



Annasaheb Dange College of Engineering and Technology, Ashta  
Tal - Walwa, Dist-Sangli; India 416 301  
(An Autonomous Institute)

## Department of Basic Sciences


### First BoS Meeting

### Department of Basic Sciences

Following members were present for the First BoS Meeting held on Thursday, 06<sup>th</sup> July 2017 at 11.00 am at Seminar Hall of Department of Basic Sciences, ADCET.

Sr. No.	Name of Member	Designation & Address	Position
1	Mr. S. S. Mohite	HOD Department of Basic Sciences. ADCET, Ashta	Chairman
2	Dr. N. D. Sangle	Dean Academics, ADCET, Ashta	Member
3	Dr. K. V. Dalavi	Professor, COEP, Pune	Member
4	Dr. S. I. Patil	Professor, Dept of Physics, SP Pune University, Pune	Member
5	Dr. S. B. Joshi	Professor, WCE, Sangli	Member
6	Dr. N. V. Nalawade	Principal, The New College Kolhapur	Member
7	Prof. P. P. Patil	Associate Professor, J J Magdum College of Engg, Jaysingpur	Member
8	Mr. K. A. Shinde	Creative Engg. Pvt. Ltd. Palus	Representative From Industry
9	Mr. A.L. Joshi	Prima-Versa Technology Pvt Ltd, Pune 411038	Alumni
10	Dr. S. H. Patil	Assistant Professor ADCET	Member
11	Mr. Z. D. Sande	Assistant Professor ADCET	Member
12	Mr. P. V. Gaikwad	Assistant Professor ADCET	Member
13	Mr. S. M. Chavan	Assistant Professor ADCET	Member
14	Mr. C. V. Suryavanshi	Assistant Professor ADCET	Member
15	Mr. R. B. Deshmukh	Assistant Professor ADCET	Member
16	Mr. A. G. Shinde	Assistant Professor ADCET	Member



  
**HOD**  
Department of Basic Science  
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The agenda of the meeting was as follow:

- Agenda Item No. 1: Welcome BoS members.
- Agenda Item No. 2: Conferment of Autonomy
- Agenda Item No. 3: Discussion about the guidelines given by academic council
- Agenda Item No. 4: To discuss and finalize syllabus for Basic Science and Humanities Courses.
- Agenda Item No. 5: Finalize the Mode of Conduct and Question Paper format required for various exams.
- Agenda Item No. 6: Any other item with the permission of chair.

Mr S S Mohite Head of Department welcomed to all BoS member. Prof. R. A. Kanai, Executive Director, ADCET felicitated to all the BoS members and announced conferment of autonomous status by UGC to ADCET. All the BoS members congratulated Executive Director for getting Autonomous status and appreciated the efforts taken by everyone.

Prof. S.S. Mohite, Head of Basic Sciences Department, presented guidelines given by academics council regarding autonomy and BoS members gave approval to the same.

Dr. N. V. Nalawade suggested that Professional Communication course should be practiced in both the semesters of F.Y. B.Tech. and there is so much of the content in Professional Communication syllabus which is hard to complete within given schedule, so it has to be minimized. After discussion Mr. S S. Mohite committed that some part of Professional Communication's syllabus will be introduced in some of the audit courses for higher classes wherever necessary as per requirement of respective departments.

Dr. S. I. Patil mentioned that there should be a separate passing in ISE & ESE instead of combined passing in both the examinations, as per the guidelines of academic council. But as institute is approaching for progressive autonomy and considering the intake quality it is preferred that combined passing in both the examinations.





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Following decisions were taken with discussion, debate and suggestions of BoS members:

### Course: Applied Physics (0BSBS101)

The BoS meeting was held on Thursday, 6<sup>th</sup> July 2017 at 11.00 a.m. in Department of Basic Sciences. Prof.S.I.Patil, Dept. of Physics, Savitribai Phule University, Pune, was the BoS member present for the meeting. The following points were discussed in the meeting:

1. Suggestion was given by him to introduce 'Propagation of electromagnetic waves' in Unit-I, as it will be helpful for the students to clear the concept of diffraction more effectively.
2. Decision was taken to change the name of the article, 'Ruby Laser' as 'Solid State Laser' in Unit III. In the same unit in 'Optical fibre', suggestion was given by him to start with 'Basic laws of refraction' to link with principle of optical fibre.
3. Decision was taken to add the article, 'Scanning Electron Microscope' in Unit VI 'Nano Physics'. This will be useful in sequential teaching and to fill minor gaps in curriculum.
4. Decision was taken to change the name of article 'Bragg's X-ray spectrometer' as 'X-ray Diffractometer' in Unit V 'Solid State Physics' for more justification.
5. The methodology to conduct ISE-I and ISE-II was discussed and finalised. After discussing on various assessment tools, written examination and poster presentation were finalised as methodology for ISE I and ISE II respectively. Evaluation scheme for poster presentation was also discussed. Poster presentation will develop the creativity amongst the students.
6. Decision was taken to increase the numerical weightage to enhance the difficulty level of question papers.
7. Guidelines were drafted for paper setters and nature of question paper for ISE I, MSE and ESE.





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8. Decision was taken to add the experiment entitled 'Resolving power of Telescope' in Applied Physics Laboratory course. It will help students to clarify concepts like 'resolution'. It is also very useful for students to differentiate between the instruments like microscope and telescope, which are used in the day today life. The Applied Physics Lab course is revised with 14 experiments due to the addition of said experiment.

