



**ACTON TAKEN REPORT  
(ON FEEDBACK FOR REVIEW OF SYLLABUS)**

Date: 18<sup>th</sup> May 2022

ACADEMIC YEAR: 2022-23

DEPARTMENT: Computer Science and Engineering

Feedback was requested from following stakeholders

S.No	Stakeholder	Count
1	Students	93
2	Employers	03
3	Parents	20
4	Alumni	10

**Report of Action Taken:**

S.No	Stakeholder	Feedback(Suggestions made)	Action to beTaken
1	Students	Stay current with emerging technologies: Computer science is a rapidly changing field, and it's important to keep up with emerging technologies and trends. Consider including topics such as machine learning, artificial intelligence, cybersecurity, cloud computing, and data science	New advance courses will be included apart from existing courses. Our syllabus already consists of advance technical courses like deep learning, IoT hands on.
		Emphasize practical skills: While theory is important, it's also important to provide students with practical skills that they can apply in the workforce. Consider incorporating hands-on projects, programming assignments, and real-world case studies to help students apply what they learn.	Practical knowledge is imparted using course project and new programming tools are used for training the students. Example: codetantra
		Foster critical thinking and problem-solving: Computer science is about problem-solving, and it's important to develop critical thinking skills in students. Consider	Some new courses will be introduced towards this direction.

		including topics such as algorithm design, data structures, and complexity analysis to help students develop these skills.	
2	Employers	Encourage teamwork and collaboration: Collaboration is an essential skill in the workplace, and it's important to provide students with opportunities to work in teams. Consider incorporating group projects, coding challenges, and other collaborative activities into the syllabus.	To encourage teamwork minor and major project research groups are made for peer research.
		Ensure diversity and inclusivity: Computer science has historically been a male-dominated field, and it's important to ensure that the syllabus is inclusive and welcoming to all students. Consider including topics such as ethics and bias in machine learning, as well as promoting diversity in the examples and case studies used in the syllabus.	Unbiased syllabus is designed where any gender can be learned and share the knowledge.
		More Artificial intelligence and machine learning courses need to introduced to students	Some new courses will be introduced towards this direction
		Industry exposure: To prepare students for the workforce, consider incorporating opportunities for industry exposure, such as internships, hackathons, or industry visits. This can help students better understand the practical applications of the concepts they learn in the classroom.	New strategies will be built on this apart from existing internship culture.
3	Parents	Soft skills training: In addition to technical skills, it's important for computer science engineers to have strong soft skills, such as communication, time management, and leadership. Consider incorporating workshops or classes that focus on developing these skills.	Yes, we streamlined those for industry ready graduates for globalisation.



		<p>Programming languages and tools: Computer science is a field that requires constant learning and adaptation. Consider introducing students to multiple programming languages and tools, as well as best practices for learning new ones. This can help them be more adaptable and competitive in the job market.</p> <p>Students need to be trained in basic etiquettes in terms of personal interviews</p>	<p>New tools are introduced like codetantra for data structures and advance data structures.</p> <p>Yes, this is streamed lined with T&amp;P activity.</p>
4	Alumni	<p>Ethical considerations: As technology continues to shape our world, it's important for computer science engineers to understand the ethical implications of their work. Consider incorporating discussions or case studies on topics such as data privacy, algorithmic bias, and social responsibility.</p> <p>Personalized learning: Every student has their own learning style and pace. Consider incorporating personalized learning approaches, such as self-paced assignments, interactive online learning tools, or project-based assessments, to help students learn in a way that suits them best.</p>	<p>All these will be taken under consideration.</p> <p>We will consider this by including choice-based system. (CBS).</p>

Signature of Head of the Department

**P. NIRANJAN**

**Professor & Head**

**Dept. of Computer Science & Engg.**  
**Kakatiya Institute of Technology & Science**  
 Warangal - 506 015.



**ACTON TAKEN REPORT  
 (ON FEEDBACK FOR REVIEW OF SYLLABUS)**

Date: 19<sup>th</sup> April 2022

ACADEMIC YEAR: 2021-22

DEPARTMENT: Computer Science and Engineering

**Feedback was requested from following stakeholders**

S.No	Stakeholder	Count
1	Students	91
2	Teachers	4
3	Employers	3
4	Parents	5
5	Alumni	5

