



**PRESIDENCY
UNIVERSITY**

Private University Estd. in Karnataka State by Act No. 41 of 2013



SCHOOL OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING

Ref. No: PU/SOE/MEC/ATR/BOS-11/2020-21

Date: 15th Nov 2020

Action taken Report on Curriculum Feedback

Feedback from Students and action taken report

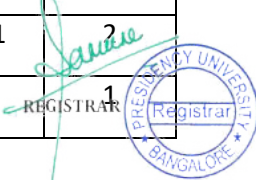
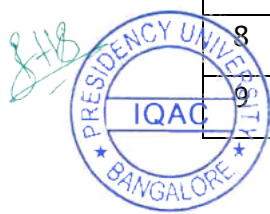
| Sl. No. | Feedback | Action Taken |
|---------|---|--|
| 1 | More number of discipline elective courses have to be offered | It is planned to offer more number of elective courses and students will have the choice to choose from a wide number of courses |
| 2 | Need to include recent trend based subjects, so that it will increase employability | 8 courses are being introduced as per the industry demand; faculty will be updating the syllabus regularly as per the need |
| 3 | Teaching needs to be based on application | 2 Application based courses will be introduced as per the suggestion |

Based on the feedback received from stakeholders, related courses (Annexure 1) were revised. Few new courses (Annexure 2) were also included based on the feedback received from stakeholders.

Annexure – 1

**List of Courses in which Content Revision is undertaken for the Academic Year 2020-21
(B.Tech Program)**

| S. No. | COURSE | Course Code | Credits |
|--------|------------------------------------|-------------|---------|
| 1 | Mechanics of Composite Materials | MEC316 | 3 |
| 2 | Work Study | MEC 105 | 3 |
| 3 | Production Techniques - II | MEC207 | 3 |
| 4 | Production Planning and Control | MEC304 | 4 |
| 5 | Engineering Dynamics | MEC325 | 3 |
| 6 | Elements of Mechanical Engineering | MEC 1004 | 3 |
| 7 | Energy Conversion Lab | MEC258 | 4 |
| 8 | Hybrid Electric Vehicle Design | MEC 3071 | 2 |
| 9 | Basic Thermodynamics | MEC 201 | 1 |

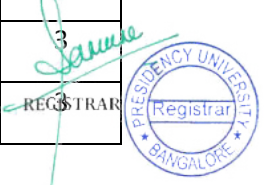
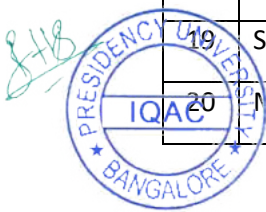


| | | | |
|----|---|-------------|---|
| 10 | Flexible Manufacturing Systems | MEC310 | 3 |
| 11 | Design of Machine Elements - II | MEC 216/219 | 3 |
| 12 | Mechanics of Solids | MEC206 | 4 |
| 13 | Workshop Practice | MEC 151 | 3 |
| 14 | Machine Shop Practice | MEC 252 | 4 |
| 15 | Metrology and Mechanical Measurements | MEC211 | 3 |
| 16 | Metrology and Mechanical Measurements Lab | MEC 255 | 1 |

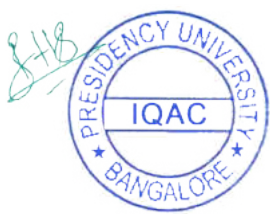
Annexure – 2

List of New Courses included for the Academic Year 2020-21 (B.Tech Program)

| S. No. | COURSE | Course Code | Credits |
|---------------|--|--------------------|----------------|
| 1 | Polymer Engineering | MEC 3045 | 3 |
| 2 | Introduction to Robotics and Automation | MEC 3065 | 3 |
| 3 | Intelligent Machining & Manufacturing | MEC 3021 | 3 |
| 4 | Material and Characterisation Techniques | MEC 3012 | 3 |
| 5 | Python for Automation | MEC 3066 | 3 |
| 6 | Statistics and Quality Control | MEC 3016 | 3 |
| 7 | OPERATION RESEARCH AND MANAGEMENT | MEC 2002 | 3 |
| 8 | Supply Chain Management | MEC 2003 | 3 |
| 9 | CAD/CAM Laboratory | MEC 3041 | 1 |
| 10 | Powder Metallurgy | MEC 3042 | 3 |
| 11 | Product Design for Manufacturing and Assembly | MEC 3055 | 3 |
| 12 | Reliability Engineering | MEC 3015 | 3 |
| 13 | Value Engineering | MEC 2018 | 3 |
| 14 | Alternate fuels | MEC 3033 | 3 |
| 15 | Vehicle dynamics | MEC 3058 | 3 |
| 16 | Modeling and Simulation of Manufacturing Systems | MEC 3044 | 3 |
| 17 | Engineering Instruments and Measurements | MEC 3067 | 3 |
| 18 | Micro and Nano Manufacturing | MEC 3046 | 3 |
| 19 | Six Sigma for Professionals | MEC 2004 | 3 |
| 20 | Manufacturing Control and Automation | MEC 3064 | 3 |



