

St. Xavier's Catholic College of Engineering, Chunkankadai, Nagercoil – 629003

Department of Humanities and Sciences

Board of Studies Meeting Minutes # 02

Date: 06/06/2023

Time: 11.00 am – 1.00 pm

Venue: Hybrid Mode (Board Room)

The second BOS meeting for the department of Humanities and Sciences, SXCCE was conducted on 06/06/2023 at 11.00 am in Board Room. The First Year Co-ordinator, all the Heads of Humanities and Sciences, and faculty members of Humanities and Sciences attended the meeting along with a university nominee, two expert members from other institutions. F. Adline Aruna, Asst.Prof, department of English delivered the welcome address. Our Principal Dr.J.Maheswaran gave an introductory talk. Dr. D. Judson Co-ordinator, Department Humanities and Sciences presented the First BoS meeting minutes and explained the actions and decisions taken by each department.

Revised Syllabi for Chemistry, Physics and English, second semester is presented by Dr. V. Sreeja, Dr. S. Edwin Gladson and Dr. J. Mary Vanaja. Detailed Curriculum for Mathematics, third and fourth semester is presented by Dr. V. Viji Mon Moni. Mrs. T. Berjin Magizha presented the Syllabus of Transforms and complex Functions for Electrical and Electronics Engineering, third semester. Dr. L. Mary Florida presented the Syllabus of Discrete Mathematics for third semester Computer Science and Engineering, Information Technology and Artificial Intelligence and Data Science. Dr. M. Felix Nes Mabel presented the Syllabus of Linear Algebra and Transforms for Electronics and Communication Engineering, third semester. Mrs. M. Alexlin Sahaya Ithal presented the Syllabus of Transforms and Partial Difference Equation for Civil and Mechanical Engineering, third semester. Mrs. S. Asha Alice presented the Syllabus of Probability and Advanced Statistics for Artificial Intelligence and Data Science, fourth semester.

University Nominee for BoS

1. Dr. T.V. Siva Subramania Pillai, Head, Department of Physics, University College of Engineering, Nagercoil.

Expert Members in the Subject from outside the college

1. Prof. Dr. S. Monikandan, Head, Department of mathematics, Manonmaniam Sundaranar University, Tirunelveli.

Expert Members in the Subject from other institutions [ONLINE]

1. Dr. J. Mary Gladis, Associate Professor, Department of Chemistry, Indian Institute of Space Science and Technology, (IIST), Trivandrum.

Agenda for the Meeting

- 2.1. Confirmation of First BoS meeting minutes held on 16/11/2022 and Decision/Action taken report.
- 2.2. Discussion on the Suggestions / Recommendations offered by the members in the first Academic Council meeting and the first Governing Body meeting.
- 2.3. Presentation of the proposed curriculum and getting recommendation for approval for the II year detailed draft syllabi of UG Programmes for regulation 2022.
- 2.4. Ratification for including Naan Mudhalvan courses and Tamil courses as per the directions of Anna University & Government of Tamilnadu
- 2.5. Other matters if any.

2.1 Confirmation of First BoS meeting minutes held on 16/11/2022 and Decision/Action taken report

1st Board of Studies Meeting minutes and Decision/Action Taken report

Chemistry - BoS Suggestions and Action taken

Suggestions	Action Taken	Remarks
The experts suggested to add solar desalination	Added Solar desalination in Unit I of Engineering Chemistry	Confirmed by BOS
The experts suggested to give energy storage as a separate unit and also to add Nano materials in energy storage.	Energy storage as a separate unit has been included in the revised syllabus.	Confirmed by BOS
It was suggested to add combustion of fuels in unit III	Added combustion in unit III	Confirmed by BOS
They asked to include insulation materials as one of the engineering materials.	Added glass (insulating material) in unit V	Confirmed by BOS

Second semester – Environment and Sustainability

Suggestions given	Actions taken	Remarks
The experts suggested to add treatment techniques	Added waste water treatment in Unit III	Confirmed by BOS
The experts suggested to give real time measurements of pollution	Analysis of water sample is modified as waste water analysis in practical.	Confirmed by BOS

To add one more credit	Credit was made as three	Confirmed by BOS
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Physics - BoS Suggestions and Action taken

Suggestions given	Actions taken	Remarks
The Content is not much sufficient and experts asked to add more contents on Thermo Physics.	Following topics were added Types of Elastic moduli Factors affecting elasticity I shaped Girders Thermodynamics Isothermal and adiabatic process Otto cycle Diesel cycle. Magnetostriction method Deduction of Wien's displacement law and Rayleigh Jean's law Bravais lattices	Confirmed by BOS
Add laser practical in the second semester.	The practical topic laser is included in second semester	Confirmed by BOS
Transfer Torsional Pendulum to first semester.	The topic was moved to first semester	Confirmed by BOS
Advised to conduct practicals related to the Syllabus.	It is decided to conduct the practicals related to the syllabus.	Confirmed by BOS
It is advised to add Reference for each section.	Added the relevant reference	Confirmed by BOS
Advised to rearrange the 4 th unit Thermal comfort.	The topic was rearranged.	Confirmed by BOS

English - BoS Suggestions and Action taken

Suggestions given	Actions taken	Remarks
First Semester communicative English syllabus has 3 credits and practical is more.	The practicals are reduced as per the credit.	Confirmed by BOS
Recommended to conduct more	Added the relevant content	Confirmed by BOS

GD's and case studies.	in syllabus	
In the II Semester English syllabus it is advised to add Letter writing, Calling quotation and Tender.	Added Letter writing in unit II	Confirmed by BOS