**Report of Action Taken:**

S.No	Stakeholder	Feedback(Suggestions made)	Action to be taken
1	Students	Data science needs python as backend programming, such courses like Python, R should be there in syllabus	Python scripting language is introduced in V semester with industry-relevant competency in curriculum
		Most of the companies recruitment process involves aptitude test and reasoning, some direction should be provided in academics	Quantitative aptitude and Logical reasoning (QALR) course is introduced V semester for interview purpose.
		Apart from traditional Java programming creating of console application, better to introduce GUI in Java.	Advance Java Programming Lab is introduced in V semester for hands on experience in developing GUI applications
2	Teachers	Courses which enhance the student ability to solve complex problems must be introduced. Students should know the complexity of design algorithms.	Design and Analysis of Algorithm course is introduced in VI semester.
3	Employers	Some industry relevant courses can be introduced to meet industry 4.0 requirements.	IoT course along with laboratory course is introduced in VI semester to meet industry 4.0 requirement.
		The focus should be on data science-related courses where students can learn EDA	The Data Analytics laboratory course was introduced in VI semester as per valuable



		science-related courses where students can learn EDA tools.	course was introduced in VI semester as per valuable suggestions from industry experts.
4	Parents	Students should be provided with basic ethics and morals to human values, and it would be better if some courses related to this direction were introduced.	Along with technical skills ethics and morals is also taught in each course, but as per valuable suggestions from parents', a new course Universal Human Values (UHV) is introduced in VI semester to know the importance of human values.
5	Alumni	More emphasis should be on practical learning, (Learn while doing). Project based approach course must be introduced apart from major project.	Mini project course is introduced in VI semester, where each student is evaluated for prototype design.
		Internship scope must be provided to student in semester gaps, with ample of time.	The internship is made mandatory for every students, where we also evaluate their progress upon completion of internship.

  
 Signature of Head of the Department

**Dr. C. SRINIVAS**  
Head of the Department

Computer Science and Engineering  
JVA INSTITUTE OF TECHNOLOGY & SCIENCE  
Warangal- 506015, T.S., India,



**ACTON TAKEN REPORT**  
**(ON FEEDBACK FOR REVIEW OF SYLLABUS)**

Date: 12<sup>th</sup> Oct 2020

ACADEMIC YEAR: 2020-21

DEPARTMENT: Computer Science and Engineering

Feedback was requested from following stakeholders.

S.No	Stakeholder	Count
1	Students	32
2	Employers	3
3	Parents	15
4	Alumni	15

**Report of Action Taken:**

S.No	Stakeholder	Feedback(Suggestions made)	Action Taken
1	Students	Stay current with emerging technologies: Computer science is a rapidly changing field, and it's important to keep up with emerging technologies and trends. Consider including topics such as machine learning, artificial intelligence, cybersecurity, cloud computing, and data science	New advance courses are included apart from existing courses from PRR-14.
		Emphasize practical skills: While theory is important, it's also important to provide students with practical skills that they can apply in the workforce. Consider incorporating hands-on projects, programming assignments, and real-world case studies to help students apply what they learn.	Practical knowledge is imparted using course project and new programming tools are used for training the students. Example: codetantra
		Foster critical thinking and problem-solving: Computer science is about problem-solving, and it's important to develop critical thinking skills	To enhance critical thinking and problem solving abilities new course like Operational Research and Advance Data



		in students. Consider including topics such as algorithm design, data structures, and complexity analysis to help students develop these skills.	introduced.
2	Employers	Encourage teamwork and collaboration: Collaboration is an essential skill in the workplace, and it's important to provide students with opportunities to work in teams. Consider incorporating group projects, coding challenges, and other collaborative activities into the syllabus.	To encourage teamwork industrial training is introduced to get familiar with industry work culture.
		Ensure diversity and inclusivity: Computer science has historically been a male-dominated field, and it's important to ensure that the syllabus is inclusive and welcoming to all students. Consider including topics such as ethics and bias in machine learning, as well as promoting diversity in the examples and case studies used in the syllabus.	Unbiased syllabus is designed where any gender can be learned and share the knowledge.
		More Artificial intelligence and machine learning courses need to introduced to students	Some new courses like Data science, Deep learning along with practical labs are introduced.
		Industry exposure: To prepare students for the workforce, consider incorporating opportunities for industry exposure, such as internships, hackathons, or industry visits. This can help students better understand the practical applications of the concepts they learn in the classroom.	Industrial training is introduced as a part of curriculum.
3	Parents	Soft skills training: In addition to technical skills, it's important for computer science engineers to have strong soft skills, such as communication, time management, and leadership. Consider incorporating workshops or classes that	English for Research Paper Writing course is Introduced for improving writing and communication skills.

