



RV College of Engineering, Bangalore

BoS CONTENT SHEET – Mechanical Engineering

DEPARTMENT OF MECHANICAL ENGINEERING			
Sl. No.	Details of BoS Meeting	Date	Page No.
1	2018 Scheme-18 th Board of Studies Meeting	06 July 2018	1-8
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3	2018 Scheme 20 th Board of Studies Meeting	06 March 2020	20-28
4	2021 Scheme-21 st Board of Studies Meeting	15 September 2022	29-35
5	2021 Scheme-22 nd Board of Studies Meeting	10 June 2023	36-42



Department of Mechanical Engineering

22.06.2024

Department: Mechanical Engineering

New Courses Added in Curricular Revisions (2018, 2021, and 2022)

The following new courses were added to the curricula during the curricular revisions made in 2018, 2021, and 2022. These revisions were thoroughly discussed in the respective Board of Studies meetings. The new courses, along with their course codes, are reflected in the revised curricula.

Sl. No.	Title of the new course added	Course code	Scheme in which the new course is added
Program: BE Mechanical Engineering			
1.	Concept of Metrology & Machine Drawing	18ME34	2018
2.	Design thinking Lab	18ME47	2018
3.	Financial Accounting	18ME5A1	2018
4.	Decision Support System for Managers	18IM5A2	2018
5.	Managerial Economics	18ME5A3	2018
6.	Rapid Manufacturing	18ME5A4	2018
7.	Minor Project	18ME64	2018
8.	Advanced Mechanism Design	18ME6C4	2018
9.	Foundation of Mechatronics	18ME6C3	2018
10.	Internet of Things	18CS6C1	2018
11.	Machine Learning	18CS6D1	2018
12.	Vibration and Control Systems	18ME72	2018
13.	Internship	18ME74	2018
14.	Industry 4.0	18ME7F1	2018
15.	Metrology and Quality Control	18ME7F2	2018
16.	Micro and Nano Manufacturing	18ME7F3	2018
17.	Fundamentals of Aerodynamics	18ME7F4	2018
18.	Reliability and Maintainability Engineering	18ME7F5	2018
19.	Integral Transforms, Optimization and Numerical Techniques	21MA31C	2021
20.	Solid Mechanics	21ME33	2021
21.	Python for Mechanical Engineers	21ME36	2021
22.	Mechanical Measurement Systems	21ME4A1	2021
23.	Design Practice	21ME4A2	2021
24.	Manufacturing Guidelines for Product Design	21ME4A3	2021
25.	Electronic Packaging and Manufacturing	21ME4A4	2021
26.	Waste to Energy Conversion	21ME4A5	2021



Department of Mechanical Engineering

27.	Theory and Practice of Non-Destructive Testing	21ME4A6	2021
28.	Solar Photovoltaics: Principles, Technologies & Materials	21ME4A7	2021
29.	Surface Engineering of Nanomaterials	21ME4A8	2021

PG PROGRAMME

M.Tech (Product Design and Manufacturing)

30.	Product Design for Quality	18MPD1A1	2018
31.	Product Data Management	18MPD1B1	2018
32.	Design for Manufacture and Assembly	18MPD2C2	2018
33.	Surface Engineering	18MPD3E2	2018
34.	Systems Engineering	18MPD2D3	2018
35.	Sheet Metal Forming and Plastic Moulding	18MPD3E1	2018
36.	Surface Engineering	18MPD3E2	2018
37.	Product Design for Quality	18MPD1A1	2018
38.	Tribology	18MMD1A2	2018
39.	Surface Engineering	18MPD3E2	2018
40.	Creative Engineering	18MPD2C1	2018
41.	Advanced Finite Element Analysis	18MMD2D3	2018
42.	Mechatronics System Design	18MMD3E1	2018
43.	Digital Manufacturing	22MPD13TL	2022
44.	Machine learning Lab	22MMD14L	2022
45.	Machine Learning for Mechanical Engineers	22MPD1A1T	2022
46.	Design For Sustainability and Safety	22MPD1A2T	2022
47.	Advanced Manufacturing Practices	22MPD1A3T	2022
48.	Industrial Ergonomics and Biomechanics	22MPD22TL	2022
49.	Machine Learning for Mechanical Engineers	22MPD1A1T	2022
50.	GD&T and Digital Metrology	22MPD2C3T	2022
51.	Computational Mathematics	22MAT11AT	2022
52.	Machine Learning Lab	22MMD14L	2022
53.	Electric Vehicle	22MPD2C5T	2022
54.	Sustainable and Smart Design	22MMD1A3T	2022

M.Tech (Machine Design)

55.	Design of Pressure Vessels	22MMD2C3T	2022
56.	Computational Mathematics	22MAT11AT	2022
57.	Design for Tribology	22MMD2C1T	2022

M.Tech (Compute Integrated Manufacturing)

58.	Robotics and Automation	18MCM2D2	2018
59.	Intelligent Systems	18MCE1B2	2018
60.	Computer Control of Manufacturing Systems	18MCM12	2018



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Department of Mechanical Engineering

61.	Intelligent Systems	18MCE1B2	2018
62.	Tooling for Manufacturing in Automation	18MCM22	2018
63.	Advanced Metrology	18MCM2D1	2018
64.	Supply Chain Management	18 IEM 2D3	2018
65.	Industry 4.0	18ME2G06	2018
66.	Digital Manufacturing	18MCM31	2018
67.	Additive Manufacturing	18MCM3E1	2018

BoS-CHAIRMAN
(Mechanical Engineering)

Professor & Head
Department of Mechanical Engineering
R.V.College of Engineering
Bangalore - 560 059

DEAN ACADEMICS

PRINCIPAL

PRINCIPAL
RV COLLEGE OF ENGINEERING
BENGALURU - 560 059



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Accredited by the National Board of Accreditation, New Delhi

Ref: RVE/ME/021/18-19

Dated: 01.07.2018

To
Dr. K. A. Balaji
Subject Expert (VTU Nominee)
Belagavi

Respected Sir,

Sub: Invitation for BOS Meeting on 06 July 2018

The Board of Studies (BOS) meeting of the Department of Mechanical Engineering is scheduled for 06 July 2018 at 10 AM. The agenda for the meeting is as follows:

1. Review of the First Year BE syllabus for Basics of Mechanical Engineering and Computer-Aided Engineering Drawing for the 2018 revised scheme.
2. Development of Course Outcomes (COs) for BME and CAED and CO-PO Mapping.
3. Discussion on Program Educational Objectives (PEOs), Program Outcomes (POs), and Program Specific Outcomes (PSOs) for BE (Mechanical), M.Tech in PDM, CIM, and Machine Design.
4. Review and placement of courses for the 2018 revised scheme for M.Tech in PDM, CIM, and Machine Design.
5. Discussion on the Ready Engineer Programme.
6. Any other points.

I would be grateful if you could kindly make it convenient to attend the BOS meeting and provide your valuable suggestions for curriculum changes.

Thank you.

