mass Transfer- 513MET02 in V semester the following change is made:
 - Heat Transfer Applications -Analysis of icing (frosting) of heat transfer surface- Comparison of different turbulence models for flow in a pipe- role of heat transfer (Unit IV)
 - Limitations of heat and mass transfer analogy are included (Unit V)
- 2. Design of Machine Elements- 513MET03 in V semester the following changes are made:
 - Stresses in a Thin Cylindrical Shell due to an Internal Pressure, Circumferential or Hoop Stress, Longitudinal Stress and thick Cylindrical Shell Subjected to an Internal Pressure are included under the pressure vessel topic. (Unit IV)
 - Design of a Lever is included. (Unit II)
 - Rubber spring topic is excluded (Unit IV)
- 3. Computer Integrated Manufacturing Systems- 713MET03 in VII semester the following changes are made:

 Concurrent engineering, Agile and lean manufacturing are included (Unit I)

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Appendix - III **B.E.** (MECHANICAL ENGINEERING) **REGULATION 2018**

CHOICE BASED CREDIT SYSTEM

-	-					
	Se	m	Pe	ŧТ	ρ	r

Code No.	Course Title		L	L T P C		Credit			Marks			
couc no.	304130 11410					Cred		Credits	CA	EA	Total	Combined Total
118PHT01		Theory	Sci.	3	1	0	4		25	75	100	
118PHP01	Physics	Practical	Sci.	0	0	4	2	6	25	75	100	100
118CST02/ (CSE/IT) 118MAT02 (Others)	Mathematics -I	Sci.	3		1	0	4	4	25	75	100	100
118BET03		Theory	Engg.	3	1	0	4		25	75	100	
118BEP02	Basic Electrical Engg.	Practical	Engg.	0	0	2	1	5	25	75	100	100
118EGT04	Engg. Graphics& Design	Theory	Engg.	1	0	0	1		25	75	100	100
118EGP03	C. apcox Debigit	Practical	Engg.	1	0	4	2	3	25	75	100	100
		Total	11		3	10	18	18	175	525	700	400

II Semester

Code No.	Course Title		cat.	L	Т	Р	Credit	Total		Marks		
	course rice							Credit	CA	EA	Total	Combi ned Total
Theory& Practical												
218CYT01	Chemistry	Theory	Sci.	3	1	0	4		25	75	100	100
218CYP01	,,	Practical	Sci.	0	0	4	2	6	25	75	100	100
218CST02(CSE/IT) 218MAT02(Others)	Mathematics -I		Sci.	3	1	0	4	4	25	75	100	100
218PPT03	Programming for Problem	Theory	Engg.	3	0	0	3	_	25	75	100	100
218PPP02	Solving Using C and Python	Practical	Engg.	0	0	4	2	5	25	75	100	100
218WMT04	Manufacturing Practices	Theory	Engg.	1	0	0	1	2	25	75	100	100
218WMP03		Practical	Engg.	0	0	4	2	3	25	75	100	100
218EHT05	English	1	Hum.	2	0	2	3	3	25	75	100	100
218MET06	Engineering Me	chanics	Engg.	3	1	0	4	4	25	75	100	100
	consule of High	Total		15	3	14	25	25	225	675	900	600

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Appendix - IV

M.E. (ADVANCED MANUFACTURING TECHNOLOGY) (Regulations 2018)

Semester I

3	4		1
3	4		
1000	1	0	4
ology 3	1	0	4
cturing3	0	0	4
3	0	0	4
3	0	0	4
3	0	0	4
0	0	4	3
18	2	4	27
	ology 3 cturing 3 3 3	ology 3 1 cturing 3 0 3 0 3 0 3 0 0 0	ology 3 1 0 cturing 3 0 0 3 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0

Semester II

Course Title	L	Т	P	C
Optimization Techniques in Manufacturing	3	1	0	4
Advances in Metrology and Inspection	3	1	0	4
Theory of Metal Forming	3	0	0	4
Tooling for Manufacturing	3	0	0	4
Programme Elective II			0	4
Programme Elective III	3	0	0	4
Automation and Metal Forming	0	0	4	3
Technical Seminar	12			
7-11.	18	2	4	27
	Advances in Metrology and Inspection Theory of Metal Forming Tooling for Manufacturing Programme Elective II Programme Elective III Automation and Metal Forming	Optimization Techniques in Manufacturing 3 Advances in Metrology and Inspection 3 Theory of Metal Forming 3 Tooling for Manufacturing 3 Programme Elective II 3 Programme Elective III 3 Automation and Metal Forming 0 Technical Seminar	Optimization Techniques in Manufacturing 3 1 Advances in Metrology and Inspection 3 1 Theory of Metal Forming 3 0 Tooling for Manufacturing 3 0 Programme Elective II 3 0 Programme Elective III 3 0 Automation and Metal Forming 0 0 Technical Seminar	Optimization Techniques in Manufacturing 3 1 0 Advances in Metrology and Inspection 3 1 0 Theory of Metal Forming 3 0 0 Tooling for Manufacturing 3 0 0 Programme Elective II 3 0 0 Programme Elective III 3 0 0 Automation and Metal Forming 0 0 4 Technical Seminar

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Appendix - V

ACTION TAKEN REPORT ON STAKEHOLDERS FEEDBACK DEPARTMENT OF MECHANICAL ENGINEERING

2017-2018

Program	Stakeholder	Feedback	Recommendation	Action taken
МЕСН	Student	Library facilities must be augmented to meet the current requirement of the students to enable efficient learning.	Suggested to facilitate with journals	Our Library was equipped with lot of SCOPUS, IEEE journals and reprography facilities.
	Teacher	E- Waste recycling must be encouraged among student community.	Student should get awareness about e waste	Students spread awareness about e waste recycling through community education program and extension activities.
	Alumni	Employability skills may be improved.	skill training &Entrepreneursh ip Development	Communication skills training, career action coaching management training leadership training were given to the students
	Parents	Need more exams for formative assessment.	Teachers were encouraged to have more formative assessment of the students.	Teachers put efforts to have more exams for formative assessment.



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	Employer	Suggestion to enhance general communication skills	Teachers incorporated stress on the issues of improvement of communication skills of the students in their teaching of curriculum	Teachers were given instructions to ensure enhancement of communication skills of the students
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AVADI, Chennai – 600054. Tamil Nadu.

Phone:044-26558080-84 E-mail:registrar@spiher.ac.in Website:www.spiher.ac.in

NEW COURSES FOR THE ACADEMIC YEAR 2017-2018

B.E. – MECHANICAL ENGINEERING

C N -	Programme	Programme Name	Course Code	Name of the Course
S.No	Code	B.E Mechanical Engineering	613MET07	QUALITY CONTROL AND RELIABILITY ENGINEERING

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MINUTES OF THE 3 MEETING OF THE BOARD OF STUDIES IN

BIOCHEMISTRY

Held on 12.02.2018

Members Present

S.No	Name	Designation	Member	Signature
				0
1.	Dr Ganesan N	Professor& Head	Chairman	Marhill
2.	Mr. Vijay Anand	Assistant Professor	Internal Member	mh
3.	Ms.BV.Febiyola	Assistant Professor	Internal Member	
4.	Dr. D. Saravanan	Assistant Professor Department of Biochemistry D.G.Vaishnav College,Chennai 106	External Member	P.S.L.
5.	Dr. S. J. Selvaraj	Scientist E Meenakshi Ammal Dental College, MAHER	The annual terms of the second	Almany

(Deemed to be University U/S 3 of the UGC Act. 1958). Peter's Institute of Higher Education & Research

Avail. Chemistry 600 05 Act. St. Peter's Institute of Higher Education and Research Avadi, Chennai-600 054

Head of the

Biochemistry

Avadi, Chennai - 600 054.

3.1 Considered the minutes of the 2 meeting of Board of Studies in BIOCHEMISTRY held on 25.09.2017.

RESOLVED that the minutes of the 2^m meeting of Board of Studies in BIOCHEMISTRY held on 25.09.2017 be confirmed

&2 Reviewed the Regulation & Syllabi III & IV of B.Sc. BIOCHEMISTRY programme under the Regulations 2016 with Choice Based Credit System (CBCS).

RESOLVED that the Regulation & Syllabi of III & IV of B.Sc. BIOCHEMISTRY programme under the Regulations 2016 with Choice Based Credit System (CBCS) be continued (Appendix I)

3.3 Reviewed the Regulation & Syllabi of III & IV of M.Sc. BIOCHEMISTRY programme under the Regulations 2016 with Choice Based Credit System (CBCS).

RESOLVED that the Regulation & Syllabi of III & IV of M.Sc. BIOCHEMISTRY programme under the Regulations 2016 with Choice Based Credit System (CBCS) be continued. (Appendix-II)

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 "Environmental Toxicology" be approved for the upcoming semester (2018-19 – Odd semester).

Date: 12.02.2018

Head of the Department

Biochemistry
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DEPARTMENT OF BIOCHEMISTRY **B.Sc BIOCHEMISTRY**

III Semester

			Credits	CA	EA	Total
Code No. 316UTMT01 / UTET01 /	Part I: Languag -III / Hindi -III/	ge -III (Tamil -III / Telugu French -III)	3	25	75	100
316UFRT01 316UEHT02 316UBYT03	Part II : Englis	Chemistry of	3 5	25 25	75 75	100
316UBYT04	Core Subject:	Biomolecules I III: Microbiology – I	3 2	25	75	100
316UCCT03	Soft Skills (Co	mmon to all UG Branches) Tota	16	150	350	500

IV SEMESTER

		Credits	CA	EA	Tot
Code No.	Course Title		25	75	1
416UTMT01 / UTET01/ UHIT01	Language -IV (Tamil -IV / Telugu - IV / Hindi-IV / French -IV)	3			
/ 416UFRT01		3	25	75	
416UEHT02	English –IV Core Chemistry of Biomolecules- II	5	25	75	
416UBYT03	Core Subject Core Practical II	4	40	60	
416UBYP01	: Core Practicul	3	25	75	
416UBYT04	Allied Paper- IV: Microbiology - II	4	40	60	
416UBYP02	Allied Practical : Microbiology	n 2	25	75	
416UEST01	PART IV:Environmental Studies (Common to all UG Branches)		F0	50	+
	Soft Skills (Common to all UG Branches)	2	50	545	
416UCCT04	Total	1 26	255		

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M.Sc BIOCHEMISTRY

III Semester

		III Semester			Marks	
			Credit	CA	EA	Total
Code No.	Course Title		1	25	75	100
Theory		Biotechnology	4	25	75	100
316PBYT01	Core	Clinical Biochemistry I	4	25	75	100
316PBYT02	sub:	Molecular Biology	4	25	75	100
316PBYT03	Floctive Par	III: Biostatistics	4	25	75	100
316PBYT04	Disci	plinary - II: Life Style — diseases	4			
316PBYT05	Prevention		20	125	375	500
	Total					
	Total					

IV Semester

		IV Semester		I	Marks	
			Credit	CA	EA	Total
Code No.	Course Title	e		25	75	100
Theory		- angs	4	25	75	100
416PBYT01	Core	Hormones Clinical Biochemistry - II	4	40	60	100
416PBYT02	-	Practical - III	2	40	60	100
416PBYP01	1	Project and Viva	2	25	75	100
416PBYP02		Paper - IV: Signal transduction	4	25	75	100
416PBYT03	Elective	Paper - V : Immunochemistry	4	180	420	600
416PBYT04	Elective	Paper - V . IIII	20			
	Total					

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MINUTES OF THE 19th MEETING OF THE BOARD OF STUDIES IN **COMPUTER SCIENCE & APPLICATIONS**

Held on 13.03.2019

Members Present

S.No	Name	Designation	Member	Signature
1.	Dr. R.Latha	Professor& Head	Chairperson	Delis
2.	Mrs.S.Brindha	Assistant Professor	Internal Member	S. Mar.
3.	Mr. M.C.Babu	Assistant Professor	Internal Member	QQ.
4.	Mrs. R.Subhashni	Assistant Professor	Internal Member	R. bus
5.	Dr.S.Sasikala	Professor	External Member	S. Smeet
6.	Mr.M.E.Thyagarajan	Co-Founder of Radiare software solutions, Ch.	External Member	Herrympai

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Registrar

Chairperson

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.

