

Dt : 02/11/2019.

## DEPARTMENT OF MECHANICAL ENGINEERING

### MINUTES OF BOARD OF STUDIES MEETING

The departmental Board of Studies meeting was held on 01/11/2019 and 02/11/2019 in the Seminar hall, VB Block at GIET(A) with HOD as the chair.

#### Agenda

- Discussion and Ratification of GR-19 Course Structure for B. Tech Program
- Discussion on proposed GR-19 syllabus for I and II Year B. Tech courses and ratification of the same
- Ratification of the Proposed model papers for internal and external examinations of both theory and laboratory courses
- Finalization of Text books and Reference books
- Finalization of Examiners list from reputed organizations
- Any other item

Dr. M.Sreenivasa Rao, Chairman BOS and HOD welcomed and introduced all the members of meeting for their gracious presence in the meeting towards improvement of course structure and syllabus

#### THE CONSTITUTION OF BOARD OF STUDIES

- |   |   |                    |
|---|---|--------------------|
| 1 | Dr. M. Sreenivasa Rao<br>Head of the Department, GIET (A), RJY.       | BoS Chairman       |
| 2 | Dr. B. Balakrishna<br>Professor, UCE, JNTUK, Kakinada.                | University Nominee |
| 3 | Dr. D. Ravi Kumar<br>Professor, IIT Delhi, New Delhi.                 | Subject Expert     |
| 4 | Mr. Rajiv Armadaka<br>Catia – Brand Leader – DS India Ltd., Bangalore | Industrial Expert  |

5	Dr. T. Jayananda Kumar Professor & Dean AA, GIET (A), RJY.	Member
6	Dr. D Santha Rao Professor, GIET (A), RJY.	Member
7	Mr. M.Kedaranath Assoc. Professor, GIET (A), RJY.	Member
8	Mr. B.Joga Rao Assoc. Professor, GIET(A), RJY	Member
9	Mrs. E. Nirmala Devi Assoc. Professor, GIET (A)RJY.	Member
10	Mr. R. Krishna Mohan Assoc. Professor, GIET(A), RJY.	Member
11	Mr. P. Veera Raju Assoc. Professor, GIET (A), RJY.	Member
12	Mr. M. Bala krishna Sr. Asst. Professor, GIET (A), RJY.	Member
13	Mr.G Rama krishna Asst. Professor, GIET (A), RJY.	Member

**The Members discussed the points in the agenda one by one and resolved the following:**

1. The course structure for four year B.Tech programme was discussed thoroughly. The prerequisites for different subjects were verified and discussed.
  - i) Four open electives offered from various departments in IV, V, VI and VII semesters and five professional departmental electives in V to VIII semesters, are introduced in the structure. Elective subjects list was verified by expert members and accepted for inclusion in course structure.
  - ii) The three open electives offered by the department (Robotics, MEMS and Nano Technology) are now included in the list of Department Electives for Mechanical Engineering students




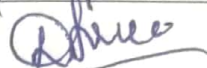
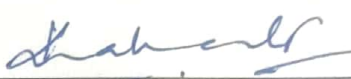


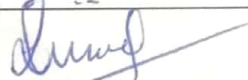
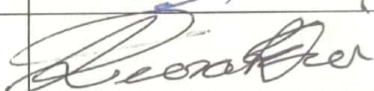


The Annexure I is enclosed for modified course structure

2. Syllabus for 1<sup>st</sup> and 2<sup>nd</sup> years has been reviewed and a good number of inputs were given by external BoS members.
  - i) Introduction about AUTOCAD is included in Engineering Graphics subject. The same has been accepted and finalised.
  - ii) Design thinking and innovation was added in III Semester as per the AICTE guide lines. The syllabus was reviewed by experts and finalised.

