**GOVERNMENT COLLEGE OF ENGINEERING, JALGAON**

**(An Autonomous Institute of Government of Maharashtra)**

**Fifth Meeting:- BOARD OF STUDIES IN SCIENCE AND HUMANITIES**

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**Minutes of Meeting:-**

Date :- Wednesday , 1st March 2017

Time:- 10.00 am

Venue:-Conference Hall

**Present Members:-**

**Dr. R. P. Borkar:- Principal**

Smt. M.S.Phalak:-Chairman of BoS

Prof. S.D.Gadhire: Member of Secretary

Dr. M.G.Landge:- Member

Prof. V.M.Kanke:- Member

Prof. N.M.Gosavi:- Member

Dr. B. R. Sankapal:- Invitee

Prof. G. S. Patil:- Invitee

Prof. S. R. Zope:- Invitee

Prof .U. A. Kadam:- Invitee

Prof. G. S. Deshmukh:- Invitee

Prof. M. B. Sonkamble:- Invitee

Dr. M. J. Sable:- Invitee Chairman BoS Mechanical

Dr. R. D. Kokate:- Invitee Chairman BoS Instrumentation

Prof S.O. Dahad:- Invitee Chairman BoS Electronics and Telecommunication

Dr. S.S. Pusadkar:- Invitee Chairman BoS Civil

Dr. A. R. Phadke:- Invitee Chairman BoS Electrical

As per telephonic talk, Shri. Narendra Gadre, Dr.Parag Narkhede, Shri. S.Y.Prabhudesai, Dr. V.S.Kulkarni, Y S Patil asked for leave for fifth BoS meeting to BoS Chairman and was sanctioned.

**Proceedings:**

The meeting started at 10.00am. Prof S D Gadhire greeted all the members of the BoS and explained the reason of the meeting.

Prof S D Gadhire read agenda of fourth meeting of Board of Studies.

**Item No. 1:**

**To read and confirmed the Minutes of fourth meeting of Board of Studies held in Room number 25 of institute on *Thursday Feb 18, 2016 at 10.00 am***

Prof. S. D. Gadhire read Agenda of the fourth meeting of Board of Studies and all the members approved it.

**Item No.2:**

**To Note & approve the action taken by Department on the Agenda Points discussed and resolved in second meeting of Board of Studies.**

Prof. S. D. Gadhire read action taken of the fourth meeting of Board of Studies and all the members approved it.

**Item No.3:**

**To discuss and approved the revised syllabi of UG Programme of Science and Humanities.**

Chairman-BoS, Smt M. S. Phalak discussed the detailed structure of 1st Year all branch.

3.1] Dr. M. J. Sable suggested that the program outcomes should be as per changes of NBA SAR. All the members agreed with it and those rights are given to BoS chairman-Science and Humanities and approve it unanimously.

Prof. S. O. Dahad suggested making the program outcomes on weakly, moderate and strongly parameters and that should correlate with all branches. All the members agreed with it and those rights are given to BoS chairman-Science and Humanities and approve it unanimously.

3.2] Prof M. S. Phalak read the changes made in the syllabus of SH102 Applied Physics.

Dr. B. R. Sankapal suggested the topic in unit optics should be concepts of thin film and application of interference.

Prof. S. O. Dahad suggested in the topic physics of semiconductors working of p-n junction should be eliminated as it is overlapping ET101 Basic Electronic Engineering.

Dr. B. R. Sankapal suggested that topic in unit Modern Physics CRO applications should be included.

Dr. B. R. Sankapal suggested that to include new experiment in SH103, study of IV and band gap of p-n junction diode.

Dr. R. D. Kokate, Dr. S. S. Pusadkar and Dr. M. J. Sable suggested that to eliminate the word numerical.

All the members agreed with it and those rights are given to BoS chairman-Science and Humanities and approve it unanimously.

