

**Report on Workshop on Syllabus revision Held on**  
**11.10.2020**

<b>Date of Event</b>	<b>11.10.2020</b>
<b>Name and Type of Event</b>	<b>Workshop on Syllabus revision</b>
<b>Conducted by</b>	Mr. Akash Bhagat, Mr. Nivedan Mahato
<b>No. Of Participant</b>	85

The Board of Studies, School of Engineering & Information Technology, is planning to upgrade the syllabus of the existing courses based on the demand of advanced technologies to provide the latest knowledge to our students. There was need to identify any curriculum gap which can be implemented in the proposed syllabus. For the same, a meeting was organized by the Board of Studies, School of Engineering & Information Technology to receive feedback from different stakeholders in a structured feedback form using Google Sheet. Under this 4 questions were asked from each stakeholder.

1. Overall opinion about content of syllabus
2. Addition of new contents in existing syllabus
3. Deletion of sub portion from existing syllabus
4. Overall comment on the existing / proposed syllabus.

The Board of Studies, School of Engineering & Information Technology had also organized One day Workshop on Syllabus Revision through Google Meet so that each stakeholder can put on his inputs regarding the syllabus up gradation.

The report of analysis of feedback received from different stakeholder is given below.

**1. No. of feedback form collected from diff. stakeholders**

<b>Stakeholders</b>	<b>No. of feedback forms</b>
Students	38
Teacher	30
Alumni	10
Parents	15
Industrialists	8

**1. Suggestions/Feedback Report**

Stakeholders	Question	Suggestions/Feedback
<b>Students</b>	Overall opinion about content of syllabus	<p>Need to add some practical or project on IOT otherwise all is good</p> <p>It is good but need some improvement.</p> <p>The syllabus must include variation according to the new education policy.</p> <p>Current syllabus has no bad content in it but can be improved</p> <p>The opinion about content of syllabus was comfortable for us</p> <p>All content are good and appreciable</p> <p>The opinion about content of syllabus was comfortable for us.</p> <p>Everything is good in theory but need to more practical session for enhance our knowledge.</p> <p>Theory session is good in our syllabus, need to add more practical session.</p> <p>The overall content and the meeting were good there should be changes in the syllabus according to the time.</p>
	<b>Addition of New Contents in existing syllabus.</b>	<p>Students suggested to include Competitive Data Structure / algorithm, Android App development, Placement Cracking tips, aptitude and reasoning.</p> <p>Introduce Control Systems in B.Tech EEE syllabus in 5th sem by replacing it with EMD (Electrical machine design).</p> <p>Preparation for GATE examinations 2020 onwards</p> <p>More Practical knowledge on Machining.</p>
	<b>Deletion of sub portion from existing syllabus.</b>	<p>In BCA 3rd Semester we have both java and python programming so here I think we should keep only one programming language so that the students can understand one of the programming language properly and we can keep java in 3rd sem and python programming in the 4th sem.</p> <p>In BCA- In my opinion Enterprise Java as a subject at BCA level is a bit advance. Instead of this focusing on OOPS and its application in Java along with a basic idea of packages, collection, inner classes would be much better.</p>

		<p>In MCA- I would humbly suggest a more complete approach with one Programming language rather than introducing different ones with not so in depth learning.</p> <p>C and C++ can ne merge</p> <p>Deletion of unnecessary theoretical subjects and focusing on the practical experience.</p> <p>There is no need to remove anything in the syllabus.</p> <p>There's not an exact need if deletion of any part</p> <p>In my opinion remove Applied Math I think this subject will not need for us.</p> <p>Deleting is not as important but having everything is very much good so if that thing is important that the student should know that it should remain in the portion.</p>
	<p><b>Overall feedback on the current/proposed syllabus.</b></p>	<p>Current Syllabus is going great but as per the current situation (pandemic) university needs to make the final year or upcoming semester the core semester so that students should be back on track and gather more and more advanced skills and project knowledge for future.</p> <p>Overall the syllabus is very nicely designed.</p> <p>My overall feedback on the current syllabus is that it is one of the most innovative syllabi a student can have but this requires a bit more practical approach. A balance between theory and practical would be better.</p> <p>Also, I don't know if it's possible but keeping fixed core subjects and providing different electives as an option to students would provide a better learning.</p> <p>For example- Four core subjects per semester and a list of five electives from which they can choose any one/two. This will allow them to learn according to their interest as well as maintaining the core curriculum of that Branch.</p> <p>Good</p> <p>Better</p> <p>Overall syllabus is good for the students</p> <p>Great initiative by the University</p> <p>The syllabus is very good and easy to study.</p>