**Course: Applied Mathematics – I (0BSBS102) & Applied Mathematics – II (0BSBS113)**

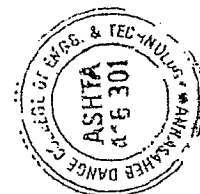
The BoS meeting was held on Thursday, 6<sup>th</sup> July 2017 at 11.00 a.m. in Department of Basic Sciences. Dr. S. B. Joshi, , Dept. of Mathematics, Walchand College of Engineering, Sangli & Dr. K. V. Dalavi, Head, Dept. of Mathematics College of Engineering, Pune was the BoS member present for the meeting. The following points were discussed in the meeting.

After discussion about framed syllabus following decisions were taken,

- Specification of reference books unit wise:-  
As there is no specific text book prescribe for our curriculum and to avoid confusion among students it was decided mention reference books unit wise.
- Addition of the application related examples:-  
To create interest in students related Applied Mathematics real life examples or examples related to engineering are to be explained by faculty while teaching.
- Deletion of the word 'without proof' from framed syllabus:-  
For better understanding of the concepts of theorems, proofs of respective theorems should be added in syllabus to enhance their thinking power.
- Addition of the 'Triple integral' in Applied Mathematics-II:-  
It is decided to add triple integral which is helpful for finding surface and volume integral.

Also along with above decisions following suggestion was given by Experts:

- Formation of the institute level book to respective courses:-





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It was suggested that to form unique institute level book of Applied Mathematics for each semester which can be referred as text book so student will easily understand the concepts effectively.

- Setting of question paper with answers:-

It was decided to solve set question by faculty itself so as to get better understanding that students are really able to cover the paper in time.

- Preparation of unit wise question bank:-

During the discussion in session it was decided to prepare of unit wise question bank.

Question bank should be refer for the practice of the students such that the student will able to solve different types of examples

### Course: Professional Communication (0BSBS106)

The BoS meeting was held on Thursday, 6<sup>th</sup> July 2017 at 11.00 a.m. in Department of Basic Sciences. Dr. N. V. Nalawade, Principal, The New College, Kolhapur was the BoS member present for the meeting. The following points were discussed in the meeting:

- Contents in the framed syllabus are too much, from different domains. Need to be reduced as it is not possible to cover effectively because of time constraint.
- Decision was taken to change the name of Unit I 'Grammar and Vocabulary', as 'Remedial Grammar' as it will give more justice to the contents.
- Decision was taken to delete 'Idioms and phrases, confused words: Homophones, homonyms' and add 'Subject verb concord and Reading a dictionary' in Unit I 'Grammar and Vocabulary'. This step is necessary for students to enhance their communication.
- Decision was taken to delete 'Nature and importance of communication' from Unit II 'Communication' as content seems too much.
- Decision was taken to delete 'Extempore, Meetings and News Writing' from Unit III 'Oral & Written Communication' as the deleted content is not much necessary for first year engineering students.





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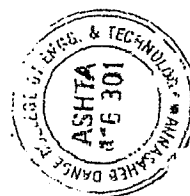
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- Decision was taken to delete 'Order letter, complaint letter and its reply, inspection report, investigation report' from Unit IV 'Professional Correspondence', because it comes under higher professional skills and it won't get much justice in the present context.
- Decision was taken to maintain the difficulty level of question papers as students have to study better for passing and scoring too.
- Decision was taken to add practical entitled, 'Reading a Dictionary' as students should know how to read a dictionary to understand meaning and relevance of words in different contexts.

### Course: Applied Chemistry (0BSBS108)

The BoS meeting was held on Thursday, 6<sup>th</sup> July 2017 at 11.00 a.m. in Department of Basic Sciences. Prof. P. P. Patil, Dept. of Chemistry, Dr. J. J. Magdum College of Engineering, Jaysingpur was the BoS member present for the meeting. The following points were discussed in the meeting:

- Discussion was held on the teaching scheme and credits of Applied Chemistry course allotted by academic council.
- Decision was taken to finalize the names of six units in theory course.
- Decision was taken to change the name of Unit I 'Water' as 'Water Technology' which will be more suitable according to contents decided.
- Instead of general terms such as classifications, advantages and applications present in referred syllabi, the decision was taken to include more specific terms like 12 principles of green chemistry, research & industrial applications under the article 'Green Chemistry' in Unit-III.
- In Unit-IV, under 'Fuel cells' head, a decision was taken to include a particular type of fuel cell as H<sub>2</sub>-O<sub>2</sub> fuel cell instead of all types of fuel cells. This addition will clear theory behind fuel cell as well as it is widely used fuel cell in many applications. Also it was





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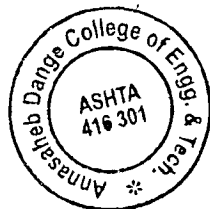
decided to add 'Rechargeable Li-ion battery' in the same unit for making syllabus more application oriented.

- Decision was taken to finalize list of total 13 experiments in 'Applied Chemistry Laboratory' course. In this more importance was given to performing experiments instead of study and demonstration type of experiments. One of the experiment 'Determination of pH of given sample' was included which will help to enhance knowledge of analytical techniques of students.
- Discussion was held on the Mode of conduct of examinations for theory as well as laboratory Courses. After discussing on various assessment tools like assignments, viva voce, quizzes, seminars etc. finally written examination and assignment as a methodology were decided for ISE I and ISE II respectively.
- Guidelines were drafted for paper setters and nature of question paper for ISE I, MSE and ESE.

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This meeting carried out in friendly and joyous atmosphere. Everyone heartily contributed in the meeting and after brainstorming some fruitful decisions taken as an outcome of the meeting. With the vote of thanks by Prof. S.S. Mohite, meeting was concluded.

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Mr. S. S. Mohite,  
Head,

Department of Basic Sciences

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