



# ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

(UGC AUTONOMOUS)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC)

Sangivalasa 531 162, Bheemunipatnam Mandal, Visakhapatnam Dist

## DEPARTMENT OF CHEMICAL ENGINEERING

### Action taken report on the feedback collected on curriculum for the academic year 2021-22

Stakeholder	Suggestions	Action taken
Students	<ol style="list-style-type: none"><li>1. Economics topics can be increased in CPEED course</li><li>2. Nanotechnology course can be included in curriculum</li><li>3. Softwares like ASPEN and MATLAB to be included in curriculum</li><li>4. More industrial visits and trainings need to be provided</li></ol>	<ol style="list-style-type: none"><li>1. It is placed in BoS 2023 for approval</li><li>2. It is included in curriculum as an elective</li><li>3. Python and DWSIM are included in the curriculum. ASPEN and MATLAB are being implemented as value added courses</li><li>4. Industrial trainings are included after 2nd year 2nd semester and 3rd year 2nd semester from R-20 regulations</li></ol>
Faculty	<ol style="list-style-type: none"><li>1. Faculty suggested to add fuel cell topic in CETD course</li><li>2. Insurance topic can be included in CPEED course</li><li>3. Drying and leeching equipment may be reduced in Mass Transfer - II course</li></ol>	<ol style="list-style-type: none"><li>1. It will be placed in BoS 2023 for approval</li><li>2. It will be placed in BoS 2023 for approval</li><li>3. The syllabus can be reduced and will be placed for approval in BoS 2023</li></ol>
Alumni	<ol style="list-style-type: none"><li>1. A few Alumni suggested to include simulation tools</li><li>2. A few Alumni suggested to include pharmaceutical related courses</li></ol>	<ol style="list-style-type: none"><li>1. Simulation tool DWSIM is added to curriculum from 2018-19 onwards and python course is added from 2019-20 onwards. Aspen and MATLAB are implemented as value added courses.</li></ol>

Employers	1. Softskills and communication skills need to be improved	1. Measures are taken to improve soft and communication skills for students as a part of curriculum by organizing course presentations, JAM sessions, presentations in conferences and project presentations. From 2021-22, seminar course in 2nd year 2nd semester is included in the curriculum to focus on these skill sets.
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*R. Srikanth*

Prof. R. Srikanth  
HOD  
Chemical Engineering

**HEAD,  
DEPARTMENT OF CHEMICAL  
ENGINEERING**

*R. Srikanth*

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### DEPARTMENT OF CIVIL ENGINEERING

#### Feedback on Curriculum from Students

#### Action Taken Report and Impact Analysis

Academic Year 2021-2022

S.No.	Suggestions	Analysis & Action to be taken
1	Students requested to arrange more Industrial visits and Including more Industry related softwares	Will be presented in forthcoming Board of Studies Meeting  BoS Coordinator for necessary Action.

*P. Dutt*

Signature of Faculty Coordinator

*[Signature]*

Signature of HoD

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### Department of Computer Science & Engineering Consolidated report on feedback and action taken on syllabus/curriculum for the academic year 2021-22

Stakeholder	Suggestions	Action Taken
Student	<ul style="list-style-type: none"><li>Advanced subjects along with lab is required</li><li>Recent technologies to be incorporated</li><li>Need to include C++ programming also for CSE</li><li>Few subjects are required to modify and lengthy</li><li>The Syllabus Of TOC, OS Vast. Try to reduce</li><li>Add python lab along with theory</li><li>Need more practical knowledge and workshops</li></ul>	<ul style="list-style-type: none"><li>In R20 regulation, many advanced subjects are introduced as Honors. Interested students can come up with degree with honors.</li><li>Will present in next BOS.</li><li>Conducting workshops on emerging technologies</li></ul>

*K. Anuravathi*  
Faculty -Coordinator

*Dr. P. E. S. N. Krishna Prasad*  
HoD-CSE

*R. Seikath*  
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## Department of Electronics and Communication Engineering

### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year 2021-22

Stakeholder	Suggestions	Action Taken
Students	In Digital signal processing lab, experiments using DSP processors can be done	DSP lab includes the experiments based on DSP processor kits along with image processing experiments as content beyond experiments.

  
Dr. V. Rajya Lakshmi  
Prof. & HOD, ECE

Head of the Department  
Department of E C E

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## Department of Electrical and Electronics Engineering

Consolidated report on feedback and Action taken report on Syllabus / Curriculum for the academic year of 2021-22(Online)

Stakeholder	Suggestions	Action Taken
Students	<ol style="list-style-type: none"><li>1. Suggested to include Pointing theorem and energy conservation in Electro Magnetic Course.</li><li>2. Suggested to introduce Internet of Things in curriculum</li><li>3. Suggested to introduce Optimization Techniques in curriculum</li><li>4. Suggested to include effect of pole zero placement and Detectability in Digital control system course.</li></ol>	<ul style="list-style-type: none"><li>➤ Pointing theorem and energy conservation included in Electro Magnetic Course in R-19 Regulations approved in BOS held on 19-06-2021</li><li>➤ IoT are included in R-19 Regulations approved in BOS held on 19-06-2021</li><li>➤ Optimization Techniques included in R-19 Regulations approved in BOS held on 19-06-2021</li><li>➤ Effect of pole zero placement and Detectability included in Digital control system course in R-19 Regulations approved in BOS held on 19-06-2021.</li></ul>

*Jayakumar*  
HoD of EEE

Professor & HOD of EEE,  
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### Department of Information Technology

#### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year .....2021-22.....

Stakeholder	Suggestions	Action Taken
<b>Students</b>	<ol style="list-style-type: none"><li>1. In Machine Learning, more real-time and problematic examples are required.</li><li>2. Suggested to introduce the advanced technologies in Artificial Intelligence.</li><li>3. Suggested to introduce trending topics as elective subjects.</li></ol>	<ol style="list-style-type: none"><li>1. As per the feedback, we incorporated changes in the Data Science Applications lab in R-19.</li><li>2. As suggested, organized the syllabus of Machine Learning in R-19, and R-20.</li><li>3. Changes were incorporated by reorganizing the AI syllabus in R-19, R-20.</li></ol>

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### Department of Mechanical Engineering

#### Consolidated report of student feedback on syllabus/curriculum

#### and action taken (for AY 2021-22)

The student feedback is worthy enough to consider in framing the course structure and syllabi of various courses.