		<p>Good</p> <p>Outstanding.</p> <p>The syllabus has all the basic requirements, it's not bad according to the placement point of view</p> <p>Very good</p> <p>Good</p> <p>Good</p> <p>9/10</p> <p>All good</p> <p>Everything is good</p> <p>Overall everything is excellent.</p> <p>Everything is good Please need to add Practical session.</p> <p>Good</p> <p>Outstanding</p> <p>Nice</p> <p>Good</p> <p>No</p> <p>Good</p> <p>Good</p> <p>Good</p> <p>EXCELLENT WEBINAR</p> <p>Very good</p> <p>Great updation</p> <p>Overall the meeting was very nice and I am very excited that the teachers came up with the idea of changing of the syllabus for children so that all children can get best knowledge and be self sufficient.</p> <p>Nice it's effective</p> <p>Good.</p> <p>Good</p>
Alumni	Overall opinion about content of syllabus	<p>Overall the content of the syllabus is very good and will provide the knowledge of new technologies to the students as well.</p> <p>The Syllabus is very well designed in my opinion, thinking of the current market demands as well as gaining a</p>

		<p>complete knowledge perspective. I feel the contents of the syllabus are on par with the major university standards. My overall opinion about the content is very much positive although I have a few suggestions related to this.</p> <p>The contents of the syllabus are good and it covers most of the new technologies that are used in IT industries although there is some scope of improvements.</p>
	<p>Addition of New Contents in existing syllabus.</p>	<p>Angular JS,full stack development Chapter - Data science's 1-Mongo DB</p> <p>Chapter - Data Analysis 1- Advance Excel 2- Excel with Data Analyis 3-Advance excel with Power BI 4-Advance excel with SQL And MY SQL Server 5-Excel with data Array 6- Data Analysis with tableau tool.</p> <p>If possible add one more topic in Syllabus in which students can learn develop there skills in Graphics designing</p> <p>Chapter - Graphics designing Photoshop Sony vegas</p> <p>1) Android Application Development practical must include more advanced and realistic projects. Other than Java (Native) other hybrid technologies must also be explored (e.g Framework7, Ionic, ReactNative, etc).</p> <p>2) Javascript Client and Server side technologies must be explored. (e.g - React, Angular, NodeJs, Express)</p> <p>3) Cloud Computing must cover practicals to use services of Google Cloud, Amazon AWS, Microsoft Azure, etc.</p> <p>4) MERN/MEAN stack must be explored.</p> <p>5) Programming languages must be taught in Stack group and by the end of sessions one must know atleast one stack (e.g- MERN,MEAN,LAMP,etc) completely.</p> <p>6) Industry Level Sensors can also be explored in the practicals of IOT.</p>
	<p>Deletion of sub portion from existing syllabus.</p>	<p>Communication management As of now not required Business Management, ERP related portions &amp; some non-realistic practicals can be excluded.</p>

	Overall feedback on the current/proposed syllabus.	<p>Can be done better by improvising new technology and more practical sessions.</p> <p>As for BCA and BSCIT course content of Syllabus is Good and will be very helpful for the students</p> <p>The current syllabus is good and can be used to give quality education. Although there are some improvements that can be done and they are mentioned above. It will be good if the University can provide digital study materials to the students for the syllabus they have provided.</p>
Teachers	Overall opinion about content of syllabus	<p>Test</p> <p>Excellence</p> <p>in New Syllabus is good but some modifications is need good</p> <p>Proposed syllabus has been constructed in accordance with the AICTE norms and satisfies the demand of current industrial requirements. It also pertains to the standards laid down by the university.</p> <p>The current syllabus is a bit of conventional type which is fair enough for the students to get the basic knowledge of civil engineering but lacks many points when it comes to industry based and research based education.</p> <p>The some content , some paper and scheme of studies in syllabus is not up to the mark according to present scenario and new syllabus proposed by AICTE for B.TECH AND DIPLPMA.</p> <p>Content of syllabus is good, It must be given as hour required to complete the topic or module not number of lecture.</p> <p>Quite competent</p> <p>as per the new scenario of the technology to be changed</p> <p>Proposed syllabus is in accordance with AICTE norms and also caters to current industrial requirements. I have reviewed the syllabus and after revision the overall course content is found satisfactory from my side.</p> <p>Good</p> <p>overall the content of syllabus is very good with all specializations</p>