		focus on developing these skills.	
		Programming languages and tools: Computer science is a field that requires constant learning and adaptation. Consider introducing students to multiple programming languages and tools, as well as best practices for learning new ones. This can help them be more adaptable and competitive in the job market.	New tools are introduced like codetantra for data structures and advance data structures using python.
		Students need to be trained in basic etiquettes in terms of personal interviews	Yes, this is stream lined with T&P activity.
4	Alumni	Ethical considerations: As technology continues to shape our world, it's important for computer science engineers to understand the ethical implications of their work. Consider incorporating discussions or case studies on topics such as data privacy, algorithmic bias, and social responsibility.	Block chain Technologies and Applications like courses were introduced apart from traditional Software Engineering Specialization.
		Traditional B.Tech related courses need to be avoided like maths and try to implement new courses to enhance research	31 new courses were added apart from traditional courses and most of the courses are at advance level to carry out research.
		Elective Courses need to improve introduce latest courses.	New courses like data science, IoT and deep learning courses were added.
		Research parameters need to be included with advance implementation tools such that it will help in future	Latest technology related courses were added along with practical for continuing learning like "Agile Development and DevOps Laboratory"

  
 Signature of Head of the Department





# KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL – 15

(An Autonomous Institute under Kakatiya University, Warangal)

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Consolidation of Curriculum Gaps for Syllabus Review

Curriculum gaps met in autonomous syllabus and mapping of expected POs to be improved:

Subject Code	Subject Name	Year, Semester	Expected POs to improve
P20SE105	CASE Tools Laboratory	I, I	PO1, PO3
P20SE106	Advanced Algorithms through Python Laboratory	I, I	PO1, PO3
P20MC10	Research Methodology & IPR	I, I	PO1, PO2, PO3
P20AC108A	English for Research Paper Writing	I, I	PO2
P20AC108B	Sanskrit for Technical Knowledge	I, I	PO1, PO3
P20SE103C	Software Architecture and Design patterns	I, I	PO1, PO3
P20AC108C	Constitution of India	I, I	PO2
P20AC108D:	Pedagogy Studies	I, I	PO2
P20SE201	Agile Development Methodologies	I, II	PO1, PO3
P20SE202	Data Science	I, II	PO1, PO3
P20SE205	Agile Development and DevOps Laboratory	I, II	PO1, PO3
P20SE206	Data Science Laboratory	I, II	PO1, PO3
P20SE203A	Software Configuration Management	I, II	PO1, PO3
P20AC208A	Stress Management by Yoga	I, II	PO2, PO3
P20SE203B	Web Services Testing	I, II	PO1, PO3
P20SE204B	Block chain Technologies and Applications	I, II	PO1, PO3
P20AC208B	Value Education	I, II	PO3
P20SE203C	Software Reliability Engineering	I, II	PO1, PO3
P20SE204C	Internet of Things	I, II	PO1, PO3
P20AC208C	Personality Development through Life Enlightenment Skills	I, II	PO1, PO3
P20SE301A	Data Visualization	II, I	PO1, PO3
P20OE302A	Business Analytics	II, I	PO1, PO3
P20SE301B	Social Network Analysis	II, I	PO1, PO3
P20OE302B	Industrial Safety	II, I	PO1, PO3
P20SE301C	Deep Learning	II, I	PO1, PO3
P20OE302C:	Operations Research	II, I	PO1, PO3
P20DS301D:	MOOCs	II, I	PO1, PO2, PO3
P20OE302D:	Cost Management of Engineering Projects	II, I	PO1, PO3
P20OE302E:	Composite Materials	II, I	PO1, PO3
P20OE302F:	Waste to Energy	II, I	PO1, PO3
P20SE207	Mini Project	I, II	PO1, PO2, PO3