- 1) **Suggestion:** Most of the students are seeking higher practical exposure.

**Action taken:** Skill development courses are introduced with emphasis on computer software's as the placement avenues for the students will enhance appreciably. **AUTO CAD and SOLID WORKS** are being used presently for the computer related courses. New software's like **Creo-Parametric** is now introduced for **CADM** course.

- 2) **Suggestion:** Introduction to Electrical vehicles as a contemporary topic.

**Action taken:** Electrical & Hybrid vehicles are introduced in Automobile Engineering course as one of the units.

- 3) **Suggestion:** To include Java programming which has become a necessity now a days for software placements.

**Action taken:** The department is conducting workshops exclusively to enhance the programming skills of the students by using the services of faculty from CSE and IT departments. These programs are further supplemented by organizing workshops, where the resource person from external agencies like Datapro, APSSDC also share their expertise.

- 4) **Suggestion:** Project labs to be improved.

**Action taken:** Additional software's and equipment's will be purchased in due course to further strengthen the project labs.

- 5) **Suggestion:** MOUs with industries to execute projects.

**Action taken:** The department is liaisoning with industries in the city for training the students, execution of projects and maintenance of lab equipment's.

- 6) **Suggestion:** Artificial Intelligence needs to be introduced in the curriculum.

**Action taken:** Artificial Intelligence is introduced as professional elective in R-20 regulations.

*D. G. Ch. Sekhar*

Faculty coordinator

*P. Sekhara*

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Head of the department

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### Department of Chemical Engineering

#### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year 2020-21

Stakeholder	Suggestions	Action Taken
<b>Students</b>	<ol style="list-style-type: none"><li>1. Students are requested for computer related courses.</li></ol>	<ol style="list-style-type: none"><li>1. Python is introduced in Computational Lab in R19 regulation.</li></ol>
<b>Faculty</b>	<ol style="list-style-type: none"><li>1. Some topics are available in more than one unit in Process dynamics and Control.</li><li>2. Few calculations and derivatives may be Engineering. in Material Science Engineering.</li><li>3. Suggested to inculcate medical applications of nanotechnology</li></ol>	<ol style="list-style-type: none"><li>1. Repeated topics are skipped and organized syllabus in R19</li><li>2. calculations and derivations are included in curriculum and omitted from assessment.</li><li>3. It is placed in R19 IV year BOS for approval</li></ol>
<b>Alumni</b>	<ol style="list-style-type: none"><li>1. Alumni requested to allow students to choose electives from other departments,</li></ol>	<ol style="list-style-type: none"><li>1. Open electives were offered in R15 an R19 curriculum</li></ol>
<b>Employers</b>	<ol style="list-style-type: none"><li>1. Industrial Safety and fire fighting techniques to be included.</li><li>2. Simulation techniques like Aspen, Pro-II, MATLAB etc.</li></ol>	<ol style="list-style-type: none"><li>1. Industrial safety course is included in 3<sup>rd</sup> year R19 syllabus.</li><li>2. DWSIM software is being used in 4-1 for simulating equipment.</li></ol>

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## DEPARTMENT OF CIVIL ENGINEERING


### Feedback on Curriculum from Students


### Action Taken Report and Impact Analysis

Academic Year 2020-2021

S.No.	Course Code & Course Title	Suggestions	Analysis & Action taken	Impact Analysis
1	Geotechnical Engineering Lab – I and II	It is suggested to merge Geotechnical Engineering – I and II labs and make it as one lab Geotechnical Engineering lab for the purpose of incorporating more recent software labs	To be presented in Board of Studies Meeting in March/April 2021. BoS Coordinator for necessary Action.	Accepted and Approved in the Board of Studies Meeting in March/April 2021
2	Surveying – I and II	It is suggested to merge Surveying– I and II and make it as one subject Surveying and Geomatics for the purpose of incorporating more recent industry related subjects and other electives	To be presented in Board of Studies Meeting in March/April 2021. BoS Coordinator for necessary Action.	Accepted and Approved in the Board of Studies Meeting in March/April 2021
3	Building Architecture with Revit	It is suggested to introduce New lab Revit Architecture in curriculum as it is most demanding software in present construction industry which will enhance the employability skills of students.	To be presented in Board of Studies Meeting in March/April 2021. BoS Coordinator for necessary Action.	Accepted and Approved in the Board of Studies Meeting in March/April 2021
4	Building planning and Drawing	It is suggested to include preparation of drawings by using AutoCAD along with the present syllabus, which will improve the skill in AutoCAD drawing furthermore the Employability skills	To be presented in Board of Studies Meeting in March/April 2021. BoS Coordinator for necessary Action.	Accepted and Approved in the Board of Studies Meeting in March/April 2021

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## Department of CSE

### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year 2020-21

Stakeholder	Suggestions	Action Taken
Students	<ol style="list-style-type: none"><li>1. Need additional coding practice for campus placement.</li><li>2. DC is difficult to follow.</li></ol>	<ol style="list-style-type: none"><li>1. Competitive Programming course is introduced in R19- III YEAR.</li><li>2. Prescribed text book and reference text book has interchanged and included IOT related concepts.</li></ol>
Faculty	<ol style="list-style-type: none"><li>1. Java: Unit-IV and Unit-V need to revise to accommodate advanced topics.</li><li>2. Java Lab: Better to add Mini application development using java in lab syllabus.</li></ol>	<ol style="list-style-type: none"><li>1. Java Unit-V was replaced with Swings and EJB</li><li>2. Case Studies are added in Java Lab Syllabus.</li></ol>
Alumni	<p>The Alumni suggest the following courses in the curriculum:</p> <ol style="list-style-type: none"><li>1. Python, Data Science, Block Chain</li><li>2. AR and VR, Hadoop</li><li>3. Cloud computing</li><li>4. Machine learning,</li><li>5. Artificial Intelligence</li></ol>	<ol style="list-style-type: none"><li>1. B-Tech CSE with AI &amp; ML program has started from this academic year in R20 regulation.</li><li>2. B-Tech CSE with Data Science program has started from this academic year in R20 regulation.</li><li>3. Cloud computing syllabus updated according to industry requirements.</li></ol>