		<p>Good, with all specializations are very good. The Syllabus content is based on the present technological advancements of the concerned branch and more market based. Basic understanding of all important and required subjects are present.</p> <p>6/10, Somehow average, need to revise it as per market/society needs.</p> <p>at some point I totally disagree with syllabus of my department because in few semester the content is repeating.</p> <p>The syllabus is good one of Electrical Engineering</p> <p>Good Good</p> <p>Sufficiently enough</p> <p>The content of the syllabus is well framed. However, I have a few suggestions:</p> <p>Ist&amp;IInd Semester: Properties of Surfaces should be included as Module 4. Students must have prior knowledge of the Moment of Inertia and all before studying the Kinematics and Kinetics of Rigid Bodies. The Engineering Mechanics Syllabus should have Wedge Friction, Screw Jack Friction, Linear momentum and moment of momentum: Impulse and momentum relations for a particle, Moment of momentum equations for a single particle, and for a system of particles.</p> <ul style="list-style-type: none"> <li>- Programming for Compute Programming can be renamed as Computer Programming</li> <li>- English for Communication can be renamed as English for Science and Technology.</li> <li>- Elements of Mechanical Engineering subject syllabus includes multiple domains that requires a basic understanding of core mechanical engineering like the strength of materials, in-depth knowledge of thermodynamics, machine design. At 1st year level, in my opinion, it does not suit feasible. It can be included in later semesters.</li> <li>- Mathematics part can be finished in Mathematics I &amp; II. Better, it should be Numerical and Statistical Methods.</li> <li>- Strength of Materials in particular refers to Civil Engineering. It would have been better if it can be named as Solid Mechanics in view of the Mechanical Engineering Syllabus. Few topics to be added: Mohr's circle representation for plane stress and plane strain, thermal</li> </ul>
--	--	--

		<p>stresses and strains, volumetric stress and strain; Combined stresses and strains in structural members; Springs: Helical and Leaf springs; Failure theories; Buckling of columns.</p> <p>-Kinematics of Machinery: Clutches: Types, Analysis.</p> <p>-Thermodynamics &amp; Applied Thermodynamics: Internal Combustion Engines: 2-S and 4-S Diesel and Petrol Engines, Principles of working of 2- S and 4-S I C Engines; Fuels and Combustion: Types of fuels, calorific values of fuels and their determination, combustion equations, flue gas analysis, Orsat apparatus, excess air, determination of the actual quantity of air from combustion analysis.</p> <p>-Dynamics of Machinery: It may include Static force analysis topic. Static Force Analysis: Introduction, Constraint and applied forces, Static equilibrium, Equilibrium of two and three force members, Members with two forces and a torque, Equilibrium of four force members - Slider crank mechanism and four-bar mechanism, Force convention, Free body diagrams, Superposition principle, Principle of virtual work. Turning moment diagram and Flywheel: Turning moment on crankshaft, Dynamically equivalent system, Turning-moment diagrams, Fluctuation of energy, Flywheels, Dimensions of flywheel rims. Balancing: Static and dynamic balancing, Transference of force from one plane to another, Balancing of several masses in different planes, Force balancing of linkages. Governors: Types of governors, Watt Governor, Porter Governor, Proell Governor, Hartnell governor, Hartung governor, Inertia governor, Sensitiveness of a governor, Hunting, Isochronism, Stability, Effort of a governor, Power of a governor, Controlling force.</p> <p>Practical Names: The names of the practicals should be properly kept for better understanding, e.g., Tensile Strength Testing of a given mild steel on UTM, Compressive Strength testing of a given specimen on UTM etc.</p> <p>The current syllabus is well organised according to AICTE, UGC regulations.</p>
	<p>Addition of New Contents in existing syllabus.</p>	<p>Excellence</p> <p>Previous syllabus was (some of the subjects or paper) are very long</p> <p>Required</p> <p>In accordance with the current norms of AICTE, the contents have been added to the existing syllabus with</p>



