MVPS's KBTCOE Department of Applied Sciences & Humanities.

Minutes of Meeting Board of Studies (BoS) Meeting-1

Date: 30th August 2024, at 1.00 pm.

The meeting was held at 1.00 pm. hosted online on Google Meet platform as well as In Person.

Following Members were present in the meeting:

Sr. No.	Name of the Member	Designation
1	Dr. S.J.Kokate	Chairman
2	Dr. Y. R. Suryawanshi	Member (Chemistry Subject Expert)
3	Dr. G. Murali	Member (Mathematics Subject Expert)
4	Dr.R. S. Panajkar	Member (Physics Subject Expert)
5	Mr. Manas Gajare	Member (Industry Representative)
6	Mr. Satwik Gadekar	Member (Alumni representative)
7	Prof.Krishnan K	Member (IKS Subject Expert)
8	Dr. Tushar C. Patil	Member (Communication Skills Expert)
9	Mr. Hemant P.Patil	Member (Co- curricular courses)
10	Dr. S.M.Bhati	Member
11	Mr. N.B.Desale	Member
12	Ms. J.J.Nerkar	Member
13	Ms. J.V.Pagar	Member
14	Ms. V.A. Tamboli	Member
15	Ms. G.B.Bahare	Member
16	Mr. D.P.Birar	Member
17	Ms. A.S.Gore	Member
18	Ms. A. A. Malpure	Member
19	Ms. R.B.Thakare	Member
20	Ms. S.H.Deore	Member
21	Ms. P.S. Khelukar	Member
22	Dr. R.S.Kare	Member
23	Ms. P.R. Kothawade	Member
24	Ms. R.V.Shinde	Member
25	Ms. A. D. Kadam	Member
26	Ms. U.M.Chine	Member
27	Mr. D.N.Nathe	Member

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Agenda:

1.1 Introduction to Board of Studies members.

1.2 Approval of proposed curricula of First Year B.Tech. courses of Applied Sciences and Humanities [Engineering Chemistry, Engineering Physics, Engineering, Engineering Mathematics I & II, Professional communication Skills, Indian Knowledge system and Co-Curricular courses-I and II)

1.3 Suggestions from BoS members.

1.4 Discussion of any additional agenda items with the permission of the Chair.

1.5 Appointment of Subject Chairman

1.6 Concluding remark.

Agenda 1.1: Introduction of Board of Studies members: Dr. S. J. Kokate, Chairman of BoS opened the meeting by welcoming and presenting brief highlights about the Institute and Applied Sciences & Humanities Department and introduced the external members to the internal members. The Chairman placed the following agenda for the deliberations and discussions of the members. The deliberations made during the meeting are given below.

Agenda 1.2.1: Approval of proposed Structure of First Year B.Tech.: The meeting began with presentation of F.Y.B.Tech structure by Chairman.

Resolution 1.2.1: BoS members reviewed and resolved to approve the proposed structure of F.Y.B.Tech as per Annexure- 1 & 2 for (Semester 1 & 2). BoS members recommended to the Academic Council for further approval.

Agenda 1.2.2: Approval of proposed curricula of First Year B.Tech. Courses of Applied Sciences & Humanities. [Engineering Chemistry, Engineering Physics, Engineering, Engineering Mathematics I & II, Professional communication Skills, Indian Knowledge system and Co-Curricular courses-I and II). Curriculum draft of Applied Science and Humanities department presented by faculties of respective subject to the BoS members. Engineering Mathematics- I was presented by Dr. S.M.Bhati and Engineering Mathematics-II syllabus draft was presented by Ms. J.J.Nerkar through online mode. Engineering Physics syllabus was presented by Mr. N.B.Desale via online mode. Engineering Chemistry syllabus draft was presented by Ms. G.B.Bahare offline mode, Professional Communication Skills was presented by Ms. P.R.Kothawade via offline mode and Co-curricular courses syllabus was presented by Dr. R.S.Kare.

Agenda 1.3: Suggestions from BoS members: After deliberation with subject experts and BoS Members following recommendations were given by board.

Engineering Mathematics-I: External BoS subject expert Dr. G.Murali has proposed to add normal form

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in Unit I. Add properties of Eigen value and eigen vectors, nature of quadratic form like positive and negative definite in Unit-II. Dr.G.Murali suggested to add Jacobian, Functional dependence in Unit-V.