Head of the department

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## Department of Electronics and Communication Engineering

### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year 2020-21

Stakeholder	Suggestions	Action Taken
Students	1. In course Antennas and wave propagation expressed difficulty.	1. In R19 3rd year I-Semester, in course Antennas and wave propagation contents were reduced as suggested and approved in 7 <sup>th</sup> BOS meeting held on 19.06.2021

Head of the Department

Department of ECE

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### Department of Electrical and Electronics Engineering

### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year 2020-2021

Stakeholder	Suggestions	Action Taken
Students	<ol style="list-style-type: none"><li>1) Suggested introduce magnetic levitation in curriculum.</li><li>2) Suggested to introduce fundamentals of MATLAB in 2<sup>nd</sup> year level.</li><li>3) Suggested to introduce auto cad in electrical course in curriculum.</li><li>4) Suggested to introduce parallel operation of 3-<math>\phi</math> transformers.</li></ol>	<ul style="list-style-type: none"><li>• Magnetic levitation topic is introduced in performance of linear induction motor course in R-20 Regulation approved in BoS held on 19<sup>th</sup> June 2021.</li><li>• Parallel operation of 3-<math>\phi</math> transformers topic is included in performance of DC machines and Transformers course in R-20 regulations approved in the BoS held on 19<sup>th</sup> June 2021.</li></ul>

  
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### Department of ...**Information Technology**.....


### Consolidated report on feedback and **action taken on syllabus/curriculum** for the academic year.....**2020-21**.....

Stakeholder	Suggestions	Action Taken
<b>Students</b>	<ol style="list-style-type: none"><li>1. Suggested to explore the basic concepts of microprocessors.</li><li>2. Suggest to introduce emerging subjects as mandatory courses.</li><li>3. Suggested to introduce trending topics as elective subjects.</li></ol>	<ol style="list-style-type: none"><li>1. As per the feedback, we incorporated changes in the microprocessor in R-19, and R-20.</li><li>2. As per the feedback, we incorporated emerging subjects like IoT, and AI in R-19, and R-20.</li><li>3. As per the suggestion, 5 elective streams like Networks, Data Engineering, Management, Security &amp; Embedded Systems and Software Engineering were introduced as elective courses in R-19.</li></ol>
<b>Faculty</b>	<ol style="list-style-type: none"><li>1. Introduce more case studies on ER models, conversion of ER model to Relational model, and normalizing database application in Database Management Systems Lab.</li><li>2. Incorporate usage of telephone and cable networks for data transmission in the Data Communications subject.</li><li>3. Suggested to include Multi-Threaded Programming, Free space management, Virtual machines, Thrashing and log-structured file in Operating Systems subject.</li><li>4. Suggested to include Schemas, Item set, Ensembling, Issues in Data Warehousing and Mining.</li><li>5. Suggested to restructure the syllabus for Computer Networks</li></ol>	<ol style="list-style-type: none"><li>1. After Discussion, Feedback given by the teachers was considered in Board of Studies held on 19/6/2021 and were incorporated in the syllabus of R-19, R-20.</li></ol>

		lab in R-19, R-20 (Annexure-I, Pg.No.39).
<b>Alumni</b>	1. Knowledge of dynamic coding is required from B. Tech II <sup>nd</sup> year onwards.	1. Suggestions by the alumni were considered, introduced Hacker rank and GDB compilers for Data Structures Lab in R-20.
<b>Employers</b>	<p>1. Students can create a GitHub account and have their written code there so that it would help interviewers to understand the student's interest and coding skills.</p> <p>2. Suggested to include advanced topics like R, Python in curriculum, as it is an on-demand course.</p> <p>3. New topics like AWS/AZURE needed to be incorporated in the curriculum to make the students industry ready.</p>	<p>1.1 GitHub Essentials subject was introduced as a Generalized Minor in R-20.</p> <p>1.2 GitHub Introduction was given in DevOps Lab (Elective) (Annexure-II Pg. No. 81)</p> <p>2. As suggested, we have Advanced Python, Deep Learning, Data Science, Elective Labs in our curriculum in II<sup>nd</sup> year I<sup>st</sup>, II<sup>nd</sup> semesters in R-19, R-20.</p> <p>3. Incorporated the new topic as a case study in Cloud Computing in R-19, R-20 (Annexure-I Pg. No. 20).</p>

  
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Sangivalasa-531 162  
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# Anil Neerukonda Institute of Technology & Sciences (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)

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## Department of Mechanical Engineering

### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year 2020-21

Stakeholder	Suggestions	Action Taken
Students	1. It is suggested to introduce different types of weldings as experiment in Machine Tools lab	1. Spot welding was included in the revised curriculum as per R-20 regulations.
Faculty	1. It is suggested to include Maxwell relations in Basic Thermodynamic course	1. The topic suggested by the faculty was included in R-20 regulation while framing the syllabus of Basic Thermodynamic course.
Alumni	1) The alumni suggest to introduce Design Thinking as a course in view of the present trend which could be of use for establishing startups.	1. Design Thinking has been included as a regular course from R-19 regulation. This will helpful for create an innovative mindset and inculcate a habit of thinking to develop engineering models.

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PROFESSOR & HEAD  
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### Department of Chemical Engineering

#### Action taken report on Students feedback on syllabus/curriculum (2019-20)

Suggestions	Action Taken
1. More Industrial trainings to be done	1. Industrial training from second year is introduced in R-20 regulations and is approved in the BoS meeting held on 6 <sup>th</sup> July 2020.
2. Adding a computer language course can help in cracking software jobs	2. Computational lab using Python is introduced in R-19 regulations and is approved in BoS meeting on 10 <sup>th</sup> December 2020.