Yours sincerely,

M Krishna
Professor and Head
Department of Mechanical Engineering, RV College of Engineering



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Ref: RVE/ME/021/18-19

Dated: 01.07.2018

Agenda:

1. Review of the First Year BE syllabus for Basics of Mechanical Engineering and Computer-Aided Engineering Drawing for the 2018 revised scheme.
2. Development of Course Outcomes (COs) for BME and CAED and CO-PO Mapping.
3. Approval of new courses for III and IV semesters.
4. Discussion on Program Educational Objectives (PEOs), Program Outcomes (POs), and Program Specific Outcomes (PSOs) for BE (Mechanical), M.Tech in PDM, CIM, and Machine Design.
5. Review and placement of courses for the 2018 revised scheme for M.Tech in PDM, CIM, and Machine Design.
6. Discussion on the Ready Engineer Programme



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Following members attended 18th BoS meeting of Mechanical Engineering Board on 06 July 2018

Sl. No.	Name of the members	Designation	Institution
1.	Dr. Jagadish	Subject Expert	Dept of Mechanical Engineering, BIT,Bengaluru
2.	Dr KVAbalaji	Subject Expert, VTU Nominee	Dept of Mechanical Engineering, SJCE,Mysuru
3.	Dr H N Narasimha Murthy-Chairman	Professor & HOD	Dept of Mechanical Engineering, RVCE
4.	Dr B Anand-Member	Professor	Dept of Mechanical Engineering, RVCE
5.	Dr M S Krupashankar-Member	Professor	Dept of Mechanical Engineering, RVCE
6.	Dr N Shanmukha-Member	Professor	Dept of Mechanical Engineering, RVCE
7.	Dr Krishna M-Member	Professor	Dept of Mechanical Engineering, RVCE
8.	Dr H D Gopalakrishna-Member	Professor	Dept of Mechanical Engineering, RVCE
9.	Dr Ramachandra K -Member	Professor	Dept of Mechanical Engineering, RVCE
10.	Dr Nanjundaradhya N V -Member	Professor	Dept of Mechanical Engineering, RVCE
11.	Dr P V Srihari-Member	Associate Professor	Dept of Mechanical Engineering, RVCE
12.	Dr Ramesh S Sharma-Member	Associate Professor	Dept of Mechanical Engineering, RVCE
13.	Dr S K Harisha-Member	Associate Professor	Dept of Mechanical Engineering, RVCE
14.	Dr Rajkumar G R -Member	Associate Professor	Dept of Mechanical Engineering, RVCE
15.	Dr Nagesh S -Member	Assistant Professor	Dept of Mechanical Engineering, RVCE
16.	Dr Bharathish A -Member	Assistant Professor	Dept of Mechanical Engineering, RVCE
17.	Dr B W Shivaraj-Member	Assistant Professor	Dept of Mechanical Engineering, RVCE
18.	V I Jagannatha Guptha-Member	Assistant Professor	Dept of Mechanical Engineering, RVCE
19.	Mamtha V-Member	Assistant Professor	Dept of Mechanical Engineering, RVCE
20.	Suhas Patil-Member	Alumni	Dept of Mechanical Engineering, RVCE
21.	Harish D Y N-Member	Alumni	Dept of Mechanical Engineering, RVCE
22.	Prakash Hodimani. -Member	Alumni	Dept of Mechanical Engineering, RVCE



Dr. H N Narasimha Murthy, Chairman greeted all BoS members and special invitees. The following points were discussed:

Agenda #	Discussions and Resolutions
1	Review of the First Year BE syllabus for Basics of Mechanical Engineering and Computer-Aided Engineering Drawing for the 2018 revised scheme.
Scheme and syllabus for Computer Aided Engineering Drawing was discussed. The members suggested revision of course, learning objectives. Dr Jagadish suggested to remove the topic on lettering from Unit I. the external members suggested to cover projection of points in brief and to concentrate projection of straight lines and planes. Dr KVA Balaji suggested to include projection of Mid points and application problems.	

Agenda #	Discussions and Resolutions
2	Development of Course Outcomes (COs) for BME and CAED and CO-PO Mapping.
The committee members suggested to formulate Course Outcomes (COs) for BME and CAED and establish CO-PO mapping. The members suggested to emphasize real-world applications and problem-solving by integrating practical examples and case studies into the curriculum. Encourage students to engage in hands-on projects that address real engineering challenges, fostering critical thinking and innovation.	



Agenda #	Discussions and Resolutions
3	Approval of new courses for III and IV semester
<p>BoS Chairman presented the scheme for second year, after an exclusive discussion the following courses were suggested by the members to be included in the scheme.</p> <ul style="list-style-type: none"> • Concept of Metrology & Machine Drawing-18ME34 • Design thinking Lab-18ME47 	

Agenda #	Discussions and Resolutions
4	Discussion on Program Educational Objectives (PEOs), Program Outcomes (POs), and Program Specific Outcomes (PSOs) for BE (Mechanical), M.Tech in PDM, CIM, and Machine Design.
<p>The members suggested to align PEOs, POs, and PSOs with industry needs and emerging technologies. Incorporate sustainability, advanced manufacturing, and automation for BE (Mechanical). Emphasize research skills and innovation for M.Tech in PDM, CIM, and Machine Design. Regularly update outcomes to reflect technological advancements and industry standards.</p>	

Agenda #	Discussions and Resolutions
5	Review and placement of courses for the 2018 revised scheme for M.Tech in PDM, CIM, and Machine Design.
<p>The members suggested to review and update courses to align with current industry trends in Product Data Management (PDM), Computer Integrated Manufacturing (CIM), and Machine Design. The following new courses were suggested to be included in the scheme and syllabus for</p>	
<p>M.Tech(Product Design and Manufacturing)</p> <ul style="list-style-type: none"> Product Design for Quality-18MPD1A1 Product Data Management-18MPD1B1 Design for Manufacture and Assembly-18MPD2C2 Surface Engineering-18MPD3E2 Systems Engineering-18MPD2D3 Sheet Metal Forming and Plastic Molding -18MPD3E1 Surface Engineering -18MPD3E2 Product Design for Quality-18MPD1A1 Tribology-18MMD1A2 Surface Engineering-18MPD3E2 Creative Engineering -18MPD2C1 Advanced Finite Element Analysis-18MMD2D3 Mechatronics System Design-18MMD3E1 	<p>M.Tech (Compute Integrated Manufacturing)</p> <ul style="list-style-type: none"> Robotics and Automation-18MCM2D2 Intelligent Systems -18MCE1B2 Computer Control of Manufacturing Systems-18MCM12 Intelligent Systems -18MCE1B2 Tooling for Manufacturing in Automation-18MCM22 Advanced Metrology-18MCM2D1 Supply Chain Management -18 IEM 2D3 Industry 4.0-18ME2G06 Digital Manufacturing-18MCM31 Additive Manufacturing-18MCM3E1



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Agenda #	Discussions and Resolutions
6	Discussion on the Ready Engineer Programme
	The Chairman provided an overview of the Ready Engineer Programme, highlighting its objectives, structure, and benefits for students. Attendees discussed the feasibility of integrating the programme, considering logistical aspects, curriculum adjustments, and resource requirements. Concerns and suggestions were raised regarding implementation timelines, faculty involvement, and student participation.

The Chairman concluded the meeting by thanking the members present.

Dr. Jagadish (Subject Expert)

Dr K V A Balaji (Subject Expert, VTU Nominee)

Dr H N Narasimha Murthy Professor & HOD

Dr B Anand. Professor

Dr M S Krupashankar. Professor

Dr N Shanmukha. Professor

Dr Krishna M. Professor

Dr H D Gopalakrishna. Professor

Dr Ramachandra K . Professor

Dr Nanjundaradhya N V . Professor

Dr P V Srihari. Associate Professor

Dr Ramesh S Sharma. Associate Professor

Balaji
Narasimha
Ab
Ab
Shanmukha
Absent
Gopal
Srihari
Absent
Ramesh



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Dr S K Harisha. Associate professor

[Handwritten signature]

Dr Rajkumar G R Associate Professor

Absent

Dr Nagesh S Assistant professor

[Handwritten signature]

Dr bharathish A Assistant professor

[Handwritten signature]

Dr B W Shivaraj. Assistant professor.