| | | | |
|----|--|----------|---|
| 21 | Rapid Tooling and Industrial Applications | MEC 3023 | 3 |
| 22 | Reverse Engineering and Computer Aided Inspection | MEC 3024 | 3 |
| 23 | Robotics | MEC 3060 | 3 |
| 24 | Robotics and Automation Lab | MEC 3061 | 1 |
| 25 | Metal Forming Simulation | MEC 3047 | 3 |
| 26 | Engineering Optimisation | MEC 3069 | 3 |
| 27 | Soft Computing Techniques | MEC 3013 | 3 |
| 28 | Thermal Management of Electronic Appliances | MEC 3072 | 3 |
| 29 | Introduction to Matlab and Simulink | MEC 1002 | 3 |
| 30 | Safety Engineering | MEC 2006 | 3 |
| 31 | Mechanical Vibrations & Design | MEC 3007 | 3 |
| 32 | Thermodynamics for Mechanical Engineers | MEC 2009 | 3 |
| 33 | Heat - Mass Transfer | MEC3089 | 3 |
| 34 | Battery and Fuel cell technology | MEC 3011 | 3 |
| 35 | Fundamentals of Automobile Engineering | MEC 1001 | 3 |
| 36 | Additive Manufacturing Machines and Systems | MEC 3020 | 3 |
| 37 | CAD for Additive Manufacturing | MEC 3017 | 3 |
| 38 | Design and Analysis of Experiments | MEC 3008 | 3 |
| 39 | Integrated Product Design and Development | MEC 3057 | 3 |
| 40 | Engineering Drawing | MEC 1003 | 3 |
| 41 | Lasers in Manufacturing Technology | MEC 3043 | 3 |
| 42 | Modern Manufacturing Processes | MEC 3040 | 3 |
| 43 | Fundamentals of Additive Manufacturing | MEC 2007 | 3 |
| 44 | Additive Manufacturing and Its Applications | MEC 3019 | 3 |
| 45 | Additive Manufacturing in Medical Applications | MEC 3018 | 3 |
| 46 | Introduction To Additive Manufacturing & Its Application | MEC 3002 | 3 |
| 47 | Rapid Prototyping Laboratory | MEC 3022 | 1 |
| 48 | Theory of Machines | MEC 2012 | 3 |
| 49 | Automotive Vehicles | MEC3010 | 3 |





SCHOOL OF ENGINEERING DEPARTMENT OF MECHANICAL ENGINEERING

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Action taken Report on Curriculum Feedback

Feedback/suggestions from Faculty Members and action taken report

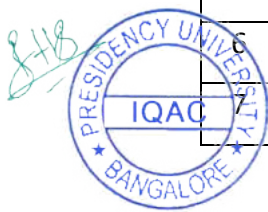
| Sl. No. | Feedback | Action Taken |
|---------|---|--|
| 1 | Need to have theory integrated lab courses | The Department will consider the same and try to include theory and lab integrated courses |
| 2 | Elective courses on manufacturing need to be provided. | 6 number of courses on manufacturing are available as electives like FMS and PPC |
| 3 | Courses relating to quality check need to be added | The curriculum has courses like metrology along with lab which is able to address the issue. |
| 4 | According to the demand in industry, the curriculum needs to add courses on mechatronics and additive manufacturing | Additional minors for the 2 said courses will be included in the curriculum |

Based on the feedback received from stakeholders, related courses (Annexure 1) were revised. Few new courses (Annexure 2) were also included based on the feedback received from stakeholders