19.1 Considered the minutes of the 18 th meeting of Board of Studies in Capplications and Computer Science held on 23.8.2018. RESOLVED that the minutes of the 18 th meeting of Board of Sturcomputer Applications held on 13.03.2019 to be confirmed 19.2 Considered the provision for the students of B.CA and B.Sc(CS) private study for the Non – Tamil and Non –English languages. RESOLVED that the the provision for the students of B.CA and B.Sc have private study for the Non – Tamil and Non –English languapproved. 19.3 Reviewed the Regulation & Syllabi of B.C.A and B.Sc(CS) programme the Regulations 2016 with Choice Based Credit System (CBCS). RESOLVED that the Syllabi of B.C.A B.C.A and B.Sc(CS) programme the Regulations 2016 with Choice Based Credit System (CBCS). RESOLVED that the Syllabi and course structure of M.Sc(CS) programme the Regulations 2016 with Choice Based Credit System (CBCS). RESOLVED that the Syllabi and course structure of M.Sc(CS) programme the Regulations 2016 with Choice Based Credit System (CBCS). RESOLVED that the Syllabi and course structure of M.Sc(CS) programme the Regulations 2016 with Choice Based Credit System (CBCS). RESOLVED that the Syllabi and course structure of M.Sc(CS) programme to consideration of the suggestions and remarks of the members to include following new courses. (Appendix - I) 19.5 Reviewed the curricula developed having relevance to local/national/regional/global developmental needs with learning ob including programme outcomes, program specific outcomes and outcomes of all the programmes be approved. RESOLVED that the syllabi of B.C.A programme under the Regulations 2016 and M programme under the Regulations 2016 developed having relevance local/national/regional/global developmental needs with learning ob including programme outcomes, program specific outcomes and outcomes of all the programmes be approved. 19.6 Considered to include courses having focus on employ entrepreneurship /skill development in the syllabi of B.C.A unc Regulations 2016, B.Sc(CS
Computer Applications held on 13.03.2019 to be confirmed 19.2 Considered the provision for the students of B.CA and B.Sc(CS) private study for the Non – Tamil and Non –English languages. RESOLVED that the the provision for the students of B.CA and B.S have private study for the Non – Tamil and Non –English languapproved. 19.3 Reviewed the Regulation & Syllabi of B.C.A and B.Sc(CS) programmed the Regulations 2016 with Choice Based Credit System (CBCS). RESOLVED that the Syllabi of B.C.A B.C.A and B.Sc(CS) programmed the Regulations 2016 with Choice Based Credit System (CBCS). RESOLVED that the Syllabi and course structure of M.Sc(CS) programmed the Regulations 2016 with Choice Based Credit System (CBCS). RESOLVED that the Syllabi and course structure of M.Sc(CS) programmed the Regulations 2016 with Choice Based Credit System (CICCONTINUED that the Syllabi and course structure of M.Sc(CS) programmed the members to include following new courses. (Appendix - I) 19.5 Reviewed the curricula developed having relevance to local/national/regional/global developmental needs with learning ob including programme outcomes, program specific outcomes and outcomes of all the programmes. RESOLVED that the syllabi of B.C.A programme under the Regulations 2016 and M programme under the Regulations 2016 developed having relevance local/national/regional/global developmental needs with learning ob including programme outcomes, program specific outcomes and outcomes of all the programmes be approved. 19.6 Considered to include courses having focus on employ entrepreneurship /skill development in the syllabi of B.C.A unce Regulations 2016, B.Sc(CS) under the Regulations 2016, M.Sc(CS)
RESOLVED that the the provision for the students of B.CA and B.S have private study for the Non – Tamil and Non –English languapproved. 19.3 Reviewed the Regulation & Syllabi of B.C.A and B.Sc(CS) programm the Regulations 2016 with Choice Based Credit System (CBCS). RESOLVED that the Syllabi of B.C.A B.C.A and B.Sc(CS) programm the Regulations 2016 with Choice Based Credit System (CBCS) continued. 19.4 Reviewed the Syllabi and course structure of M.Sc(CS) programme the Regulations 2016 with Choice Based Credit System (CBCS). RESOLVED that the Syllabi and course structure of M.Sc(CS) programme the Regulations 2016 with Choice Based Credit System (CBCS). RESOLVED that the Syllabi and course structure of M.Sc(CS) programme under the Regulations 2016 with Choice Based Credit System (Classification of the suggestions and remarks of the members to include following new courses. (Appendix - I) 19.5 Reviewed the curricula developed having relevance to local/national/regional/global developmental needs with learning obtincluding programme outcomes, program specific outcomes and outcomes of all the programmes. RESOLVED that the syllabi of B.C.A programme under the Regulations 2016 and M programme under the Regulations 2016 developed having relevance local/national/regional/global developmental needs with learning obtincluding programme outcomes, program specific outcomes and outcomes of all the programmes be approved. 19.6 Considered to include courses having focus on employ entrepreneurship /skill development in the syllabi of B.C.A unce Regulations 2016, B.Sc(CS) under the Regulations 2016, M.Sc(CS)
19.3 Reviewed the Regulation & Syllabi of B.C.A and B.Sc(CS) programme the Regulations 2016 with Choice Based Credit System (CBCS). RESOLVED that the Syllabi of B.C.A B.C.A and B.Sc(CS) programme the Regulations 2016 with Choice Based Credit System (CBCS) continued. 19.4 Reviewed the Syllabi and course structure of M.Sc(CS) programme the Regulations 2016 with Choice Based Credit System (CBCS). RESOLVED that the Syllabi and course structure of M.Sc(CS) progunder the Regulations 2016 with Choice Based Credit System (CBCS). RESOLVED that the Syllabi and course structure of M.Sc(CS) progunder the Regulations 2016 with Choice Based Credit System (Clanding Continued taking into consideration of the suggestions and remarks of the members to include following new courses. (Appendix - I) 19.5 Reviewed the curricula developed having relevance to local/national/regional/global developmental needs with learning obtincluding programme outcomes, program specific outcomes and outcomes of all the programmes. RESOLVED that the syllabi of B.C.A programme under the Regulations 2016 and M programme under the Regulations 2016 developed having relevance local/national/regional/global developmental needs with learning obtincluding programme outcomes, program specific outcomes and outcomes of all the programmes be approved. 19.6 Considered to include courses having focus on employ entrepreneurship /skill development in the syllabi of B.C.A unce Regulations 2016, B.Sc(CS) under the Regulations 2016, M.Sc(CS)
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the Regulations 2016 with Choice Based Credit System (CBCS continued. 19.4 Reviewed the Syllabi and course structure of M.Sc(CS) programme the Regulations 2016 with Choice Based Credit System (CBCS). RESOLVED that the Syllabi and course structure of M.Sc(CS) progunder the Regulations 2016 with Choice Based Credit System (Cl continued taking into consideration of the suggestions and remarks of the members to include following new courses. (Appendix - I) 19.5 Reviewed the curricula developed having relevance to local/national/regional/global developmental needs with learning obtincluding programme outcomes, program specific outcomes and outcomes of all the programmes. RESOLVED that the syllabi of B.C.A programme under the Regulations 2016 and M programme under the Regulations 2016 developed having relevance local/national/regional/global developmental needs with learning obtincluding programme outcomes, program specific outcomes and outcomes of all the programmes be approved. 19.6 Considered to include courses having focus on employ entrepreneurship /skill development in the syllabi of B.C.A unconsidered to include courses having focus on employ entrepreneurship /skill development in the syllabi of B.C.A unconsidered to include courses having focus on employ entrepreneurship /skill development in the syllabi of B.C.A unconsidered to include courses having focus on employ entrepreneurship /skill development in the syllabi of B.C.A unconsidered to include courses having focus on employ entrepreneurship /skill development in the syllabi of B.C.A unconsidered to include courses having focus on employ entrepreneurship /skill development in the syllabi of B.C.A unconsidered to include courses having focus on employent entrepreneurship /skill development in the syllabi of B.C.A unconsidered to include courses having focus on employent entrepreneurship /skill development in the syllabi of B.C.A unconsidered to include courses having focus on employed.
the Regulations 2016 with Choice Based Credit System (CBCS). RESOLVED that the Syllabi and course structure of M.Sc(CS) progunder the Regulations 2016 with Choice Based Credit System (Cl continued taking into consideration of the suggestions and remarks of the members to include following new courses. (Appendix - I) 19.5 Reviewed the curricula developed having relevance to local/national/regional/global developmental needs with learning obtincluding programme outcomes, program specific outcomes and outcomes of all the programmes. RESOLVED that the syllabi of B.C.A programme under the Regulations 2016 and M programme under the Regulations 2016 developed having relevance local/national/regional/global developmental needs with learning obtincluding programme outcomes, program specific outcomes and outcomes of all the programmes be approved. 19.6 Considered to include courses having focus on employ entrepreneurship /skill development in the syllabi of B.C.A uncontent of the Regulations 2016, B.Sc(CS) under the Regulations 2016, M.Sc(CS)
under the Regulations 2016 with Choice Based Credit System (Cl continued taking into consideration of the suggestions and remarks of the members to include following new courses. (Appendix - I) 19.5 Reviewed the curricula developed having relevance to local/national/regional/global developmental needs with learning obtaincluding programme outcomes, program specific outcomes and outcomes of all the programmes. RESOLVED that the syllabi of B.C.A programme under the Regulations 2016, B.Sc(CS) programme Under the Regulations 2016 and M programme under the Regulations 2016 developed having relevance local/national/regional/global developmental needs with learning obtaincluding programme outcomes, program specific outcomes and outcomes of all the programmes be approved. 19.6 Considered to include courses having focus on employ entrepreneurship /skill development in the syllabi of B.C.A unconsidered to include courses having focus on employ entrepreneurship /skill development in the syllabi of B.C.A unconsidered to include courses having focus on employ entrepreneurship /skill development in the syllabi of B.C.A unconsidered to include courses having focus on employent entrepreneurship /skill development in the syllabi of B.C.A unconsidered to include courses having focus on employent entrepreneurship /skill development in the syllabi of B.C.A unconsidered to include courses having focus on employent entrepreneurship /skill development in the syllabi of B.C.A unconsidered to include courses having focus on employent entrepreneurship /skill development in the syllabi of B.C.A unconsidered to include courses having focus on employent entrepreneurship /skill development in the syllabi of B.C.A unconsidered to include courses having focus on employent entrepreneurship /skill development in the syllabi of B.C.A unconsidered to include courses having focus on employent entrepreneurship /skill development in the syllability focus of the course focus of the course focus of the course focus of the course focus of the cour
local/national/regional/global developmental needs with learning obtincluding programme outcomes, program specific outcomes and outcomes of all the programmes. RESOLVED that the syllabi of B.C.A programme under the Reg 2016,B.Sc(CS) programme Under the Regulations 2016 and M programme under the Regulations 2016 developed having relevance local/national/regional/global developmental needs with learning obtincluding programme outcomes, program specific outcomes and outcomes of all the programmes be approved. 19.6 Considered to include courses having focus on employ entrepreneurship /skill development in the syllabi of B.C.A unconsidered syllability (CS) and the Regulations 2016, B.Sc(CS) under the Regulations 2016, M.Sc(CS)
2016,B.Sc(CS) progrmme Under the Regulations 2016 and M programme under the Regulations 2016 developed having relevance local/national/regional/global developmental needs with learning ob including programme outcomes, program specific outcomes and outcomes of all the programmes be approved. 19.6 Considered to include courses having focus on employ entrepreneurship /skill development in the syllabi of B.C.A under Regulations 2016, B.Sc(CS) under the Regulations 2016, M.Sc(CS)
entrepreneurship /skill development in the syllabi of B.C.A und Regulations 2016, B.Sc(CS) under the Regulations 2016, M.Sc(CS)
the Regulations 2016.
RESOLVED that the courses having focus on employ entrepreneurship /skill development year wise in the syllabi of B.Sc(CS),M.Sc(CS) under the Regulations 2016 to be approved.



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19.7	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).						
	RESOLVED 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 (2017-18 Odd semester).						
19.8	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 – III)						

Date: 13.03.2019

Chairperson

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AVADI, Chennai - 600054. TamilNadu.

Phone:044-26558080-84 E-mail:registrar@spiher.ac.in Website:www.spiher.ac.in

NEW COURSES FOR THE ACADEMIC YEAR 2018-2019

B.Sc. – COMPUTER SCIENCE

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	CPU	B.Sc Computer Science	516UCST01	OPERATING SYSTEMS
2	CPU	B.Sc Computer Science	516UCST02	DATABASE MANAGEMENT SYSTEMS
3	CPU	B.Sc Computer Science	516UCST03	COMPUTER ARCHITECTURE AND ORGANIZATION
4	CPU	B.Sc Computer Science	516UCSP01	RDBMS LAB
5	CPU	B.Sc Computer Science	516UCST06	RDBMS WITH ORACLE
6	CPU	B.Sc Computer Science	616UCST01	DATA COMMUNICATION AND NETWORKING
7	CPU	B.Sc Computer Science	616UCST02	WEB TECHNOLOGY
8	CPU	B.Sc Computer Science	616UCSP01	WEB APPLICATIONS LAB
9	CPU	B.Sc Computer Science	616UCST05	SOFTWARE TESTING
10	CPU	B.Sc Computer Science	616UCST09	SOFTWARE ENGINEERING
11	CPU	B.Sc Computer Science	516UCST05	VISUAL PROGRAMMING
12	CPU	B.Sc Computer Science	516UCST07	UNIX PROGRAMMING
13	CPU	B.Sc Computer Science	616UCST04	DATA MINING
14	CPU	B.Sc Computer Science	616UCST06	OBJECT ORIENTED ANALYSIS AND DESIGN



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NEW COURSES FOR THE ACADEMIC YEAR 2018-2019

BACHELOR OF COMPUTER APPLICATION

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	CAU	Bachelor of Computer Science and Application	516UCAT01	DATABASE MANAGEMENT SYSTEM
2	CAU	Bachelor of Computer Science and Application	516UCAT02	SOFTWARE ENGINEERING
3	CAU	Bachelor of Computer Science and Application	516UCAT03	RESOURCE MANAGEMENT TECHNIQUES
4	CAU	Bachelor of Computer Science and Application	516UCAP01	RDBMS LAB
5	CAU	Bachelor of Computer Science and Application	516UCAT05	RDBMS WITH ORACLE
6	CAU	Bachelor of Computer Science and Application	616UCAT01	WEB TECHNOLOGY
7	CAU	Bachelor of Computer Science and Application	616UCAT02	DATA COMMUNICATION AND NETWORKING
8	CAU	Bachelor of Computer Science and Application	616UCAT03	SOFTWARE TESTING
9	CAU	Bachelor of Computer Science and Application	616UCAP01	WEB APPLICATIONS LAB
10	CAU	Bachelor of Computer Science and Application	616UCAT06	OBJECT ORIENTED ANALYSIS AND DESIGN
11	CAU	Bachelor of Computer Science and Application	616UCAT07	MULTIMEDIA SYSTEMS
12	CAU	Bachelor of Computer Science and Application	616UCAT08	CLIENT SERVER COMPUTING
13	CAU	Bachelor of Computer Science and Application	616UCAT09	DISTRIBUTED COMPUTING



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BACHELOR OF COMPUTER SCIENCE 2016 REGULATIONS

I Semester

			Credit		Mark	S
Code No.	Course Titl	e		CA	EA	Total
116UTMT01 / UTET01/UHIT01	Part I: Lan	Part I: Language -I (Tamil / Telugu / Hindi)			75	100
116UEHT02	Part II: Eng	glish –I	3	25	75	100
116UCST03	Part III:	Programming in C	4	25	75	100
116UCSP01	Core Sub:	Practical – I: Programming in C	4	40	60	100
116UCST04	Allied Pape	er -I: Mathematics - I	5	25	75	100
116UCST05	Non Major	Non Major Elective		25	75	100
116UCCT01	Soft Skills (oft Skills (Common to all UG Branches)		50	50	100
		Tota	23	215	485	700

Non Major Electives:

- 1. Business and Office Applications
- 2. MS ACCESS
- 3. FLASH
- 4. HTML

II Semester

Code No.	Course Title			Credits	Marks		
					CA	EA	Total
216UTMT01/ UTET01/UHIT01	Part I : Lan	art I: Language -II (Tamil / Telugu / Hindi)				75	100
216UEHT02	Part II : En	glish –II		3	25	75	100
216UCST03	Part III:	Digital Electronics & Microprocessor		4	25	75	100
216UCSP01	Core Sub:	Practical – II: Digital Electronics & Microprocessors Lab		4	40	60	100
216UCST04	Allied Pape	r -II: Mathematics - II		5	25	75	100
216UCSP02	Non Major	Elective :		2	40	60	100
216UCCT02	Soft Skills (0	Common to all UG Branches)		2	50	50	100
			Total	23	230	470	700

Non Major Electives: (Common to B.Sc. (CS) & BCA)

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- 1. Business and Office Applications Lab
- 2. MS ACCESS Lab
- 3. FLASH Lab
- 4. HTML Lab

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III Semester

					Mark	5
Code No.	Course Title			CA	EA	Tota I
316UTMT01/ UTET01/UHIT01	Part I: Lang	Part I: Language -III (Tamil / Telugu / Hindi)			75	100
316UEHT02	Part II: Eng	Part II: English -III		25	75	100
316UCST03	Part III:	Programming in C++ and Data Structures	4	25	75	100
316UCSP01	Core Sub:	Practical – III: Data Structures using C++	4	40	60	100
316UCST04	Allied Pape	er: Paper –I: Physics I	5	25	75	100
316UCSP01	Allied Prac	Allied Practical: Physics - I		50	50	100
316UCCT03	Soft Skills (0	Soft Skills (Common to all UG Branches)		50	50	100
		Total	23	240	460	700