Absent

Jagannatha Guptha. Assistant professor

[Handwritten signature]

Mamtha V . Assistant Professor

[Handwritten signature]

Suhas Patil. Alumni

[Handwritten signature]

Harish D Y N. Alumni

Absent

Prakash Hodimani. Alumni

Absent



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18th Board of Studies Meeting

Action Taken on 17th Board of Studies Meeting

The HoD discussed the incorporation of the suggestions provided by the Board of Studies members during the meeting held on 21 March 2017.	
Suggestion	Action Taken
Update First Year BE Syllabus: Revise the syllabus for Basics of Mechanical Engineering and Computer-Aided Engineering Drawing to align with industry standards.	The syllabus for Basics of Mechanical Engineering and Computer-Aided Engineering Drawing has been revised and updated to meet current industry standards. The updated syllabus was implemented from the 2018 academic year.
Develop COs and CO-PO Mapping: Formulate Course Outcomes (COs) for BME and CAED and establish CO-PO mapping.	Course Outcomes (COs) for BME and CAED have been developed. CO-PO mapping was completed and incorporated into the curriculum.
Review PEOs, POs, and PSOs: Discuss and update Program Educational Objectives (PEOs), Program Outcomes (POs), and Program Specific Outcomes (PSOs) for BE (Mechanical), M.Tech in PDM, CIM, and Machine Design.	Program Educational Objectives (PEOs), Program Outcomes (POs), and Program Specific Outcomes (PSOs) for BE (Mechanical), M.Tech in PDM, CIM, and Machine Design were reviewed and updated based on the suggestions.
Revise M.Tech Schemes: Review and revise the 2018 scheme for M.Tech in PDM, CIM, and Machine Design, including course placements.	The 2018 scheme for M.Tech in PDM, CIM, and Machine Design was reviewed and revised. Course placements were adjusted as per the BoS recommendations.
Introduce Ready Engineer Programme: Discuss the integration of the Ready Engineer Programme into the curriculum.	The Ready Engineer Programme has been introduced and integrated into the curriculum to enhance practical skills and industry readiness.

N.V.S.P.
Head, Department of Mechanical Engineering
R.V. College of Engineering
Bangalore - 560 059



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Ref: RVE/ME/032/19-20

Dated: 22.04.2019

To
Dr. K. A. Balaji
Subject Expert (VTU Nominee)
Belagavi

Respected Sir,

Sub: Invitation for BOS Meeting on 30 May 2019

The Board of Studies (BOS) meeting of the Department of Mechanical Engineering is scheduled for 30 May 2019 at 10 AM. The agenda for the meeting is as follows:

1. Result analysis of 4th and 8th Semester of BE Mechanical Engineering
2. To consider and approve the scheme for UG 2018 scheme from 3 to 8 semesters
3. To consider and approve the curriculum for 3rd and 4th semesters for BE
4. To consider and approve the curriculum for 7th and 8th semesters for BE Program
5. To consider and approve the curriculum for 3rd and 4th semesters for M.Tech in Machine Design, Product Design and Manufacturing and Computer Integrated Manufacturing
6. Others

I would be grateful if you could kindly make it convenient to attend the BOS meeting and provide your valuable suggestions for curriculum changes.

Yours sincerely,

M Krishna
Professor and Head
Department of Mechanical Engineering
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Ref: RVE/ME/032/19-20

Dated: 22.04.2019

Agenda:

1. Result analysis of 4th and 8th Semester of BE Mechanical Engineering
2. To consider and approve the scheme for UG 2018 scheme from 3 to 8 semesters
3. To consider and approve the curriculum for 3rd and 4th semesters for BE
4. To consider and approve the curriculum for 7th and 8th semesters for BE Program
5. To consider and approve the curriculum for 3rd and 4th semesters for M.Tech in Machine Design, Product Design and Manufacturing and Computer Integrated Manufacturing
6. Others

Following members attended 19th BoS meeting of Mechanical Engineering Board on 30 May 2019

Sl. No.	Name of the members	Designation	Institution
1.	Dr Krishna M Chairman	Professor & HOD	Dept of Mechanical Engineering, RVCE
2.	Dr H N Narasimha Murthy Member	Subject Expert VTU Nominee	Dept of Mechanical Engineering, RVCE
3.	Dr N Shanmukha Member	Subject Expert Professor	Dept of Mechanical Engineering, RVCE
4.	Dr H D Gopalakrishna Member	Professor	Dept of Mechanical Engineering, RVCE
5.	Dr Ramesh S Sharma Member	Professor	Dept of Mechanical Engineering, RVCE
6.	Prof M R Srinivas Member	Professor	Dept of Mechanical Engineering, RVCE
7.	Dr P R Venkatesh Member	Professor	Dept of Mechanical Engineering, RVCE
8.	Dr S Mahendra Kumar Member	Professor	Dept of Mechanical Engineering, RVCE
9.	Dr Anjaneya G Member	Professor	Dept of Mechanical Engineering, RVCE
10.	Prof Rakesh Kumar Member	Professor	Dept of Mechanical Engineering, RVCE



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Dr. M Krishna, Chairman greeted all BoS members and special invitees. The following points were discussed:

Agenda #	Discussions and Resolutions
19.2	Result Analysis of 4 th & 8 th Semester BE Mechanical Engineering
<p>The Chairman displayed 4th and 8th Semester Results to all the BOS Members. The members pointed out that in 4th Semester Thermal Engineering II and Kinematics of Machines have failure i.e. 19 and 10 out of 135 Students. They suggested to address this issue by teaching different techniques using ICT Tools.</p> <p>Committee strongly suggested to give three open assignments (Report OR Physical model) in their respective subjects other than the three CIE which will hamper the creativity of the students. They also recommended to conduct only midterm during 8th Week and Second term in 13th week with respective portions covered. This creates more visionaries rather than performers.</p> <p>Too many CIE conductions will reduce the effectiveness of faculty in research and innovation. Intend they can use M.Tech and Ph. D students for the evaluation of the booklets</p>	

Agenda #	Discussions and Resolutions
19.2	Presentation by BoS Chairman
<p>BoS chairman appraised on following points.</p> <ol style="list-style-type: none"> 1. Vision and Mission of department of Civil Engineering. 2. Welcomed new BoS members to the committee 	



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Agenda #	Discussions and Resolutions
19.3	To consider and approve the Scheme for UG 2018 Scheme from 3 to 8 Semesters
<p>The Chairman informed the house that the department bearers have been working on the revision of scheme for 2018 scheme, in this direction one brain stores was conducted on 2019 wherein experts from academics were invited to discuss the proposed scheme based on the new AICTE format. The members considered the revised scheme and discussed different issues. It was pointed out that total number of credits prescribed by RVCE in 175 for four years.</p> <p>Committee members suggested the following views</p> <ul style="list-style-type: none"> • Include concepts of Metrology and Machine Drawing in Third Semester, which will enhance the imaginations and creativity of the students. • Production Technology I can be merged with the Engineering Materials in Third Semester and manufacturing Technology in 4th Semester. • Theory of Machines should be split into Kinematics of Machines in III Sem and Dynamics of Machines in 4th semester. • CAD/CAM should be shifted from 4 to 5 Semester. • All Students should be encouraged to do Design Thinking Lab only in IIOT. • Introduce theory of Elasticity in 5th Semester and Theory of Plasticity in 6th semester. • A Course of Design of Ergonomics should be introduced instead of Minor Projects OR Make students to compulsorily to do their minor projects in Design of Ergonomics. Design of Safety, IIOT, Design of Manufacturing Dynamics, Robotics and Control and Combustion and energy system which are not studies in their curriculum. • Internship evaluation can be shifted from 5th Semester to 8th Semester. Internship evaluation can be evaluated based on not only industrial internship but also GATE, Indian Engineering Services and other competitive examination. • Internship evaluation can be shifted from 5th Semester to 8th Semester. Internship evaluation can be evaluated based on not only industrial internship but also GATE, Indian Engineering Services and other competitive examination. • Provide vacation for all the students to do innovative thinking. • The matter regarding implementation of the scheme for the academic year 2019-20 was also discussed and it was decided that the new scheme is implemented from BE III Sem and M.Tech III Sem. 	