Annexure – 1

List of Courses in which Content Revision is undertaken for the Academic Year 2020-21 (B.Tech Program)

| S. No. | COURSE | Course Code | Credits |
|--------|------------------------------------|-------------|---------|
| 1 | Mechanics of Composite Materials | MEC316 | 3 |
| 2 | Work Study | MEC 105 | 3 |
| 3 | Production Techniques - II | MEC207 | 3 |
| 4 | Production Planning and Control | MEC304 | 4 |
| 5 | Engineering Dynamics | MEC325 | 3 |
| 6 | Elements of Mechanical Engineering | MEC 1004 | |
| 7 | Energy Conversion Lab | MEC258 | |

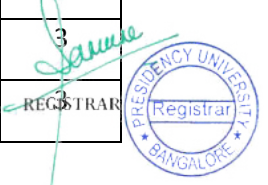
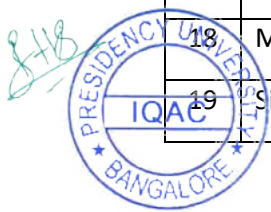


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|----|---|-------------|---|
| 8 | Hybrid Electric Vehicle Design | MEC 3071 | 2 |
| 9 | Basic Thermodynamics | MEC 201 | 1 |
| 10 | Flexible Manufacturing Systems | MEC310 | 3 |
| 11 | Design of Machine Elements - II | MEC 216/219 | 3 |
| 12 | Mechanics of Solids | MEC206 | 4 |
| 13 | Workshop Practice | MEC 151 | 3 |
| 14 | Machine Shop Practice | MEC 252 | 4 |
| 15 | Metrology and Mechanical Measurements | MEC211 | 3 |
| 16 | Metrology and Mechanical Measurements Lab | MEC 255 | 1 |

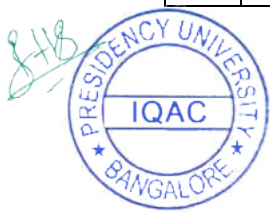
Annexure – 2

List of New Courses included for the Academic Year 2020-21 (B.Tech Program)

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|---------------|--|--------------------|----------------|
| 1 | Polymer Engineering | MEC 3045 | 3 |
| 2 | Introduction to Robotics and Automation | MEC 3065 | 3 |
| 3 | Intelligent Machining & Manufacturing | MEC 3021 | 3 |
| 4 | Material and Characterisation Techniques | MEC 3012 | 3 |
| 5 | Python for Automation | MEC 3066 | 3 |
| 6 | Statistics and Quality Control | MEC 3016 | 3 |
| 7 | OPERATION RESEARCH AND MANAGEMENT | MEC 2002 | 3 |
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| 9 | CAD/CAM Laboratory | MEC 3041 | 1 |
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| 14 | Alternate fuels | MEC 3033 | 3 |
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| 16 | Modeling and Simulation of Manufacturing Systems | MEC 3044 | 3 |
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| 19 | Six Sigma for Professionals | MEC 2004 | 3 |



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|----|--|----------|---|
| 20 | Manufacturing Control and Automation | MEC 3064 | 3 |
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| 23 | Robotics | MEC 3060 | 3 |
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DEPARTMENT OF MECHANICAL ENGINEERING

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Date: 15th Nov 2020

Action taken Report on Curriculum Feedback

Feedback/suggestions from Alumni and action taken report

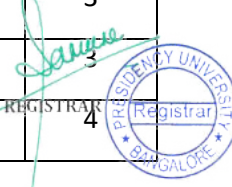
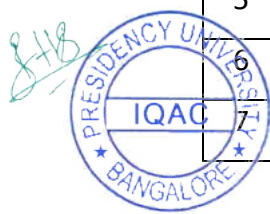
| Sl. No. | Feedback | Action Taken |
|---------|---|---|
| 1 | Course on Refrigeration and air conditioning needs to be included | 3 Thermal courses related to the said course can accommodate the topics under consideration |
| 2 | More number of industrial visits have to take place | The Department has put in place a team to organize such visits. We have already had three visits this semester. |
| 3 | Offering specialization in Mechanical program need to be considered | Planned to offer more specialization in mechanical program as per the current demand in the field of Mechanical Engineering |
| 4 | More practical enabled courses or hands on sessions maybe implemented to fulfill present job requirements/technologies. | Will work on that and will be approved in next BOS. Several MOUs are being considered to address this area. |

Based on the feedback received from stakeholders, related courses (Annexure 1) were revised. Few new courses (Annexure 2) were also included based on the feedback received from stakeholders