R. Seikarthi

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A. Anil

Head of the department

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DEPARTMENT OF CHEMICAL  
ENGINEERING




## Feedback on Curriculum from Students


### Action Taken Report and Impact Analysis

Academic Year 2019-2020

S.No.	Course Code & Course Title	Suggestions	Analysis & Action taken	Impact Analysis
1	CIV225 Structural Analysis – I	It is suggested to add Fixed beams in SA-I and move Moving loads to the Second semester for better understanding.	Considered to be presented in Board of Studies Meeting in March/April 2020.BoS Coordinator for necessary Action.	It has been resolved to include recommended topics and carry-out necessary reshuffling. Accepted and Approved in the Board of Studies Meeting in March/April 2020
2	CIV224 Surveying – II	It is suggested to add-Drone surveying topic in Modern Surveying Unit, as it is advanced surveying equipment used in industry now a days	Ok, will be put in Board of Studies Meeting in March/April 2020.BoS Coordinator for necessary Action.	It has been resolved to include recommended topics in line with the current and emerging trends. Accepted and Approved in the Board of Studies Meeting in March/April 2020
3	CIV213 Engineering Geology	Redundant topics like origin of earth, hypothesis theories on earth can be removed	Considered to be presented in Board of Studies Meeting in March/April 2020.BoS Coordinator for necessary Action.	It has been resolved to exclude recommended topics. Accepted and Approved in the Board of Studies Meeting in March/April 2020
4	CIV226 Building Planning & Drawing	Drawing exercises on RCC buildings may be introduced	Considered to be presented in Board of Studies Meeting in March/April 2020.BoS Coordinator for necessary Action.	It has been resolved to include recommended topics in line with the industry requirements. Accepted and Approved in the Board of Studies Meeting in March/April 2020

  
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**Dr. B. N. D. Narasing**  
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### Department of CSE

#### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year 2019-20

Stakeholder	Suggestions	Action Taken
<b>Students</b>	<ol style="list-style-type: none"> <li>1. Need Python programming.</li> <li>2. It will be helpful if C-Lab has theory.</li> </ol>	<ol style="list-style-type: none"> <li>1. Python Programming is introduced as open elective in R19 3<sup>rd</sup> year and is approved in the BOS meeting held on 30-3-2019.</li> <li>2. Problem Solving with –C theory course is introduced in R19 I-year and is approved in the BOS meeting held on 30-3-2019.</li> </ol>
<b>Faculty</b>	<ol style="list-style-type: none"> <li>1. C Lab: Only Lab is not enough for better understanding should include theory.</li> <li>2. Java Lab: Better to add Mini application development using java in lab syllabus.</li> </ol>	<ol style="list-style-type: none"> <li>1. Problem Solving with –C theory course is introduced in R19 I-year and is approved in the BOS meeting held on 30-3-2019.</li> <li>2. Java Lab: Designing of mini application using java is added in the Java Lab syllabus in R19 – II year and approved in the BOS meeting held on 23-5-2020.</li> </ol>
<b>Alumni</b>	<p>The Alumni suggest the following courses in the curriculum:</p> <ol style="list-style-type: none"> <li>1. Python, Data Science, Block Chain</li> <li>2. AR and VR, Hadoop</li> <li>3. Cloud computing</li> <li>4. Machine learning, AI</li> <li>5. ADS</li> <li>6. Python</li> <li>7. Soft-skills</li> <li>8. Project implementations</li> <li>9. JSP, PHP, Oracle</li> </ol>	<ol style="list-style-type: none"> <li>1. AI &amp; ML is offered as a new program with CSE</li> <li>2. Data-Science is offered as a new program with CSE</li> <li>3. Cloud computing and ML are offered as Professional Electives R15 4<sup>th</sup> year and approved in the BOS meeting held on 28-4-2018.</li> <li>4. JSP, PHP are in OST LAB This Lab is introduced in R15 3<sup>rd</sup> year and approved in the BOS meeting held on 25-3-2017.</li> </ol>

<p><b>Employers</b></p>	<ol style="list-style-type: none"> <li>1. The recruiters were positive about the student's ability to learn new things.</li> <li>2. Students need to be aware on the current trends.</li> </ol>	<ol style="list-style-type: none"> <li>1. Introducing Python Programming as open elective to CSE &amp; other departments also in R19 – III year and is approved in the BOS meeting held on 30-3-2019.</li> <li>2. Encouraging the students to complete MOOC courses on new trends.</li> </ol>
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## Department of Electronics and Communication Engineering

### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year 2019-20

Stakeholder	Suggestions	Action Taken
Students	1.Expressed difficulty in course Antennas and Wave propagation in acquiring skills and knowledge in analysis and development of practical antennas in learning measurements for obtaining various antenna parameters	1.In R19 3rd year I-Semester, in course Antennas and wave propagation contents in UNIT-III, UNIT-IV and UNIT-V were reduced as suggested and approved in 7 <sup>th</sup> BOS meeting held on 19.06.2021

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### Department of Electrical and Electronics Engineering


#### Consolidated report on Student feedback on Curriculum and action taken on Report for the academic year 2019-2020

Stakeholder	Suggestions	Action Taken
Students	<ol style="list-style-type: none"><li>1) Suggested introduce advanced power electronic drives in curriculum.</li><li>2) Suggested to introduce electronic measurements in Electrical measurements course syllabus.</li><li>3) Suggested to introduce auto cad in electrical course in curriculum.</li><li>4) Suggested to introduce ear thing methods in power system protection course.</li></ol>	<ul style="list-style-type: none"><li>• Power electronic drives course is included in R-15 regulations approved in the BoS held on 28<sup>th</sup> April 2018.</li><li>• Electronic measurements topic is included in Electrical measurements course in R-19 regulations approved in the BoS held on 30<sup>th</sup> March 2019.</li></ul>

  
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### Department of ...Information Technology.....

### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year.....2019-20.....

