



Vidya Pratishthan's  
**KAMALNAYAN BAJAJ INSTITUTE OF ENGINEERING  
AND TECHNOLOGY, BARAMATI**

Date: 20/03/2024

**DEPARTMENT OF GENERAL SCIENCE AND ENGINEERING**

**Minutes of the Meeting**

The curriculum draft was prepared by the internal BoS committee members of VPKBIET, Baramati, and a soft copy of the draft was provided to the external BoS members for their views and guidelines. Based on this, a meeting of all the members of the Board of Studies (BOS) of the **General Science and Engineering** Department for Basic Science courses and Communication and Professional Skill course was held in Online mode (for external members) as well as in the offline mode (for internal members), on Saturday, 20-03-2024 at 11.00 a.m. to 2.00 p.m. in the Bharat Forge Center of Excellence.

Online meet link: - <https://meet.google.com/vxz-dvmg-ttw>

**Agenda of the meeting:**

1. NEP-based curriculum framework, credit system, and its implementation.
2. Discussion on the curriculum draft of Basic Science courses and Ability enhancement courses of the First Year B. Tech.

**The following BOS Members were present for the meeting:**

| Sr. No. | Name of Attendees      | Designation (Subject)                                                             | Sign            |
|---------|------------------------|-----------------------------------------------------------------------------------|-----------------|
| 1.      | Dr. R. S. Bichkar      | Principal, VPKBIET, Baramati                                                      |                 |
| 2.      | Dr. Aparna G. Sajjan   | Chairman of BOS & Head of General Science and Engineering Dept, VPKBIET, Baramati |                 |
| 3.      | Dr. Vinayak V. Joshi   | Member BOS, Professor, SPPU, Pune. (Mathematics)                                  | Attended Online |
| 4.      | Dr. Kiran V. Dalvi     | Member BOS, COEP Technological University, Pune. (Mathematics)                    | Attended Online |
| 5.      | Dr. Prabhakar B. Undre | Member BOS, Dr, Babasaheb Ambedkar Marathwada University, Aurangabad. (Physics)   | Attended Online |



|     |                            |                                                                                          |                    |
|-----|----------------------------|------------------------------------------------------------------------------------------|--------------------|
| 6.  | Dr. Yogesh P. Patil        | Member BOS, AISSMS Institute of Information Technology, Shivajinagar Pune. (Chemistry)   | Attended Online    |
| 7.  | Dr. Shashank Mane          | BOS Member, Tuljaram Chaturchand Arts, Commerce and Science College, Baramati. (English) | Attended Online    |
| 8.  | Dr. Anil P. Hiwarekar      | Dean Academics, VPKBIET, Baramati                                                        | <i>Hiware</i>      |
| 9.  | Dr. Manisha S. Lande       | Hea Autonomy, VPKBIET, Baramati                                                          | <i>males</i>       |
| 10. | Dr. Nirmal K. Sahuji       | BOS Member, General Science and Engineering, VPKBIET, Baramati                           | <i>Nahuji</i>      |
| 11. | Dr. Anil S. Disale         | BOS Member, General Science and Engineering, VPKBIET, Baramati                           | <i>Disale</i>      |
| 12. | Mr. Deepak S. Sonawane     | BOS Member, General Science and Engineering, VPKBIET, Baramati                           | <i>Sonawane</i>    |
| 12. | Ms. Gauri G. Bhoite        | BOS Member, General Science and Engineering, VPKBIET, Baramati                           | <i>Bhoite</i>      |
| 13. | Dr. Anil B. Patil          | BOS Member, General Science and Engineering, VPKBIET, Baramati                           | <i>Anil Patil</i>  |
| 14. | Dr. Nitin A. Jadhav        | BOS Member, General Science and Engineering, VPKBIET, Baramati                           | <i>Jadhav</i>      |
| 15. | Mr. Amol S. Jadhav         | BOS Member, General Science and Engineering, VPKBIET, Baramati                           | <i>Amol Jadhav</i> |
| 16. | Ms. Supriya A. Thube       | BOS Member, General Science and Engineering, VPKBIET, Baramati                           | <i>Thube</i>       |
| 17. | Mr. Abhijeet P. Khandagale | BOS Member, General Science and Engineering, VPKBIET, Baramati                           | <i>Khandagale</i>  |
| 18. | Dr. Bipin S. Patil         | BOS Member, General Science and Engineering, VPKBIET, Baramati                           | <i>BSPatil</i>     |
| 19. | Mrs. Pallavi A. Bokey      | BOS Member, General Science and Engineering, VPKBIET, Baramati                           | <i>Bokey</i>       |
| 20. | Ms. Kalyani Kulkarni       | BOS Member, General Science and Engineering, VPKBIET, Baramati                           | <i>Kalyani</i>     |
| 21. | Dr. Nitin T. Shelke        | Member Secretary, General Science and Engineering, VPKBIET, Baramati, Baramati           | <i>Shelke</i>      |



At the beginning of the meeting, Dr. Aparna Sajjan, Head of the Department of General Science and Engineering, presented the details of the First-year B.Tech. curriculum incorporating the NEP-2020. In her presentation, she explained the structure along with the examination schemes and Bloom's taxonomy levels of the course objectives for each of the Basic Science and Ability-enhancing courses. Then, all the internal subject experts in Mathematics, Physics, Chemistry, and English, presented the detailed aspects of the syllabus, examination schemes, and the activities that are proposed.