IV Semester

		1v Semester				
				18.1	Mark	s
Code No.	Course Title			CA	EA	Total
416UTMT01 / UTET01 / UHIT01	Part I: Languag	Part I: Language -IV (Tamil / Telugu / Hindi)			75	100
416UEHT02	Part II: English	-IV	3	25	75	100
416UCST03	Part III:	Programming in JAVA	4	25	75	100
416UCSP01	Core Sub:	Practical – IV: Java Programming Lab	4	40	60	100
416UCST04	Allied Paper: P	aper – II : Physics II	5	25	75	100
416UCSP02	Allied Practical	: Physics - II	2	50	50	100
416UEST01	PART IV: Environment of the Branches)	onmental Studies (Common to all UG	2	25	75	100
416UCCT04	Soft Skills (Com	mon to all UG Branches)	2	50	50	100
		Total	25	265	535	800

V Semester

			Credit	Marks		
Code No.	Course Title			CA	EA	Total
516UCST01		Operating Systems	4	25	75	100
516UCST02	Core	Database Management Systems	4	25	75	100
516UCST03	Sub:	Computer Architecture and Organization	4	25	75	100
516UCSP01		Practical - V: RDBMS Lab	4	40	60	100
516UCST05	Elective -	·I:	5	25	75	100
516UVET01	516UVET01 Value Education (Common to all UG Branches)		2	25	75	100
		Total	23	165	385	600

VI Semester

	Course Title				Mark	5
Code No.				CA	EA	Total
616UCST01		Data Communication and Networking	4	25	75	100
616UCST02	Core Sub:	Web Technology	4	25	75	100
616UCSP01		Practical - VI: Web Appl cations Lab	4	40	60	100
616UCST06	Elective - 1	I:	5	25	75	100
616UCST09	Elective - J	Migher a	5	25	75	100
616UEAT01	Extension A	tivities (Common to all UG Branches)	1	=3	-	-
	138	to be the Registrar Total	23	140	360	500

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BACHELOR OF COMPUTER APPLICATIONS 2016 REGULATIONS **I Semester**

				Marks		
Code No.	Course Title Part I: Language -I (Tamil / Telugu / Hindi)		Credit	CA	EA	Total
116UTMT01/			3	25	75	100
UTET01/UHIT01		· · ·	3	25	75	100
116UEHT02	Part II: Eng	ish -1	4	25	75	100
116UCAT03	Part III:	Fundamentals of Digital Computers	4	40	60	100
116UCAP01	Core Sub:	Practical - I: PC Software Lab	5	25	75	100
116UCAT04	Allied Pape	r -I: Mathematics - I	2	25	75	100
116UCST05	Non Major I	Elective:	2	50	50	100
116UCCP01	Soft Skills (C	Common to all UG Branches) Total	23	215	485	700

NON MAJOR ELECTIVE:

- 1. MS ACCESS
- 2. Web Applications
- 3. FLASH
- 4. HTML

II Semester

			Marks		
Course Title		Credit	CA	EA	Total
		3	25	75	100
Part I: Language	-II (Tamil / Telugu / Hillur)				
	11	3	25	75	100
	-II	4	25	75	100
	Programming in C Lab	4	40	60	100
		5	25	75	100
Allied Paper -II:	: Mathematics II		40	60	100
Non Major Electi	ive:	11	1.00	50	100
Soft Skills (Comm	on to all UG Branches)	_		470	700
	Part II: English - Part III: Core Sub: Allied Paper -II Non Major Electi	Part I: Language -II (Tamil / Telugu / Hindi) Part II: English -II Part III: Programming in C	Part I: Language -II (Tamil / Telugu / Hindi) Part II: English -II Part III: Programming in C Core Sub: Practical - II: Programming in C Lab Allied Paper -II: Mathematics II Non Major Elective: 2 Soft Skills (Common to all UG Branches) 2	Course Title CA Part I : Language -II (Tamil / Telugu / Hindi) 3 25 Part III : English -II 3 25 Part III : Programming in C 4 25 Core Sub: Practical - II: Programming in C Lab 4 40 Allied Paper -II: Mathematics II 5 25 Non Major Elective : 2 40 Soft Skills (Common to all UG Branches) 2 50	Course Title CA EA Part I: Language -II (Tamil / Telugu / Hindi) 3 25 75 Part II: English -II 3 25 75 Part III: Programming in C 4 25 75 Core Sub: Practical – II: Programming in C Lab 4 40 60 Allied Paper –II: Mathematics II 5 25 75 Non Major Elective: 2 40 60 Soft Skills (Common to all UG Branches) 2 50 50

NON MAJOR ELECTIVE:

- 1. MS ACCESS Lab
- 2. Web Applications Lab

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- 3. FLASH Lab
- 4. HTML Lab

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III Semester

				Marks		
Code No.	Course Title		Credit	CA	EA	Total
316UCAT01		Programming in C++ and Data Structures	4	25	75	100
316UCAT02	Core Sub:	Microprocessors and its Applications	4	25	75	100
316UCAT03		Numerical and Statistical Methods	4	25	75	100
316UCAP01		Practical – III: Programming in C++	3	40	60	100
DA CHICATOA	Alliad Dana	using Data structures	4	25	75	100
316UCAT04		r – III : Financial Accounting	2	50	50	100
316UCCP03	Soft Skills (C	Tommon to all UG Branches) Total	21	190	410	600

IV Semester

		TA Selliestei				
Code No.	Course Title			Marks		
			Credit	CA	EA	Total
416UCAT01		Programming in Java	4	25	75	100
416UCAT02	Core Sub:	Operating System	4	25	75	100
416UCAT03		Computer Graphics	4	25	75	100
416UCAP01		Practical – IV: Java Programming Lab	4	40	60	100
416UCAT04	Allied Pape Accounting	r - IV : Cost and Management	4	25	75	100
416UEST01		nvironmental Studies (Common to all UG	2	25	75	100
	Branches)					
416UCCP04		Common to all UG Branches)	2	50	50	100
	1	To	tal 24	215	485	700

V Semester

Code No.			Marks			
	Course Title			CA	EA	Total
516UCAT01		Database Management System	4	25	75	100
516UCAT02	Core Sub:	Software Engineering	4	25	75	100
516UCAT03		Resource Management Techniques	4	25	75	100
516UCAP01		Practical - V: RDBMS Lab	4	40	60	100
51000/1101	Elective - I		4	25	75	100
		on (Common to all UG Branches)	2	25	75	100
510011101	Value Zunen	Total	22	165	435	600

VI Semester

				Marks			
Code No.	Course	Title	Credit	CA	EA	Total	
616UCAT01		Web Technology	4	25	75	100	
616UCAT02	Core Sub:	Data Communication and Networking	4	25	75	100	
616UCAT03		Software Testing	4	25	75	100	
616UCAP01		Practical - VI: Web Applications Lab	4	40	60	100	
	Elective	- II :	4	25	75	100	
	Elective	100	4	25	75	100	
616UEAT01		n Activities (Common to all UG Branches)	1	-	-	-	
		Higher For Total	25	165	435	600	

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AVADI, CHENNAI – 600 054. MINUTES OF THE 5th MEETING OF THE BOARD OF STUDIES IN

CHEMISTRY

Held on 16th March, 2018

Members Present

(1) Dr. Sayeeda Sultana, Professor & Head

Chairperson

(2) Dr. S. Ramabadran, Assistant Professor

Internal Member

(3) Dr.N.Indra Gandhi, Associate Professor Department of Chemistry, Presidency College, Chennai External Member

(4) Dr.Anitha, Associate Professor Department of Chemistry, Queen Mary's College, Chennai

External Member

Chemiai	
5.1	Considered the minutes of the 4 th meeting of Board of Studies in
	Chemistry held on 24.08.2017.
	RESOLVED that the minutes of the 4 th meeting of Board of Studies in
	Chemistry held on 24.08.2017 be confirmed.
5.2	Reviewed Syllabi of Engineering Chemistry prescribed for Engineering
	and Technology programmes under the Regulations 2013, 2015 and 2017.
	RESOLVED that the Syllabi of Engineering Chemistry prescribed for
	Engineering and Technology programmes under the Regulations 2013
	2015 and 2017 be continued.
5.3	Considered the Syllabi of Engineering Chemistry prescribed for
	Engineering and Technology programmes under the Regulations 2018.
	RESOLVED that the Syllabi of Engineering Chemistry prescribed for
	Engineering and Technology programmes under the Regulations 2018 be
	approved.(Appendix I)
5.4	Reviewed the Regulation & Syllabi of V & VI Semester of B.Sc
	Chemistry programme under the Regulations 2016.
	RESOLVED that the Regulation & Syllabi of V & VI Semester of B Sc
	Chemistry programme under the Regulations 2016 be continued
	(Appendix - II)
5.5	Considered the Regulation & Syllabi of I & II Semester of B.Sc Chemistry
	programme under the new Regulations 2018.
	RESOLVED that the Regulation & Syllabi of I & II Semester of B Sc
	Chemistry programme under the new Regulations 2018 be approved.
	(Appendix - III)
5.6	Reviewed the Regulation & Syllabi of M.Sc Chemistry programme under
	the Regulations 2016.
	RESOLVED that the Regulation & Syllabi of III & IV Semester of M.Sc
	Chemistry programme under the Regulations 2016 be continued.
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St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH B.E/B.Tech - All Branches

Regulations 2018

REGULATIONS AND SYLLABI UNDER CHOICE BASED CREDIT SYSTEM

(Effective from the Academic Year 2018-2019)

		L	T	P	C	Total Marks
118CYT01 /218CYT01	CHEMISTRY	3	0	0	3	100

PREREQUISITES: Nil

COURSE OBJECTIVES

- To make the students conversant with atomic and molecular structure.
- To develop an understanding on the concepts of spectroscopic techniques and their applications.
- To understand the use of free energy in chemical equilibrium.
- To have thorough knowledge on periodic properties.
- To understand the basic concepts of stereochemistry, organic reactions and synthesis of a drug molecule.

MODULE I ATOMIC AND MOLECULAR STRUCTURE

Quantum mechanics -. Basics and significance-Schrodinger equation — Particle in one dimensional box-Molecular orbital theory- Molecular orbital diagrams of homonuclear and heteronuclear diatomic molecules. Energy level diagrams of diatomic pi-molecular orbitals of butadiene and benzene and aromaticity. Crystal field theory and the energy level diagrams for transition metal ions and their magnetic properties. Band structure of solids and the role of doping on band structures.

MODULE II SPECTROSCOPIC TECHNIQUES AND APPLICATIONS

Principles of spectroscopy and selection rules. Electronic spectroscopy and their applications for conjugated molecules and nanoparticles. Fluorescence and its applications in medicine. Vibrational and rotational spectroscopy of diatomic molecules-Applications. Nuclear magnetic resonance and magnetic resonance imaging, surface characterization techniques. Diffraction and scattering.

MODULE III INTERMOLECULAR FORCES AND POTENTIAL ENERGY SURFACES

Ionic, dipolar and Vander Waals interactions. Equations of state of real gases and critical phenomena. Potential energy surfaces of H3, H2F and HCN and trajectories on these surfaces.

MODULE IV: USE OF FREE ENERGY IN CHEMICAL EQUILIBRIA

Thermodynamic functions: energy, entropy and free energy. Estimations of

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entropy and free energies. Free energy and emf. Cell potentials, the Nernst equation and applications. Acid base, oxidation reduction and solubility equilibria. Water Chemistry. Corrosion. Use of free energy considerations in metallurgy through Ellingham diagrams.

MODULE V PERIODIC PROPERTIES

Effective nuclear charge, penetration of orbitals, variations of s, p, d and f orbital energies of atoms in the periodic table, electronic configurations, atomic and ionic sizes, ionization energies, electron affinity and electronegativity, polarizability, oxidation states, coordination numbers and geometries, hard soft acids and bases, molecular geometries.

MODULE VI STEREOCHEMISTRY

Representations of 3 dimensional structures, structural isomers and stereoisomers, configurations and symmetry and chirality, enantiomers, diastereomers, optical activity, absolute configurations and conformational analysis. Isomerism in transitional metal compounds.

MODULE VII ORGANIC REACTIONS AND SYNTHESIS OF A DRUG MOLECULE

Introduction to reactions involving substitution, addition, elimination, oxidation, reduction, cyclization and ring openings. Synthesis of a commonly used drug molecule.

TOTAL HOURS: 54

COURSE OUTCOMES

Upon Completion of the course students will be able to:

CO1: Analyze microscopic chemistry in terms of atomic and molecular orbitals.

CO2: Distinguish the ranges of the electromagnetic spectrum used for exciting different molecular energy levels in various spectroscopic techniques.

CO3: Understand bulk properties and processes using thermodynamic considerations.

CO4: Gain knowledge on periodic properties.

CO5: Gain knowledge on the basic concepts of stereochemistry, organic reactions and synthesis of a drug molecule.

TEXT BOOKS

1. K. P. C. Volhardt and N.E. Schore, "Organic Chemistry: Structure and Function", 6thEdition, W.H.Freeman Publisher, NHBS, 2015.

2. P. W. Atkins, Julio de Paula,," Physical Chemistry", 8th Edition, Oxford University press, Oxford, 2016.

3. Dr. Sayeeda Sultana," Engineering Chemistry", R.K.Publishers, Coimbatore, 2016.
4. B. M. Mahan, R. J. Meyers, "University Chemistry", 4th Edition,

Pearson Education, India, 2009.

5. Engineering Chemistry by Jain and Jain, 16th Edition, Dhanpat Rai Publishing Company, New Delhi, 2017.

6. C. N. Banwell, "Fundamentals of molecular spectroscopy",5th Edition McGraw-Hill Education India Pvt Limited, India, 2013.



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118CYP01	8CYP01 CHEMISTRY LABORATORY	L	T	P	С	Total Marks
/218CYP01		0	0	4	2	100

PRE REQUISITES: None

COURSE OBJECTIVES

> To acquire the quantitative skills in volumetric analysis, potentiometric and condutometric titrations.

LIST OF EXPERIMENTS

Any 10-12 experiments from the following:

- 1. Determination of surface tension and viscosity
- 2. Thin layerchromatography
- 3.Ion exchange column for removal of hardness of water
- 4. Determination of chloride content of water
- 5. Colligative properties using freezing point depression
- 6.Determination of the rate constant of a reaction
- 7. Determination of cell constant and conductance of solutions
- 8.Potentiometry determination of redox potentials and emfs
- 9. Synthesis of a polymer/Determination of molecular weight of polymer
- 10. Saponification/acid value of anoil
- 11. Chemical analysis of a salt
- 12.Determination of the partition coefficient of a substance between two immiscible liquids
- 13. Adsorption of acetic acid by charcoal
- 14. Conductometric titration of strong acid and strong base
- 15. Determination of strength of acids in a mixture using conductivity meter.
- 16.Determination of Total, Permanent and Temporary hardness ofwater by EDTA method

TOTAL HOURS:72

COURSE OUTCOMES

On completion of the course students will be able to:

- **CO1:** Understand the estimation of chloride in water sample.
- CO2: Determination of rate constant of a reaction
- CO3:.Gain knowledge on determination of redox potentials and emfs using potentiometer.
- CO4: Determination of molecular weight of polymer and chemical analysis of salt.
- CO5: Determination of strength of acids using conductivity meter and hardness of water by EDTA method.

