



Course Design Review

Action Taken Report of the University on the Feedback of Stakeholders

Mechanical Engineering_UG Program



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KLE Technological University
HUBBALLI-580 031



Action Taken Report Approved in Board of Studies dated 15.04.2017 and implemented with effect from Aug 2018

1	Observations/ Recommendations based on feedback	POs impacted
Employers Feedback: ✓ Teachers Feedback (Pre-BoS MoM): ✓ <ul style="list-style-type: none"> There was no adequate time available for the product development, post the design approval. Emphasis on Geometrical dimensioning and tolerance, Materials & PCB design was relatively less. Little exposure of students to complex engineering problems and analysis in conventional class room discussions. There is no Emphasis on scheduling and resource allocation. The lesson plan needs improvement – the treatment to each topic with the tools/templates to be elaborated for delivery. 		2
Actions taken		
<ul style="list-style-type: none"> The course was restructured, thus students got enough time for interactions with users, experts and manufacturers while working on the design phase of product development cycle – identify, formulate and solve and also realize the product. One session is introduced on scheduling and resource allocation. The tools/templates to be used for each of the phases of Engineering Design Process have been included. 		Course Revised/ Added Engineering Design BoS approved Date 15.04.2017

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- The rubrics were used for assessment of students for having attained the competence in these design skills.

2	Observations/ Recommendations based on feedback	POs impacted
Employers Feedback: ✓		2
Teachers Feedback (Pre-BoS MoM): ✓		
Students Feedback: ✓		
Alumni Feedback: ✓		
	<ul style="list-style-type: none"> The concept of stability has to be taught with explicit mention of the same in the syllabus Hands-on experience has to be more for better understanding of the concepts. No emphasis on case studies. 	
Actions taken		
		Course Revised/ Added
<ul style="list-style-type: none"> A chapter on system stability is introduced. The lab on control engineering is separated from erstwhile Mechatronics & Control Engineering lab and named as Instrumentation & Control Engineering Lab. Number of credits for the Instrumentation & Control Engineering Lab alone is enhanced to 2 credits to increase time for hands on exposure. Case studies were introduced in instrumentation & control engineering. 		Instrumentation & Control Engg REGISTRAR
		BoS approved Date 15.04.2017

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<ul style="list-style-type: none"> Contexts for acquiring inter-disciplinary knowledge and skills were created in courses – Instrumentation & Control Engineering. 		
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3	Observations/ Recommendations based on feedback	POs impacted
Employers Feedback: ✓ Students Feedback: ✓ Alumni Feedback: ✓	<ul style="list-style-type: none"> Limited exposure to open-ended real-life problems. Lack of exposure to tools, interfacing concepts and Hands-on experience. Need for more emphasis on interdisciplinary knowledge. 	4
Actions taken		
<ul style="list-style-type: none"> Course project in Mechatronics provided a platform for students to engage with interfacing tools and techniques. The lab on Mechatronics is separated from erstwhile Mechatronics & Control Engineering lab and named as Mechatronics Lab. Number of credits for the Mechatronics Lab alone is made 3 credits to increase time for hands on exposure. 	Course Revised/ Added Mechatronics Lab.	BoS approved Date 15.04.2017


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4	Observations/ Recommendations based on feedback	POs impacted
<p>Teachers Feedback (Pre-BoS MoM): ✓</p> <p>Students Feedback: ✓</p> <p>Alumni Feedback: ✓</p> <ul style="list-style-type: none"> Limited student appreciation to potential hardware and software tools for wide-range applications, their strengths and limitations. Demand for skill upgradation to integrate hardware and software to develop meaningful applications. To create student awareness at higher semester level on engineer's role to resolve societal issues. Curiosity and appreciation among students towards high impact engineering solutions lacking More instances need to be created to address design and development of solutions. 		3 and 5
Actions taken		Course Revised/ Added
<ul style="list-style-type: none"> Increased emphasis on usage of modern tool by enhancing hands-on experience with due focus on selection and application of various techniques and resources to solve the stated problem helped students understand the strengths and limitations of such tools. An approach of Design-Build-Control introduced helped students understand the integration challenges (Hardware and software) of both – interrelated steps and the different technologies in realizing product as a system and was implemented with comprehensive assessment strategy which was shared with students in the beginning of the course. Addressed students to create awareness on engineer's role to identify and solve several societal issues demonstrated through selection of appropriate socially relevant problem statement for their project courses. 		<p>Minor Project</p> <p>15.04.2017</p> <p><i>[Signature]</i></p>