**The following points were suggested by the external committee members of BOS during the meeting:**

**A) BSC: Basic Science Courses**

**I) Engineering Physics (BS23103):**

Name of BOS Member: **Dr. Prabhakar B. Undre**, External Member BOS, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. (Physics)

1. In the presentation, we showed the teaching scheme and examination scheme to the BOS members and also presented the first-semester division-wise final results of the Engineering Physics subject.
2. We have mentioned the following two difficulties faced during the content delivery.
  - i) Comparatively, the first two units are quite lengthy, and require some extra lectures.
  - ii) Faced some problems during the conduction of the practical examination of 343 students.
3. Also, we have put the following two queries in front of the committee members for future changes.
  - i) We recommend converting the Practical Exam head to the Oral Exam.
  - ii) Per week 03 lectures are not sufficient and request to add one more lecture per week.

**On the above queries, experts have given the following solutions:**

- i) If possible we can add one extra lecture if it fits in the master timetable or need to conduct some extra lectures whenever possible.
- ii) Regarding practical examinations, committee members have suggested taking practical examinations of a batch in groups of 2-4 students (group-wise).
- iii) Also, Orals can be conducted by the internal teachers during the regular practicals individually.



## **II) Engineering Chemistry (BS23104):**

Name of BOS Member: **Dr. Yogesh P. Patil**, External Member BOS, Associate Professor  
Department of Engineering Sciences, AISSMS Institute of Information Technology, Pune

- 1) Experts have given positive remarks on the conduction of Practical examinations individually and strictly moreover also advised to continue the same practice.
- 2) Determination of Chlorine content part may be replaced with some other modern concepts based on Gray and Black water and also recycling of water may be incorporated.
- 3) Some introductory part of unit -2 may be given for self-preparation of the basic part so that we can save time in imparting the classroom teaching.
- 4) As some theory concepts and lab experiments are well correlated with each other some of the theoretical parts may be explained in a laboratory during performing practicals so that we can dedicate the saved time for imparting other important concepts.
- 5) An expert member has appreciated the inclusion of Unit No. -5 (Pollution Control and Renewable Energy Sources instead of Spectroscopy) in the modified syllabus (2024-25) which is based on new and modern technology. He also commented that in the same unit, application-oriented parts like applications of battery and solar cells in electric vehicles may be incorporated.
- 6) He also mentioned that instead of branch-wise division of all F. Y. Students authorities can think of making mixed divisions like students from different specializations/branches be in the same division so that all students can get exposure to different branch students and interdisciplinary approach may be developed amongst student for project work.
- 7) The expert also advised us to think about making separate syllabi for the hard branch and soft branch in the future.

## **III) Engineering Mathematics-I & II (BS23101 & BS23102):**

Name of BOS Member: **Dr. Yogesh P. Patil**, External Member BOS, Associate Professor  
Department of Engineering Sciences, AISSMS Institute of Information Technology, Pune

1. Result analysis of Engineering Mathematics-I was presented. The branch-wise results are analyzed with the average CET PCM percentile. The results of the Mechanical, Civil, and Electrical branches are found comparatively low due to less input percentile. BoS members suggested conducting remedial classes for Civil, Mechanical, and Electrical branch students to improve the result.



2. The allotted number of lectures was not sufficient to complete the syllabus within time, so we had to add an additional theory lecture per week.
3. The BOS members are satisfied with the proposed syllabus of M-III for all the branches. They commented that it covers all standard topics that are required for corresponding branches and is well structured.
4. The members suggested introducing some Mathematical software like SPSS and Sagemaths, Matlab, etc. as an activity.
5. Bos members suggested modification in name of units no. 5 and 6 as Numerical Method-I and Numerical Method-II for S.Y. B.Tech M-III Comp and IT branch.

Modifications have been made to the proposed syllabus of M-III as per the guidelines received from other departments before presenting it to the BoS members.

## **B) HSSM: Humanities, Social Science, and Management Courses**

### **I) Communication & Professional Skills-CPS (HS23101):**

Name of BOS Member: **Dr. Shashank Mane**, External Member BOS, Professor and Head of Department, T C College of Arts, Commerce and Science (Autonomous), Baramati

1. The syllabus is designed as per the requirements of job readiness and to improve learners' communication skills.
2. More focus should be given to activities in classes and it is the requirement of the syllabus for First Year Students.
3. Practical sessions should be introduced reducing the theory classes.
4. The weightage of 30 marks for oral tests is not justifiable as far as First Year Students are concerned. The weightage to Oral Tests should be minimized and marks for Activity and Term Work should be increased.
5. More weight should be given to practice-based activities.