REFERENCES

- 1. Dr. Sayeeda Sultana,"Practical Engineering Chemistry laboratory manual", R.K.Publishers, Coimbatore, 2016.
- 2. Daniel R. Palleros, "Experimental organic chemistry" John Wiley & Sons, Inc. New York, 2011.
- 3. Furniss B.S. Hannaford A.J, Smith P.W.G and Tatchel A.R., "Vogel's Textbook of Practical organic chemistry", LBS, Singapore, 2010.

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(Appendix III)

St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH B.Sc. (CHEMISTRY) PROGRAMME-Regulations 2018

REGULATIONS AND SYLLABI UNDER CHOICE BASED CREDIT SYSTEM

(Effective from the Academic Year 2018-2019)

I Semester

					Marks	
Code No.	Course Title		Credit	CA	EA	Total
118UTMT01 / UTET01 / UHIT01 / 118UFRT01		: -I (Tamil - I / I / Hindi - I /	3	25	75	100
118UEHT02	English –	I	3	25	75	100
118UCHT03	Core Subject:	General Chemistry –I	5	25	75	100
118UCHP01		Major PracticalI	2	40	60	100
118UCHT04 118UCHT06 /118UCHP02	Biochemi		5	25	75	100
(Biochemistry Practical)	The same of the sa	and Practical =3 its respectively)		25	75	100
(Blochemistry Fractical)	a 2 Creates respectively)			40	60	100
	Non Majo	or Elective I:	2	25	75	100
118UCCT01	Soft Skills UG Branc	s (Common to all hes)	2	50	50	100
		Total	22	215/255	485/545	700/800

II Semester

				Marks			
Code No.	Course T	itle	Credit	CA	EA	Total	
218UTMT01 / UTET01	Language	-II (Tamil -II /	3	25	75	100	
/ UHIT01 / 218UFRT01	Telugu -I	I / Hindi –II /					
	French -I	()			And Andrew		
218UEHT02	English –	II.	3	25	75	100	
218UCHT03	Core Subject:	General Chemistry II	5	25	75	100	

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NEW COURSES FOR THE ACADEMIC YEAR 2018-2019

B.Sc. - CHEMISTRY

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	CYU	B.Sc Chemistry	118UEHT02	ENGLISH –I
2	CYU	B.Sc Chemistry	118UCHT03	GENERAL CHEMISTRY –I
3	CYU	B.Sc Chemistry	118UCHP01	MAJOR PRACTICAL I
4	CYU	B.Sc Chemistry	118UCHT04	ALLIED –I: MATHEMATICS-I
5	CYU	B.Sc Chemistry	118UCHT05	NON MAJOR ELECTIVE I: FOOD CHEMISTRY
6	CYU	B.Sc Chemistry	218UEHT02	ENGLISH –II
7	CYU	B.Sc Chemistry	218UCHT03	GENERAL CHEMISTRY II
8	CYU	B.Sc Chemistry	218UCHP01	MAJOR PRACTICAL II
9	CYU	B.Sc Chemistry	218UCHT04	ALLIED –II: MATHEMATICS-II
10	CYU	B.Sc Chemistry	218UCHT07	NON MAJOR ELECTIVE II : DAIRY CHEMISTRY
11	CYU	B.Sc Chemistry	218UCCT02	SOFT SKILLS
12	CYU	B.Sc Chemistry	516UCHT01	INORGANIC CHEMISTRY
13	CYU	B.Sc Chemistry	516UCHT02	ORGANIC CHEMISTRY I
14	CYU	B.Sc Chemistry	516UCHT03	PHYSICAL CHEMISTRY I
15	CYU	B.Sc Chemistry	516UCHP01	GRAVIMETRIC, ORGANIC ANALYSIS AND PREPARATION
16	CYU	B.Sc Chemistry	516UCHT05	ELECTIVE I :POLYMER CHEMISTRY
17	CYU .	B.Sc Chemistry	516UVET01	VALUE EDUCATION
18	CYU	B.Sc Chemistry	616UCHT01	ORGANIC CHEMISTRY II
19	CYU	B.Sc Chemistry	616UCHT02	PHYSICAL CHEMISTRY II
20	CYU	B.Sc Chemistry	616UCHP01	PHYSICAL CHEMISTRY PRACTICAL



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	CYU	B.Sc Chemistry	616UCHT03	PHARMACEUTICAL CHEMISTRY
21		B.Sc Chemistry	616UCHT05	INDUSTRIAL CHEMISTRY
22	CYU		TO1	PART-IV: EXTENSION
22	CYU	B.Sc Chemistry	616UEAT01	ACTIVITY NANOMATERIALS AND GREEN
23	CYU	B.Sc Chemistry	516UCHT04	CHEMISTRY
24			218UCHT05	COTTAGE INDUSTRIES PRODUCTS
25	CYU	B.Sc Chemistry	21000	PRODUCTO



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NEW COURSES FOR THE ACADEMIC YEAR 2018-2019

M.Sc. - CHEMISTRY

S.No	Programme	Programme Name	Course Code	Name of the Course
5.10	Code		316CMPT06	RESEARCH METHODOLOGY
1	CYP	M.Sc Chemistry	3100	



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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.

MINUTES OF THE 17th MEETING OF THE BOARD OF STUDIES IN **COMPUTER SCIENCE & APPLICATIONS**

Held on 14.03.2018

Members Present

S.No	Name	Designation	Member	Signature
1.	Dr. R.Latha	Professor& Head	Chairman	Bul.
2.	2. Mrs.S.Brindha Assistant Professor		Member	Sile
3.	Mr. N.Venkatesan	Assistant Professor	Member	W. James
4. Mrs. R.Subhashni		Assistant Professor	Member	Ram
5. Dr.B.Shanthini		Professor, IT Department, SPCET	Academic Expert Member	S. SLOT
6.	Mr. E.SAi Dinesh Babu	Operations Manager, Amazon Development Centre India Pvt.Ltd, Ch.	Industry Expert Member	E P. Pm

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Chairman

	of Board of Studies in Computer
17.1	Considered the minutes of the 16 th meeting of Board of Studies in Computer Science held on 22.8.2017.
	Applications and Computer Science Held of I
	RESOLVED that the minutes of the 16 th meeting of Board of Studies in
	RESOLVED that the minutes of the 10 meeting of the confirmed
	Computer Applications held on 22.8.2017 to be confirmed Considered the provision for the students of B.CA and B.Sc(CS) to have Considered the provision for the students of B.CA and B.Sc(CS) to have
17.2	Considered the provision for the students of Brown private study for the Non – Tamil and Non – English languages.
	private study for the Non - rank and reserved
	A = A = A = A = A = A = A = A = A = A =
	RESOLVED that the the provision for the students of B.CA and Brogges be have private study for the Non – Tamil and Non – English languages be
	have private study for the Non-
	approved. approved. approved. approved. approved. approved.
17.3	Reviewed the Regulation & Syllabl of B.C.A and Block (CBCS). the Regulations 2016 with Choice Based Credit System (CBCS).
	the Regulations 2016 With Choice Based of
	nrogramme under
	RESOLVED that the Syllabi of B.C.A B.C.A and B.S.C.C.S) programme to be the Regulations 2016 with Choice Based Credit System (CBCS) to be
	the Regulations 2010 with Ghores
	continued. Reviewed the Syllabi and course structure of M.Sc(CS) programmes under Reviewed the Syllabi and course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M.Sc(CS) programmes under Reviewed the Syllabi and Course Structure of M
17.4	Reviewed the Syllabi and course structure of This (CBCS). the Regulations 2016 with Choice Based Credit System (CBCS).
	the Regulations 2010 With other
	RESOLVED that the Syllabi and course structure of M.Sc(CS) programmes RESOLVED that the Syllabi and course structure of M.Sc(CS) programmes RESOLVED that the Syllabi and course structure of M.Sc(CS) programmes
	RESOLVED that the Syllabi and course structure of M.Sc(CS) programs be under the Regulations 2016 with Choice Based Credit System (CBCS) be under the Regulations and remarks given by
	under the Regulations 2016 with Choice Based Credit System (education) under the Regulations 2016 with Choice Based Credit System (education) under the Regulations 2016 with Choice Based Credit System (education) under the Regulations 2016 with Choice Based Credit System (education) under the Choice Based Credit System (education
	to the
	the members to include following new codison of the Reviewed the curricula developed having relevance to the
17.5	Reviewed the curricula developed having relevance local/national/regional/global developmental needs with learning objectives local/national/regional/global developmental needs with learning objectives local/national/regional/global developmental needs with learning objectives
	lingluding programme outcomes program
	outcomes of all the programmes.
	I - the Pegulation
	RESOLVED that the syllabi of B.C.A programme under the Regulations 2016 and M.Sc(CS) programme Under the Regulations 2016 and M.Sc(CS)
	2016 B Sc(CS) programme Under the rest to the having relevance to the
	programme under the Regulations 2020
	local/national/regional/global developmental needs with learning and cours
	outcomes of all the programmes be apply on employability
17.6	Considered to include courses the second of BCA under the
17.0	entrepreneurship /skill development in the Syndon solla, M.Sc(CS) under
	Regulations 2016, B.Sc(CS) didentifications
	the Regulations 2010.
	four on employability
	RESOLVED that the courses having room the syllabi of B.C.
	entrepreneurship /skill development year who have approved. B.Sc(CS),M.Sc(CS) under the Regulations 2016 to be approved.



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	Considered to include value added courses imparting transferable and life skills offered beyond the curriculum in the syllabi of BC.A,B.Sc(CS),
	RESOLVED that the value added courses imparting transferable and me skills offered beyond the curriculum such as course on "Office Automation" skills offered beyond the curriculum such as course on "Office Automation" skills offered beyond the upcoming semester (2017-18 Odd semester).
17.8	I Lead An IIIP SUUUCSCOTT
	, , and action taken topologic
	Resolved that the curriculum feedback analysis and action taken report based on the suggestions given by the stake holders to be approved. (Appendix – III)

Date: 14.03.2018

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Phone:044-26558080-84 E-mail:registrar@spiher.ac.in Website:www.spiher.ac.in

NEW COURSES FOR THE ACADEMIC YEAR 2017-2018

BACHELOR OF COMPUTER APPLICATION

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	CAU	Bachelor of Computer Science and Application	316UCAT01	PROGRAMMING IN C++ AND DATA STRUCTURES
2	CAU	Bachelor of Computer Science and Application	316UCAT02	MICROPROCESSORS AND ITS APPLICATIONS
3	CAU	Bachelor of Computer Science and Application	316UCAT03	NUMERICAL AND STATISTICAL METHODS
4	CAU	Bachelor of Computer Science and Application	316UCAT04	FINANCIAL ACCOUNTING
5	CAU	Bachelor of Computer Science and Application	316UCAP01	PROGRAMMING IN C++ USING DATA STRUCTURES
6	CAU	Bachelor of Computer Science and Application	316UCCT03	SOFT SKILLS
7	CAU	Bachelor of Computer Science and Application	416UCAT01	PROGRAMMING IN JAVA
8	CAU	Bachelor of Computer Science and Application	416UCAT02	OPERATING SYSTEM
9	CAU	Bachelor of Computer Science and Application	416UCAT03	COMPUTER GRAPHICS
10	CAU	Bachelor of Computer Science and Application	416UCAP01	JAVA PROGRAMMING LAB
11	CAU	Bachelor of Computer Science and Application	416UCAT04	COST AND MANAGEMENT ACCOUNTING
12	CAU	Bachelor of Computer Science and Application	416UEST01	ENVIRONMENTAL STUDIES
13	CAU	Bachelor of Computer Science and Application	416UCCP04	SOFT SKILLS

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NEW COURSES FOR THE ACADEMIC YEAR 2017-2018

B.Sc. – COMPUTER SCIENCE

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	CPU	B.Sc Computer Science	316UTMT01	PART - I TAMIL III
2	CPU	B.Sc Computer Science	316UCST03	PROGRAMMING IN C++ AND DATA STRUCTURES
3	CPU	B.Sc Computer Science	316UCST04	PHYSICS – I
4	CPU	B.Sc Computer Science	316UCSP01	DATA STRUCTURES USING C++ LAB
5	CPU	B.Sc Computer Science	316UCSP02	PHYSICS – I PRACTICAL
6	CPU	B.Sc Computer Science	416UTMT01	PART - I TAMIL IV
7	CPU	B.Sc Computer Science	416UEHT02	PART - II ENGLISH IV
8	CPU	B.Sc Computer Science	416UCST03	PROGRAMMING IN JAVA
9	CPU	B.Sc Computer Science	416UCSP01	JAVA PROGRAMMING LAB
10	CPU	B.Sc Computer Science	416UCST04	PHYSICS – II
11	CPU	B.Sc Computer Science	416UCSP02	PHYSICS – II PRACTICAL
12	CPU	B.Sc Computer Science	416UCCT04	SOFT SKILLS



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NEW COURSES FOR THE ACADEMIC YEAR 2017-2018

M.Sc. - COMPUTER SCIENCE

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	СРР	M.Sc Computer Science	316PCST01	SYSTEMS SOFTWARE
2	СРР	M.Sc Computer Science	316PCST02	INFORMATION SECURITY
3	СРР	M.Sc Computer Science	316PCST03	OBJECT ORIENTED ANALYSIS AND DESIGN
4	СРР	M.Sc Computer Science	316PCSP01	MINI PROJECT
5	СРР	M.Sc Computer Science	316PCST06	DISTRIBUTED DATABASE SYSTEMS
6	CPP	M.Sc Computer Science	316PCST08	E-COMMERCE
7	СРР	M.Sc Computer Science	316PCST04	BIG DATA ANALYTICS
8	СРР	M.Sc Computer Science	316PCST05	CRYPTOGRAPHY
9	СРР	M.Sc Computer Science	316PCST07	MULTIMEDIA SYSTEMS
10	СРР	M.Sc Computer Science	316PCST09	CLOUD COMPUTING



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BACHELOR OF COMPUTER APPLICATIONS 2016 REGULATIONS I Semester

	Course Title			Marks			
Code No.			Credit	CA	EA	Total	
116UTMT01/ UTET01/UHIT01	Part I: Lang	Part I: Language -I (Tamil / Telugu / Hindi)		25	75	100	
116UEHT02	Part II: Eng	art II: English -I		25	75	100	
116UCAT03	Part III:	Fundamentals of Digital Computers	4	25	75	100	
116UCAP01	Core Sub:	Practical - I: PC Software Lab	4	40	60	100	
116UCAT04	Allied Paper	r -I: Mathematics - I	5	25	75	100	
116UCST05	Non Major I		2	25	75	100	
116UCCP01		ommon to all UG Branches)	2	50	50	100	
		Total	23	215	485	700	

NON MAJOR ELECTIVE:

- 1. MS ACCESS
- 2. Web Applications
- 3. FLASH
- 4. HTML

II Semester

	Liza di William Edita de			Marks		
Code No.	Course Title		Credit	CA	EA	Total
216UTMT01 / UTET01 / UHIT01	Part I: Language -	II (Tamil / Telugu / Hindi)	3	25	75	100
216UEHT02	Part II : English -I	Part II: English -II		25	75	100
216UCAT03	Part III :	Programming in C	4	25	75	100
216UCAP01	Core Sub:	Practical – II: Programming in C Lab	4	40	60	100
216UCAT04	Allied Paper -II:	Mathematics II	5	25	75	100
216UCSP05	Non Major Electiv		2	40	60	100
216UCCP02		n to all UG Branches)	2	50	50	100
220000102	(3311)	Total	23	235	470	700

NON MAJOR ELECTIVE:

- 1. MS ACCESS Lab
- 2. Web Applications Lab

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- 3. FLASH Lab
- 4. HTML Lab

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III Semester

				Marks		
Code No.	Course Title		Credit	CA	EA	Total
316UCAT01		Programming in C++ and Data Structures	4	25	75	100
316UCAT02	Core Sub:	Microprocessors and its Applications	4	25	75	100
316UCAT02	Core Sub.	Numerical and Statistical Methods	4	25	75	100
316UCAP01		Practical – III: Programming in C++	3	40	60	100
3100CAI 01		using Data structures				
316UCAT04	Allied Pape	r - III : Financial Accounting	4	25	75	100
316UCCP03	Soft Skills (C	Common to all UG Branches)	2	50	50	100
3100000	Sore Skins (e	Total	21	190	410	600

IV Semester

		14 Scinesco.			Marks	
Code No.	Course Title			Marks		
			Credit	CA	EA	Total
416UCAT01		Programming in Java	4	25	75	100
416UCAT02	Core Sub:	Operating System	4	25	75	100
416UCAT03	0010000	Computer Graphics	4	25	75	100
416UCAP01		Practical - IV: Java Programming Lab	4	40	60	100
416UCAT04	Allied Pape	r - IV: Cost and Management	4	25	75	100
	Accounting			25	75	100
416UEST01	PART IV: E	nvironmental Studies (Common to all UG	2	25	/5	100
	Branches)					100
416UCCP04	Soft Skills (Common to all UG Branches)	2	50	50	100
120000.0.		T	otal 24	215	485	700

V Semester

			Credit	Marks			
Code No.	Course Title			CA	EA	Total	
516UCAT01		Database Management System	4	25	75	100	
516UCAT02	Core Sub:	Software Engineering	4	25	75	100	
516UCAT03	COIC BUB!	Resource Management Techniques	4	25	75	100	
516UCAP01		Practical - V: RDBMS Lab	4	40	60	100	
3100CAI 01	Elective - I		4	25	75	100	
516UVET01		ion (Common to all UG Branches)	2	25	75	100	
PIOCALIOI	Value Educat	Total	22	165	435	600	

VI Semester

					Marks		
Code No.	Course Title			Credit	CA	EA	Total
616UCAT01		Web Technology	Web Technology			75	100
616UCAT02	Core	Data Communication and Networking		4	25	75	100
616UCAT03	Sub:	Software Testing		4	25	75	100
616UCAP01		Practical - VI: Web A	pplications Lab	4	40	60	100
01000	Elective	- II :		4	25	75	100
		Elective – III :			25	75	100
616UEAT01	Extensio	on Activities (Common to al	UG Branches)	1	-	-	-
02002/1102		Higher Edus	Total	25	165	435	600

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BACHELOR OF COMPUTER SCIENCE 2016 REGULATIONS

I Semester

	1 delineate.				Marks		
Code No.	Course Title	e			CA	EA	Total
116UTMT01 /	Part I: Language -I (Tamil / Telugu / Hindi)			3	25	75	100
UTET01/UHIT01				3	25	75	100
116UEHT02	Part II: Eng			4	25	75	100
116UCST03	Part III:	Programming in C Practical – I: Programming in C		4	40	60	100
116UCSP01	Core Sub:			5	25	75	100
116UCST04		er -I: Mathematics - I		2	25	75	100
116UCST05	Non Major	Elective		2	50	50	100
116UCCT01	Soft Skills (Common to all UG Branches)	Total	23	215	485	700

Non Major Electives:

- 1. Business and Office Applications
- 2. MS ACCESS
- 3. FLASH
- 4. HTML

II Semester

	Course Title		1	Credits	Marks			
Code No.	Course IIII				CA	EA	Total	
216UTMT01/	Part I : Lan		3	25	75	100		
UTET01/UHIT01		-Pala TT		3	25	75	100	
216UEHT02		Part II : English -II		4	25	75	100	
216UCST03	Part III:	Digital Electronics & Microprocessor		4	40	60	100	
216UCSP01	Core Sub:	Practical – II: Digital Electronics & Microprocessors Lab		4				
	All's d Done	er -II: Mathematics - II		5	25	75	100	
216UCST04				2	40	60	100	
216UCSP02	Non Major	Elective:		2	50	50	100	
216UCCT02	Soft Skills (Common to all UG Branches)	Total	23	230	470	700	

Non Major Electives: (Common to B.Sc. (CS) & BCA)

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- 1. Business and Office Applications Lab
- 2. MS ACCESS Lab
- 3. FLASH Lab
- 4. HTML Lab

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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 **III Semester**

	III Semester					
Code No.	Course Title	e		CA	EA	Tota I
	Bout Telland	juage -III (Tamil / Telugu / Hindi)	3	25	75	100
316UTMT01/ UTET01/UHIT01	Part 1: Lang	Judge III (Turm, 1985)	3	25	75	100
316UEHT02	Part II: Eng	Part II: English -III		25	75	100
316UCST03	Part III:	Programming in C++ and Data Structures Practical - III: Data Structures using	4	40	60	100
316UCSP01	Core Sub:					100
		C++	5	25	75	100
316UCST04	Allied Pape	er: Paper -I: Physics I	2	50	50	100
316UCSP01	Allied Prac	Allied Practical: Physics - I		50	50	100
316UCCT03	Soft Skills (Common to all UG Branches) Total	23	240	460	700

IV Semester

	IV Semester					Marks			
Code No.	Course Title			CA	EA	Total			
0000		Transport (Talugu / Hindi)	3	25	75	100			
416UTMT01	Part I: Langua	ge -IV (Tamil / Telugu / Hindi)							
/ UTET01 /									
UHIT01			3	25	75	100			
416UEHT02	Part II : Englis	art II : English -IV		25	75	100			
416UCST03	Part III:	Programming in JAVA	4	40	60	100			
416UCSP01	Core Sub:	Practical – IV: Java Programming Lab	5	25	75	100			
416UCST04	Allied Paper:	Paper – II : Physics II	2	50	50	100			
	Allied Practic	al: Physics - II	_		75	100			
416UCSP02	DART TV: Envi	ronmental Studies (Common to all UG	2	25	/5	100			
416UEST01		Tommerical States (A CONTRACTOR						
	Branches)	H LLC D - rehoo)	2	50	50	100			
416UCCT04	Soft Skills (Cor	nmon to all UG Branches) Tota	25	265	535	800			

V Semester

			Credit	Marks			
o de No	Course T	itle		CA	EA	Total	
Code No.	Course		4	25	75	100	
516UCST01		Operating Systems	4	25	75	100	
516UCST02	Core	Database Management Systems Computer Architecture and Organization	4	25	75	100	
516UCST03	Sub:	Computer Architecture and Organization	4	40	60	100	
516UCSP01		Practical - V: RDBMS Lab	5	25	75	100	
516UCST05	Elective	- I:	2	25	75	100	
516UCS105 Elective = 1. 516UVET01 Value Education (Common to all UG Branches) Total		23	165	385	600		

VI Semester

Credit		Marks		
	CA	EA	Total	
	25	75	100	
	25	75	100	
	40	60	100	
	25	75	100	
	25	75	100	
	-	-	-	
3	140	360	500	
1	1 2 3	23 140	1 140 360	

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Avadi, Chennai-600 054

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MASTER OF COMPUTER SCIENCE 2016 REGULATIONS

I Semester

				Marks		
Code No.	Cours	e Title	Credit	CA	EA	Total
	000		4	25	75	100
116PCST01		Computer Networks	4	25	75	100
116PCST02		Advanced Java Programming	4	25	75	100
116PCST03	Core	Mobile Computing				100
116PCSP01	Sub:	Practical - I: : RDBMS Lab	3	40	60	100
116PCSP01 116PCSP02		Practical - II: Advanced Java Programming	3	40	60	100
		Inter disciplinary Elective I:	4	25	75	100
116PCST04		Total	22	180	420	600

II Semester

	Course Title		Credit	Marks		
Code No.	Cours	e litie		CA	EA	Total
- 1 1 C C T C 1		Principles of Compiler Design	4	25	75	100
216PCST01		Design and Analysis of Algorithms	4	25	75	100
216PCST02	Come	Practical – III. Algorithms Lab	3	40	60	100
216PCSP01 216PCSP02	Core Sub:	Practical - IV:	3	40	60	100
	Image Processing using Java Lab	4	25	75	100	
- 1 1 D C C T C C		Elective I: Inter disciplinary Elective II	4	25	75	100
216PCST03	Total		22	180	420	600

III SEMESTER

	Course Title			Marks		
O de No			Credit	CA	EA	Total
Code No.	Course rici		4	25	75	100
316PCST01		Systems Software	4	25	75	100
316PCST02	Core Sub:	Information Security Object Oriented Analysis and Design	4	25	75	100
316PCST03		Practical – V: Mini Project	4	40	60	100
316PCSP01	TI NICES TY		4	25	75	100
	THE SECOND PROPERTY.	Elective II:		25	75	100
	Elective II	Total	24	165	435	600

IV SEMESTER

	Course Title	Credit	Marks		
Code No.	Course Title		CA	EA	Total
	DROJECT DILIC VIVA VOCE	20	20	60+20	100
416PENP01	PROJECT PLUS VIVA VOCE Tota		20	80	100

Registrar

\$1. Peter's Institute of Higher Education and Researce (Daemed to be University U/S 3 of the UGC Act, 1956) Avadi, Chennai-600 054

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MINUTES OF THE 17^{th} MEETING OF THE BOARD OF STUDIES IN

DEPARTMENT OF MANANGEMENT STUDIES

Held on 14.02.2018

Members Present

S.No	Name	Designation	Member	Signature
1.	Dr.R.Gayathri	Professor& Head	Chairman	R. I a
2.	Dr.S.Panerselvam	Assistant Professor	Internal Member	
3.	Ms.G.Pramila	Assistant Professor	Internal Member	9:2mle
4.	Dr.Chinnaraju	Director, CIMAT	External Member	China
5.	Ms.Srividya Srinivasan	Head, Doyen Systems Pvt. Ltd., Guindy	External Member	Sala
6.	Dr.P.Umarani	Professor, MGR Educational & Research Institute	External Member	Jan

Registrar

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

Chairman

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

L7.1	Considered the minutes of the 16 th meeting of Board of Studies in Department of Management Studies in the light of the minutes of 16 th meeting of the Academic Council held on 22.08.2017.
	RESOLVED that the minutes of the 16 th meeting of Board of Studies in Department of Management Studies held on 22.08.2017 be confirmed.
17.2	Reviewed the Regulation & Syllabi of Department of Management Studies MBA for Semester III and Semester IV programmes under the Regulations 2017 with Choice Based Credit System (CBCS).
	RESOLVED that the Syllabi of Department of Management Studies for MBA Semester III and Semester IV under the Regulations 2017 with Choice Based Credit System (CBCS) be approved.
17.3	Considered the New Regulations and Syllabi of Department of Management Studies for BBA Semester V and Semester VI Curriculum from the batch of students to be admitted from 2017-18 under the Regulations 2017 with Choice Based Credit System (CBCS).
	RESOLVED that the new Regulations and Syllabi Department of Management Studies for BBA Semester V and Semester VI on batch of students to be admitted from 2017-18 under the Regulations 2017 with Choice Based Credit System (CBCS) be approved.
17.4	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 programme under the Regulations for MBA under the Regulations 2017 and for BBA under Regulation 2016 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.
7.5	Considered to include courses having focus on employability/ entrepreneurship /skill development in the syllabi of BBA under the Regulations 2016 and MBA under the Regulations 2017.
	RESOLVED that the courses having focus on employability/ entrepreneurship /skill development year wise in the syllabi of BBA under the Regulations 2016 and MBA under the Regulations 2017 to be approved.
	oster's Institute of H

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

L7.6	Considered to include value added courses imparting transferable and life skills offered beyond the curriculum in the syllabi of BBA, Department of Management Studies and MBA Department of Management Studies.
	RESOLVED that the value added courses imparting transferable and life skills offered beyond the curriculum such as course on "GST

RESOLVED that the value added courses imparting transferable and life skills offered beyond the curriculum such as course on "GST Registration, E-Filing and Complliance " and "Corporate Communication" be approved for the upcoming semester (2018-19 Odd and Even semester).

Date: 14.02.2018

Registrai

\$1. 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

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

and Research & St. Person of S

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

MINUTES OF THE 5th MEETING OF THE BOARD OF STUDIES IN DEPARTMENT OF COMMERCE

Held on 13-03-2018

Members Present

S.No	Name	Designation	Member	Signature
1	Dr.S. Panneer Selvam	Professor & Head	Chairman	
2	Dr. A. Senthilnathan	Associate Professor	Member	R. Gov
3	Ms.P.S. Lakshmi	Assistant Professor	Member	Com
4	Ms.B.Saraswathi	Assistant Professor	Member	Essentill 1
4	DrT.Ramachandran	Professor, SRM University, Kattankulathur.	Academic Expert Member	Rane
5	Dr.B.Sankaran	Professor, SPCET	Academic Expert Member	Janen.
6	Mr.G.Sathyaseelan,	Vice-President, Ashok Leyland, Ennore	Industrial Expert	Sel.

Chairman

Pagnstrat

Pr.S. PANNEERSELVAM

Registrat

Pr.S. PANNEERSELVAM

Registrat

Research Com, MBA., M.Phil., Ph.D

H00 / Commerce

St. Peter's Institute of Higher Education & Research

Considered the minutes of the 4th meeting of Board of Studies in B.Com.(Commerce) and B.Com (Corporate Secretary ship) held on 21.08.2017.

RESOLVED that the minutes of the 4th meeting of Board of Studies in B.Com.(Commerce) and B.Com (Corporate Secretary ship) held on 21.08.2017 be confirmed.

Reviewed the Regulation & Syllabi of V and VI semesters of B.Com.(Commerce) and III and IV semester of B.Com (Corporate Secretary ship) programmes under the Regulations 2016 with Choice Based Credit System (CBCS).

RESOLVED that the Syllabi of all semesters of B.Com.(Commerce) and B.Com (Corporate Secretary ship) under the Regulations 2016 with Choice Based Credit System (CBCS) be approved.

Considered the new Regulations and Syllabi of V and VI semester of B.Com.(Commerce) and III and IV semester of B.Com (Corporate Secretary ship) on the pattern of under the Regulations 2016 with Choice Based Credit System (CBCS).

RESOLVED that the new Regulations and Syllabi of V and VI semester of semester of B.Com.(Commerce) and III and IV semester of B.Com (Corporate Secretary ship) on the pattern under the Regulations 2016 with Choice Based Credit System (CBCS) be approved.