Annexure – 1

**List of Courses in which Content Revision is undertaken for the Academic Year 2020-21
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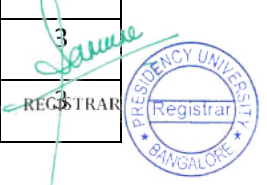
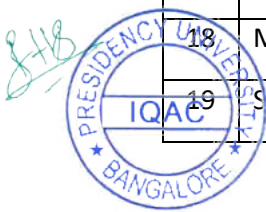


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| 8 | Hybrid Electric Vehicle Design | MEC 3071 | 2 |
| 9 | Basic Thermodynamics | MEC 201 | 1 |
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| 12 | Mechanics of Solids | MEC206 | 4 |
| 13 | Workshop Practice | MEC 151 | 3 |
| 14 | Machine Shop Practice | MEC 252 | 4 |
| 15 | Metrology and Mechanical Measurements | MEC211 | 3 |
| 16 | Metrology and Mechanical Measurements Lab | MEC 255 | 1 |

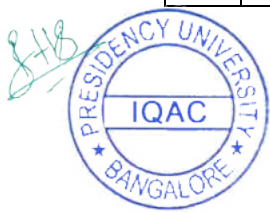
Annexure – 2

List of New Courses included for the Academic Year 2020-21 (B.Tech Program)

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| 5 | Python for Automation | MEC 3066 | 3 |
| 6 | Statistics and Quality Control | MEC 3016 | 3 |
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| 26 | Engineering Optimisation | MEC 3069 | 3 |
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| 34 | Battery and Fuel cell technology | MEC 3011 | 3 |
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| 37 | CAD for Additive Manufacturing | MEC 3017 | 3 |
| 38 | Design and Analysis of Experiments | MEC 3008 | 3 |
| 39 | Integrated Product Design and Development | MEC 3057 | 3 |
| 40 | Engineering Drawing | MEC 1003 | 3 |
| 41 | Lasers in Manufacturing Technology | MEC 3043 | 3 |
| 42 | Modern Manufacturing Processes | MEC 3040 | 3 |
| 43 | Fundamentals of Additive Manufacturing | MEC 2007 | 3 |
| 44 | Additive Manufacturing and Its Applications | MEC 3019 | 3 |
| 45 | Additive Manufacturing in Medical Applications | MEC 3018 | 3 |
| 46 | Introduction To Additive Manufacturing & Its Application | MEC 3002 | 3 |
| 47 | Rapid Prototyping Laboratory | MEC 3022 | 1 |
| 48 | Theory of Machines | MEC 2012 | 3 |
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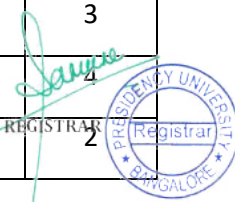
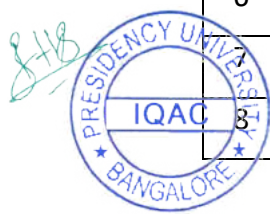
| Sl. No. | Feedback | Action Taken |
|---------|---|--|
| 1 | Multi-disciplinary courses need to be implemented | Students have the option of selecting discipline and open electives of their choice |
| 2 | Courses related to automotive need to be added in the curriculum | The Department offers 12 courses in automotive and aerospace related fields |
| 3 | Prototype models of some experiments need to be shown to students | The Department has already got prototype models in ECE lab; for demonstration and working, a CNC machine is also made available in machine shop. |

Based on the feedback received from stakeholders, related courses (Annexure 1) were revised. Few new courses (Annexure 2) were also included based on the feedback received from stakeholders

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| 6 | Elements of Mechanical Engineering | MEC 1004 | 3 |
| 7 | Energy Conversion Lab | MEC258 | 4 |
| 8 | Hybrid Electric Vehicle Design | MEC 3071 | 2 |

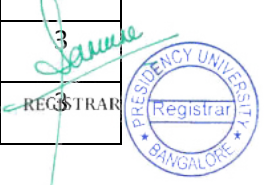
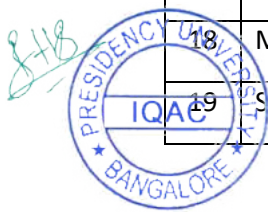


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| 12 | Mechanics of Solids | MEC206 | 4 |
| 13 | Workshop Practice | MEC 151 | 3 |
| 14 | Machine Shop Practice | MEC 252 | 4 |
| 15 | Metrology and Mechanical Measurements | MEC211 | 3 |
| 16 | Metrology and Mechanical Measurements Lab | MEC 255 | 1 |

Annexure – 2

List of New Courses included for the Academic Year 2020-21 (B.Tech Program)

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