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1	Observations/ Recommendations based on feedback	POs impacted
Employers Feedback: ✓ Teachers Feedback (Pre-BoS MoM): ✓ Alumni Feedback: ✓ <ul style="list-style-type: none"> Existing content was not sufficient for students to excel the knowledge to meet the expectations of industry. The premier industries such as Ansys Inc India, Bosch, KPIT Cummins and Dassault Systems recommended to include the latest best practices and tools pertaining to Finite element analysis. Minimal exposure on the current field issues related to engineering domain. 		2
Actions taken		
<ul style="list-style-type: none"> Revisions to the existing curriculum were focussed on post processing techniques in software tools and data acquisition for experimental validation. To cover the case studies pertaining to industrial field issues, numerous examples were included in the curriculum. 		Course Revised/ Added FEM BoS approved Date 13-04-2019

2	Observations/ Recommendations based on feedback	POs impacted
Employers Feedback: ✓ Teachers Feedback (Pre-BoS MoM): ✓ <ul style="list-style-type: none"> Course content not adequate to offer immersive experience in modelling. 		PSO 13  REGISTRAR



- Limited exercises to strongly demonstrate power of modelling in the final solution/product development.
- Lack of ability to develop industry standard drawings, incorporating GD&T attributes and other drawing conventions.

Actions taken

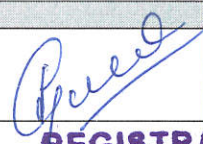
- The course CAD Modelling and PLM introduced with 15hr/week hands-on immersive training experience, with a focus on Exposure to system building from components/sub-systems.
- Emphasis on 2D, 3D drafting, generation of BOM, GD&T, exploded view and rendering features.
- Included Product development and Reverse Engineering through virtual Projects.

Course Revised/ Added

CAD Modelling and PLM
Lab.

BoS approved Date

13-04-2019

3	Observations/ Recommendations based on feedback	POs impacted
Employers Feedback: ✓ Teachers Feedback (Pre-BoS MoM): ✓ Alumni Feedback: ✓ <ul style="list-style-type: none"> • Instrumentation and control systems subject had too much of content to be delivered at 3rd semester level. • Industry experts and academicians from Institutes of Higher level learning suggested to have exclusive course on control systems for better focus. • Instrumentation content was mostly repeated partially in Mechatronics and Automation courses. 		PO2
Actions taken		Course Revised/ Added
Employers Feedback: ✓		BoS approved Date
 REGISTRAR KLE Technological University HUBBALLI-580 011		Control Systems 13-04-2019



Teachers Feedback (Pre-BoS MoM): ✓

- Instrumentation content was separated from control systems course to focus better.
- Instrumentation content was accommodated under a new course Mechatronics as most of the instrumentation building blocks changed from mechanical instrumentation to electronics instrumentation. Also this change was linked to Industrial revolutions.

4	Observations/ Recommendations based on feedback	POs impacted
	<ul style="list-style-type: none"> • Instrumentation content mostly was separated from control systems Lab course as per changes in respective theory course. • Industry experts and academicians from Institutes of Higher level learning suggested having exclusive course on control systems Lab and adopt recent industry practices and few hardware experiments for better concept realisation. 	PO2
Actions taken		
Teachers Feedback (Pre-BoS MoM): ✓		Course Revised/ Added
Students Feedback: ✓ <ul style="list-style-type: none"> • More structured enquiry experiments are included for enhanced experiential learning • New hardware related experiments to help students acquire mastery over control aspects. • Emphasis on physical modeling was brought in help students reach industry current practices. 		Control Systems Lab
		BoS approved Date
		13-04-2019