Stakeholder	Suggestions	Action Taken
Students	<ol style="list-style-type: none"> <li>1. Suggested to introduce emerging subjects as mandatory courses.</li> </ol>	<ol style="list-style-type: none"> <li>1. As per the feedback, we incorporated emerging subjects like IoT, Data Analytics in R-19, R-20.</li> </ol>
Faculty	<ol style="list-style-type: none"> <li>1. Reinforcement Techniques to be included in the Artificial Intelligence Syllabus.</li> <li>2. Advanced topics like Iterators, Generators, Decorators, Regular Expressions to be included in Python Programming.</li> <li>3. Installation of popular tools can be introduced in Analytics Lab.</li> <li>4. Suggested to reduce the syllabus of Object-Oriented Analysis and Design.</li> <li>5. Suggested to include a mini project for CASE Tools Lab.</li> <li>6. Recommended to remove Computational Learning Theory in UNIT-IV and incorporate Neural Network Concepts in Artificial Intelligence subject.</li> </ol>	<ol style="list-style-type: none"> <li>1. After Discussion, Feedback given by the teachers was considered in Board of Studies held on 27/5/2020 and were incorporated in the coarse draft syllabus of R-19, R-20.</li> </ol>
Alumni	<ol style="list-style-type: none"> <li>1. Knowledge of Soft, Quantitative &amp; Verbal Analysis is required for getting placements.</li> </ol>	<ol style="list-style-type: none"> <li>1. Suggestions by the alumni were considered, introduced Soft Skills &amp; QA-2 in R-20.</li> </ol>
Employers	<ol style="list-style-type: none"> <li>1. Suggested to have Good Knowledge on AWS/AZURE cloud services</li> <li>2. Suggested to have Basic idea on Visualization tool.</li> <li>3. Suggested to have knowledge in Visualization tools like Power BI/Tableau.</li> <li>4. Students can create a GitHub account and have their written code there so that it would help interviewers to understand the student's interest and coding skills.</li> </ol>	<ol style="list-style-type: none"> <li>1. As suggested, we incorporated cloud computing in IV<sup>th</sup> year 1<sup>st</sup> Semester as a professional elective in R-19.</li> <li>2. As per the recommendation, basic idea of Visualization topic was included in Data Analytics (GNU Tool) subject for IV<sup>th</sup> year 1<sup>st</sup> Semester in R-15, R-19.</li> <li>3. GitHub Essentials subject was introduced as a Generalized</li> </ol>



	<ol style="list-style-type: none"> <li>4. Students can create a GitHub account and have their written code there so that it would help interviewers to understand the student's interest and coding skills.</li> <li>5. Recommended to focus on application of each subject.</li> <li>6. Students need to have applicative based learning. They need to be ready for future digital skills.</li> <li>7. Suggested to include Python in curriculum, as it is the on-demand coding language</li> <li>8. Suggested to encourage students to participate in online coding competitions conducted by HackerRank to help boost their confidence in coding and add more credibility.</li> </ol>	<p>Analytics (GNU Tool) subject for IV<sup>th</sup> year I<sup>st</sup> Semester in R-15, R-19.</p> <ol style="list-style-type: none"> <li>3. GitHub Essentials subject was introduced as a Generalized Minor in R-20.</li> <li>4. Data Structures subject was designed as application oriented in II<sup>nd</sup> year I<sup>st</sup> Semester Subject in R-19, R-20.</li> <li>5. As suggested, we have Python in our curriculum in II<sup>nd</sup> year I<sup>st</sup>, II<sup>nd</sup> semesters in R-15, R-19, R-20.</li> <li>6. Data Structures Lab experiments were practiced on GDB Compiler, HackerRank platforms in R-19, R-20.</li> </ol>
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## Department of Mechanical Engineering


### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year 2019-20

Stakeholder	Suggestions	Action Taken
Students	1. Gerber's theory need to be added in <b>Design of Machine elements –I</b>	1. Gerber's theory topic will be added in Design of Machine elements –I in 3 <sup>rd</sup> year 1 <sup>st</sup> semester R-19 regulations. This will be put up for approval of BOS.
Faculty	1. A topic on Al-Cu, Cu-Zn phase diagrams to be added in <b>Material Science and Metallurgy</b>	1. The suggestions given by faculty are duly considered. Al-Cu, Cu-Zn phase diagrams are added in 2 <sup>nd</sup> year 1 <sup>st</sup> semester R-19 regulations. This is approved in the BOS held on 23/05/2020 in online mode.
Alumni	1. Suggested to add Line standards & End standards in Metal cutting & Machine tools and Metrology course.	1. Considered to be presented in Academic Planning and Monitoring cell Meeting in September 2019. APMC Coordinator for necessary Action.
Employer	Name and designation of resource person: Sridhar J, project manager Infosys. The employer has given constructive suggestions to enhance the skills of the students through the following <ul style="list-style-type: none"><li>➤ Introduce Business Communication both writing and speaking skills</li><li>➤ To include subjects/topics for related Mechanical softwares.</li></ul>	The department will incorporate the given suggestions to enhance the quality of technology of Teaching Learning process. It has planned to introduce skill development courses which will give a hands on experience to the students using Mechanical softwares like Autocad, Solidworks and ANSYS comprehensively. The courses to be added in R-20 regulations are Engineering Graphics, Advanced Engineering Graphics and Computer aided Modelling. These subjects will be

		<p>taught with the aid of computer.          Further it has planned to introduce Python program/Data structures as open electives offered by CSE department.</p>
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### Department of Chemical Engineering

#### Action taken report on students feedback on syllabus/curriculum (2018-19)

Suggestions	Action Taken
1. Add Industrial training from 2 <sup>nd</sup> year onwards	1. Industrial training from second year is introduced in R-20 regulations approved in the BoS meeting held on 10 <sup>th</sup> December 2020.
2. Add Pharmaceutical Engineering subject if possible	2. Pharmaceutical Technology course is already included as an elective course in III year I-semester in R-15 regulations and is approved in BoS held on 25 <sup>th</sup> March 2017.

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### Department of Civil Engineering

### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year 2018-2019

Stakeholder	Suggestions	Action Taken
Students	It is suggested to teach Engineering Mechanics in the 1st year, as some of the topics in Strength of Materials require basics of Engineering Mechanics	Accepted and Approved in the Board of Studies Meeting in March/April 2019.
Faculty	It is suggested to merge Civil Engineering Materials and Building Technology as single subject to be taught in 1 <sup>st</sup> year. Syllabus has to be prepared considering Competitive exams and present Trends in construction industry.	The subject "Building Technology" is framed as per the suggestions and placed in I year I Sem. The above said subject is Accepted and Approved in the Board of Studies Meeting in March/April 2019
Alumni	It is suggested to interduce a new course on Concrete Technology	It was already introduced in R15 syllabus in II-year II semester.
Employers	Improve coding skill to students	It has been resolved to teach Python Programming (Open Elective) in III year I semester.