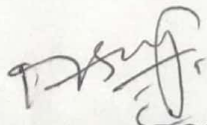
- iii) Introduced community service oriented project in IV semester as a credit course with 0.5 credits. The members accepted to keep the course in the structure.
  - vi) The expert members suggested that advanced topics may be included in the 3<sup>rd</sup> and 4<sup>th</sup> year courses.
3. The structure and model of question papers for external and internal evaluation has been reviewed and approved as per given below.
- i) For theory courses: 30 marks for continuous internal evaluation and 70 marks for end semester examination.
  - ii) For laboratory courses: 50 marks for continuous internal evaluation and 50 marks end semester examination.
  - iii) For Engineering drawing 30 marks for continuous internal evaluation and 70 marks for end semester examination.
  - iv) For main project, 80 marks for continuous internal evaluation and 120 marks for end semester examination.
- The annexure II is enclosed for model papers.
4. The list of subjects experts from various reputed institutions for paper setting and list of examiners for paper evaluation has been verified and approved. However BOS authorised the Chairman to change above mentioned list if necessary.
5. Two text books and minimum two reference books were given with title, author and publishers for each subject in the syllabus copy. The expert members verified the above and found suitable for the concerned courses.
6. Computer Aided Machine Drawing was kept as a theory in the course structure. The expert of the BOS suggested to change the course to 1-0-3 with 2.5 Credits as practical course with 50 Marks internal and 50 Marks external. The same was approved by BOS.
7. Regulation GR-17 ratified earlier for M.Tech programmes will continue for the academic year 2019-20 also. The same was approved by the BOS

The Chairman – BOS mechanical engineering thanked all members especially members came from long distances by using various modes of transport and helped in making BOS meeting success with their valuable recommendations. The chairman also thanked all members for giving valuable suggestions to bring more improvements for the benefit of the students in concurrent environment.

The following BoS members were Present

S.No	Name of the BOS member	Signature
1	Dr. B. Balakrishna	
2	Dr. D. Ravi Kumar	
3	Dr. T. Jayananda Kumar	
4	Dr. D Santha Rao	
5	Mr. M. Kedaranath	
6	Mr. B. Joga Rao	
7	Mrs. E. Nirmala Devi	
8	Mr. R. Krishna Mohan	
9	Mr. P. VeeraRaju	
10	Mr. M. Balakrishna	
11	Mr. G. Ramakrishna	

All other mechanical departmental faculty also attended the meeting.

  
Chairman BOS,

Department of Mechanical Engineering,  
GIET (A), RJY.

Dt : 09/01/2021.

**DEPARTMENT OF MECHANICAL ENGINEERING**  
**MINUTES OF BOARD OF STUDIES MEETING**

The departmental Board of Studies meeting was held on 09/01/2021 through online with HOD as the chair.

**Agenda**

- Discussion and Ratification of GRBT-19 III & IV year proposed syllabus and ratification of the same.
- Discussion on proposed GRMT-20 course structure and syllabus for M Tech: CAD/CAM and Thermal Engineering courses and ratification of the same.
- Discussion and Ratification of GRBT-20 I year proposed course structure and syllabus and ratification of the same.
- Ratification of the proposed model papers for internal and external examinations of both theory and laboratory courses.
- Finalization of Text books and Reference books.
- Finalization of Examiners list from reputed organizations.
- Any other item.

Dr. M Sreenivasa Rao, Chairman BOS and HOD welcomed and introduced all the members of meeting for their gracious presence in the meeting towards improvement of course structure and syllabus.

