

“Education through Self – Help is our motto” – KARMAVEER



Rayat Shikshan Sanstha's

**Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur,
Dist-Solapur (Maharashtra) - 413304
(Autonomous College)**

Board of Studies in Physics

Date: 27/05/2020

First meeting of BOS in Physics of B. Sc.(II) for the academic year 2020-21 is called on 26th May 2020 at 11.00 a.m. by meeting chairman Dr. Sou. L. K. Bagal. All the BOS members are invited for the first meeting of **Board of Studies in Physics** of KarmaveerBhauraoPatil Mahavidyalaya, Pandharpur. Meeting is conducted through video conferencing by using ZOOM cloud meet App.

Agenda of the BOS meeting

1. Welcome
2. Discussion on draft syllabus of B. Sc.-II with all members of BOS and to make constructive suggestions if any.
3. To take sanction of BOS body for the draft syllabus of B.Sc.II.
4. Discussion on draft syllabus of Short Term Course with all members of BOS and to make constructive suggestions if any.
5. To take sanction of BOS body for the draft syllabus of Short Term Course.
6. To take sanction of BOS body for the Nature of Question papers (Theory and Practical)and Evaluation Pattern for B. Sc. II.
7. To take sanction of BOS body for the panel of Paper Setters, Examiners & Moderators.
8. Any other.
9. Vote of thanks.

Prof. Dr. Sou. L.K. Bagal
Chairman, BOS in Physics
Karmaveer Bhaurao Patil Mahavidyalaya,
Pandharpur.

Rayat Shikshan Sanstha's
KARMAVEER BHAURAO PATIL MAHAVIDYALAYA, PANDHARPUR

Board of Studies in Physics

MINUTES OF THE MEETING

Date: 27/05/2020

The meeting of BOS in Physics was held on 26th May 2020. Following members were present.


| Sr. No. | Name | Designation | Position | College |
|---------|----------------------------|------------------------------------|----------------------------------|---|
| 1 | Dr. Mrs. L. K. Bagal | Asso. Professor | Chairman | K.B. P. Mahavidyalaya, Pandharpur |
| 2 | Dr. V. L. Mathe | Professor | Subject Expert | Savitribai Phule Pune University, Pune |
| 3 | Dr. K. Y. Rajpure | Professor | Subject Expert | Shivaji University, Kolhapur |
| 4 | Prin. Dr. D.J. Salunkhe | Professor | Subject Expert | Laxmibai Bhaurao Patil Mahavidyalaya, Solapur |
| 5 | Dr. S. H. Mujawar | Asso. Professor | V.C. Nominated | Y.C.I.S. Satara |
| 6 | Dr. A. A. Yadav | Asst. Professor | Alumni Member | Shahu College, Iature |
| 7 | Dr. N. G. Deshpande | Brain Pool invited Scientist | Research Category | SungKyunKwan University, Suwon, South Korea |
| 8 | Dr. R. V. Dhekale | Technical Director | Industrial Area | Perfect Electronics, Wai |
| 9 | Mr. A. R. Patil | Asso. Professor | Member (Electronics Dept.) | K.B. P. Mahavidyalaya, Pandharpur |
| 10 | Mr. R. J. Kawade | Asso. Professor | Member (Chemistry Dept.) | K.B. P. Mahavidyalaya, Pandharpur |
| 11 | Mr. P. A. Ghadage | Asst. | Member | K.B. P. Mahavidyalaya, |

| | | | | |
|----|----------------------------|--------------------|--------|--------------------------------------|
| | | Professor | | Pandharpur |
| 12 | Miss. D. S. Ghadage | Asst. Professor | Member | K.B. P. Mahavidyalaya, Pandharpur |
| 13 | Dr. S. G. Chavan | Asst. Professor | Member | K.B. P. Mahavidyalaya, Pandharpur |
| 14 | Miss. S. K. Bhosale | Asst. Professor | Member | K.B. P. Mahavidyalaya, Pandharpur |
| 15 | Mr. P. S. Pise | Asst. Professor | Member | K.B. P. Mahavidyalaya, Pandharpur |
| 16 | Miss. V. K. Ingole | Asst. Professor | Member | K.B. P. Mahavidyalaya, Pandharpur |
| 17 | Miss. S. R. Shinde | Asst. Professor | Member | K.B. P. Mahavidyalaya, Pandharpur |
| 18 | Mr. D. P. Shinde | Asst. Professor | Member | K.B. P. Mahavidyalaya, Pandharpur |
| 19 | Dr. Mrs. S. A. Jagadale | Asst. Professor | Member | K.B. P. Mahavidyalaya, Pandharpur |
| 20 | Miss. K. P. Bagal | Asst. Professor | Member | K.B. P. Mahavidyalaya, Pandharpur |



Following resolutions are unanimously made

1. Draft syllabus of **B.Sc.-II (Physics)** Semester III and IV, Paper- V, VI, VII, VIII is discussed and approved with minor corrections. The **corrected copy** of the draft syllabus of B.Sc.-II (Physics) is attached herewith. This syllabus is recommended for further consideration. Copy of syllabus is attached herewith.
2. Draft syllabus of **Short Term Course** is discussed and approved with minor corrections. The **corrected copy** of the draft syllabus of Short Term Course is attached herewith. This syllabus is recommended for further consideration. Copy of syllabus is attached herewith.
3. Evaluation pattern of the college is noted.
4. Nature of Question Paper given by the college is noted.
5. Exhaustive list of Paper Setters, Examiners and Moderators is submitted herewith.