- Reviewed the Regulation & Syllabi of III and IV semester of M.Com and M.Phil programs under the Regulations 2016 with Choice Based Credit System (CBCS).

 RESOLVED that the Regulation & Syllabi of III and IV semester of M.Com and M.Phil programmes under the Regulations 2016 with Choice Based Credit System (CBCS) be continued taking into consideration of the suggestions and remarks given by the members to include the .
- Considered the new Regulations and Syllabi of all semesters M.Com and M.Phil Programme from the batch of students to be admitted from 2017-18 under the Regulations 2016 with Choice Based Credit System (CBCS).

RESOLVED that the new Regulations and Syllabi of all semesters M.Com and M.Phil Programme from the batch of students to be admitted from 2017-18 under the Regulations 2016 with Choice Based Credit System (CBCS) be approved.

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.

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\$1. Peter's Institute of Higher Education and Research Deemed to be University U/S 3 of the UGC Act, 19561 Avaid, Cherinal-600 054 **RESOLVED** that the syllabi of B.Com.(Commerce) and B.Com (Corporate Secretary ship) programme under the Regulations 2016 and M.Com under the Regulations 2016 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.

Considered to include courses having focus on employability/ entrepreneurship /skill development in the syllabi of B.Com.(Commerce) and B.Com (Corporate Secretary ship) under the Regulations 2016 and M.Com and M.Phil under the Regulations 2016.

RESOLVED that the courses having focus on employability/ entrepreneurship /skill development year wise in the syllabi of B.Com.(Commerce) and B.Com (Corporate Secretary ship) under the Regulations 2016 and M.Com and M.Phil under the Regulations 2016 to be approved.

Considered to include value added courses imparting transferable and life skills offered beyond the curriculum in the syllabi of B.Com.(Commerce) and B.Com (Corporate Secretary ship) M.Com and M.Phil.

to be University
Chennai

RESOLVED that the value added courses imparting transferable and life skills offered beyond the curriculum such as course on "Law and Institutions Human Rights in India, Leadership in Professionals, Digital Banking, and Social Etiquette" be approved for the upcoming semester (2018-19 Odd semester).

Date: 13.03.2018

Dr.S.PANNEERSELVAM

Dr.S.PANNEERSLLV M.Com, MBA., M.Phil., Ph.D.

HOD / Commerce Si Peter's institute of Higher Education & Research St.Petra's University, Chennal-600 054.

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Avail, Chennai-600 054

B.COM (GENERAL)

SEMESTER V

Code No.	Course Title			Credit	CA	EA	Total
Code No.	Course Title			S			
516UBCT01		Elements of Cost Accounting		4	25	75	100
516UBCT02	Core Sub:	Practical Auditing		4	25	75	100
	Core sub.	Entrepreneurial Development		4	25	75	100
516UBCT03	-	Financial Management		4	25	75	100
516UBCT04 516UBCT05	Elective I	Income Tax Law and Practice-I		5	25	75	100
(OR)	Elective	(OR					
516UBCT06)					
		Visual Basic Programming					100
516UVET01	Part IV : Value	e Education (Common to all UG Branches)		2	25	75	100
			Total	23	150	450	600

SEMESTER VI

Code No.	Course Title		Credit s	CA	EA	Total
616UBCT01	Advanced Cost	Accounting	4	25	75	100
	Management A		4	25	75	100
616UBCT02 616UBCT03	Business Enviro		4	25	75	100
616UBCT04 (OR) 616UBCT05	Elective II	Income Tax Law and Practice-II (OR) Visual basic practical	5	25	75	100
616UBCT06 (OR) 616UBCT07	Elective III	Human Resources Management (OR) Portfolio Management	5	25	75	100
616UEAT01	Part IV : Exter	nsion Activity (Common to all UG Branches)	1	-	-	-
		Total	23	125	375	500

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

B.COM (CS)

SEMESTER - III

G I V	Course Title		Credits	CA	EA	Total
Code No.	000000		5	25	75	100
316UCOTO1	Corporate Accounting	;-I	3			
316COTO2	Company Law and Se	cretarial Practice –II	4	25	75	100
	Company Law and Se	anking Theory Law and Practice	4	25	75	100
316UCOTO3	***************************************		1	25	75	100
316UCOTO4	Core subject In	vestment Management	4		- N. S.	
	Allied – Statistics I		4	25	75	100
316UCOT05		HILIO1han)	2	50	50	100
316UCCP001	Soft skills (Common t	io all UG branches)	2	-		600
		Total	23	175	425	000

SEMESTER - IV

Code No.	Course Tit	le .	Credits	CA	EA	Total
	Part- III	Corporate Accounting II	5	25	75	100
416UCOTO2	Core Subject	Business Management	4	25	75	100
416UCOTO3	Allied IV:	Business Statistics II	4	25	75	100
			4	25	75	100
416UCOTO4	Corporate		4	25	75	100
416UCOTO5		tals of Insurance	2	50	50	100
416UCCTO4		- IV (Common to all UG Branches)	2	25	75	100
416UESTO1	Environme	ental Studies Total	25	200	1,000	700

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Avadi, Chennai-600 054

M.COM

SEMESTER - III

				Marks			
Code No.	Course Ti	tle	Credit	CA	EA	Total	
01 (D) (CT01	T	Research Methodology	4	25	75	100	
316PMCT01		Research Methodology				100	
316PMCT02	Core	Knowledge Management	4	25	75	100	
316PMCT03	Sub:	Fundamentals of Information Technology	4	25	75	100	
			3	25	75	100	
316PMCT04	Elective II	I: CRM and Relationship Marketing				100	
316PMCT05	Elective IV	: Advertising and Salesmanship	3	25	75	100	
316PMCT06	Extra Disc	iplinary Elective Paper - II: Business Ethics,	4	25	75	100	
51011110101		Governance & Social Responsibility					
	F		22	150	450	600	
Total						_	

SEMESTER - IV

				Marks			
Code No.			Credit	C A	EA	Total	
416PMCT01		Management Information Systems	4	25	75	100	
416PMCT02	Core Sub:	Investment Analysis and Portfolio Theory	4	25	75	100	
416PMCT03		Merchant Banking and Financial Services	4	25	75	100	
416PMCT04	Elective V: I	nternational Marketing	3	25	75	100	
416PMCP01	PROJECT P	LUS VIVA VOCE*	15	40	160 [@]	200	

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St.PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH (Deemed to be University U/S 3 of the UGC Act, 1956)

AVADI, Chennai – 600054. Tamil Nadu.

Phone:044-26558080-84 E-mail:registrar@spiher.ac.in Website:www.spiher.ac.in

NEW COURSES FOR THE ACADEMIC YEAR 2017-2018

BACHELOR OF COMMERCE

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	CMU	Bachelor of Commerce	316UBCT01	CORPORATE ACCOUNTING
2	CMU	Bachelor of Commerce	316UBCT02	BUSINESS LAWS
3	CMU	Bachelor of Commerce	316UBCT03	BANKING THEORY LAW AND PRACTICE
4	CMU	Bachelor of Commerce	316UBCT04	MARKETING
5	CMU	Bachelor of Commerce	416UBCT01	ADVANCED CORPORATE ACCOUNTING
6	CMU	Bachelor of Commerce	416UBCT02	COMPANY LAW
7	CMU	Bachelor of Commerce	416UBCT03	FINANCIAL SERVICES
8	CMU	Bachelor of Commerce	416UBCT04	INDIRECT TAXATION
9	СМИ	Bachelor of Commerce	116UCOT02	ENGLISH – I
10	CMU	Bachelor of Commerce	116UCOT03	FINANCIAL ACCOUNTING
11	CMU	Bachelor of Commerce	116UCOT04	COMPANY LAW AND SECRETARIAL PRACTICE-1
12	СМИ	Bachelor of Commerce	116UBCT05	MANAGERIAL ECONOMICS
13	CMU	Bachelor of Commerce	216UEHTO2	ENGLISH – II
14	CMU	Bachelor of Commerce	216UCOT03	ADVANCED FINANCIAL ACCOUNTING
15	CMU	Bachelor of Commerce	216UCOT05	BUSINESS COMMUNICATION
16	CMU	Bachelor of Commerce	Deemad 3 Deem	PRACIECES
17	CMU	Bachelor of Commerce	Deeming Silvy Chennal	BASICS OF BUSINESS INSURANCE

8	CMU	Bachelor of Commerce	116UBCT06	BASICS OF RETAIL MARKETING
9	CMU	Bachelor of Commerce	THOODETO	BASICS OF COMPUTER
20	CMU	Bachelor of Commerce	216UBCT06	CONSUMER PROTECTION AND CONSUMER RIGHTS
21	CMU	Bachelor of Commerce	116UBCT06J	INTRODUCTION TO FINANCIAL SERVICE
22	CMU	Bachelor of Commerce	216UCOT06J	BASISC OF CORPORATE E- MANAGEMENT
23	CMU	Bachelor of Commerce	216UCOT05J	INTERNATIONAL TRADE
24	CMU	Bachelor of Commerce	216UBC07	BASICS OF BUSINESS INSURANCE PART -I: LANGUAGE-
25	CMU	Bachelor of Commerce	116UTMT01/UTET01/ UHIT01116UFRT01	I(TAMIL-I/TELUGU- I/HINDI-I/FRENCH-I)
26	CMU	Bachelor of Commerce	116UEHT02	ENGLISH – I FINANCIAL
27	CMU	Bachelor of Commerce	116UCBT03	ACCOUNTING BUSINESS
28	CMU	Bachelor of Commerce Bachelor of	116UCBT04	COMMUNICATION ALLIED -I: BUSINESS
29	CMU	Commerce	116UCBT05	ECONOMICS 1. BASICS OF
30	CMU	Bachelor of Commerce	116UCBT06	COMPUTER SOFT SKILLS
31	CMU	Bachelor of Commerce	116UCCT01	(COMMON TO ALL UG BRANCHES) PART -I: LANGUAGE-
32	CMU	Bachelor of Commerce	216UTMT01/UTET01 / UHIT01/216UFRT01	I(TAMIL-I/TELUGU- I/HINDI-I/FRENCH- I) PART –I: LANGUAGE-
33	CMU	Bachelor of Commerce	116UTMTO1/U TETO1/UHITO1/116UFRT0	I I TAMIL-I/TELUGU-
34	CMU	Bachelor of Commerce	116UCOTO2	ENGLISH – I
35	CMU	Bachelor of Commerce	116UCOTO3	FINANCIAL ACCOUNTING COMPUTER
36	CMU	Bachelor of Commerce	116UCOT06	APPLICATIONS IN ACCOUNTING. SOFT SKILLS
37	CMU	Bachelor of Commerce	116UCCP001	(COMMON TO ALL UG
38	CMU	Bachelor of Commerce	216UTMTO1/U TETO1/UHITO1/216UFRT	
39	CMU	Bachelor of Commerce	216UCOT04	HUMAN RESOURCE MANAGEMENT SOFT SKILLS
40	CMU	Bachelor of Commerce	Wigher Education	COMMON TO ALL UG
				Peter's Institute of Higher Education and Deemed to be University U/S 3 of the UGC Avadi, Chennai-690 Q54



St.PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH (Deemed to be University U/S 3 of the UGC Act, 1956)

AVADI, Chennai – 600054. Tamil Nadu.

Phone:044-26558080-84 E-mail:registrar@spiher.ac.in Website:www.spiher.ac.in

NEW COURSES FOR THE ACADEMIC YEAR 2017-2018

MASTER OF COMMERCE

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	СМР	M.COM.	316PMCT01	RESEARCH METHODOLOGY
2	СМР	M.COM.	316PMCT02	KNOWLEDGE MANAGEMENT
3	СМР	M.COM.	316PMCT03	FUNDAMENTALS OF INFORMATION TECHNOLOGY
4	СМР	M.COM.	316PMCT04	CRM AND RELATIONSHIP MARKETING
5	СМР	M.COM.	316PMCT05	ADVERTISING AND SALESMANSHIP
6	СМР	M.COM.	316PMCT06	BUSINESS ETHICS,CORPORATE GOVERNANCE & SOCIAL RESPONSIBILITY
7	CMP	M.COM.	416PMCT01	MANAGEMENT INFORMATION SYSTEMS
8	CMP	M.COM.	416PMCT02	INVESTMENT ANALYSIS AND PORTFOLIO THEORY
9	CMP	M.COM.	416PMCT03	MERCHANT BANKING AND FINANCIAL SERVICES
10	CMP	M.COM.	416PMCT04	INTERNATIONAL MARKETING
11	CMP	M.COM.	416PMCT05	INTERNATIONAL MARKETING
12	СМР	M.COM.	416PMCT06	ACCOUNTING FOR TAXATION MANAGEMENT
13	СМР	M.COM.	416PMCP01	PROJECT PLUS VIVA VOCE
14	CMP	M.COM.	416PMCT05	INCOME TAX LAW AND PRACTICE

Cheunai Chennai Chenna

Registrat
Registrat
Registrat

St. Peter's Institute of Higher Education and Research

Avadia Chennai - 600 056

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

MINUTES OF THE 3^{rd} MEETING OF THE BOARD OF STUDIES IN

ECONOMICS Held on 16th March, 2018

Members Present

(1) Mrs. R. Anuradha, Asst. Professor & Head - Chairperson

(2) Dr. M. Sudhakar, Assistant Professor

- Internal Member

(3) Dr. G. Yoganantham, Professor Dept. of Economics, Thiruvalluvar University, Vellore.

- External Member

(4) Mr. Peter Sahayaraj, Director, Jayam Academic, Chennai

- External Member

Considered the minutes of the 2nd meeting of Board of Studies in Economics held 3.1

RESOLVED that the minutes of the 2nd meeting of Board of Studies in Economics held on 24.08.2017 be confirmed.

Reviewed Syllabi of Economics prescribed for Commerce and Management Studies programmes under the Regulations 2016.

RESOLVED that the Syllabi of Commerce and Management Studies programmes under the Regulations 2016 be continued.

Reviewed the Regulations & Syllabi of V & VI Semester of B. A. Economics programme under the Regulations 2016. 3.3

RESOLVED that the Regulations & Syllabi of V & VI Semester of B. A. Economics programme under the Regulations 2016 be continued. (Appendix I) Considered to include the value added courses imparting transferable and life skills offered beyond the curriculum in the syllabi of B. A. Economics.

RESOLVED that the value added courses imparting transferable and life skills offered beyond the curriculum such as course on "Financial Market and Tamil Nadu Economy" be approved for the upcoming semester (2018-19-QDD semester).

of Higher E Deemed to be University Chennai 600 054

Date: 16.03.2018

3.2

St. Peter's Institute of Higher Education and Research

(Deemed to be University U/S 3 of the UGC Act, 1958)

Avadi, Chennai-600 054.