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| **SUBJECT** | **BEFORE** | **AFTER** |
| **SH102 APPLIED PHYSICS** | First unit: optics | First Unit :Physics of Semiconductor |
| Optics: Michelson Interferometer | concepts of thin film and application of interference |
| Physics of Semiconductor: Formation of PN junction and its working on the basis of energy band diagrams | Physics of Semiconductor: Formation of PN junction on the basis of energy band diagrams |
| Modern Physics: Principle and working of Cathode ray oscilloscope, | Principle and working of Cathode ray oscilloscope, CRO Applications |
| Numerical | Eliminate |
| **SH103 APPLIED PHYSICS LAB** | To determine unknown wavelength of monochromatic light using Michelson  Interferometer | Study of IV and band gap of p-n junction diode. |

3.3] Dr. R. P. Borkar suggested that in SH153Environmental studies to include sub topics of the topic of the syllabus and syllabus should be concise.

All the members agreed with it and those rights are given to BoS chairman-Science and Humanities and approve it unanimously.

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| **SUBJECT** | **BEFORE** | **AFTER** |
| **SH153 ENVIRONMENTAL STUDIES** | Environment and human health. Human rights. Role of Information Technology in Environment and human health. Public awareness | Thermal Pollution, Environmental Biotechnology, Applications of remote sensing in environmental studies. |

3.4] Dr. R. P. Borkar suggested that the template of SH 155 General Proficiency – I and SH 204 General Proficiency-II should be send to Dr. Abhijeet Dharmadhikari, (Management professional) to review the syllabus.

All the members agreed with it and those rights are given to BoS chairman-Science and Humanities and approve it unanimously.

3.5] Dr. R. P. Borkar suggested that SH202 Engineering Mathematics-III (Mechanical) and SH252 Engineering Mathematics-III (Civil) are having same syllabus so there should be one subject code only. So All BoS committee member decided to give SH 202 as a course code for the subject Engineering Mathematics-III for civil and mechanical branch.

All BoS Chairman suggested that new topic Numerical Methods for partial differential equations should be added in SH202 Engineering Mathematics-III (Mechanical and civil branch) syllabus.

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| **SUBJECT** | **BEFORE** | **AFTER** |
| **SH 202: ENGINEERING MATHEMATICS – III** | New topic : Partial differential equations | Numerical Methods for partial differential equations |
| SH 252: Engineering Mathematics – III(civil)  SH 202: Engineering Mathematics – III(Mechanical) | One subject code SH 202: Engineering Mathematics – III |

Dr. R. D. Kokate, Prof. S. O. Dahad and Dr. A. R. Phadke suggested that the topic “application to difference equation” from the unit Fourier transformation of SH201 Engineering Mathematics\_III (Electrical, Electronic and Telecommunication and Instrumentation) should be omitted.

All the members agreed with it and those rights are given to BoS chairman-Science and Humanities and approve it unanimously.

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| **SUBJECT** | **BEFORE** | **AFTER** |
| **SH201: ENGINEERING MATHEMATICS III** | Fourier transform: application to difference equations. | Omit application to difference equations. |

**Item No. 4:**

**To discussed and approved the constitution of Examination Panel of different Subject in Science and Humanities.**

Prof. S. D. Gadhire read Examination panel of all subjects included in Board of Studies and all the members approved it.

**Item No 5:**

**To Discuss the new curriculum structure of First Year B.Tech in light of Credit Transfer, Choose based credit system.**

Dr. R. P. Borkar told that new curriculum structure should be made on the basis of choice base system, credit transfer and many more, so that best structure should be made.

So all members gave an assurance to do the same.

**Item No 6:**

**Any other point by the permission of chair.**

It was decided, the authority is given to BoS Chairman Electronic and Tele communication for framing the syllabus of SH 401 Entrepreneurship and Business Planning - final year Electronics and Telecommunication Department. It was decided that before submission of final syllabus, the respected authority must take prior permission of BoS chairman-Science and Humanities and approve it unanimously.

Prof. V. M. Kanke and Prof N. M. Gosavi suggested that the question paper moderation should be given to the subject expert.

So BoS chairman-Science and Humanities will forward the suggestion to APEC.

All members of BoS are unanimously agreed.

After the discussion by all members Prof S D Gadhire gave vote of thanks.

Smt. M. S. Phalak

Chairman,

Board of Science and Humanities,

Government College of Engineering,

Jalgaon