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ME PhD FIE FIGS

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### Department of CSE

#### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year 2018-19

Stakeholder	Suggestions	Action Taken
<b>Students</b>	<ol style="list-style-type: none"><li>1. CN: Need Security related advanced topics.</li><li>2. DBMS: Include non relational database with more examples.</li></ol>	<ol style="list-style-type: none"><li>1. CS: Cyber Security is offered as professional electives in R15 4<sup>th</sup> year and approved in the BOS meeting held on 28-4-2018.</li><li>2. NOSQL Databases – offered as Professional Elective in R15 4<sup>th</sup> year and approved in the BOS meeting held on 28-4-2018</li></ol>
<b>Faculty</b>	<ol style="list-style-type: none"><li>1. DWDM: Current industry demands ML related course, to meet industrial needs better to introduce Machine Learning as a course. So the Students can get more placements.</li><li>2. AI: It is better to add new courses like Machine Learning, Neural Networks and Deep Learning to meet the current technologies.</li></ol>	<ol style="list-style-type: none"><li>1. Machine Learning, Cloud Computing and Mobile Computing are introduced as professional electives in R15 4<sup>th</sup> year and approved in the BOS meeting held on 28-4-2018.</li><li>2. NNDDP: Neural Networks &amp; Deep Learning offered as professional electives in R15 4<sup>th</sup> year and approved in the BOS meeting held on 28-4-2018.</li></ol>
<b>Alumni</b>	<p>The Alumni suggest the following courses in the curriculum:</p> <ol style="list-style-type: none"><li>1. Data base administration</li><li>2. NOSQL Database</li><li>3. HTML,CSS,SQL</li></ol>	<ol style="list-style-type: none"><li>1. DBMS LAB - application based experiments are added to the lab syllabus. This Lab is introduced in R15 3<sup>rd</sup> year and approved in the BOS meeting held on 25-3-2017.</li><li>2. NOSQL Databases – offered as Professional elective in R15 4<sup>th</sup> year and approved in the BOS meeting held on 28-4-2018.</li><li>3. HTML, CSS – are included in OST LAB. This Lab is introduced in R15 3<sup>rd</sup> year and</li></ol>

		approved in the BOS meeting held on 25-3-2017.
<b>Employers</b>	<ol style="list-style-type: none"> <li>1. Recruiters from education stated that the students are strong in their domain knowledge, however communication skills need improvement.</li> <li>2. Courses related to R, Python can be introduces.</li> </ol>	<ol style="list-style-type: none"> <li>1. Soft skills lab is introduced in R15 3<sup>rd</sup> year and approved in the BOS meeting held on 25-3-2017.</li> <li>2. Python Programming is offering as open elective to other departments in R15 – III year and is approved in BOS meeting held on 30-3-2019.</li> </ol>



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### Department of Electronics and Communication Engineering

### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year 2018-19

Stakeholder	Suggestions	Action Taken
Students	1. It is expressed that course "Electrical Machines" is not helpful to students either in getting employed or in facing competitive exams.	In R19 2 <sup>nd</sup> year I-Semester, course "Electrical Machines" is removed as suggested and approved in 6 <sup>th</sup> BOS meeting held on 27.05.2020

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Department of ECE

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### Department of Electrical and Electronics Engineering

#### Consolidated report on Student feedback on Curriculum and action taken on Report for the academic year 2018-2019

Stakeholder	Suggestions	Action Taken
Students	<ol style="list-style-type: none"><li>1. Suggested to include 8255 interfacing unit in MPMC course.</li><li>2. Suggested to include experiment on power factor meters in Electrical Measurement lab.</li><li>3. Suggested to exclude magnetic measurements from Electrical Measurement Syllabus.</li><li>4. Suggested to introduce programming language like Python into 3<sup>rd</sup> Year Course.</li></ol>	<ul style="list-style-type: none"><li>• Python coding language is included in R-19 regulations as an open elective-1 approved in the BoS held on 30<sup>th</sup> March 2019</li></ul>

  
Head of the department

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ELECTRICAL & ELECTRONICS ENGS.  
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## Department of ...Information Technology.....

### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year...2018-19.....

Stakeholder	Suggestions	Action Taken
Students	1. Suggested to introduce trending topics as elective subjects.	1. As per the suggestion, 5 elective streams like Networks, Data Engineering, Management, Security & Embedded Systems and Software Engineering were introduced as elective courses in R-19.
Faculty	1. Online Compilers are recommended for Data Structures Lab to get the exposure on Coding Contests. 2. Suggested to add Wrapper Classes & Accessing Methods in Object Oriented Programming Though Java.	1. After Discussion, Feedback given by the teachers was considered and were incorporated in the syllabus of R-19 in Board of Studies held on 30/3/2019.
Alumni	1. Implementation of projects from Third year onwards will be helpful to get into industry. 2. Recommended to incorporate GitHub Fundamentals, DevOps and Cloud Computing.	1. As suggested, industry internship is divided in to two phases in R-19. 2. Suggestions by the alumni were considered by including cloud computing as a professional elective in R-19.
Employers	1. Suggested to keep C++, Java courses (or latest trend courses) as mandatory in the first two years of curriculum of Engineering.	1. As suggested, we already have C++ in II <sup>nd</sup> year 1 <sup>st</sup> semester in R-15, Object Oriented Programming using JAVA in II <sup>nd</sup> year II <sup>nd</sup> semester in R-19.