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5	Observations/ Recommendations based on feedback	POs impacted
Employers Feedback: ✓		PO2
Teachers Feedback (Pre-BoS MoM): ✓		
<ul style="list-style-type: none"> Students to work on more complex problems Encourage students to publish their work in conferences 		
Actions taken		
<ul style="list-style-type: none"> Complex problems are introduced Student teams are motivated to publish their findings in conferences 		Course Revised/ Added FEM BoS approved Date 13-04-2019

6	Observations/ Recommendations based on feedback	POs impacted
Teachers Feedback (Pre-BoS MoM): ✓		PO1
<ul style="list-style-type: none"> Analytical solution for solving engineering problems having large system of equations and PDE is difficult. Limited exposure on tools for solving engineering problems 		
Actions taken		
<ul style="list-style-type: none"> Python programming has been introduced as a tutorial for solving engineering problems 		Course Revised/ Added Numerical Methods and Partial Differential Equation BoS approved Date 13-04-2019

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Action Taken Report Approved in Board of Studies dated 19-06-2020 and implemented with effect from Aug 2020

1	Observations/ Recommendations based on feedback	POs impacted
Teachers Feedback (Pre-BoS MoM): ✓ Alumni Feedback: ✓ <ul style="list-style-type: none"> The content is too much to handle in 26 Hrs. Strengthen the emphasis on IC Engine performance measurement. 		PO1
Actions taken		
<ul style="list-style-type: none"> The content is restructured to increase the emphasis on IC Engine performance measurement. 		Course Revised/ Added IC Engines 19EMEC401
		BoS approved Date

2	Observations/ Recommendations based on feedback	POs impacted
Teachers Feedback (Pre-BoS MoM): ✓ <ul style="list-style-type: none"> Students are expected to learn on condensers 		PO1
Actions taken		
<ul style="list-style-type: none"> Content on condensers is introduced 		Course Revised/ Added Design of Thermal Systems
		BoS approved Date 19-06-2020

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3	Observations/ Recommendations based on feedback		POs impacted
Employers Feedback: ✓			PO5
Teachers Feedback (Pre-BoS MoM): ✓			
<ul style="list-style-type: none">Introduce a tool being currently used in industry extensively			
Actions taken		Course Revised/ Added	BoS approved Date
<ul style="list-style-type: none">AutoCAD REVIT is introduced to help students acquire proficiency in the modeling and estimation tasks		HVAC Systems	19-06-2020



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Course Design Review

Action Taken Report of the University on the Feedback of Stakeholders

Machine Design_PG Program


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Action Taken Report Approved in Board of Studies dated 09-04-2016 and implemented with effect from 2016-2017

Observations/ Recommendations based on feedback		POs impacted
Teachers Feedback (Pre-BoS MoM): ✓ <ul style="list-style-type: none"> ➤ Modern machinery which operate under higher operating speeds with lighter elements, and this combination needs to be studied. ➤ Existing content needs to be modified to excel the knowledge to meet the expectations of industry. 		PO2
Actions taken		Course Revised/ Added
<ul style="list-style-type: none"> ➤ The course contents are modified by brining nonlinear vibrations and continuous systems. ➤ As part of bridge course review of mechanical vibrations is introduced as 1st chapter. 		Theory of Vibrations with Application
		BoS approved Date
		09-04-2016

Observations/ Recommendations based on feedback		POs impacted
Teachers Feedback (Pre-BoS MoM): ✓ <ul style="list-style-type: none"> ➤ Condition monitoring based inspections are finding wider applications in machine tool industries and hence needs to be included in lab content. ➤ Theoretical contents of condition monitor is minimum in the course Advanced vibrations. 		PO5
Actions taken		Course Revised/ Added
<ul style="list-style-type: none"> ➤ Spindle bearing health monitoring is to be performed using monitoring devices for imbalance and levelling. 		Design Lab
		BoS approved Date
		09-04-2016

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- Real time collision detection is planned to avoid operating condition related tool collision using hardware and software integration.