Registral

St. Peter's Institute of Higher Education and Researci (Deemed to be University U/S 3 of the UOC Apt, 1998) Avadi, Chennai-600 054

Chairperson

Department of Economics St. Peter's Institute of Higher Education and Research Avadi, Chennai - 600 054. Tamil Nadu Ph: 044 - 2655 8080

website: www.stpetersuniversity.org

* ADIESE Higher Educar Deemed to be University Chennai

(Appendix I)

St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH B. A. ECONOMICS PROGRAMME - Regulations 2016 REGULATIONS AND SYLLABI UNDER CHOICE BASED CREDIT SYSTEM

(Effective from the Academic Year 2018-19)

V	S	eı	m	es	t	e	r

Code No.	Course Title			Credits	CA		Total
516UECT01		Macro Economics-I		4	25	75	100
516UECT02		Fiscal Economics-I		4	25	75	100
516UECT03	Core Sub:	International Economics- I		4	25	75	100
516UECT04		History of Economic Thought		4	25	75	100
516UECT05	Elective I:			6	25	75	100
516UVET01		e Education (Common to all UG		2	25	75	100
	Branches)		Total	24	150	450	600

List of Elective Paper: Elective-I (Semester V)

Course Code	Course Title	Credits	CA	EA	Total
516UECT05	Managerial Economics	6	25	75	100
516UECT06	Economics of Planning	6	25	75	100
516UECT07	Urban Economics	6	25	75	100

VI Semester

		VI Semester				TEN .
Code No.	Course '	Fitle	Credits	CA	EA	Tota
616UECT01		Macro Economics-II	4	25	75	100
616UECT02	Core	Fiscal Economics- II	4	25	75	100
616UECT03	Sub:	International Economics-II	4	25	75	100
616UECT07	Elective	II:	6	25	75	100
616UECT08	Elective		6	25	75	100
616UEAT01		Extension Activity (Common to all UG	1	-	-	-
	Branche	s)	25	125	375	500
Γotal				120	10,0	

Elective-II&III (Semester VI)

Course Title	Credits	CA	EA	Total
Tamil Nadu Economy	6	25	75	100
Environmental Economics	6	25	75	100
Financial Markets	6	25	75	100
Human Resource Development	6	25	75	100
Industrial Economics	6	25	75	100
Agricultural Economics	6	25	75	100
	Tamil Nadu Economy Environmental Economics Financial Markets Human Resource Development Industrial Economics	Tamil Nadu Economy 6 Environmental Economics 6 Financial Markets 6 Human Resource Development 6 Industrial Economics 6	Tamil Nadu Economy 6 25 Environmental Economics 6 25 Financial Markets 6 25 Human Resource Development 6 25 Industrial Economics 6 25	Tamil Nadu Economy 6 25 75 Environmental Economics 6 25 75 Financial Markets 6 25 75 Human Resource Development 6 25 75 Industrial Economics 6 25 75

Date: 16.03.2018

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Chairperson

St. Peter's Institute of Higher Education and Research

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

Registral

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

Ph: 044 - 2655 8080 website: www.stpetersuniversity.org

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

MINUTES OF THE 4th MEETING OF THE BOARD OF STUDIES IN

MICROBIOLOGY

Held on 12.02.2018

Members Present

S. No	Name	Designation	Member	Signature
1	Dr GANESAN N	Professor& Head	Chairman	N. Can
2	Dr. K. Geetha	Assistant Professor	Internal Member	K. an
3	Mr. Anandanbararsu	Assistant Professor	Internal Member	An
4	Dr D. Saravanan	Assistant Professor Department of Biochemistry D.G.Vaishnav College,Chennai 106	External Member	D. Saravarg
5	Dr J. Selvaraj	Scientist E Meenakshi Ammal Dental College, MAHER	External Member	J. Sharaj

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Chairman Professor and Head Department of Microbiology St. Peter's Institute of Higher Education & Research Deemed to be University U/S 3 of the 1'> 1 1956:

Avadi Chennai-600

4.1 Considered the minutes of the 3^h meeting of Board of Studies in Microbiology held on 25.09.2017.

RESOLVED that the minutes of the 3th meeting of Board of Studies in Microbiology held on 25.09.2017 be confirmed

Reviewed the Regulation and Syllabi of [1] & [V] semester of B.Sc. (Microbiology) under the Regulations 2016 with Choice Based Credit System (CBCS).

RESOLVED that the Syllabi of **III** & **I**V semester of B.Sc. (Microbiology) under the Regulations 2016 with Choice Based Credit System (CBCS) from the batch of students to be admitted from 2017-18 to be approved (Appendix - I).

4.3 Reviewed the Regulation and Syllabi of III & IV semester of M.Sc. (Microbiology) under the Regulations 2016 with Choice Based Credit System (CBCS).

RESOLVED that the new Regulation and Syllabi of III & IV semester of M.Sc. (Microbiology) from the batch of students to be admitted from 2017-18 under the Regulations 2020 with Choice Based Credit System (CBCS) be approved (Appendix - II).

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

of High

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(Decimed to be University U/S 3 of the UGC Act. 1950)
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programmes.

RESOLVED that the syllabi of B.Sc, Microbiology programme under the Regulations 2016 and M.Sc, Microbiology under the Regulations 2016 developed having relevance to local/national/regional/global research developmental needs with learning objectives including programme outcomes, program specific outcomes and course outcomes of all the programmes be approved.

Reviewed and considered the curriculum feedback analysis 4.5 and action taken report based on the suggestions given by the stake holders.

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

Date: 12.02.2018

Professor and Head Department of Microbiology St. Peter's Institute of Higher Education & Research Deemed to be University U/S 3 of the U. 1956

Avadi Chennai-600

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

APPENDIX I

III Semester

Code No.	Course Title	e	L	T	P	C	CA	EA	To tal
316UTMT01 /UTET01 / UHIT01/316 UFRT01		guage -III (Tamil - III / ' Hindi - III / French - III)	5	0	0	3	25	75	100
316UEHT02	Part - HEng	Part – IIEnglish –III					25	75	100
316UMBT03	Part - III	Molecular Biology	5	0	0	4	25	75	100
316UMBP01	CoreSubje ct:	Major practical III: Molecular Biology		0	4	4	40	60	100
316UMBT04	Allied -III	Bioinstrumentation	5	0	0	4	25	75	100
316UMBP02	Practical	Practical III : Bioinstrumentation		0	4	4	40	60	100
316UCCT03	Soft Skills (0	Common to all UG Branches)	5	0	0	2	50	50	100
		Total	25	0	8	24	230	470	700

IV Semester

Code No.	Course Titl	e	L	T	P	C	CA	EA	Total			
416UTMT01 /UTET01 / UHIT01/416 UFRT01		guage -IV (Tamil - IV/ / Hindi - IV /French - IV)	5	5 0 0 3 25 75			75	100				
416UEHT02	Part - IIEng	glish –IV	5	0	0	3	25	75	100			
416UMBT03	Part - III Core	Soil & Agricultural Microbiology	5	0	0	4	25	75	100			
416UMBP01	Subject:	Major practical IV: Soil & Agricultural Microbiology	0	0	4	4	40	60	100			
416UMBT04	Allied -IV	Biostatics	5	0	0	4	25	75	100			
416UMBP02	Practical	Practical IV : Biostatics	0	0	4	4	40	60	100			
416UEST01					0	2	25	75	100			
416UC CT04	Soft Skills Branches)	(Common to all UG	5	0	0	2	50	50	100			
		Total	30	0	8	26	255	545	800			

In Overall 48.3% Syllabus of B.Sc has been revised in the academic year of 2018-19

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St.Peter's Institute of Higher Education and Research M.Sc Microbiology

APPENDIX II

Semester III

						Marks			
Code No.	Course Title	L	T	P	Credit	CA	EA	Total	
316PMBT01	Microbial Genetics	5	0	0	5	25	75	100	
316PMBT02	Genetic Engineering	5	0	0	5	25	75	100	
316PMBT03	Molecular Biology	5	0	0	5	25	75	100	
316PMBT04	Institute Core-II Soil and Agricultural Microbiology	5	0	0	2	25	75	100	
316PMBT05	Extra disciplinary II Environmental Bio-technology	5	0	0	2	25	75	100	
316PMBP01	Practical III: Microbial Genetics, Molecular Biology & Genetic Engineering	0	0	4	5	40	60	100	
	Total	25	0	4	24	165	435	600	

IV Semester

	- 10 m					Marks			
Code No.	Course Title	L	T	P	Credit	CA	EA	Total	
	Food Dairy and Environmental Microbiology	5	0	0	4	25	75	100	
	PRACTICAL-IV - Soil Agricultural ,Food and Environmental microbiology		0	4	4	40	60	100	
416PMBT01	ElectiveV-Research Methodology	6	1	0	2	25	75	100	
416PMBP01	Project Work	0	0	5	10	40	60	100	
-	Total	11	1	9	20	130	270	400	

In Overall 45.4% Syllabus of M.Sc has been revised in the academic year of 2019-20

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APPENDIX III

ACTION TAKEN REPORT ON STAKEHOLDERS FEEDBACK ON CURRICULAM

DEPARTMENT OF MICROBIOLOGY

Academic Year 2017-2018

G. 1 1 11 1	Feedback	Recommendation	Action taken
Stakeholder Students	It was observed that students like have more practical sessions	Teaching pedagogy to be incorporated.	Students were insisted to take seminar classes using Power point presentation with recently referred articles
Teachers	Assessment practices need more improvement and to be activated to learn	More assessment practices and interactive session needs to be conducted	Weekly test, Continuous assessment tests & Model Exams were conducted
Alumni	Upgrading on use ICT methods were received	Teachers were requested to update the teaching methods	Faculties were requested to opt for ICT teaching methods like PPT presentation, online quiz.
Professional	Updated tendency needs to be contributed in the curriculum.	Suggestions to include topics on recent trends in market.	Faculty members were insisted to share knowledge on recent trends in market.
Employer	Requires enhancement in personality development.	Students were asked to improve their soft skills.	The Department of English was assigned to take up soft skill classes along with a daily schedule to improve the skills of the students.

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HOD/MICROBIOLOGY

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

Registrar

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MINUTES OF THE 3rd MEETING OF THE BOARD OF STUDIES IN

VISUAL COMMUNICATION

Held on 16-02-2018 **Members Present**

S.No	Name	Designation	Member	Signature
1.	Mr.S. Kanthaswami	Assistant Professor & Head	Chairman	Stange
2.	Mr. M.P. Prabhu	Assistant Professor, Department of Visual communication, Hindustan College of Arts and Science, Chennai	External Member	Downs
3.	Mr.G.Aravind	Assistant Professor, Department of Visual communication, DG Vaishnav College, Chennai.	External Member	alm).

3.1	Considered the minutes of the 2 nd meeting of Board of Studies in Visual Communication held on 24-08-2017 RESOLVED that the minutes of the 2 nd meeting of Board of Studies in Visual Communication held on 24-08-2017 be confirmed.
3.2	Reviewed the Regulations & Syllabi of V & VI Semester of B.Sc Visual Communication programme under the Regulations 2016 with Choice Based Credit System (CBCS). RESOLVED that the Regulations & Syllabi of V & VI Semester of B.Sc Visual Communication programme under the Regulations 2016 with Choice Based Credit System (CBCS) be continued.(Appendix-I)
3.3	Considered to include courses having focus on local needs / employability / entrepreneurship /skill development in the syllabi of B.Sc Visual Communication under the Regulations 2016 RESOLVED to include courses having focus on local needs /employability / entrepreneurship /skill development in the syllabi of B.Sc Visual Communication under the Regulations 2016.

Date: 16-02-2018

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St. Peter's Institute of Higher Education and Research

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Appendix-I

St.PETERS INSTITUTE OF HIGHER EDUCATION AND RESEARCH B.Sc VISUAL COMMUNICATION PROGRAMME -Regulations 2016 REGULATIONS AND SYLLABI UNDER CHOICE BASED CREDIT SYSTEM (Effective from the Academic Year 2018-19)

V Semester

			Credit		Marks	
a l No	Course	Course Title		CA	EA	Total
Code No.	Course		- 5	25	75	100
516UVCT01		Media, Culture and Society				
	Core	Television Production	5	25	75	100
516UVCT02	Sub:		5	V.20	R.80	100
516UVCP01		Web Publishing [Practical]				
			5	V.20	R.80	100
516UVCP02		Advertising Photography [Practical]				
			2	25	75	100
516UVET01	Part I (Com	V: Value Education mon to all UG Branches)				
		11	5	40	60	100
516UVCP03	Proje	ct [Phase 1]		155	445	600
		Tota	al 27	155	443	

VI Semester

			Credit		Marks	
	Tid.			CA	EA	Total
Code No.	Course Titl		4	25		100
616UVCT01		Media Organization	4	V.20	R.80	100
616UVCP01	Core TV Production Practice [Practical]					
	Subjecti	3 D Animation [Practical]	4	V.20	R.80	100
616UVCP02	- t tDI		5	40	60	100
616UVCP03	Project [Pl		5	40	60	100
616UVCP04	Project [P		1	40	60	100
616UEAP01	Extension Branches	Activity (Common to all UG)				700
		Total	23	185	415	500

Date: 16-02-2018

Deemed to be University Chairman

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Registrar Dept. of Visual Communication
St. Peter's Institute of Higher Education and Researche of Higher Ed Registrar Dept. of Visual Communication

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MINUTES OF THE 5^{th} MEETING OF THE BOARD OF STUDIES IN **PHYSICS**

Held on 15th March, 2018

Members Present

S. No	Name of the Member	Designation	Member	Signature
1.	Dr. S. Stella Mary	Department of Physics SPIHER		David
2.	Dr. S. Gunasekaran	Professor Department of Physics SPIHER	Member	
3.	Dr. M. Parasuraman	Professor Department of Physics SPIHER	Member	Mayson
4.	Mrs. R. Ramalakshmi	Assistant Professor Department of Physics SPIHER	Member	Dan-Ju
5.	Dr G. Anbalagan	Professor Department of Nuclear Physics University of Madras, Guindy Chennai	Academic Expert Member	Auhul
6.	Mr. S. L. Balaji	Mr. S. L. Balaji Mobtron Enterprizes, Kilpauk Chennai	Industry Expert Member	Sh Balaj:

St. Peter's Institute of Higher Education for the Search (Deemed to be University U/S 3 of the U/G be 1/55)

Avadi, Chennai-60 Chairperson

Dr. S. STELLA MARY, M.Sc. M.Phil., Ph.D.,
Professor & Feed, (Research Supervisor)
Der a result of Physics
St. Peter's Institute of Higher Education and Research
Avadi, Chennal. - 600 054.