		<p>certain modifications that satisfies the needs of current curriculum and also makes students become more practical in their approach.</p> <p>Addition of softwares, Advanced Subjects which will help in research/higher studies and some new subjects as per the syllabus of GATE/IES/ SSC JE. Apart from this, modular online courses must be added in each semester so that students can gain knowledge of advancements in their respective fields.</p> <p>Indeed it is very important Addition of new content and also new Paper in Existing syllabus Regarding Gate preparation</p> <p>Few topics are added Some required</p> <p>some of the topics are added to the syllabus by observing new technology</p> <p>New contents has been proposed in order to full fill the current trends &amp; development in terms of research and practical exposure.</p> <p>Not Required. As the course content of the syllabus is as per AICTE norms.</p> <p>Yes Not required</p> <p>Not required</p> <p>Yes certain new contents have been added</p> <p>Yes required only in few semesters/subjects.</p> <p>yes somewhere it is required to add some topic or portion in current syllabus</p> <p>Some content may be added as per new industrial requirement.</p> <p>No Good</p> <p>Modification time to time -Advanced Solid Mechanics - Machining and Machine Tools - Production Technology - AutoCAD and Solid modeling/ Soft Computing with Lab - Industrial Engineering and Management - System Modeling and Simulation - Operation Research - In place of Biology, Automobile Engineering can be</p>
--	--	---

		<p>included</p> <p>New contents has been added in the syllabus.</p>
	<p>Deletion of sub portion from existing syllabus.</p>	<p>Some portion</p> <p>it needs some of the portion</p> <p>Needed</p> <p>Existing syllabus required certain modifications in order to cope up with recent changes in technologies and industrial requirements. Keeping those in mind, certain portions of existing syllabus have been dropped and have been replaced with an updated portion.</p> <p>Some of the elective subjects which are more or less same and are repeated can be substituted by the new elective subjects which are more relevant as per the industry demand and different examinations.</p> <p>Yes we should exchange the sub portion from existing syllabus</p> <p>Some topics are removed from old syllabus</p> <p>Over stuffed so deletion required</p> <p>replacement to be done but no deletion is required</p> <p>Topics which is outdated according to current advancement in research and industrial requirements.</p> <p>No Yes not required No</p> <p>Certain elective subjects have been removed</p> <p>Yes required only in few subjects</p> <p>yes in power engineering subject required to delete refrigerationmodules 5th.</p> <p>None No NA</p> <p>If it is obsolete</p> <ul style="list-style-type: none"> <li>- Dynamics of Machinery: forced in mechanism and machines.</li> <li>- Better to shuffle Basic Electronics Engineering in the First Year.</li> <li>- Biology subject can be renamed as Bio-medical</li> </ul>

		<p>Engineering and the syllabus can be framed accordingly.</p> <ul style="list-style-type: none"> <li>- I don't think Environmental Science and Engineering should be included as a part of Mechanical Engineering.</li> <li>-Essence of Indian Knowledge and Tradition has already been included in the first year. I don't think it should be again included in 5th semester.</li> </ul> <p>No need of deletion</p>
	<p>Overall feedback on the current/proposed syllabus.</p>	<p>very good</p> <p>its good but some modifications is needed</p> <p>some subject's syllabus is too lengthy. Rest are good</p> <p>I believe that the proposed syllabus will provide an updated value to the student's learning and make them be industry ready for the upcoming challenges. Also, it makes them aware about recent advancements in educational systems.</p> <p>The current syllabus is covering all the core subjects but not making the student industry ready and research ready. So, the new syllabus will be a blend of core subjects covering all the basics of their field along with focusing on development of skills required for working in industry and research field.</p> <p>In my opinion correction is required in current Syllabus Good</p> <p>New subject should replace few old ones</p> <p>that has to be discussed and required changes to be done and to changes to be as per the AICTE</p> <p>Proposed syllabus is in accordance with AICTE and helpful for the students in research as well as industrial demand.</p> <p>Current or Proposed syllabus is based on the pattern of AICTE. It looks good.</p> <p>More application and research part to be added</p> <p>Overall the syllabus meets the need of IT technologies and research areas.</p> <p>Overall all the syllabus meets the need of IT and research areas.</p> <p>The current syllabus is based on the present technological advancements of the concerned branch and more market based.</p>