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Agenda #	Discussions and Resolutions
19.4	To consider and approve the Curriculum for the BE III and IV Semester.
<p>The Chairman informed the committee members that the department faculty have been working on the revision of curriculum for 3rd and 4th Semester BE (2018 Scheme). The members considered the revised curriculums and discussed different issues and pointed out that the number of credits for each subject should be added in the detailed syllabus of every course. The committee gave some suggestions to delete some portions in few subjects as it burdens the students.</p>	

Agenda #	Discussions and Resolutions
19.5	To consider and approve the Curriculum for the 7 th and 8 th Sem BE Programs
<p>The Chairman informed the committee members that the department faculty have been working on the curriculum on 7th and 8th Sem BE programs (2016 Scheme). The members approved the revised curriculums and agreed to implement from 2019-20 for 7th Semester.</p>	

Agenda #	Discussions and Resolutions
19.6	To consider and approve the Curriculum for the 3 rd and 4 th Sem M.Tech Machine design, product Design & Manufacturing and Computer Integrated Manufacturing.
<p>The Chairman informed the committee members that the PG Faculty have been working on revision of curriculum for 3rd and 4th semester M.Tech Machine Design, M.Tech in Product Design & Manufacturing and M.Tech in Computer Integrated Manufacturing. The committee suggested to introduce the Mini Projects for Marks instead of assignments in all the subjects with respective topics. The members approved the revised curricula and agreed to implement from the academic year 2019-20 for 3rd semester.</p>	



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Agenda #	Discussions and Resolutions
19.7	To consider and approve the panel of examiner for Theory and practical examination for the academic year 2019-20 for UG.
The members have approved the list of examiners for Theory and practical for the UG courses for the academic year 2019-20. Further the members authorized the Chairman, BOS to modify the examiners as per the needs.	

Agenda #	Discussions and Resolutions
19.8	To consider and approve the panel of examiner for Theory and practical examination for the academic year 2019-20 for PG.
The members approved the proposed list of examiners for Theory and practical Examinations PG courses for the academic year 2019-20. Further the members authorized the Chairman BOS to modify the examiners as per the needs.	

Agenda #	Discussions and Resolutions
19.9	To consider and approve the panel of M.Tech Thesis evaluation for the Batch 2019-20
The members approved the proposed list of M. Tech for the Thesis evaluation of the Batch 2018-19 and 2019-20. Further the members authorized the Chairman BOS to modify the examiners as per the needs.	



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Agenda #	Discussions and Resolutions
19.10	NPTEL Toppers list during 2019
<p>Department of Students opted enthusiastically all disciplines of engineering subjects. Out of 50 students and faculty of the department, 25 students got all India Ranks (13 gold and 11 Silver and 1 Elite Medal). It was observed by the members that in order to improve the quality of the student at Undergraduate and postgraduate level, the department needs to encourage more number of students to take MOOC Studies. One of the Committee members suggested not to give any credits to NPTEL courses, as they are only learning materials and their quality is questionable. Instead of that credit should be given for GATE and IES Examination results which encourage students to join research organizations like DRDO, ISRO, CSIR Lab etc.,</p>	

Agenda #	Discussions and Resolutions
19.11	Any other discussion
<p>The evaluation should be done by the faculty who is handling the subject in their particular semester which will help to do the fair evaluation. Similarly, bring the external evaluators to evaluate subject, who is handling the same subject in the respective college.</p> <p>Evaluation System of Project work should be modified to guide evaluate three times and two external evaluation</p>	



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The meeting was concluded by the chairman with thanks to all members present

Internal Members

External BoS Member

Dr Krishna M
Chairman

Dr Pramod
Kumar

Dr H N Narasimha Murthy
Member

Dr Ramesh M R

Dr N Shanmukha-
Member

Prof C V
Venkatesh

Dr H D Gopalakrishna-
Member

Dr C K Panda

Dr Ramesh S Sharma-
Member

Mr J Prabhakar

Prof M R Srinivas-Member

Absent

Dr Vinod David

Dr P R Venkatesh-Member

Dr S Mahendra Kumar-
Member

Absent

Dr Anjaneya G-Member

Prof Rakesh Kumar-
Member

Absent



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19th Board of Studies Meeting

Action Taken on 18th Board of Studies Meeting

The HoD discussed the incorporation of the suggestions provided by the Board of Studies members during the meeting held on 30 May 2019.

Suggestion	Action Taken
Elaborate the content in the topic Renewable and Non-Renewable, and allotted time is not enough	<ul style="list-style-type: none"> ✓ Content Expansion: Enhance the syllabus to include detailed subtopics under Renewable and Non-Renewable energy sources. - Include: Types of renewable resources (solar, wind, geothermal, hydroelectric, biomass), benefits, and challenges. - Include: Types of non-renewable resources (coal, oil, natural gas, nuclear), environmental impact, and sustainability issues. ✓ Additional Time Allocation: Propose an increase in the number of lectures or extend the duration of existing ones to cover the expanded content adequately. ✓ Resources and Materials: Develop comprehensive lecture notes, presentations, and supplementary reading materials. ✓ Guest Lectures and Workshops: Organize guest lectures by industry experts and conduct workshops to provide practical insights. <p>Implementation Timeline: To be incorporated in the upcoming academic year.</p>
In manufacturing stream, include computer numerical control (CNC) type and classification	<ul style="list-style-type: none"> ✓ Syllabus Update: Revise the manufacturing stream syllabus to incorporate detailed topics on CNC types and classifications. ✓ Content to Include: Classification of CNC machines (based on control



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	<p>system, type of motion, number of axes), types of CNC machines (milling, lathe, router, grinder, etc.), advantages and disadvantages, and industrial applications.</p> <ul style="list-style-type: none"> ✓ Instructional Materials: Prepare detailed lecture notes, slides, and video tutorials. ✓ Faculty Training: Conduct workshops for faculty to get acquainted with the new content. ✓ Implementation Timeline: To be implemented in the next semester.
<p>Include CNC various operations in the Lab</p>	<ul style="list-style-type: none"> ✓ Lab Syllabus Update: Modify the lab syllabus to include practical sessions on various CNC operations. ✓ Operations to Cover: Basic operations (milling, turning, drilling), advanced operations (threading, grooving, contouring), and CNC programming basics. ✓ Equipment and Software: Ensure availability of necessary CNC machines and software for programming and simulations. ✓ Lab Manuals and Guides: Develop detailed lab manuals and guides for students to follow during practical sessions. ✓ Faculty and Technician Training: Provide training sessions for lab faculty and technicians. ✓ Implementation Timeline: Effective from the next lab cycle.
<p>Remove letter writing from Unit-1 and start from projection of points and lines</p>	<ul style="list-style-type: none"> ✓ Syllabus Revision: Amend the Unit-1 syllabus to remove the topic of letter writing. ✓ New Starting Point: Begin the unit with the topic "Projection of Points and



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	<p>Lines". Content Development: Prepare comprehensive lecture notes, diagrams, and practice problems on projection techniques.</p> <ul style="list-style-type: none">✓ Resources and Materials: Update textbooks, workbooks, and other teaching materials to reflect the change.✓ Faculty Briefing: Inform faculty members about the change and provide necessary training if required.✓ Implementation Timeline: Immediate implementation from the next academic term.
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Ref: RVE/ME/072/19-20

Dated: 01.03.2020

To
Dr. C V Venkatesh
Subject Expert (VTU Nominee)
Belagavi

Respected Sir,

Sub: Invitation for BOS Meeting on 06 March 2020

The Board of Studies (BOS) meeting of the Department of Mechanical Engineering is scheduled for 06 March 2020 at 10 AM. The agenda for the meeting is as follows:

1. Result analysis UG and PG of Mechanical Engineering
2. To consider and approve the syllabus for UG 2018 scheme from 5th and 6th semesters
3. To approval of the panel of examiners for theory and practical examination for 2020-21 academic year
4. To approval of the panel of examination question paper setter list for 2020-21 academic year
5. Any other discussion

I would be grateful if you could kindly make it convenient to attend the BOS meeting and provide your valuable suggestions for curriculum changes.