5.1	Considered the minutes of the 4 th meeting of Board of Studies in Physics held on 24.08.2018.
	RESOLVED that the minutes of the 2 nd meeting of Board of Studies in Physics held on 24.08.2018 be confirmed.
5.2	Reviewed Syllabi of Engineering Physics prescribed for Engineering and
500 L. A.	Technology programmes under the Regulations 2013, 2015 and 2017.
	RESOLVED that the Syllabi of Engineering Physics prescribed for
	Engineering and Technology programmes under the Regulations 2013 2015 and 2017 be continued.
5.3	Reviewed Syllabi of Engineering Physics prescribed for Engineering and
	Technology programmes under the Regulations 2018.
	RESOLVED that the Syllabi of Engineering Physics prescribed for
The second	Engineering and Technology programmes under the Regulations 2018 be
	approved.
5.3	(Appendix I) Paying and the Pagulation & Syllahi of H. S. IV. S.
3.5	Reviewed the Regulation & Syllabi of III & IV Semester of B.Sc Physics programme under the Regulations 2016.
F	RESOLVED that the Regulation & Syllabi of III & IV Semester of B.Sc
	Physics programme under the Regulations 2016 be continued with the
	addition of new courses be continued.
= 1/8	(Appendix II)
5.4	Reviewed the Syllabi of Allied Physics I and II prescribed for B,Sc
	Computer Science, Mathematics and Chemistry programme under the
	Regulations 2016.
	RESOLVED that the Syllabi of Allied Physics I and II prescribed for B,Sc
	Computer Science, Mathematics and Chemistry programme under the Regulations 2016. be continued.
5.5	Reviewed the Regulation & Syllabi of I & II Semester of M.Sc Physics
	programme under the Regulations 2018.
	RESOLVED that the Regulation & Syllabi of I & II Semester of M.Sc
Transfer of	Physics programme under the Regulations 2018 be approved.
	(Appendix II)
	Reviewed the Regulation & Syllabi of M.Phil Physics programme under
	the Regulations 2018.
	RESOLVED that the Regulation & Syllabi of M.Phil Physics programme
E (under the Regulations 2018 be approved.
5.6	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
	RESOLVED that the value-added courses imparting transferable and life s offered beyond the curriculum such as course on "Energy Storage Devices"
	approved for the upcoming semester (2018-19-ODD semester).
	approved for the appointing semester (2018-19-ODD semester).
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Date: 15.03.2018

Registrar
St. Peter's Institute of Higher Education and Maskatski
(Deemed to be University U/S 3 of the UGC According Avadi, Chennai 600 0534)

Chairperson

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

(Appendix I)

St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

B.E/B.Tech

Common to Non-Circuit Branches of Engineering & Technology

Effective from the Academic Year 2018-19

REGULATIONS AND SYLLABI UNDER CHOICE BASED CREDIT SYSTEM

I Semester

Code No.	Course Title		L	Т	Р	Credit	Total		Marks				
							Credits	CA	EA	Total	Combined Total		
Theory & Practical		38									rotar		
118PHT01	Physics	Theory	3	1	0	4		25	75	100	100		
118PHP01	FITYSICS	Practical	0	0	3	2	6	25	75	100			
118CST02(CSE) /118MAT02(Others)	Mathematics -I		3	1	0	4 .	4	.25	75	100	100		
118BET03	Basic	Theory	3	1	0	4		25	75	100			
118BEP02	Electrical Engineering	Practical	0	0	2	1	5	25	75	100	100		
118EGT04	Engineering	Theory	1	0	0	1		25	75	100			
118EGP03	Graphics & Design	Practical	1	0	4	2	3	25	75	100	100		
		Total	11	7	9	18	18	175	525	700	400		

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Appendix II

I Semester

						Marks			
CodeNo.	CourseTitle	L	T	P	Credit	CA	EA	Total	
ATMT1601/ AHIT1601/ ATET1601/ AFRT1601	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	
A	Allied-I	6	1	0	6	40	60	100	
APHT1601	Mechanics and Properties of Matter	5	0	0	4	40	60	100	
APHL1601	Properties of Matter lab	0	0	4	2	40	60	100	
	Total	25	1	4	22	240	360	600	

II Semester

						I	KS.	
CodeNo.	CourseTitle	L	LT		Credit	CA	EA	Total
ATMT1602/ AHIT1602/ATET 1602/AFRT1602	Language – II(Tamil/Hindi/Telugu/French)	5	0	0	4	40	60	100
AENT1639	English– II	5	0	0	4	40	60	100
A	Allied-II	6	1	0	6	40	60	100
AEVT1601	Environmental Science	2	0	0	2	40	60	100
APHT1602	ThermalPhysicsand Acoustics	5	0	0	4	40	60	100
APHL1602	Thermal Physics and Acousticslab	0	0	4	2	40	60	100
ASSL1601	Soft Skills–I	0	0	2	1	100	-	100
APHI1601	Internship-I	0	0	0	1	100	-	100
	Total	23	1	6	24	440	360	800

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118PHT01	PHYSICS	L	T	P	C
		3	0	0	2
Pre-requisite:	None				
Course Object					
	understand the basic concepts in basic Newtons equations.		* *		
• To	have an overall idea about the conservation of energy				
• To	understand the basics of frames of reference				
• To	have an insight on the different motions of bodies				
• To	acquire knowledge on the basics of rigid body				

Module 1: Transformation of scalars and vectors under Rotation transformation: Forces inNature; Newton's laws and its completeness in describing particle motion; Form invariance of Newton's Second Law; Solving Newton's equations of motion in polar coordinates; Problems including constraints and friction; Extension to cylindrical and spherical coordinates

Module 2: Potential energy function; F = - Grad V, equipotential surfaces and meaning ofgradient; Conservative and non-conservative forces, curl of a force field; Central forces; Conservation of Angular Momentum; Energy equation and energy diagrams; Elliptical, parabolic and hyperbolic orbits; Kepler problem; Application: Satellite manoeuvres;

Module 3: Non-inertial frames of reference; Rotating coordinate system: Five-term acceleration formula. Centripetal and Coriolis accelerations; Applications: Weather systems, Foucault pendulum;

Module 4: Harmonic oscillator; Damped harmonic motion – over-damped, critically dampedand lightly-damped oscillators; Forced oscillations and resonance.

Module 5: Definition and motion of a rigid body in the plane; Rotation in the plane; Kinematics in a coordinate system rotating and translating in the plane; Angular momentum about a point of a rigid body in planar motion; Euler's laws of motion, their independence from Newton's laws, and their necessity in describing rigid body motion; Examples.

Module 6: Introduction to three-dimensional rigid body motion — only need to highlight the distinction from two-dimensional motion in terms of (a) Angular velocity vector, and its rate of change and (b) Moment of inertia tensor; Threedimensional motion of a rigid body wherein all points move in a coplanar manner: e.g. Rod executing conical motion with centerof mass fixed — only need to show that this motion looks two-dimensional but is three- dimensional, and two-dimensional formulation fails.

Suggested Reference Books

St. Peter's Institute of Higher Education and Rosear

- ference Books

 (i) Engineering Mechanics, 200 ed. AMK Hall MK Haldemed to be University U/S 3 of the UGC act 195
- Avadi, Chennai-600 054
- (iii) An Introduction to Mechanics D Kleppner R Kolenkow

(iv) Principles of echanics—4919 Synge BA Griffiths (v) Mechanics — JP Den Hartog

- (vi) Engineering Mechanics Dynamics, 7th ed. JL Meriam
- (vii) Mechanical Vibrations JP Den Hartog

Course Outcome:

After completion of the course students will be able

CO1: To understand the basic concepts in basic Newtons equations.

CO2: To have an overall idea about the conservation of energy

CO3: To understand the basics of frames of reference

CO4: To have an insight on the different motions of bodies

CO5: To acquire knowledge on the basics of rigid body



Registrar

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ICS LABORATORY				
	0	0	4	2
		0	0 0	0 0 4

To introduce different experiments to test basic understanding of physics concepts applied in optics

To introduce different experiments to test basic understanding of physics concepts applied in thermal physics

To introduce different experiments to test basic understanding of physics concepts applied in properties of matter and liquids.

To acquire knowledge on the measuring instruments

LIST OF EXPERIMENTS: PHYSICS LABORATORY (Any five)

1. Determination of Moment of Inertia and rigidity modulus – Torsion pendulum

2. Determination of Young's modulus by non-uniform bending method

3. Determination of thermal conductivity of a bad conductor – Lee's Disc method

4. RC coupled Oscillator

5. Ultrasonic Interferometer-Determination of Velocity of andcompressibility Ultrasonic waves of the given liquid

6. Experiments with gyroscope

7. Experiments on an air track

Course Outcome:

After completion of the course students will be able

CO1 To introduce different experiments to test basic understanding of physics concept applied in optics

CO2 To introduce different experiments to test basic understanding of physics concepts applied in thermal physics

CO3 To introduce different experiments to test basic understanding of physics concepts applied in properties of matter and liquids.

CO4 To acquire knowledge on the measuring instruments

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St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH B.E/B.Tech

Common to Circuit Branches of Engineering & Technology

Effective from the Academic Year 2018-19

REGULATIONS AND SYLLABI UNDER CHOICE BASED CREDIT SYSTEM

II Semester

Code No.	Course Title		L	T P Credit Total			Total		- 1	Marks		
		* = 2					Credit	CA	EA	Total	Combined Total	
Theory & Practica						51	4					
218PHT01	Dhysics	Theory	3	1	. 0	4	6	25	75	100	100	
218PHP01	Physics	Practical	0	0	3	2		25	75	100	100	
218CST02(CSE) / 218MAT02(Others)	Mathematics -I	I	3	1	0	4	4	25	75	100	100	
218PPT03	Programming	Theory	3	0	0	3		25	75	100		
218PPP02	for Problem Solving	Practical	0	0	4	2	5	25	75	100	100	
218WMT04	Workshop /	Theory	1	0	0	1		25	75	100		
218WMP03	Manufacturing Practices	Practical	0	0	4	2	3	25	75	100	100	
		Total	10	2	11	18	18	175	.525	700	400	

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Avadi, Chennai-600 054



118PHT01	PHYSICS	L	T	P	C
		3	0	0	2
Pre-requisi	te: None		e e	. 3	
Course Obj	ectives:				
	To understand the basic concepts of wave nature of particles				
•	To have an overall idea about the solids			. 1	
	To understand the basics of magnetostatics				
	To have an insight on Electrostatics				
	To acquire knowledge on the basics of Laser				

Module 1: Wave nature of particles and the Schrodinger equation: Introduction to Quantum mechanics, Wave nature of Particles, Time-dependent and timeindependent Schrodinger equation for wavefunction, Born interpretation, probability current, Expectation values, Free-particle wavefunction and wave-packets, Uncertainty principle.

Module 2: Introduction to solids: Free electron theory of metals, Fermi level, density of states, Application to white dwarfs and neutron stars, Bloch's theorem for particles in a periodic potential, Kronig-Penney model and origin of energy bandsNumerical solution for energy in one-dimensional periodic lattice by mixing planewaves.

Module 3: Magnetostatics: Bio-Savart law, Divergence and curl of static magnetic field; vector potential and calculating it for a given magnetic field using Stokes' theorem; the equation for the vector potential and its solution for given current densities.

Module 4: Electrostatics in a linear dielectric medium: Electrostatic field and potential of a dipole. Bound charges due to electric polarization; Electric displacement; boundary conditions on displacement; Solving simple electrostatics problems in presence of dielectrics-Point charge at the centre of a dielectric sphere, charge in front of a dielectric slab, dielectric slab and dielectric sphere in uniform electric field. Module 5: Wave optics: Huygens' principle, superposition of waves and interference of light by wave front splitting and amplitude splitting; Young's double slit experiment, Newton's rings, Michelson interferometer, Mach-Zehnder interferometer. Farunhofer diffraction from a single slit and a circular aperture, the Rayleigh criterion for limit of resolution and its application to vision; Diffraction gratings and their resolving power.

Module 6: Lasers: Einstein's theory of matter radiation interaction and A and B coefficients; amplification of light by population inversion, different types of lasers: gas lasers (He-Ne, CO₂), solid-state lasers(ruby, Neodymium), dye lasers; Properties of laser beams: mono-chromaticity, coherence, directionality and brightness, laser speckles, applications of lasers in science, engineering and medicines.

Suggested Text Books

(i) David Griffiths, Introduction to Electrodynamics

Suggested Reference Books

(iv) Ian G. Main, Oscillations and waves in hysical

(v) H.J. Pain, The physics of vibrations and waves

(vi) A. Ghatak, Optics

(vii) O. Svelto, Principles of Lasers

(viii) Halliday and Resnick, Physics

(iii) Eisberg and Resnick, Introduction to Wantum Physics Pasmed to be University U/\$ 3 of the U Deemed to be University UIS 3 of the Upi. Avadi, Chennai-600 054

E. Hecht, Optics

(ix) W. Saslow, Electricity, magnetism and light

(x) D. J. Griffiths, Quantum mechanics

Course Outcome:

After completion of the course students will be able

CO 1 To understand the basic concepts of wave nature of particles

CO 2 To have an overall idea about the solids

CO 3To understand the basics of magnetostatics

CO 4To have an insight on Electrostatics

CO 5To acquire knowledge on the basics of Laser



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

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NEW COURSES FOR THE ACADEMIC YEAR 2018-2019

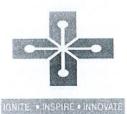
M.Sc. - PHYSICS

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	PHP	M.Sc Physics	118PMPT02	CLASSICAL MECHANICS & RELATIVITY
2	PHP	M.Sc Physics	118PMPT03	QUANTUM MECHANICS- I
3	PHP	M.Sc Physics	118UPHT04	INTEGRATED CIRCUITS & MICROPROCESSOR 8085
4	PHP	M.Sc Physics	118PMPP01	ADVANCED PHYSICS & ELECTRONICS
5	PHP	M.Sc Physics	118PMST01	SOFT SKILLS I
6	PHP	M.Sc Physics	218PMPT01	STATISTICAL MECHANICS
7	PHP	M.Sc Physics	218PMPT02	QUANTUM MECHANICS- II
8	PHP	M.Sc Physics	218PMPT03	SPECTROSCOPY
9	PHP	M.Sc Physics	218PMPE01	MEDICAL PHYSICS
10	PHP	M.Sc Physics	218PMPE02	CRYSTAL GROWTH AND CHARACTERIZATION
11	PHP	M.Sc Physics	218PMPE03	BIO MATERIAL SCIENCE
12	PHP	M.Sc Physics	218PMPP01	ADVANCED PHYSICS & MICROPROCESSOR 8085
13	PHP	M.Sc Physics	218PMST02	SOFT SKILLS II
14	PHP	M.Sc Physics	418PMPE05	ELECTRONICS IN DAILY LIFE SCIENCES
15	PHP	M.Sc Physics	118PMPT01	MATHEMATICAL PHYSICS



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NEW COURSES FOR THE ACADEMIC YEAR 2018-2019

B.Sc. - PHYSICS

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	PHU	B.Sc Physics	316UPHT03	OPTICS
2	PHU	B.Sc Physics	316UPHP01	MAJOR PRACTICAL III
3	PHU	B.Sc Physics	316UPHT04	ALLIED CHEMISTRY I
4	PHU	B.Sc Physics	316UPHP04	ALLIED CHEMISTRY PRACTICAL I
5	PHU	B.Sc Physics	316UCCT01	SOFT SKILLS
6	PHU	B.Sc Physics	416UPHT03	ATOMIC PHYSICS
7	PHU	B.Sc Physics	416UPHP01	MAJOR PRACTICAL IV
8	PHU	B.Sc Physics	416UPHT04	ALLIED CHEMISTRY II
9	PHU	B.Sc Physics	416UPHP04	ALLIED CHEMISTRY PRACTICAL II
10	PHU	B.Sc Physics	518UPHT05	COMMUNICATION PHYSICS



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