Head of the department

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## Department of Mechanical Engineering

### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year 2018-19

Stakeholder	Suggestions	Action Taken
<b>Students</b>	1. Disc brake concept need to be added in <b>Design of Machine elements -II</b>	1. The concept of Disc brake will be implemented in the Design of Machine elements -II course in 3 <sup>rd</sup> year 2 <sup>nd</sup> semester R-19 regulations.
<b>Faculty</b>	1. Title to be modified based on syllabus in Engineering Thermodynamics-1	1. By observing the syllabus unit wise the name of the subject changed from Engineering Thermodynamics-1 to Basic Thermodynamics in 2 <sup>nd</sup> year 1 <sup>st</sup> semester R-19 regulations.
<b>Alumni</b>	1. As Present jobs are more inclined towards software, new courses related to programming can be implemented in the curriculum.	1. Considered to be presented in Academic Planning and Monitoring cell Meeting in October 2018. APMC Coordinator for necessary Action.
<b>Employer</b>	<p>Name and designation of resource person: Hanuma Prasad Narahari senior project manager Infosys limited. The employer has suggested to look into the feasibility of includes the following subjects</p> <ul style="list-style-type: none"> <li>➤ Nano technology</li> <li>➤ Smart Manufacturing</li> <li>➤ Agricultural Engineering</li> <li>➤ Alternative/Renewable and sustainable energy engineering</li> </ul> <p>Further the employer suggested introducing cross discipline elective courses and also including c++, Java or</p>	<p>Considering the invaluable suggestions, the department in a right earnest wise develop the R-19 curriculum. The department will introduce the following courses as professional electives</p> <ul style="list-style-type: none"> <li>➤ Additive Manufacturing</li> <li>➤ Automation in Manufacturing</li> </ul> <p>These two courses are in line with the subject of Smart Manufacturing. Further a professional elective course on Nanotechnology is also be incorporated in the curriculum to be developed.</p>

	any other latest computer language in the engineering curriculum.	
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Head of the department

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### Department of Chemical Engineering

#### Action taken report on student feedback on syllabus/curriculum (2017-18)

Suggestions	Action Taken
1. Mechanical Engineering syllabus is less	1. Mechanical Engineering syllabus is increased to the needs of chemical engineering in R-19 regulations and is approved in the BoS meeting held on 30 <sup>th</sup> March 2019.

Head of the department

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## Feedback on Curriculum from Students Action Taken Report and Impact Analysis

Academic Year 2017-2018

S.No.	Course Code & Course Title	Suggestions	Action Taken	Impact Analysis
1	CE312 Steel Structures – I	It is suggested to exclude roof trusses topic, as this topic is studied separately in tension and compression members.	Considered to be presented in BOS of March/April 2018. BOS co-ordinator to take necessary action	It has been resolved to exclude recommended topics. Accepted and Approved in the Board of Studies Meeting in March/April 2018
2	CE416 Computer applications in Civil Engineering	A lab on Staad Pro Software & Auto Cad is created, which is a modern tool in civil engineering industry should be framed.	Considered to be presented in Board of Studies Meeting in March/April 2018	It has been resolved to establish an additional lab CACE-II to accommodate additional softwares in line with the current and emerging trends in the industry. Accepted and Approved in the Board of Studies Meeting in March/April 2018
3	CE421 Transportation Engineering II	It is recommended to include topics like coning of wheels, gauges etc. Also, it may be considered for offering the course in earlier semesters so as to ease IV-II Semester	Considered to be presented in Board of Studies Meeting in March/April 2018	It has been resolved to include recommended topics and consider for shifting the course to earlier semester IV-I. Accepted and Approved in the Board of Studies Meeting in March/April 2018
4	CE422 Water Resources Engineering II	Few design procedures can be excluded as they are not being used now a days. This course can be offered in earlier semesters to free the load on us in IV-II Semester.	Considered to be presented in Board of Studies Meeting in March/April 2018. BoS Coordinator for necessary Action.	It has been resolved to exclude recommended topics and consider for shifting the course to earlier semester IV-I. Accepted and Approved in the Board of Studies Meeting in March/April 2018
5	CE425 Project Work	it is suggested to Split the project work in two courses. A new Course Project work-I will be added in 4th year I semester	Considered to be presented in Board of Studies Meeting in March/April 2018	It has been accepted and approved in the Board of Studies Meeting in March/April 2018.

  
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Dr. B.N.D. Narasing Rao  
  
 Professor & Head  
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### Department of CSE

#### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year 2017-18

Stakeholder	Suggestions	Action Taken
Students	<ol style="list-style-type: none"><li>1. CA: Include case study</li><li>2. IP: Need practical examples.</li><li>3. CNS: Required case studies.</li></ol>	<ol style="list-style-type: none"><li>1. CA: Intel core i7, IBM 360, ARM Cortex A-8 case studies are added at end of each unit, it is introduced in R15 3<sup>rd</sup> year and approved in the BOS meeting held on 25-3-2017.</li><li>2. IP is revised as DIP and offered as elective in R15 3<sup>rd</sup> year and approved in the BOS meeting held on 25-3-2017.</li><li>3. CNS: Case Studies are added and is this course introduced in R15 4<sup>th</sup> year and approved in the BOS meeting held on 28-4-2018.</li></ol>
Faculty	<ol style="list-style-type: none"><li>1. DCNP- The concepts of hyper terminal, dial-up networking should be replaced with new concepts of networking tools as this curriculum doesn't include latest topics</li><li>2. CN: The course <b>Mobile Computing</b> is recommended for students to increase their employability skills. Due to high market demand in this area, this course is advisable to introduced.</li></ol>	<ol style="list-style-type: none"><li>1. DCNP LAB: Removed old technology DC programs and added simulator based NP programs to the CNLA. This Lab is introduced in R15 3<sup>rd</sup> year and approved in the BOS meeting held on 25-3-2017.</li><li>2. Mobile Computing course is introduced in R15 4<sup>th</sup> year and approved in the BOS meeting held on 28-4-2018.</li></ol>

<p><b>Alumni</b></p>	<p>The Alumni suggest the following courses in the curriculum:</p> <ol style="list-style-type: none"> <li>1. J2EE, Raptor, Machine Learning</li> <li>2. Advanced Programming Language</li> <li>3. Advanced explorations of subjects</li> </ol>	<ol style="list-style-type: none"> <li>1. Machine Learning introduces as professional elective in R15 4<sup>th</sup> year and approved in the BOS meeting held on 28-4-2018.</li> <li>2. Suggesting the students to enroll for Python MOOC course.</li> <li>3. Advanced Data Structures introduced in R15 3<sup>rd</sup> year and approved in the BOS meeting held on 25-3-2017</li> </ol>
<p><b>Employers</b></p>	<ol style="list-style-type: none"> <li>1. Employers highlighted the importance to improve upon the domain knowledge to meet the emerging societal needs.</li> </ol>	<ol style="list-style-type: none"> <li>1. Digital Image processing is considered to offer as a professional electives in R15 3<sup>rd</sup> year and approved in the BOS meeting held on 25-3-2017</li> <li>2. New Courses like Big-Data Analytics, Soft Computing and Cryptography &amp; Network Security introduced in R15 4<sup>th</sup> year and approved in the BOS meeting held on 28-4-2018.</li> </ol>