Observations/ Recommendations based on feedback		POs impacted
Teachers Feedback (Pre-BoS MoM): ✓ <ul style="list-style-type: none"> ➤ Minimal exposure on the power calculations related to machining operations and gear box design. ➤ The contents on basic spindle bearing parameter study and statistical quality control is not adequate. 		PO3
Actions taken	Course Revised/ Added	BoS approved Date
<ul style="list-style-type: none"> ➤ Power and force estimation for turning and drilling are introduced. ➤ Reynold's series calculations for better gear box design and quality control parameters are brought in course content. ➤ Spindle bearing calculations using catalogues and design data sheets are included. 	Machine Tool Design and Analysis	09-04-2016

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Observations/ Recommendations based on feedback		POs impacted
Teachers Feedback (Pre-BoS MoM): ✓ ➤ Validation of the FE Analysis is missing. ➤ Analysis log file report needs to be submitted in the prescribed format.		PO5 and PO6
Actions taken		
Actions taken		Course Revised/ Added
➤ The FE results on few of the components are to be validated using available closed form empirical relations or through available literature. ➤ The FE simulation results are to be extracted through software and submitted in prescribed format.		Modeling and Finite Element Analysis Lab
		BoS approved Date
		09-04-2016

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Action Taken Report Approved in Board of Studies dated 15-04-2017 and implemented with effect from 2017-2018

Observations/ Recommendations based on feedback		POs impacted
Teachers Feedback (Pre-BoS MoM): ✓ ➤ No contents on analysis related to transient state and steady state moving crack problems and computations of dynamic stress intensity and energy relate rate.		PO1
Actions taken		BoS approved Date
➤ A separate module on Dynamic and Time-Dependent Fracture is introduced in place of non-destructive testing. ➤ Related to materials and structures non-destructive testing is studied elsewhere.		15-04-2017

Observations/ Recommendations based on feedback		POs impacted
Teachers Feedback (Pre-BoS MoM): ✓ ➤ The contents needs to be changed keeping in view of writing thesis and proposals, as it will help students in future. ➤ The present course content was studied as different module instead of integration.		PO4 and PO9
Actions taken		BoS approved Date
➤ Course structure is revamped keeping in view of research writings. ➤ Case studies are brought to enhance the integrated research learnings.		15-04-2017

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Observations/ Recommendations based on feedback		POs impacted
Teachers Feedback (Pre-BoS MoM): ✓ ➤ Study on advanced materials like composite and functionally graded materials is essential.		PO1
Actions taken		BoS approved Date
➤ A separate module on advanced materials with macro mechanics of lamina is introduced.		15-04-2017
		Course Revised/ Added
		Mechanical Behavior of Materials

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Observations/ Recommendations based on feedback		POs impacted
Teachers Feedback (Pre-BoS MoM): ✓ <ul style="list-style-type: none">➤ Lack of study on thermo elastic stress–strain relations, which is essential in most of the industry.➤ Existing content on plasticity is to be relooked.		PO3
Actions taken		BoS approved Date
<ul style="list-style-type: none">➤ Thermal stress module is introduced with focus on thermo elastic stress–strain relations of thin circular disk, long circular cylinder, and straight beams.➤ The contents of plasticity are revised.		Course Revised/ Added Mechanics of Solids

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Course Design Review

Action Taken Report of the University on the Feedback of Stakeholders

Production Management_PG Program


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Action Taken Report Approved in Board of Studies dated 13-04-2019 and implemented with effect from 2019-2020

Observations/ Recommendations based on feedback		POs impacted
Teachers Feedback (Pre-BoS MoM): v 1. The contents needs to be changed keeping in view of writing thesis and proposals, as it will help students in future. 2. The present course content was studied as different module instead of integration.		PO4 and PO9
Actions taken		Course Revised/ Added
1. Course structure is revamped keeping in view of research writings. 2. Case studies are introduced to enhance the integrated research learnings.		Research Methodology (16EPMC706)
		BoS approved Date
		13-04-2019

Observations/ Recommendations based on feedback		POs impacted
Teachers Feedback (Pre-BoS MoM): v It was proposed to offer a Mini Project to facilitate better student employability in BOS meeting.		P01, P02 and P05
Actions taken		Course Revised/ Added
As an employment initiative for Production Management PG Program with focus on PLM/ ERP, the Mini Project has been introduced in the Second Semester to facilitate student employability in Manufacturing/Service Industry.		Mini Project (19EPMW701)
		BoS approved Date
		13-04-2019