Thank you.

Yours sincerely,

M KRISHNA
Professor and Head
Department of Mechanical Engineering
RV College of Engineering



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Ref: RVE/ME/072/19-20

Dated: 01.03.2020

Agenda:

1. Result analysis UG and PG of Mechanical Engineering
2. To consider and approve the syllabus for UG 2018 scheme from 5th and 6th semesters
3. To approve the panel of examiners for theory and practical examination for 2020-21 academic year
4. To approve the panel of examination question paper setter list for 2020-21 academic year
5. Any other discussion

Following members attended 20th BoS meeting of Mechanical Engineering Board on 06 March 2020

Sl. No.	Name of the members	Designation	Institution
1.	Dr M Krishna - Chairman	Professor & HOD	Dept of Mechanical Engineering, RVCE
2.	Dr H N Narasimha Murthy - Member	Subject Expert VTU Nominee	Dept of Mechanical Engineering, RVCE
3.	Dr N Shanmukha N - Members	Subject Expert Professor	Dept of Mechanical Engineering, RVCE
4.	Dr H D Gopalkrishna - Member	Professor	Dept of Mechanical Engineering, RVCE
5.	Dr Ramesh S Sharma - Member	Professor	Dept of Mechanical Engineering, RVCE
6.	M R Srinivas - Member	Professor	Dept of Mechanical Engineering, RVCE
7.	Dr P R Venkatesh - Member	Associate Professor	Dept of Mechanical Engineering, RVCE
8.	Dr S Mahendr Kumar - Member	Associate Professor	Dept of Mechanical Engineering, RVCE
9.	Dr. Anjaneya. G - Member	Assistant Professor	Dept of Mechanical Engineering, RVCE



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10.	Prof. Jinka Ranganayakalu – Member	Assistant Professor	Dept of Mechanical Engineering, RVCE
11.	Prof Rakesh Kumar – Member	Assistant Professor	Dept of Mechanical Engineering, RVCE
12.	Dr C V Venkatesh-Academic	Professor and Head	Dept of Mechanical Engineering, Malnad College of Engineering
13.	Dr. P K Panda-Industry	Chief Scientist	Material Science Division , CSIR-NAL, Bangalore
14.	Mr J Prabhakar-Industry	General Manager	Machining Solutions Group, Kennametal India, Bengaluru
15.	Dr Vineet Dravi-Industry	Managing Director	COMSOL Multiphysics Pvt Ltd, Bengaluru
16.	Dr Pramod Kumar-Academic	Associate Professor	Dept of Mechanical Engineering, IISc, Bengaluru
17.	Dr Ramesh M R-Academic	Associate Professor	Dept of Mechanical Engineering, National Institute of Technology, Karnataka

Dr. M Krishna, Chairman greeted all BoS members and special invitees. The following points were discussed:

Agenda #	Discussions and Resolutions
20.2	Result Analysis of UG and OG – Mechanical Engineering
<p>The Chairman displayed 3rd Semester (2018 Scheme) 5th and 7th semester (2016 Scheme) results of UG and 23rd Semester of M.Tech (CIM, PDM, MD) to all the BOS members. The members pointed out the number of F Grades in CIE is Zero but “F” grade in SEE has appeared and they suggested to remove the F Grade collision in CIE. They raised the question that the PG students in the Major Project phase I acquired lower grade (no S grade and more B grade) and also suggested to invite outside researchers to give motivation for PG Students in the major project more systematically.</p>	



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Agenda #	Discussions and Resolutions
20.3	To consider and approve the syllabus for UG 2015 for 5 th & 6 th semester
<p>The Chairman informed the house that the department teams have been working on the merits of scheme for 2018 and in this direction brain storming session was conducted on 17th February 2020 based on New AICTE Format. The members considered the revised scheme and discussed different issues. It was pointed out that total number of credits prescribed by RVCE for 175 for Four Years.</p> <p>Paper mentoring needed for UG & PG project work orientation.</p> <p>The following courses were suggested to be introduced</p> <p>Financial Accounting-18ME5A1</p> <p>Decision Support System for Managers-18IM5A2</p> <p>Managerial Economics-18ME5A3</p> <p>Rapid Manufacturing-18ME5A4</p> <p>Minor Project-18ME64</p> <p>Advanced Mechanism Design-18ME6C4</p> <p>Foundation of Mechatronics-18ME6C3</p> <p>Internet of Things-18CS6C1</p> <p>Machine Learning -18CS6D1</p> <p>Vibration and Control Systems-18ME72</p> <p>Internship-18ME74</p> <p>Industry 4.0 -18ME7F1</p> <p>Metrology and Quality Control-18ME7F2</p> <p>Micro and Nano Manufacturing -18ME7F3</p> <p>Fundamentals of Aerodynamics-18ME7F4</p> <p>Reliability and Maintainability Engineering -18ME7F5</p> <p>To introduce more Management courses is curriculum especially related to business</p>	



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The CAD/CAM Direct numerical can be introduced.
3D Printing a part of CAM can be introduced in the CAD/CAM syllabus.
Centre of Unit : 5 of CAD/CAM can be changed fully.
For CAD/CAM lab open ended experiments can be introduced. But should not be even for the examinations.
In design of Machine Elements – I a topic on High and low fatigue life cycle can be introduced without saving any problems.
In Turbo Machinery lab on experiment on VANE Pump can be introduced.
In the professional elective group –C for VI Semester.
In advanced Solid Mechanics, contents of Units V to be changed and to introduce Theory on Plasticity OR Advanced Fatigue Concepts. For reference, a book on Advanced Solid Mechanics by professor Young to be put

- In Foundations of Mechatronics a topic on Digital Signal processing to be introduced. The contents of unit III can be reduced as lot of portions are included.
- In Vehicle Dynamics course, concerns are to be reformulated.

In the Professional Ethics of Group-D for 6th semester

- In Hydraulics and pneumatics, an assignment carrying 20 Marks based on H&L Lab component to be incorporated.
- In Advanced Manufacturing process, reformulate the syllabus and simplify the contents.

Agenda #	Discussions and Resolutions
29.4	To consider and approve the Panel of Examiners for Theory & Practical Examination for 2020-21 Academic Year for UG.
The Members approved the proposed list of Examiners for Theory and practical examination for UG courses for Academic session 2020-2021. Further, the members authorized be Chairman, BOS to modify the examiners as per needs.	



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Agenda #	Discussions and Resolutions
29.5	To consider and approve the Panel of Examination question paper Setters list for 2020-21 Academic Year.
The member approved the proposal list of examiners for Theory and Practical Examination of PG course for Academic session 2020-2021. Further, the members authorized the Chairman, Bos to modify the examiners as per needs.	