Dr. Sou. L. K. Bagal
[Chairman, BOS in Physics]

Dr. Sou. L. K. Bagal [Chairman, BOS in Physics] extended welcome to all the members of BOS.

Reading of Agenda:

Motion from Dr. Sou. L. K. Bagal: To approve the agenda of BOS meeting to be held on 26th May 2020

Vote: All in favour.

Resolved: Motion carried.

Agenda of BOS meeting to be held on 26th May 2020 approved without notification.

Business:

Motion 1: Presentation of B.Sc.-II Syllabus

Discussion:

Semester-III, Paper-V: Heat and Thermodynamics

- All the members of the BOS read the university syllabus carefully and put their suggestions one by one.
- Prin. Dr. D. J. Salunkhe suggested that change the title of Unit I, Unit III and Unit IV as Unit I-Behavior of gases and Thermometry, Unit III- Thermodynamic Systems and Unit IV- Heat Engines.
- Dr. V. L. Mathe suggested that introduce 'Numerical Problems' in each Units.

- Dr. S. H. Mujawar suggested that teaching faculty should provide the online/PDF notes to students and also give the number of problems related to theory articles for more practice.
- In remaining units, no change was required as per the discussion. Then the mode of discussion turned to Semester-III, Paper-VI of the same subject.

Semester-III, Paper-VI: Waves, Oscillations and Sound

- Dr. N. G. Deshpande suggested that, insert the article “Applications in Nanogenerators” in Unit IV.
- Dr. S. H. Mujawar suggested that add “Basic Concepts of Nanogenerators” in Unit IV
- In remaining units, no change was required as per the discussion. Then the mode of discussion turned to Semester-IV, Paper-VII of the same subject.

Semester-IV, Paper-VII: Thermal Physics and Statistical Mechanics

- Dr. V. L. Mathe Suggested that write the Books in details based on syllabus.
- No change was required as per the discussion. Then the mode of discussion turned to Semester-IV, Paper-VIII of the same subject.

Semester-IV, Paper-VIII: Optics and Lasers

- No change was required as per the discussion. Then the mode of discussion turned to Physics Practical of the same subject.

B.Sc.II: PHYSICS PRACTICAL

- No change was required in experiments of Group-A as per the discussion.
- Dr. R.V. Dhekale suggested that introduce specifically the use of Condenser Microphone in Measurement of Velocity of Sound by CRO in experiment no.5 of Group-B.
- Dr. R. V. Dhekale suggested that replace liquid (Turpentine oil) by liquid (Paraffin oil) in experiment no.8 of Group-C.
- Dr. V. L. Mathe suggested that omit Data Acquisition system in experiment no.10 of Group-C
- Dr. R. V. Dhekale suggested that specifically use “Hot Solid Object (Circular Disc)” for experiment no.10 of Group-C.

- Dr. R. V. Dhekale suggested that specifically Mention “Prism” for determination of Cauchy’s Constants in experiment no.5 of Group-D.
- Dr. N. G. Deshpande Suggested that add an experiment related to thickness determination of Thin Films using interference method in Group-D
- Dr. A. A. Yadav Suggested that add an experiment “ To determine type of Crystal of Double Refracting Prism” in Group-D

Vote: All in favour.

Resolved: Motion carried.

Motion 2: Presentation of Short Term Course “Maintenance of Laboratory Instruments” curriculum

Discussion:

- The faculty members of the department had prepared the syllabus of “Maintenance of Laboratory Instruments”. It was kept in front of the BOS committee.
- All BOS member suggested that make available the Tools required for maintenance and minor repairing of laboratory instruments.

Vote: All in favour.

Resolved: Motion carried.

Motion 3: Evaluation Pattern.

Discussion:

- Evaluation pattern was kept in front of the BOS committee. Discussion took place in detail and the committee members came to the conclusion with the following pattern.

| Sr. No. | Particulars | Marks |
|--------------------|---|-----------|
| 1 | Semester End Written Examination (Summative Assessment) | 40 |
| 2 | Internal Evaluation: Unit Test, Poster Presentation, Field Visit, Surprise test, Review of Reference Books. | 10 |
| Total Marks | | 50 |

All the committee members agreed to this pattern and also the following nature of question paper in general was approved.