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Action Taken Report Approved in Board of Studies dated 09-04-2016 and implemented with effect from 2016-2017

Observations/ Recommendations based on feedback		POs impacted
Teachers Feedback (Pre-BoS MoM): ✓ 1. The existing theory content is not sufficient for the students to excel the knowledge in the proposed metal forming processes. 2. Experts of high learning institute/industry have suggested to have exclusive tutorial component on "Analysis of Forming Processes" for better concept realisation.		PO4
Actions taken		Course Revised/ Added
The content is restructured with the addition of tutorial component of 1 credit to accommodate more numerical on various metal forming processes.		Analysis of Forming Processes (16EPMC706)
		BoS approved Date
		09-04-2016

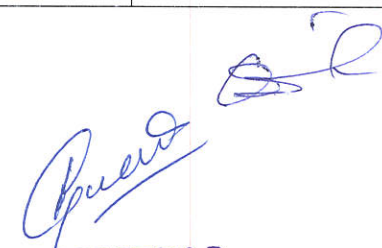


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Action Taken Report Approved in Board of Studies dated 15-04-2017 and implemented with effect from 2017-2018

Observations/ Recommendations based on feedback		POs impacted
Employers Feedback: ✓		PO1, PO2 and PO5
Teachers Feedback (Pre-BoS MoM): ✓		
1. The increasing growth and potential in the manufacturing industry, the automation industries are expected to generate more opportunities for students in the areas of research and employment. 2. In order to prepare the students, industry experts have suggested to offer “Manufacturing Technology and Automation” Themes for the PG Program in Production Management with effect from 2017-2018.		
Actions taken	Course Revised/ Added	BoS approved Date
The Curriculum Structure has been revamped for extensive focus on “Manufacturing Technology” and “Automation” themes to facilitate better employability in the Manufacturing Industries.	Out of 23 courses, 15 courses are newly introduced	15-04-2017


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Action Taken Report Approved in Board of Studies dated 07-04-2018 and implemented with effect from 2018-2019

Observations/ Recommendations based on feedback		POs impacted
Employers Feedback: ✓		PO1, PO3, PO5
Teachers Feedback (Pre-BoS MoM): ✓		
1. Missing exposure to working in a collaborative environment, little hands-on training and relatively poor integration of theory and laboratory courses were observed in the existing curriculum.		
2. Leading companies in the manufacturing industry have expanded their PLM and ERP methods and systems in recent years to ensure increased coverage of these and stronger integration of the processes along the entire value-added chain. The age of Industry 4.0 and the Internet of Things (IOT) possess the new challenges such as the development of smart products, the planning of smart factories, the integration and digital networking of processes and the designing of new business models, in particular new service offers. Hence, PLM and ERP are the prerequisites for a smart factory.		
3. It has been suggested in BOS meeting, PLM and ERP are identified as the emerging areas to suit the present Industry requirements.		
Actions taken		Course Revised/ Added
To suit the present industry needs and to enhance job prospects with emphasis on to develop among students the competence in PLM and ERP, the entire curriculum has been redesigned as per the industry requirements to meet specific job expectation of the employer.		Out of 21 courses, 17 courses are newly introduced
		BoS approved Date
		07-04-2018


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Course Design Review

Action Taken Report of the University on the Feedback of Stakeholders

Energy Systems Engineering_PG Program



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Action Taken Report Approved in Board of Studies dated 09-04-2016 and implemented with effect from 2016 odd sem

Observations/ Recommendations based on feedback		POs impacted
<p>Employers Feedback: ✓</p> <p>Teachers Feedback (Pre-BoSMoM): ✓</p> <p>Students Feedback: ✓</p> <p>The overall structure and curriculum of all four semesters reviewed and approved with minor changes. The PG Programme should imbibe research aptitude in students. There is a need to introduce a dedicated course to give insights into various aspects to enable students to undertake guided research independently.</p>		PO4
Actions taken		BoS approved Date
<ol style="list-style-type: none"> 1. Research Methodology course (2-1-0) with a practice oriented training on research methodology and essential statistical tools introduced. This course will replace existing course on Technical Report Writing (0-0-3) 2. The courses at 1st sem , 3rd sem and 4th sem are retained in existing form 		<p>Course Revised/ Added</p> <p>Research Methodology (Added)</p> <p>9th April 2016</p>