Engineering Mathematics-II: External BoS subject expert Dr. G.Murali had suggested to add one more hour of teaching for this unit if feasible. Add decay problem and exponential growth problem in Unit-II. For Unit III, properties of Beta and gamma function were suggested to be added in the content. For Unit IV following suggestions were given: 1) If possible do some reduction of content in this unit. 2) Remove tracing of curve. 3) Add change of variable for integration.

Engineering Chemistry: BoS subject expert Dr. Y.R. Suryawanshi has suggested following changes in the Engineering Chemistry syllabus: Reduce the content of Unit -I Analytical Aspects of water. Demineralization method of water treatment can be removed. In Unit –II the study of cells should be reconsidered with regards to number of lectures for the unit. Unit-III Minimize the use of engineering word. add classification of polymers in content. Add synthesis of quantum dots. In the topic Green Chemistry add Atom economy numerical._For Unit-IV Dr. Y.R.Suryawanshi suggested to add refining of petroleum. Octane number, Cetane number concepts and remove Boy's Gas Calorimeter and Ultimate analysis and its numerical._For Unit-V suggestions were to reduce metal coatings method as well as surface coatings and paints part from the proposed content.

Engineering Physics: External BoS subject expert Dr. Rohini Panajkar suggested following instructions in the proposed syllabus of Engineering Physics:- CO_2 laser could be replaced by Semiconductor laser in Unit-I Add Introduction to Qubit in Unit-III. Topic diffraction need to be removed from. Unit-IV as it is already covered in previous class. Add Engineering applications of XRD in Unit-5.

Professional Communication Skills: BoS Subject Expert Dr. Tushar Patil suggested Ms. P.R.Kothawade to make following changes in the proposed syllabus:- Need to revise content of Unit-I, Change the title of Unit –II Shuffle the content in Unit- III. Design the syllabus considering the areas of life skills, Mock interviews and personal grooming of students. Chinese whisper activity is for ice breaker and conduct story telling activity as an assignment.

Indian Knowledge Systems: Revision of the Second Course Objectives: Dr. Krishnan suggested revisiting the second course objectives to ensure they align with the current trends in Indian Knowledge Systems and engineering education. The objective must focus on practical applicability and relevance to modern-day engineering challenges. **Inclusion of Water Management Systems:** It was proposed to integrate ancient Indian water management systems into the curriculum. This would include traditional methods of water

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conservation, watershed management, and their relevance to contemporary engineering practices. Examples like step wells, tanks, and other indigenous techniques can be studied and understood in the context of sustainable water management solutions. **Introduction of Agricultural Systems:** Dr. Krishnan recommended adding a section on traditional agricultural systems in India. This could cover irrigation methods, sustainable farming practices, and crop management techniques that have been historically significant in India's agrarian economy. Students should explore how these systems can inspire modern sustainable agriculture. **Learnings from the Bhagavad Gita in Unit 4:** It was suggested to incorporate teachings from the Bhagavad Gita, specifically focusing on ethics, leadership, decision-making, and self-management. These philosophical insights could be beneficial for engineering students in understanding moral responsibilities and leadership in the field.

Laboratory Component: Dr. Krishnan emphasized adding a practical component to the curriculum where students are required to visit historical monuments. The objective is to study the structural and sustainable aspects of these monuments. Each student would be responsible for an individual visit, followed by a report detailing their observations on structural techniques and sustainability features of the monuments. This would help bridge the gap between traditional knowledge and modern engineering.

Resolution 1.3: BoS members discussed the suggestions from external experts and incorporated them into syllabus. BoS members reviewed and resolved to approve the proposed curriculum of Engineering Mathematics-I (100101), Engineering Mathematics-II (100201), Engineering Physics (100102), Engineering Chemistry (100202), Co-Curricular Courses – I (100108), Co-Curricular Course-II (100208), Indian Knowledge System (100207), Professional Communication Skills (100107). BoS resolved to recommend to the Academic Council for further approval.

Agenda 1.4: Discussion of any additional agenda items with the permission of the Chair: BoS Chairman discussed with the subject experts and members regarding the credits of respective subjects and execution of the course strictly as per the structure finalized for department Applied Sciences and Humanities.

Agenda 1.5: Appointment of Subject Chairman

Resolutions1.5: BoS Chairman nominated the following members as subject Chairman which were unanimously accepted by rest of the subject members.