Assessment Pattern 40 Marks

Question 1: Attempt the following

(Eight objectives)

(Each question carries 1 mark)

08 Marks

Question 2: Attempt any Four (out of Six) 08 Marks
(Each question carries 2 marks)

Question 3: (A) Attempt any One (out of Two) 03 Marks
(Each question carries 3 marks)

(B) Compulsory question 05 marks

Question 4: Attempt any Two (out of Three) 08 Marks
(Each question carries 4 marks)

Question 5: Attempt any One (out of Two) 08 Marks

N.B. Minimum two numerical type sub questions must be asked in question no.1 and 2. One each from Question no. 3A and 4 must be of numerical type sub question.

Vote: All in favour.

Resolved: Motion carried.

Motion 4: Paper setter, Examiner and Moderator panels

- Dr. Sou. L. K. Bagal was kept Paper setter, Examiner and Moderator panels in front of the BOS committee. The committee members approved the panels.

Panel of Paper setters:

| Sr. No. | Name of Teacher | College |
|---------|----------------------|-----------------------------------|
| 1 | Dr. T. R. Mane | Sangola College, Sangola |
| 2 | Dr. C. L. Jambhale | Sangola College, Sangola |
| 3 | Mr. N. B. Navale | Vidnyan Mahavidyalaya, Sangola |
| 4 | Dr. J.V. Thombare | Vidnyan Mahavidyalaya, Sangola |
| 5 | Dr. S. S. Dhasade | Vidnyan Mahavidyalaya, Sangola |
| 6 | Dr. C. S. Pawar | SMM, Akluj |
| 7 | Dr. S. S. Karande | Sangmeshwar College, Solapur |
| 8 | Dr. S. D. Chavan | DBF Dayanand College, Solapur |
| 9 | Dr. A. A. More | K. N. Bhise College, Kurduwadi |
| 10 | Dr. Holikatti | Walchand College, Solapur |
| 11 | Dr. Sou. L. K. Bagal | K.B. P. Mahavidyalaya, Pandharpur |
| 12 | Mr. P. A. Ghadage | K.B. P. Mahavidyalaya, Pandharpur |
| 13 | Miss. D. S. Ghadage | K.B. P. Mahavidyalaya, Pandharpur |

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|----|-------------------------|-----------------------------------|
| 14 | Dr. S. G. Chavan | K.B. P. Mahavidyalaya, Pandharpur |
| 15 | Miss. S. K. Bhosale | K.B. P. Mahavidyalaya, Pandharpur |
| 16 | Mr. P. S. Pise | K.B. P. Mahavidyalaya, Pandharpur |
| 17 | Miss. V. K. Ingole | K.B. P. Mahavidyalaya, Pandharpur |
| 18 | Miss. S. R. Shinde | K.B. P. Mahavidyalaya, Pandharpur |
| 19 | Mr. D. P. Shinde | K.B. P. Mahavidyalaya, Pandharpur |
| 20 | Dr. Mrs. S. A. Jagadale | K.B. P. Mahavidyalaya, Pandharpur |
| 21 | Miss. K. P. Bagal | K.B. P. Mahavidyalaya, Pandharpur |

Panel of Examiners/Moderators:

| Sr. No. | Name of Teacher | College |
|---------|-------------------------|-----------------------------------|
| 1 | Mr. R. A. Bugad | Sangola College, Sangola |
| 2 | Mr. A. M. Kambale | Vidnyan Mahavidyalaya, Sangola |
| 3 | Dr. A. R. Babar | SMM, Akluj |
| 4 | Dr. Mrs. P. G. Metry | Sangmeshwar College, Solapur |
| 5 | Dr. S. G. Pawar | DBF Dayanand College, Solapur |
| 6 | Dr. A. A. More | K. N. Bhise College, Kurduwadi |
| 7 | Dr. Holikatti | Walchand College, Solapur |
| 8 | Dr. Mrs. S. A. Jagadale | K.B. P. Mahavidyalaya, Pandharpur |
| 9 | Dr. Sou. L. K. Bagal | K.B. P. Mahavidyalaya, Pandharpur |
| 10 | Mr. P. A. Ghadage | K.B. P. Mahavidyalaya, Pandharpur |
| 11 | Miss. D. S. Ghadage | K.B. P. Mahavidyalaya, Pandharpur |
| 12 | Dr. S. G. Chavan | K.B. P. Mahavidyalaya, Pandharpur |
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| 16 | Miss. S. R. Shinde | K.B. P. Mahavidyalaya, Pandharpur |
| 17 | Mr. D. P. Shinde | K.B. P. Mahavidyalaya, Pandharpur |

Vote: All in favour.

Resolved: Motion carried.

Motion 5: Any other.

Discussion:

- The BOS Chairman of the committee put forth the issue of changing syllabus of B.Sc.III. (Draft Structure) that links with the syllabus of B.Sc.II

Vote: All in favour.

Resolved: Motion carried.

Vote of thanks was proposed by Dr. Mrs. S. A. Jagadale

Meeting adjourned at 1:30 pm.

Minutes of meeting will be presented in the meeting of Academic Council.

The attached syllabus was approved by the undersigned authority of BOS.