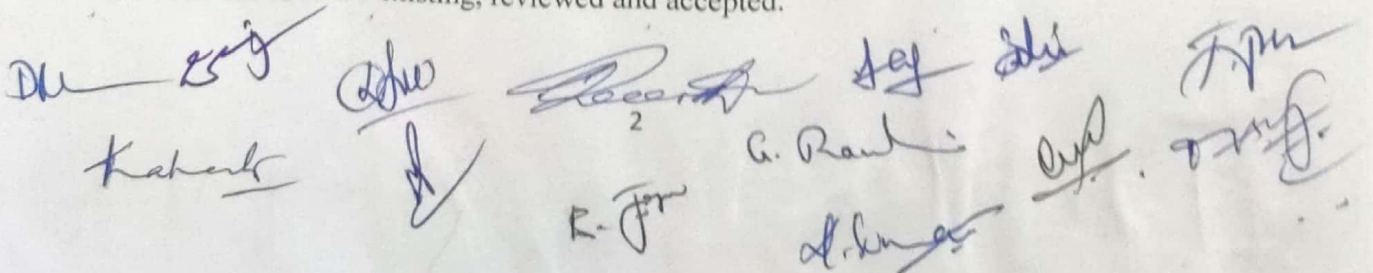
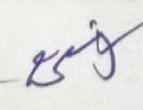
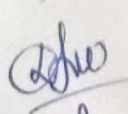
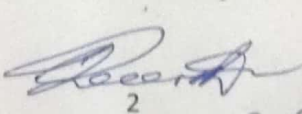
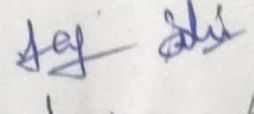
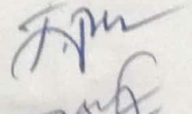

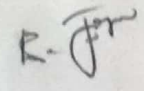
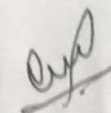
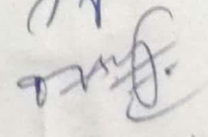
**THE CONSTITUTION OF BOARD OF STUDIES**

1	Dr. M. Sreenivasa Rao Head of the Department, GIET (A), RJY.	BoS Chairman
2	Dr. B. Balakrishna Professor, UCE, JNTUK, Kakinada.	University Nominee
3	Dr. D. Ravi Kumar Professor, IIT Delhi, New Delhi.	Subject Expert
4	Mr. Rajiv Armadaka DS India Ltd., Bangalore	Industrial Expert
5	Dr. P.M.M.S. Sarma Professor & Principal, GIET (A), RJY.	Member

6	Dr. M.V. Sekhar Babu Professor & Dean P&M, GIET (A), RJY.	Special Invitee
7	Dr. T. Jayananda Kumar Professor & Dean AA, GIET (A), RJY.	Member
8	Dr. D Santha Rao Professor, GIET (A), RJY.	Member
9	Mr. M. Kedaranath Assoc. Professor, GIET (A), RJY.	Member
10	Mr. B.Joga Rao Assoc. Professor, GIET(A), RJY	Member
11	Mrs. E. Nirmala Devi Assoc. Professor, GIET (A), RJY.	Member
12	Mr. P. Veera Raju Assoc. Professor, GIET (A), RJY.	Member
13	Mr. M. Balakrishna Sr. Asst. Professor, GIET (A), RJY.	Member
14	Mr. G Ramakrishna Assoc. Professor, GIET (A), RJY.	Member
15	Mr. D. Suman Assoc. Professor, GIET (A), RJY.	Member

**The Members discussed the points in the agenda one by one and resolved the following:**

1. The course structure and syllabus of III & IV year of GRBT-19 was discussed thoroughly. The prerequisites for different subjects were verified and discussed.
  - i) Four open electives offered from various departments in IV, V, VI and VII semesters have been received from respective departments, reviewed and accepted.
  - ii) The five Professional departmental electives in V to VIII semesters, which are ratified in the previous BoS meeting, syllabus have been verified thoroughly and modified with minor changes and accepted.
  - iii) The syllabus of three open electives Robotics, MEMS and Nano Technology, offered by the department to other departments have been verified thoroughly and accepted.
  - iv) Expert members have suggested some minor modifications in the syllabus of Tribology subject, modifications incorporated, reviewed and accepted.
  - v) Expert members have suggested some minor modifications in the syllabus of advanced materials subject, modifications incorporated, reviewed and accepted.
  - vi) For Machine Tools laboratory a new experiment is suggested by expert members, the same has been added to the existing, reviewed and accepted.