Agenda #	Discussions and Resolutions
29.6	Any other discussion
They suggested more electives list other than Mechanical Engineering courses to the Students. They can take elective from the list of choices available as course elective. In 2018 Scheme, for 5 th and 6 th Semester, the following new additions are incorporated	
<ul style="list-style-type: none">➤ CAC/CAM Hardware details and details and CNC simulators are added along with DNC.➤ 3-D Printing for CAM Design is included CAD/CAM lab.➤ In Turbo Machinery, performance test on VANE PUMP can be included as on experiment. In NPTEL, 3 courses are added related to Industrial Business (e-business, international business and work system design).➤ Enriched design of Machine elements with more assembly drawing.➤ TATA Technologies sponsored Industrial Elective Fundamentals of Automotive Design is included.➤ Machine Learning is introduced as One of the Elective Courses.	
RVCE-BENZ sponsored AUTOMOTIVE MECHATRONICS as a Global Elective for 5 th Semester students.	



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The meeting was concluded by the chairman with thanks to all members present

Internal Members		External BoS Member	
Dr Krishna M Chairman		Prof C V Venkatesh	
Dr H N Narasimha Murthy Member		Dr C K Panda	
Dr N Shanmukha- Member		Mr J Prabhakar	
Dr H D Gopalakrishna- Member		Dr Vinod Dravid	Absent
Dr Ramesh S Sharma- Member		Dr Pramod Kumar	Absent
Prof M R Srinivas-Member	Absent	Dr Ramesh M R	Absent
Dr P R Venkatesh-Member			
Dr S Mahendra Kumar- Member	Absent		
Dr Anjaneya G-Member			
Jinka Ranganayakulu- Member			
Prof Rakesh Kumar- Member	Absent		



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20th Board of Studies Meeting

Action Taken on 19th Board of Studies Meeting

The HoD discussed the incorporation of the suggestions provided by the Board of Studies members during the meeting held on 06 March 2020.	
Suggestion	Action Taken
Include Concepts of Metrology and Machine Drawing in Third Semester	<ul style="list-style-type: none"> ✓ Review and update third-semester syllabus to integrate Metrology and Machine Drawing concepts. ✓ Develop detailed course content and learning outcomes. ✓ Update syllabus and obtain approvals. ✓ Prepare study materials and lab manuals. ✓ Train faculty members. <p>Timeline: By next academic year</p>
Merge Production Technology I with Engineering Materials in Third Semester and Manufacturing Process in Fourth Semester	<ul style="list-style-type: none"> ✓ Analyze existing syllabus for overlap. ✓ Create combined course outline for third semester and revised Manufacturing Process course for fourth semester. ✓ Submit changes for academic committee review and approval. ✓ Revise teaching plans and materials. ✓ Inform students and faculty. <p>Timeline: Implementation from next academic year.</p>
Split Theory of Machine into Kinematics of Machines in Third Semester and Dynamics of Machines in Fourth Semester	<ul style="list-style-type: none"> ✓ Develop separate course outlines for Kinematics of Machines (III semester) and Dynamics of Machines (IV semester). ✓ Update curriculum and course catalog. ✓ Adjust faculty teaching assignments. ✓ Communicate changes to students and advisors. <p>Timeline: To be completed before the next academic year.</p>
Shift CAD/CAM from Fourth to Fifth Semester	<ul style="list-style-type: none"> ✓ Amend academic calendar to shift CAD/CAM to fifth semester. ✓ Reallocate other courses to fill fourth-semester slot. ✓ Update syllabus and course schedules. ✓ Notify students and faculty.



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 accredited by the National Board of Accreditation, New Delhi

	Timeline: Effective from next academic year.
Encourage All Students to Do Design Thinking Lab Only in IIoT	<ul style="list-style-type: none"> ✓ Develop comprehensive Design Thinking Lab course focused on IIoT. ✓ Integrate lab into curriculum as mandatory. ✓ Provide resources and faculty training. ✓ Promote benefits to students. ✓ Monitor and evaluate effectiveness. Timeline: Initiate in upcoming semester.
Introduce Theory of Elasticity in Fifth Semester and Theory of Plasticity in Sixth Semester	<ul style="list-style-type: none"> ✓ Draft detailed course outlines for Theory of Elasticity and Theory of Plasticity. ✓ Update curriculum to include these courses. ✓ Prepare teaching materials. ✓ Train faculty members. ✓ Ensure laboratory support. Timeline: Courses to be introduced in next academic year.
Introduce a Course on Design of Ergonomics Instead of Minor Project or Make Students Compulsorily Do a Minor Project in “Design for Ergonomics”	<ul style="list-style-type: none"> ✓ Evaluate feasibility of replacing minor project with Design of Ergonomics course. ✓ Develop syllabus for Design of Ergonomics course. ✓ Alternatively, design structured minor project on Design for Ergonomics. ✓ Update academic program. ✓ Prepare teaching and project guidance materials. ✓ Communicate changes. Timeline: To be rolled out in next academic year.

(Signature)
 Professor & Head
 Department of Mechanical Engineering
 R.V. College of Engineering
 Bangalore - 560 059



Ref: RVE/ME/034/22-23

Dated: 19.09.2022

To
Dr. Samuel G L
Subject Expert (VTU Nominee)
Belagavi

Respected Sir,

Sub: Invitation for BoS Meeting on 15 September 2022

The Board of Studies (BoS) meeting of the Department of Mechanical Engineering is scheduled for 15 September 2022 at 10 AM. The agenda for the meeting is as follows:

1. Welcome New BoS Members
2. To consider and approve the syllabus for UG 2021 scheme from 3rd and 4th semesters
3. To approval of the panel of examiners for theory and practical examination for 2022-23 academic year
4. To approval of the panel of examiners for theory and practical examination for 2022-23 academic year for PG
5. To consider and approve the panel of M.Tech Thesis Evaluation for the batch 2022-23 academic year.
6. Any other discussion

I would be grateful if you could kindly make it convenient to attend the BOS meeting and provide your valuable suggestions for curriculum changes.

Thank you.

Yours sincerely,

M Krishna
Professor and Head
Department of Mechanical Engineering
RV College of Engineering

Ref: RVE/ME/034/22-23

Dated: 19.09.2022

Agenda:

1. Welcome New BoS Members
2. To consider and approve the syllabus for UG 2021 scheme from 3rd and 4th semesters
3. To approval of the panel of examiners for theory and practical examination for 2022-23 academic year
4. To approval of the panel of examiners for theory and practical examination for 2022-23 academic year for PG
5. To consider and approve the panel of M.Tech Thesis Evaluation for the batch 2022-23 academic year.
6. Any other discussion

Following members attended 20th BoS meeting of Mechanical Engineering Board on 15 September 2022

Sl. No.	Name of the members	Designation	Institution
1.	Dr M Krishna- Chairman	Professor & HOD	Dept of Mechanical Engineering, RVCE
2.	Dr H N Narasimha Murthy- Member	Subject Expert, VTU Nominee	Dept of Mechanical Engineering, RVCE
3.	Dr N Shanmukha N- Member	Subject Expert Professor	Dept of Mechanical Engineering, RVCE
4.	Dr H D Gopalkrishna- Member	Professor	Dept of Mechanical Engineering, RVCE
5.	Dr Ramesh S Sharma- Member	Professor	Dept of Mechanical Engineering, RVCE
6.	Dr P V Srihari- Member	Professor	Dept of Mechanical Engineering, RVCE
7.	Dr G R Rajkumar- Member	Professor	Dept of Mechanical Engineering, RVCE
8.	Dr. Bharatish. A. - Member	Professor	Dept of Mechanical Engineering, RVCE
9.	Dr Samuel-Academic	Professor	Dept of Mechanical Engineering, IIT Madras
10.	Dr. P K Panda-Academic	Chief Scientist	Material Science Division , CSIR-NAL, Bangalore
11.	Mr J Prabhakar-Industry	General Manager	Machining Solutions Group, Kennametal India, Bengaluru
12.	Mr Vineeth Dravid-Industry	Managing Director	COMSOL Multiphysics Pvt Ltd, Bengaluru

Dr. M Krishna, Chairman greeted all BoS members and special invitees. The following points were discussed:

Agenda #	Discussions and Resolutions
21.1	Welcome BOS members and about the department
At the outset, the Chairman introduced and welcomed the members to the meeting of BoS and placed agenda deliberations before the members. The following deliberations were made as per the agenda.	