Mathematics - BoS Suggestions and Action taken

Suggestions	Actions taken	Remarks
<u>Matrices and Calculus:</u> Change the sub title Cayley Hamilton Theorem of first unit into Problem Solving using Cayley Hamilton method in "Matrices and Calculus" syllabus.	The subtitle was changed as Problem Solving using Cayley Hamilton method in the syllabus.	Confirmed by BOS
<u>Statistics and Numerical Methods :</u> - In Unit III the title could be changed as "Numerical solutions of equations" and also Pivoting and Eigen values using power method can be removed. - In unit IV Simpson's $3/8^{th}$ rule can also be added	Statistics and Numerical Methods : - The title of unit III is changed as "Numerical solutions of equations" and the mentioned topic has been removed from the syllabus. - In unit IV Simpson's $3/8^{th}$ rule has been added.	Confirmed by BOS
Add Indian author's books in textbook section and foreign author's books in Reference section.	Arranged in the suggested order.	Confirmed by BOS
Better to mention the concerned text book for the particular unit as it will be useful for the question setter and students	All the units are covered in the text books and Reference books listed.	Confirmed by BOS
All PG program Mathematics paper titles should be changed as per the contents.	All the titles of the PG program mathematics papers including MBA and MCA are changed. The following are the changes made as per the suggestions: - Statistical methods for Construction Engineers - Advanced Mathematical methods for Structural Engineers	Confirmed by BOS

	• Applied Probability and Statistics for Computer Engineers • Advanced Mathematics for Applied Electronics Engineers • Applied Mathematics for Medical Engineers. • Applied Mathematics for Communication Engineers • Applied Mathematics for Power Electronics Engineers • Mathematical Statistics for Computer Applications • Statistics for Management Studies • Operations Research for Management Studies	
The PG syllabus for three units should be specified common to the department level and two units must be in the concerned discipline.	As per the suggestion the PG syllabus has been modified.	Confirmed by BOS
In ME Communication Engineering and ME Power Electronics, Fourier Transform with Advanced Applications may be added.	In both the PG programs "Fourier Transform with Advanced Applications" has been introduced as per the suggestion.	Confirmed by BOS

2.2 Discussion on the Suggestions / Recommendations offered by the members in the I Academic Council meeting and the I Governing Body meeting.

- General suggestions were offered by the members and there were no Programme specific suggestions.

Suggestions/ Recommendations	Decisions / Action taken	Remarks
It is recommended to include one more BOS member from Chemistry Department.	The BOS member is identified. Dr. J. Mary Gladis, Associate Professor, Department of Chemistry, IIST, Trivandrum.	Confirmed by BOS

	The BOS member in chemistry department is called for the second BOS meeting.	
Recent References may be included in the syllabus	Recent references are included.	Confirmed by BOS

2.3 Presentation of the proposed curriculum and getting recommendation for approval of the II year detailed draft syllabi for UG Programmes (regulation 2022)

After the presentation of curriculum for Mathematic course for the third and fourth semesters, the following suggestions were given by the BOS members.

Mathematics - Semester III

Transforms and complex Functions

- As the syllabus for **Transforms and complex Functions** syllabus is vast, it was suggested to include "proof excluded" near the specific topics, where ever required.

Discrete Mathematics

- Rearrange the order of the titles in syllabus according to the text book.

Linear Algebra and Transforms

- Include Basic Algebraic Structures in Unit I.
- Change the sub-heading in Unit I from Vector Space of R^n , Polynomial $P(F)$ and Matrix $M_{m \times n}$ to Different types of Vector Spaces (R^n , $P(R)$) and Matrix only.

Transforms and Partial Difference Equation

- Z-transform and Fourier transform are not necessary for Civil and Mechanical Engineering.
- Based on GATE syllabus, include Laplace transform and Inverse Laplace transform as the last two units for both Civil and Mechanical Engineering.

Mathematics - Semester IV

Probability and Advanced Statistics

- Change the subject name of Probability and Advanced Statistics to Mathematical Statistics
- It was suggested to combine the last two sections into a single section in Unit III.

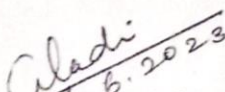
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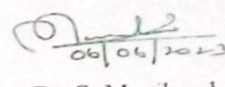
Change the subject name of Probability and Advanced Statistics to Mathematical Statistics for Artificial Intelligence and Data Science, fourth semester.

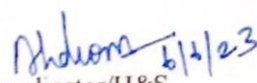
2.4 Ratification for including Naan Mudhalvan courses and Tamil courses as per the directions of Anna University & Government of Tamilnadu

- The BOS members ratified the inclusion of Naan Mudhalvan courses.
- Tamil courses – Ariviyal **Tamil** (scientific thoughts and studies in **Tamil**) and Tamilar Marabu (Heritage of Tamils) have been included.

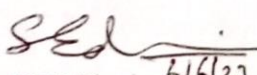

Dr. T. V. Siva Subramania Pillai
(University Nominee)

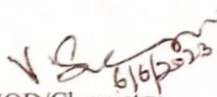

Dr. J. Mary Gladis
(Subject Expert)

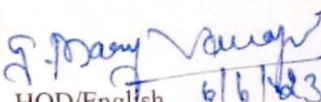

Dr. S. Monikandan
(Subject Expert)

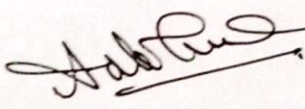

Coordinator/H&S
Dr. D. Judson


HOD/Mathematics
Dr. V. Vijimon Moni


HOD/Physics
Dr. S. Edwin Gladson


HOD/Chemistry
Dr. V. Sreeja


HOD/English
Dr. J. Mary Vanaja


Academic Dean
Dr. R. P. Anto Kumar


Principal
Dr. J. Maheswaran