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Action Taken Report Approved in Board of Studies dated 15.04.2017 and implemented with effect from 2017 odd sem

Observations/ Recommendations based on feedback		POs impacted
<p>Employers Feedback: ✓</p> <p>Teachers Feedback (Pre-BoSMoM): ✓</p> <p>Students Feedback: ✓</p> <p>The growing demand of Sustainability principles and newer Renewable energy concepts to be introduced. Introduce concepts of Instrumentation and control for strengthening project work. More practical orientation through extended hours of learning through practice sessions- Theme based Mini project</p>		PO3 and PO4
Actions taken		Course Revised/ Added
<ol style="list-style-type: none"> 1. Conventional Energy Conversion Systems (4-0-0) replaced by Sustainable Building Design (4-0-0), Experimental Methods in Energy Systems (4-0-0) replaced by Instrumentation and Control in Energy Systems (4-0-0) to bring in the latest aspects of renewable energy sector. 2. New course Economics and Planning of Energy conversion introduced at 3rd semester level to highlight the latest aspects of energy conversion. 3. The Theme based Mini-projects(0-0-3) introduced to strengthen practice in Renewable Energy (Mini Project -1) and Energy conservation (Mini Project -2) 		<p>Sustainable Building Design (Added)</p> <p>Economics and Planning of Energy conversion (Added)</p> <p>Mini Project -1/ Mini Project -2 (Added)</p>
		BoS approved Date
		15 th April 2017

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Action Taken Report Approved in Board of Studies dated 07.04.2018 and implemented with effect from 2018 odd sem

Observations/ Recommendations based on feedback			POs impacted
Employers Feedback: ✓			PO3 and PO4
Teachers Feedback (Pre-BoSMoM): ✓			
Students Feedback: ✓			
The courses on Renewable Energy systems and Energy Management involve lot of practical aspects, hence hands-on exposure to system operation is essential.			
Actions taken		Course Revised/ Added	BoS approved Date
1. Renewable Energy Systems course was revised to 3-0-1 structure against the existing 4-1-0 to bring into practical aspects associated in renewable energy systems. The 5 hour discussion on Bio-fuels has been removed to accommodate for change in credit structure.		Renewable Energy Systems (Revised)	7 th April 2018
2. Energy Management course was revised to 3-0-1 structure against the existing 4-1-0 to bring into practice oriented. The chapter on Carbon trading has been introduced in the light of growing importance to carbon credit market.		Energy Management (Revised)	
3. The four new lab courses (Energy System Lab / Industrial Instrumentation and Control Lab/ Modelling and Simulation Lab / IoT based Living space Lab introduced to develop competence in the current areas of research.		4- Lab courses (Added)	
4. The New course on Energy Audit Practices introduced with overall orientation to make the courses more practice oriented against dissemination of information.		Energy Audit Practices (Added)	

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Action Taken Report Approved in Board of Studies dated 13-04-2019 and implemented with effect from 2019 odd sem

Observations/ Recommendations based on feedback		POs impacted
<p>Employers Feedback: ✓</p> <p>Teachers Feedback (Pre-BoSMoM): ✓</p> <p>Students Feedback: ✓</p> <p>Fundamentals of computational methods requires a revamp to help student develop analytical skills The Economics and Planning aspects are essential for practical estimations of Renewable energy projects</p>		PO3 and PO5
Actions taken		Course Revised/ Added
<ol style="list-style-type: none"> 1. The course titled Computational methods in Engineering Analysis introduced to strengthen the mathematical aspects of engineering analysis 2. The course Economic aspects of Energy conversion introduced to give practical knowledge on economic aspects of energy conversion. 		<p>Computational methods in Engineering Analysis (Added)</p> <p>Economic aspects of Energy conversion (Added)</p>
		BoS approved Date
		13 th April 2019


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