Agenda #	Discussions and Resolutions
21.2	To consider and approve the Scheme for UG 2021 Scheme for III and IV Semester
<p>The chairman informed the hours that the department teams have been working on the revision of scheme 2021 and in this directions Academic Advisory committee meeting was conducted on 12th June 2022 where experts from academic were invited to discuss the proposed scheme based on the new AICTE format. The members considered the revised scheme and discussed the different issues. The committee suggested the following changes and approved the introduction of new courses in 2021 Scheme</p> <p>Integral Transforms, Optimization and Numerical Techniques 21MA31C</p> <p>Solid Mechanics 21ME33</p> <p>Python for Mechanical Engineers 21ME36</p> <p>Mechanical Measurement Systems 21ME4A1</p> <p>Design Practice 21ME4A2</p> <p>Manufacturing Guidelines for Product Design 21ME4A3</p> <p>Electronic Packaging and Manufacturing 21ME4A4</p> <p>Waste to Energy Conversion 21ME4A5</p> <p>Theory and Practice of Non-Destructive Testing 21ME4A6</p> <p>Solar Photovoltaics: Principles, Technologies & Materials 21ME4A7</p> <p>Surface Engineering of Nanomaterials 21ME4A8</p>	



Agenda #	Discussions and Resolutions
21.3	To consider and approve the Panel of Examiners for Theory and practical Examination for 2023-24 Academic UG.
The members have approved the proposed list of examiners of Theory and practical examinations of UG course for the year 2022-23. Further the members authorized the Chairman, BOS to authorize as per the needs.	

Agenda #	Discussions and Resolutions
21.4	To consider and approve the Panel of Examiners for Theory and practical Examination for 2022-23 Academic PG.
The members have approved the proposed list of examiners of Theory and practical examinations of PG course for the year 2022-23. Further the members authorised the Chairman, BOS to authorise as per the needs.	

Agenda #	Discussions and Resolutions
21.5	To consider and approve the M.Tech Thesis Evaluation for the batch 2022-23
The members approved the proposed list of Examiners for M.Tech Thesis evaluation of the batch and 2021-22 and 2022-23. Further, the member authorised the Chairman, BoS to change the examiners as per the needs.	



The meeting was concluded by the chairman with thanks to all members present

Internal Members		External BoS Member	
Dr Krishna M - Chairman		Prof C V Venkatesh	
Dr H N Narasimha Murthy Member		Dr C K Panda	
Dr N Shanmukha- Member		Mr J Prabhakar	
Dr H D Gopalakrishna- Member		Dr Vinod Dravid	Absent
Dr Ramesh S Sharma- Member		Dr Pramod Kumar	Absent
Prof M R Srinivas-Member	Absent	Dr Ramesh M R	Absent
Dr P R Venkatesh-Member			
Dr S Mahendra Kumar- Member	Absent		
Dr Anjaneya G-Member			
Jinka Ranganayakulu- Member			
Prof Rakesh Kumar- Member	Absent		



21st Board of Studies Meeting

Action Taken on 20th Board of Studies Meeting

The HoD discussed the incorporation of the suggestions provided by the Board of Studies members during the meeting held on 15 September 2022.	
Suggestion	Action Taken
Proper mention is needed for UG and PG project work orientation	<ul style="list-style-type: none"> ✓ Develop clear guidelines and objectives for UG and PG project work orientation. ✓ Include these guidelines in the academic handbook. ✓ Conduct orientation sessions for students and faculty. ✓ Ensure regular monitoring and evaluation. <p>Timeline: Immediate implementation.</p>
Introduce More Management Courses in Curriculum, Especially Related to Business	<ul style="list-style-type: none"> ✓ Identify potential management and business-related courses relevant to engineering students. ✓ Develop course outlines and get approvals. ✓ Integrate selected courses into the curriculum. ✓ Train faculty and prepare materials. <p>Timeline: Implementation from next academic year.</p>
Introduce CAD/CAM Direct Numerical Control	<ul style="list-style-type: none"> ✓ Develop course content focusing on Direct Numerical Control (DNC) within the CAD/CAM curriculum. ✓ Update syllabus to include this topic. ✓ Prepare instructional materials and lab setups. ✓ Train faculty members. <p>Timeline: Effective from next semester.</p>
Introduce 3D Printing as Part of CAM in the CAD/CAM Syllabus	<p>Review and revise the entire content of Unit 5 in the CAD/CAM syllabus.</p> <p>Develop new course material aligned with current industry standards.</p> <p>Get approvals from the academic committee.</p> <p>Prepare faculty to deliver the updated content.</p> <p>Timeline: To be implemented in the next academic cycle.</p>
Introduce Open-ended Experiments in CAD/CAM Lab (Not for Examination)	<ul style="list-style-type: none"> ✓ Design open-ended experiments for CAD/CAM lab sessions. ✓ Ensure these experiments foster creativity and practical problem-solving. ✓ Communicate the non-examinable nature of these experiments.



	<ul style="list-style-type: none">✓ Monitor and adjust based on student feedback. <p>Timeline: Immediate implementation.</p>
Introduce Topic on High and Low Fatigue Life Cycle in Design of Machine Element-I (Without Solving Problems)	<ul style="list-style-type: none">✓ Develop instructional content covering high and low fatigue life cycles.✓ Integrate this topic into the Design of Machine Element-I syllabus.✓ Focus on theoretical understanding without problem-solving. <p>Timeline: To be implemented in the next semester.</p>
Introduce Experiment of Vane Pump in Turbomachinery Lab	<ul style="list-style-type: none">✓ Develop an experimental setup for Vane pump in the Turbomachinery Lab.✓ Update lab manuals to include this new experiment.✓ Train lab instructors and assistants.✓ Ensure availability of required equipment. <p>Timeline: Effective from the next lab session cycle.</p>


Professor in Charge
Department of Mechanical Engineering
R.V. College of Engineering
Bangalore - 560 059



Ref: RVE/ME/064/23-24

Dated: 1.06.2023

To
Dr. Samuel G L
Subject Expert (VTU Nominee)
Belagavi

Respected Sir,

Sub: Invitation for BOS Meeting on 10 June 2023

The Board of Studies (BOS) meeting of the Department of Mechanical Engineering is scheduled for 10 June 2023 at 10 AM. The agenda for the meeting is as follows:

1. To consider and approve the scheme for UG 2021 scheme from 5nd and 6th semesters
2. To consider and approve the scheme for UG 2022 scheme 3rd and 4th semesters
3. To approval of the panel of examiners for theory and practical examination for 2023-24 academic year
4. To approval of the panel of examiners for theory and practical examination for 2023-24 academic year for PG
5. Any other discussion

I would be grateful if you could kindly make it convenient to attend the BOS meeting and provide your valuable suggestions for curriculum changes.

Thank you.

Yours sincerely,

M Krishna
Professor and Head
Department of Mechanical Engineering
RV College of Engineering



Ref: RVE/ME/064/23-24

Dated: 1.06.2023

Agenda:

1. To consider and approve the scheme for UG 2021 scheme from 5nd and 6th semesters
2. To consider and approve the scheme for PG 2022 scheme
3. To approval of the panel of examiners for theory and practical examination for 2023-24 academic year
4. To approval of the panel of examiners for theory and practical examination for 2023-24 academic year for PG
5. Any other discussion

Following members attended 21st BoS meeting of Mechanical Engineering Board on 10 June 2023.