### **II) Indian Knowledge System-IKS (HS23102):**

Name of BOS Member: **Dr. Yogesh P. Patil**, External Member BOS, Associate Professor Department of Engineering Sciences, AISSMS Institute of Information Technology, Pune

1. How it will be better to correlate the Student's Projects In Live form, of Ancient times as per new technology
2. Prepare the question bank and share it with the students at the time of the Induction program.
3. At the time of the Activity Program take the Oral examination, with the help of an External examiner give the student marks {Oral + Activity = Take both at one time}.



4. Present the Projects Of Robotics, Marine technology, Vastushastra, and Aerospace of ancient times which are completed the projects and also new Projects can be displayed at the college so that all the visitors can see the projects.
5. They Appreciated The Results, Projects, and Presentation.

### **III) Physical Education- PE-Sports & Yoga (HS23103):**

Name of BOS Member: **Dr. Yogesh P. Patil**, External Member BOS, Associate Professor  
Department of Engineering Sciences, AISSMS Institute of Information Technology, Pune.

1. For PE and Yoga exams: In-campus experts can be called as examiners or different experts per day can be called.
2. Examiners can be also the ones having Sports/Yoga Certificates from renowned institutes/groups.
3. Internal Sports competitions can also be conducted under the assessment of son-campus experts

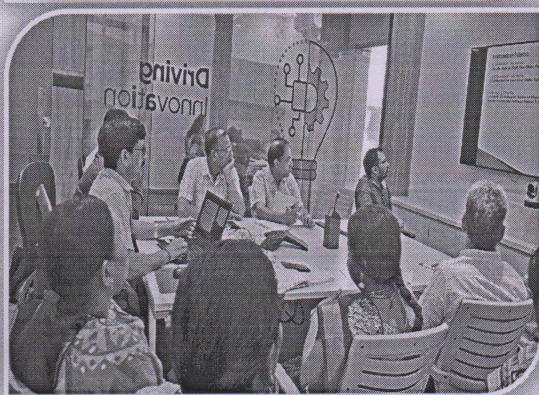
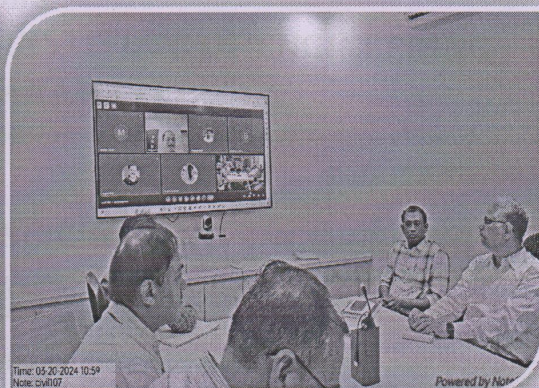
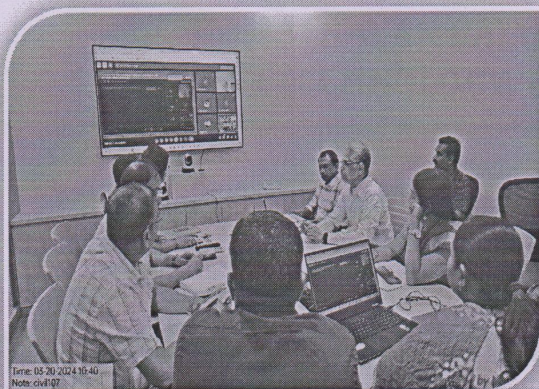
### **IV) Co-Curricular Course-CC (HS23104):**

Name of BOS Member: **Dr. Yogesh P. Patil**, External Member BOS, Associate Professor  
Department of Engineering Sciences, AISSMS Institute of Information Technology, Pune

1. Co-curricular course clubs should be announced during the induction program which will be conducted at the commencement of the First-year academics.
2. Google Forms should be sent to take choices of clubs in the induction program. Along with choice, students should be asked to upload any previous achievement certificate for the same choice.
3. External experts of the respective club should be invited to the first session and the evaluation process, and the rubric of the evaluation should be discussed with the students.
4. Course execution week-wise activity plan should be ready in the very first session co-curricular course.
5. Competitions can be organized in the last week for evaluation of the students under the practical exam of 30 marks it should be evaluated by the external experts.
6. As the Co-curricular course is a performing art-based course, no student should be failed by the faculty in the exam excluding absent students.
7. No need to plan the practical examination along with the regular practical examination.

**Recorded online meeting Link: -**





*Nitin Shelke*  
**Dr. Nitin Shelke**  
 BOS Member Secretary  
 General Science and Engineering,  
 VPKBIET, Baramati

*Aparna G. Sajjan*  
**Dr. Aparna G. Sajjan**  
 BOS Chairman & HoD  
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 VPKBIET, Baramati

*R. S. Bichkar*  
**Dr. R. S. Bichkar**  
 Principal  
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