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## Department of Electronics and Communication Engineering Consolidated report on feedback and action taken on syllabus/curriculum for the academic year 2017-18

Stakeholder	Suggestions	Action Taken
<b>Students</b>	1.It is expressed that in course BEE syllabus us lengthy. 2.It is expressed that topics Op-amps in UNIT-V is difficult to understand.	In R19 1 <sup>st</sup> year I-Semester, course BEE is revised and the topics Op-amps were removed and the topics like Semiconductor diodes, Rectifier circuits, BJTs, JFETS, Special semiconductor devices were included as suggested and approved in 5 <sup>th</sup> BOS meeting held on 30.03.2019

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### Department of Electrical and Electronics Engineering


#### Consolidated report on Student feedback on Curriculum and action taken on Report academic year 2017-2018

Stakeholder	Suggestions	Action Taken
Students	<ol style="list-style-type: none"><li>1) Suggested to include power semiconductor drives in EDT course.</li><li>2) Suggested to include digital microprocessor based relays in PSP course.</li><li>3) Suggested to exclude electric welding and rating topics from EDT course.</li><li>4) Suggested to include microprocessor programming in MPMC course.</li></ol>	<ul style="list-style-type: none"><li>• Power semiconductor drives course is included in R-15 regulations approved in the BoS held on 28<sup>th</sup> April 2018.</li><li>• Electric welding and rating topics are excluded in Electrical drives and traction course in R-15 regulations approved in the BoS held on 28<sup>th</sup> April 2018.</li></ul>

  
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## Department of .....Information Technology.....

### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year...2017-18.....

Stakeholder	Suggestions	Action Taken
Students	<ol style="list-style-type: none"> <li>Suggested to introduce Testing topic in UML</li> <li>Suggested to replace Technology management, Intellectual Property Rights subjects with any other trending subject.</li> <li>Suggested to combine Digital Electronics and Computer Organization experiments</li> </ol>	<ol style="list-style-type: none"> <li>Changes were made in the suggested subject for R-19.</li> <li>Analysis was done and the necessity of changes were forwarded for discussion in Board of Studies held on 25/3/2017, and were incorporated in the course structure of R-19.</li> <li>As suggested, both DLD and CO were combined and incorporated in R-19.</li> </ol>
Faculty	<ol style="list-style-type: none"> <li>Suggested to add Php and advanced concepts in Web Technology subject. Try to revise the concepts like Memory management which is common for both Operating Systems, Computer Organization subjects.</li> <li>Suggested to integrate Formal Languages and automata Theory and Compiler Design subjects so that scope can be given for inclusion of latest subjects.</li> </ol>	<ol style="list-style-type: none"> <li>After Discussion, Feedback given by the teachers was considered and reflected in corresponding subjects for R-19.</li> <li>As suggested, integrated both subjects in R-19.</li> </ol>
Alumni	<ol style="list-style-type: none"> <li>Industry requires practical exposure, so make an effort to incorporate more labs.</li> </ol>	<ol style="list-style-type: none"> <li>Suggestions by the alumni were finalized in Board of Studies held on 25/3/2017 and incorporated elective labs like ETL, DevOps and Advanced Java in R-19.</li> </ol>
Employers		

R. Seetha

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## Department of Mechanical Engineering

### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year 2017-18


Stakeholder	Suggestions	Action Taken
<b>Students</b>	1. It is suggested to rename the Theory of Machines-II as <b>Dynamics of Machinery</b>	1. The suggestion is good enough and will be implemented in the R-19 regulations.
<b>Faculty</b>	1. Gas power Cycles and their analysis has to be included in <b>Engineering Thermodynamics-III</b> 2. Belt drives topic has to be added in <b>Design of Machine elements -II</b>	1. The suggestion is well received by including the Gas power Cycles and their analysis in 3 <sup>rd</sup> year 2 <sup>nd</sup> semester R-15 regulations. This is approved in the BOS held on 25/03/2017. 2. The syllabus is modified by including Belt drives topic in 3 <sup>rd</sup> year 2 <sup>nd</sup> semester R-15 regulations. This is approved in the BOS held on 25/03/2017.
<b>Alumni</b>	1. Fluid Mechanics syllabus is vast and requires a review to reduce the contents if possible. 2. software's like CREO has to be introduced in the curriculum.	1. The syllabus of Fluid mechanics was reviewed in Academic Planning and Monitoring cell Meeting in October 2017 and it was decided to merge Fluid Mechanics & Hydraulic Machinery while designing the course structure of upcoming regulations. 2. The suggestion to introduce CREO software as a part of CAD subject was discussed in Academic Planning and Monitoring cell Meeting in October 2017. It was felt that since CAD subject has all the contents required it will not be possible to include this. However it was suggested that training on CREO software can be done through workshops taking the assistance of agencies like APSSDC.



<p><b>Employer</b></p>	<p>Name and designation of resource person: Devendra Vara Prasad Sesetti, Assistant Manager, Hyundai Motors. The employer has suggested to incorporate Finite Element Analysis, Robotics, Automation in Manufacturing and Electronics related courses in curriculum.</p>	<p>Based on the valuable feedback given by the employer it is decided in the department meeting that the following subjects will be included as professional elective/open electives</p> <ul style="list-style-type: none"> <li>➤ Automation in Manufacturing</li> <li>➤ Robotics</li> <li>➤ Python/Java programming</li> </ul> <p>It is also decided to include a basic subject on Electronics in the first year itself in R-19 regulation. The fundamentals learned through this course will be useful in learning advanced subjects like Automation in Manufacturing, Robotics and Mechatronics.</p>
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**PROFESSOR & HEAD**  
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