  
 DU     
  
 Kabark   G. Rauli  

- vii) Expert members have suggested to remove some topics which are covered in other subjects in the syllabus of Metrology and Instrumentation subject, modifications incorporated, reviewed and accepted.
- viii) Expert members have suggested to add Arc additive manufacturing in the syllabus of Advanced Foundry and Welding Technology subject, modifications incorporated, reviewed and accepted.
- ix) Expert members have suggested to change the unit title from surface treatment to surface engineering and some minor changes in the syllabus of Advanced Manufacturing Processes subject, suggestions incorporated, reviewed and accepted.
- x) Expert members have suggested some minor modifications in the syllabus of Design for Manufacturing subject, modifications incorporated, reviewed and accepted.
- xi) Expert members have suggested some minor modifications in the syllabus of Additive Manufacturing subject, modifications incorporated, reviewed and accepted.

2. The course structure for M.Tech. CAD/CAM and Thermal Engineering of GRMT-20 was discussed thoroughly. The prerequisites for different subjects were verified and discussed.

- i) Two audit courses are placed in I & II semesters. The list of audit courses was verified by expert members and accepted for inclusion in the course structure.
- ii) One open elective has been included in the course structure, reviewed and accepted.
- iii) Five professional elective subjects have been included in the course structure. The list of elective subjects have been thoroughly discussed and accepted.
- iv) An option has been given to the students to choose MOOCS to complete professional elective-V and open elective, which are in III semester, the same has been accepted by expert members.
- v) The expert members suggested some inclusions in the syllabus of Geometric Modeling, modifications incorporated, reviewed and accepted.
- vi) New experiments related to nonlinear analysis are suggested to add in the syllabus of Advanced CAD Lab, modifications incorporated, reviewed and accepted.
- vii) Expert members suggested to change Advanced Manufacturing Lab title to Manufacturing Lab. Title changed, reviewed and accepted.
- viii) Expert members suggested to change Simulation of Manufacturing Systems Lab title to Simulation of Manufacturing Processes Lab. Title changed, reviewed and accepted.
- ix) For Thermal Engineering laboratory a new experiments related to Refrigeration and Air conditioning are suggested by expert members, the same has been added to the existing, reviewed and accepted.

3. The course structure and syllabus of I year GRBT-20, B.Tech. program to be ratified was discussed thoroughly.

- i) Environmental studies subject has been placed as a mandatory without credits in I year II semester the same discussed and accepted
- ii) Metallurgy and Material Science subject i also placed as an Engineering Science course in I year II semester, Members suggested to change the title to Material Science and Metallurgy. Modified the title as per suggestions, discussed and accepted.

4. The structure and model question papers of GRBT-20, for external and internal evaluation has been reviewed and approved as given below.

- i) For theory courses: 30 marks for continuous internal evaluation and 70 marks for end semester examination.
- ii) For laboratory courses: 50 marks for continuous internal evaluation and 50 marks end semester examination.
- iii) For Engineering Graphics 30 marks for continuous internal evaluation and 70 marks for end semester examination.
- iv) For main project, 80 marks for continuous internal evaluation and 120 marks for end semester examination.

5. The structure and model question papers of GRMT-20, for external and internal evaluation has been reviewed and approved as given below.

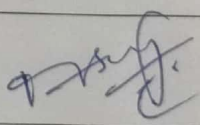
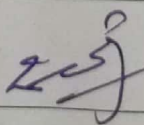
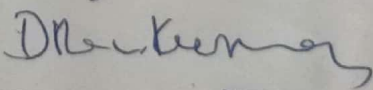
- i) For theory courses: 40 marks for continuous internal evaluation and 60 marks for end semester examination.
- ii) For laboratory courses: 40 marks for continuous internal evaluation and 60 marks for end semester examination.