Sl. No.	Name of the members	Designation	Institution
1.	Dr M Krishna- Chairman	Professor & HOD	Dept of Mechanical Engineering, RVCE
2.	Dr H N Narasimha Murthy- Member	Subject Expert, VTU Nominee	Dept of Mechanical Engineering, RVCE
3.	Dr N Shanmukha N- Member	Subject Expert Professor	Dept of Mechanical Engineering, RVCE
4.	Dr H D Gopalkrishna- Member	Professor	Dept of Mechanical Engineering, RVCE
5.	Dr Ramesh S Sharma- Member	Professor	Dept of Mechanical Engineering, RVCE
6.	Dr P V Srihari- Member	Professor	Dept of Mechanical Engineering, RVCE
7.	Dr. Bharatish. A. - Member	Assistant Professor	Dept of Mechanical Engineering, RVCE
8.	Dr Anjaneya G- Member	Assistant Professor	Dept of Mechanical Engineering, RVCE
9.	Dr G L Samuel- Subject Expert (VTU Nominee)	Professor	Dept of Mechanical Engineering, IIT-Madras
10.	Dr. P KPanda- Academic	Chief Scientist	Material Science Division , CSIR- NAL, Bangalore
11.	Mr J Prabhakar- Industry	General Manager	Machining Solutions Group, Kennametal India, Bengaluru
12.	Mr Vineeth Dravid- Industry	Managing Director	COMSOL Multiphysics Pvt Ltd, Bengaluru

Dr. M Krishna, Chairman greeted all BoS members and special invitees. The following points were discussed:

Agenda #	Discussions and Resolutions
22.1	Welcome New BOS members and about the Development
<p>At the outset, the Chairman introduced and Welcomed the members to BOS of meeting and placed the agenda for the deliberations before the members. The following members were made as per the Agenda</p>	

Agenda #	Discussions and Resolutions
22.2	To consider and approve the scheme for PG 2022 scheme
<p>The Chairman presented the 2022 scheme-PG programme. The members discussed the various courses and suggested the following new courses to be introduced.</p> <p>M.Tech (Product Desing and Manufacturing)</p> <p>Digital Manufacturing 22MPD13TL</p> <p>Machine learning Lab 22MMD14L</p> <p>Machine Learning for Mechanical Engineers 22MPD1A1T</p> <p>Design For Sustainability and Safety 22MPD1A2T</p> <p>Advanced Manufacturing Practices 22MPD1A3T</p> <p>Industrial Ergonomics and Biomechanics 22MPD22TL</p> <p>Machine Learning for Mechanical Engineers 22MPD1A1T</p> <p>GD&T and Digital Metrology 22MPD2C3T</p> <p>Computational Mathematics 22MAT11AT</p> <p>Machine Learning Lab 22MMD14L</p> <p>ElectricVehicle 22MPD2C5T</p> <p>Sustainable and Smart Design 22MMD1A3T</p> <p>M.Tech (Machine Design)</p> <p>Design of Pressure Vessels 22MMD2C3T</p> <p>Computational Mathematics 22MAT11AT</p> <p>Design for Tribology 22MMD2C1T</p>	



Agenda #	Discussions and Resolutions
22.3	To consider and approve the Panel of Examiners for Theory and practical Examination for 2023-24 Academic UG
The members have approved the proposed list of examiners of Theory and practical examinations of UG course for the Academic year 2022-23. Further the members authorized the Chairman BOS to modify the examiners as per the needs.	

Agenda#	Discussions and Resolutions
22.4	To consider and approve the Panel of Examiners for Theory and practical Examination for 2023-24 Academic PG
The members approved the proposal list of examiners for Theory and practical examination of PG Courses for the academic year 2023-24. Further, the members authorized the Chairman BOS to modify the examiners as per the list	



The meeting was concluded by the chairman with thanks to all members present

Internal Members

External BoS Member

Dr Krishna M -
Chairman

Prof C V
Venkatesh

Dr H N Narasimha Murthy
Member

Dr C K Panda

Dr N Shanmukha-
Member

Mr J Prabhakar

Dr H D Gopalakrishna-
Member

Dr Vinod Dravid

Absent

Dr Ramesh S Sharma-
Member

Dr Pramod
Kumar

Absent

Dr P R Venkatesh-Member

Dr Ramesh M R

Absent

Dr Anjaneya G-Member

Prof Rakesh Kumar-
Member

Absent

22nd Board of Studies Meeting

Action Taken on 21st Board of Studies Meeting

The HoD discussed the incorporation of the suggestions provided by the Board of Studies members during the meeting held on 10 June 2023.	
Suggestion	Action Taken
Engineering Materials syllabus to be reduced as per 2 credits	<ul style="list-style-type: none"> ✓ Syllabus Reduction: Review the current syllabus and identify less critical topics that can be removed or merged. ✓ Essential Topics: Focus on essential topics such as material properties, classifications, and basic applications. ✓ Approval Process: Get the revised syllabus approved by the academic committee. <p>Implementation Timeline: Implement in the next academic year.</p>
Introduce Python EL components for Solid Mechanics	<ul style="list-style-type: none"> ✓ Curriculum Update: Integrate Python programming components into the Solid Mechanics course. ✓ Content Development: Develop modules and exercises that utilize Python for solving solid mechanics problems. ✓ Training: Provide training for faculty on incorporating Python into their teaching. ✓ Resources: Prepare instructional materials, including tutorials, example problems, and projects. <p>Implementation Timeline: Implement from the next semester.</p>
Since Engineering Thermodynamics syllabus was very vast, certain portion were suggested to implement in Engineering Physics	<ul style="list-style-type: none"> ✓ Syllabus Redistribution: Identify topics in Engineering Thermodynamics that can be shifted to Engineering Physics. ✓ Coordination: Work with the Engineering Physics faculty to integrate these topics seamlessly. ✓ Syllabus Adjustment: Update both Engineering Thermodynamics and Engineering Physics syllabi accordingly. <p>Implementation Timeline: Implement in the next academic year.</p>
Manufacturing Technology-I and II advice to be merged to Manufacturing Technology	<ul style="list-style-type: none"> ✓ Course Merger: Combine the content of Manufacturing Technology-I and II into a single comprehensive course. ✓ Syllabus Development: Create a cohesive syllabus that covers all necessary topics efficiently. ✓ Approval Process: Seek approval from the academic committee for the merged course.



	Implementation Timeline: Implement in the next semester.
Reintroduced Theory of Machines	<ul style="list-style-type: none">✓ Course Reintroduction: Reinstate Theory of Machines as a core course in the curriculum.✓ Syllabus Development: Develop an updated syllabus that includes both Kinematics and Dynamics of Machines.✓ Faculty Assignment: Assign qualified faculty to teach the reintroduced course. Implementation Timeline: Effective from the next academic year.
MOOC elective must be introduced in IV semester	<ul style="list-style-type: none">✓ MOOC Integration: Identify suitable MOOCs from reputable platforms (Coursera, edX, etc.) that align with the curriculum.✓ Elective Options: Provide a list of approved MOOCs that students can choose from.✓ Credit Allocation: Determine the credit equivalency for completed MOOCs.✓ Guidelines: Develop guidelines for students to enroll and complete MOOC electives. Implementation Timeline: Available from the next IV semester.
Universal Human Values (UHV) course suggest to be introduced in IV semester	<ul style="list-style-type: none">✓ Course Introduction: Develop and introduce a Universal Human Values (UHV) course.✓ Syllabus Development: Create a syllabus that covers essential topics in human values, ethics, and professional conduct.✓ Approval Process: Get the course approved by the academic committee.✓ Faculty Training: Train faculty members to effectively teach the UHV course. Implementation Timeline: Implement in the next IV semester.


Professor
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