Dr. S.MBhati –Engineering Mathematics-I & II (Chairman)

Ms. J.J.Nerkar- Engineering Mathematics-II (Co-Chairman)

Mr. N.B.Desale-Engineering Physics (Chairman)

Ms. G.B.Bahare –Engineering Chemistry (Chairman)

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Ms. P. R.Kothavade-Professional Communication Skills (Chairman)

Dr. R.S.Kare- Cocurricular Courses I&II (Chairman)

Mr. D.N.Nathe- Indian Knowledge System (Chairman)

Agenda 1.6: Concluding remark. Dr. S.J.Kokate Chairman BoS Applied Sciences and Humanities thanked all the External subject experts for attending the first BoS Meeting and giving their valuable suggestions in designing the syllabus of respective subject.

Date: 30/08/2024

Note Taker

Ms. G.B. Bahare

30/08/2024

Chairman
Board of Studies
Department of Applied Sciences & Humanities

Chairman
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Annx - I

First Year B. Tech. Curriculum Structure (2024 Pattern) Semester - I

Course Code	Course Type	Course Name	Teaching Scheme (Hrs/Week)			Evaluation Scheme and Marks						Credits			
			TH	PR	TU	CCE	ESE	TW	PR	OR	TOT	TH	PR	TU	TOT
100101	BSC	Engineering Mathematics-I	3	-	1	40	60	25	-	-	125	3	-	1	4
100102/ 100202	BSC	Engineering Physics / Engineering Chemistry	3	2	-	40	60	25	-	-	125	3	1	-	4
100103/ 100203	ESC	Fundamentals of Electronics Engineering / Basic Electrical Engineering	2	2	-	40	60	25	-	-	125	2	1	-	3
100104/ 100204	ESC	Engineering Graphics / Engineering Mechanics	2	2	-	40	60	25	-	-	125	2	1	-	3
100105	ESC	Fundamentals of Programming	2	2	-	40	60	25	-	-	125	2	1	-	3
100106/ 100206	VSEC	Workshop Practice / Design Thinking and Idea Lab	-	2	-	-	-	25	-	-	25	-	1	-	1
100107	AEC	Professional Communication Skills	-	-	2	-	-	25	-	-	25	-	-	2	2
100108	CC	Co-Curricular Course-I	-	4	-	-	-	25	-	-	25	-	2	-	2
Total			**12**	**14**	**3**	**200**	**300**	**200**	-	-	**700**	**12**	**7**	**3**	**22**

Abbreviations: **TH:** Theory **PR:** Practical **TU:** Tutorial **CCE:** Continuous Concrete Evaluation
ESE: End-Semester Examination **TW:** Term Work **OR:** Oral **TOT:** Total

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Anex- II

First Year B. Tech. Curriculum Structure (2024 Pattern) Semester - II

Course Code	Course Type	Course Name	Teaching Scheme (Hrs/Week)			Evaluation Scheme and Marks						Credits			
			TH	PR	TU	CCE	ESE	TW	PR	OR	TOT	TH	PR	TU	TOT
100201	BSC	Engineering Mathematics-II	3	-	1	40	60	25	-	-	**125**	3	-	1	**4**
100102/ 100202	BSC	Engineering Physics / Engineering Chemistry	3	2	-	40	60	25	-	-	**125**	3	1	-	**4**
100103/ 100203	ESC	Fundamentals of Electronics Engineering / Basic Electrical Engineering	2	2	-	40	60	25	-	-	**125**	2	1	-	**3**
100104/ 100204	ESC	Engineering Graphics / Engineering Mechanics	2	2	-	40	60	25	-	-	**125**	2	1	-	**3**
100205	PCC	Programming and Problem Solving	2	2	-	40	60	25	-	-	**125**	2	1	-	**3**
100106/ 100206	VSEC	Workshop Practice / Design Thinking and Idea Lab	-	2	-	-	-	25	-	-	**25**	-	1	-	**1**
100207	IKS	Indian Knowledge System	-	-	2	-	-	25	-	-	**25**	-	-	2	**2**
100208	CC	Co-Curricular Course-II	-	4	-	-	-	25	-	-	**25**	-	2	-	**2**
Total			**12**	**14**	**3**	**200**	**300**	**200**	**-**	**-**	**700**	**12**	**7**	**3**	**22**

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