PRESIDENCY UNIVERSITY

GAIN MORE KNOWLEDGE REACH GREATER HEIGHTS

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

PRESIDENCY GROUP OVER 40 YEARS OF ACADEMIC WISDOM

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 stake holders.

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

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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

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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

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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/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 stake holders

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

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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)

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

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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/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 sessionsmaybe 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 stake holders

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

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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)

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
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Action taken Report on Curriculum Feedback

Feedback/suggestions from Employer and action taken report

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.

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5	Engineering Dynamics	MEC325	3
6	Elements of Mechanical Engineering	MEC 1004	3
7	Energy Conversion Lab	MEC258	2
8	Hybrid Electric Vehicle Design	MEC 3071	2

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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
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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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48	Theory of Machines	MEC 2012	3
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