		<p>8.5/10</p> <p>overall good</p> <p>Good one</p> <p>Best level</p> <p>Good</p> <p>Appropriate</p> <p>The syllabus is well framed. However, the syllabus should highlight in terms of the employability of the students. It should rather be more inclined towards the major in Mechanical Engineering. I have suggested the changes as my experience in Mechanical Engineering.</p> <p>Overall satisfactory</p>
Parents	Overall opinion about content of syllabus	<p>Excellent</p> <p>Syllabus is Good</p> <p>Nice</p> <p>The syllabus is good</p>
	Addition of New Contents in existing syllabus.	<p>No</p> <p>PLC &amp; DCS</p> <p>Recent advancement and researches</p> <p>More and more software learning course should be there in the syllabus</p>
	Deletion of sub portion from existing syllabus.	<p>Not required</p> <p>Not required</p> <p>None</p> <p>The parts which has no use in future course</p>
	Overall feedback on the current/proposed syllabus.	<p>It's good for student.</p> <p>Good</p> <p>Good</p> <p>Satisfactory but it should more innovative and interesting as in pandemic situation students are not feeling to study and they are not able to understand things online</p> <p>So I think the syllabus should be innovative ,interesting and updated</p>
Industrialists/Pr	Overall opinion about	It is in accordance with the new age technology

professionals	content of syllabus	<p>advancements.</p> <p>The syllabus is very detailed and comprehensive for all other branches of engineering. But minor up-gradation is required in CS and IT related curriculum.</p> <p>Outstanding</p> <p>Nice</p> <p>I think it is sufficient.</p>
	Addition of New Contents in existing syllabus.	<p>Very well appreciated</p> <p>Instrumentation and Operations Research to be added as subjects to all B.E / B.Tech courses. Artificial Intelligence curriculum to be expanded to Machine Learning for B.Tech CS. Cloud Computing, ERP, Data Analytics, Business Intelligence to be added as electives to B.Tech CS. For BSCIT where these are covered, the curriculum should be updated to touch upon industry leading software in each domain. For example, students should know what are the core modules of SAP and what do they do. Likewise they should know what are the core modules of AWS, Azure, Google Cloud and what do they do. Application architecture to be covered in curriculum - differences between Monolith, Microservices, Serverless, Distributed applications with or without cloud computing. Database architecture for SQL and NoSQL databases to be covered in curriculum.</p> <p>No</p> <p>No</p> <p>If required please add</p>
	Deletion of sub portion from existing syllabus.	<p>Obsolete and obvious things are not required explicitly so a good move.</p> <p>Constitution of India to be removed from B.Tech syllabus. It is already covered in high school civics education.</p> <p>Mathematics Engineering mathematics in 4 sem</p> <p>Nothing</p>

	Overall feedback on the current/proposed syllabus.	<p>Satisfactory and as standardized</p> <p>There should be practical (lab / internet) sessions to complement theory wherever possible so that students have better understanding of core concepts. Application of concepts with real world examples of existing use cases to be part of pedagogy for BSCIT and BCA.</p> <p>Outstanding</p> <p>Good</p> <p>Everything is ok with previous syllabus</p>
--	--	---

### **Action Taken Report**

The details of the feedback/suggestions collected from different stakeholders was studied and summarized which would be necessary for considerations at the time of revising the syllabus. The summarized report is as follows:

#### **Feedback by students**

The feedback response from students is considered and discussed at different platforms by faculty and if needed, feedback report sent to the University.

The response of maximum students regarding design and review of syllabus was found to be very good (more than 85 % students find the syllabus satisfactory).

#### **Feedback by Teachers**

The feedback of teachers was collected in this workshop. Teachers from other colleges/University also participated in this workshop and shared their viewpoint about the current syllabus. Teachers who are the part of the Syllabus Revision Committee also participated in it.

Faculties discussed about the various issues related to students, curricular aspect and examination.

Response of maximum teachers finds the syllabus good. Regarding design of syllabus, it was very good.