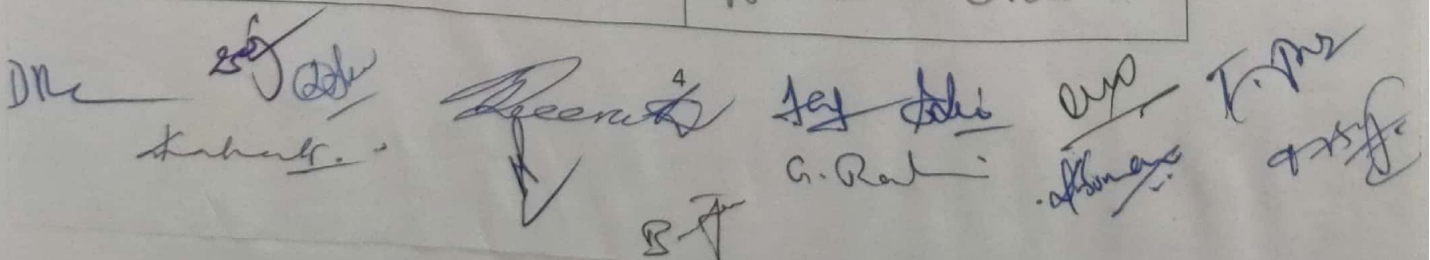
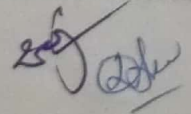
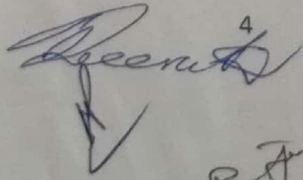
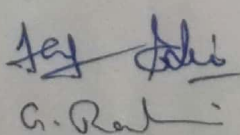
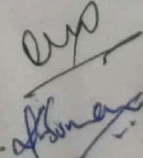
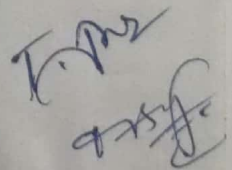
6. The list of subjects experts from various reputed institutions for paper setting and list of examiners for paper evaluation has been verified and approved. However BOS authorised the Chairman to change above mentioned list if necessary.







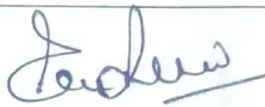
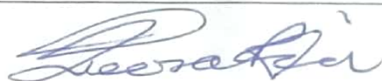


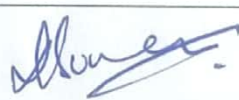
7. Minimum of two text books and two reference books were given with title, author and publishers for each subject in the syllabus copy. The expert members verified the above and found suitable for the concerned courses.

The Chairman – BOS mechanical engineering thanked all members especially members who joined and participated externally in designing and enrichment of the curriculum. The chairman also thanked all members for giving valuable suggestions to bring more improvements for the benefit of the students in concurrent environment.

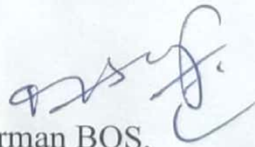
The following BOS members were Present

S.No	BoS Members	Signatures
1	Dr. M. Sreenivasa Rao Head of the Department, GIET (A), RJY.	
2	Dr. B. Balakrishna Professor, UCE, JNTUK, Kakinada.	
3	Dr. D. Ravi Kumar Professor, IIT Delhi, New Delhi.	
4	Mr. Rajiv Armadaka DS India Ltd., Bangalore	Approved in Online


  
 DR 
  

  

  

  

  
 B-T

5	Dr. P.M.M.S. Sarma Professor & Principal, GIET (A), RJY.	
6	Dr. M.V. Sekhar Babu Professor & Dean P&M, GIET (A), RJY.	
7	Dr. T. Jayananda Kumar Professor & Dean AA, GIET (A), RJY.	
8	Dr. D Santha Rao Professor, GIET (A), RJY.	
9	Mr. M. Kedaranath Assoc. Professor, GIET (A), RJY.	
10	Mr. B.Joga Rao Assoc. Professor, GIET(A), RJY	
11	Mrs. E. Nirmala Devi Assoc. Professor, GIET (A)RJY.	
12	Mr. P. Veera Raju Assoc. Professor, GIET (A), RJY.	
13	Mr. M. Balakrishna Sr. Asst. Professor, GIET (A), RJY.	
14	Mr. G Ramakrishna Asst. Professor, GIET (A), RJY.	
15	Mr. D. Suman Assoc. Professor, GIET (A), RJY.	

All other mechanical departmental faculty also attended the meeting.

  
Chairman BOS,  
Department of Mechanical Engineering,  
GIET (A), RJY.