#### **Feedback by Parents**

The response of maximum parents regarding design and review of syllabus, taken in Parents Teachers' meet, was very good.

The parents find the syllabi relevant and job oriented.

#### **Feedback by Alumni**

The response of maximum alumni regarding design and review of syllabus was very good. The alumni find the syllabi relevant, job oriented and knowledge imparting.

Conducted by – Board of Studies , School of Engineering & IT



**JGI**  
**ARKA JAIN**  
**University**  
Jharkhand (Jamshedpur)

## ONE - DAY WORKSHOP ON SYLLABUS REVISION

ON : 11th OCT, 2020  
LIVE ON : GOOGLE MEET

[www.arkajainuniversity.ac.in](http://www.arkajainuniversity.ac.in)

### उद्योग जगत की मांग के अनुरूप इंजीनियर तैयार करेगा अर्का जैन

- पाठ्यक्रम में शामिल करने को लेकर हुई कमीलतम चर्चाओं के व शोधों की समीक्षा
- स्कूल ऑफ इंजीनियरिंग एंड आईटी की सिलेबस रिवीजल कार्यशाला आयोजित



#### खबर मन्त्र ख्यते

**जमशेदपुर।** जमशेदपुर के बगल में स्थित गम्हरिया स्थित अर्का जैन यूनिवर्सिटी के स्कूल ऑफ इंजीनियरिंग एंड आईटी के बोर्ड ऑफ स्टडीज की ओर से सिलेबस पुनरीक्षण आधारित एकदिवसीय कार्यशाला का आयोजन किया गया। कार्यशाला का उद्देश्य बीसीए, एमसीए, बीटेक व पॉलीटेक्निक के वर्तमान पाठ्यक्रमों पर चर्चा करते हुए नवीनतम तकनीकों व शोधों की समीक्षा करना था, ताकि उपयोगिता के अनुसार उसे पाठ्यक्रम का हिस्सा बनाया जा सके। कार्यशाला में विभिन्न विभागों के प्राध्यापकों ने विषय-वस्तु पर आचारित प्रस्तुति दी। साथ ही विद्यार्थियों के सवालों के जवाब भी दूँ।

कार्यशाला में विभिन्न जानकारियों की समाहित करने का प्रयास किया गया। कार्यशाला में शामिल शिक्षार्थियों व उद्योग जगत के विशेषज्ञों के सुझाव काफी महत्वपूर्ण व आकर्षण का केंद्र रहे ताकि अध्ययनरत विद्यार्थियों को उस अनुकूल ढाला जा सके, ताकि वे उद्योग जगत की जरूरतों के अनुसार अपने ज्ञान की वृद्धि

व व्यक्तित्व का निर्माण कर सकें। कार्यशाला में सुझाव देनेवालों में डॉ अजित कुमार, डॉ अविनाश कुमार, डॉ एमपी सिंह, प्रवीण, डा विजय कुमार सिंह, जयंत कुमार, सुभाष चंद्रा, राजेश सिंह, पी श्रीनिवासन, जगराज सिंह, कुणाल पटेल, प्रभावत, ऋतुराज, प्रिया, कृष्णकान्त, पंकज, ड विनोद कुमार चौधरी, डॉ अनुपमा कुमारी, दिव्या कुमारी, कुमारेश पाल, राशद अतवर, कुमार शुभम, निवेदन महतो, जय गौराई समेत व अन्य शामिल थे।

इससे पूर्व कार्यशाला के आरंभ में बोर्ड ऑफ स्टडीज के चेयरमैन अरविंद कुमार पंडेय ने स्वागत भाषण तथा आकाश भगत ने संबोधन किया। कार्यशाला का समापन पर बोर्ड ऑफ स्टडीज के सचिव अश्विनी कुमार ने धन्यवाद ज्ञापन किया। प्रतिभागियों ने बताया कि यह एक ज्ञानवर्धक और खुद को अद्यतन करनेवाला सत्र रहा। कार्यशाला में देश विदेश के प्रतिष्ठित शिक्षार्थि, आईआईटी, एनआईटी के प्राध्यापकगण, उद्योग जगत के विशेषज्ञ, अभिभावक, पूर्ववर्ती छात्र तथा अध्ययनरत छात्रों समेत 100 से अधिक प्रतिभागियों ने हिस्सा लिया।