We have introduced

- New courses which are Relevant to current industry trends, the technology industry is known for its rapid advancements and changing trends. Hence a wide range of options are provided to students to choose for their career path with new course like "Agile Development and DevOps Laboratory", "Data Science Laboratory" etc.
- Helps in research opportunities, in real-world challenging problems and projects. This provides students with opportunities for applied research. They can work on projects that have immediate relevance to industry, allowing them to apply their research findings to practical solutions. Hence Mini project is introduced in programme.
- Publication Opportunities: Research conducted as part of industry-relevant courses can lead to publications in industry journals, conferences, or academic publications. This helps students gain recognition and contributes to the academic and professional reputation of the program.
- Practical Research Skills: Research conducted in alignment with industry requirements equips students with practical research skills that are directly transferable to their future careers. They learn to conduct research with immediate applicability and relevance.
- Contributions to Industry Knowledge: Research conducted through industry-relevant courses can contribute to the body of knowledge within the software engineering field. It can lead to the development of best practices, tools, and methodologies that benefit the industry.
- Job Market Advantage: Graduates with research experience in industry-relevant areas are highly attractive to employers. They bring a blend of academic rigor and practical problem-solving skills, making them valuable assets to tech companies and research institutions.
- Practical Research Skills: Research conducted in alignment with industry requirements equips students with practical research skills that are directly transferable to their future careers. They learn to conduct research with immediate applicability and relevance.
- Industry Collaboration: Collaborating with industry partners, which is often facilitated by industry-relevant courses, can lead to research opportunities. Industry professionals may provide access to data, resources, and real-world challenges that can form the basis of research projects. Such collaboration can also lead to joint research efforts between academia and industry. Hence Internship gap is provided to industry collaboration.
- Employability: Graduates from programs that align with industry needs are more likely to be in demand by employers. They possess the skills and expertise that companies are actively seeking, making it easier for them to secure high-quality jobs upon graduation.
- We have also given opportunity to students to complete courses on MOOCS using national learning platform SWAYAM.
- Great choice of courses is offered under professional and open electives.
- Yoga course is introduced which helps student to grow ethically and mentally strong.
- Audit courses help students to improve their writing skills.
- Research Methodology course is introduced to make students understand the importance of research and inculcate innovation in their courses. Which introduces the students with different techniques involved in research perspective.



- CASE (Computer-Aided Software Engineering) tools are essential in the software development industry, and having a dedicated laboratory course can provide practical experience with various CASE tools commonly used in software engineering, such as UML modeling tools, version control systems, code generation tools, and project management software. This hands-on experience equips them with valuable skills that are directly applicable in their future careers.
- "Advanced Algorithms through Python Laboratory" in a postgraduate M.Tech program is to foster practical problem-solving skills and algorithmic thinking in the context of a widely-used programming language. This practical experience can prepare them for a wide range of roles that require algorithmic thinking and problem-solving, such as software development, data science, machine learning, and research in computer science.
- A new course like "Research Methodology & IPR" helps students develop a strong foundation in research techniques, including literature review, research design, data collection, analysis, and presentation of findings. It ensures that students are well-prepared to undertake rigorous research and contribute to the advancement of knowledge in their field.
- Agile methodologies, such as Scrum and Kanban, have become the standard in the software development industry due to their flexibility, adaptability, and ability to deliver high-quality products efficiently. By offering a course on Agile Development Methodologies, M.Tech students can learn about the principles, practices, and tools used in agile development. This prepares them to seamlessly transition into software development roles in various industries, where agile practices are widely adopted.
- Agile development and DevOps are critical methodologies in today's software industry. They emphasize iterative development, continuous integration, automated testing, and collaboration between development and operations teams. By offering a laboratory course in Agile Development and DevOps, students can actively engage in real-world scenarios and gain practical experience in applying these methodologies. In this laboratory setting, students can work on projects that involve designing, building, and deploying software using agile and DevOps practices. They can learn how to use tools and technologies like version control systems, continuous integration/continuous deployment (CI/CD) pipelines, containerization, and infrastructure as code (IaC). This hands-on experience ensures that students are not only familiar with the theories behind agile and DevOps but are also capable of implementing them effectively.
- Data science has become a cornerstone of various industries, including technology, finance, healthcare, and marketing. Companies are increasingly relying on data-driven approaches to make informed decisions, optimize processes, and gain a competitive edge. By offering a course in data science, M.Tech students can learn essential concepts such as data analysis, machine learning, statistical modeling, and data visualization. This course equips students with practical skills in data manipulation, data cleaning, and advanced analytics techniques. It also introduces them to programming languages and tools commonly used in data science, such as Python, R, and data science libraries like Pandas, NumPy, and scikit-learn. Graduates with a background in data science are well-

positioned for a wide range of job opportunities, including data analyst, machine learning engineer, data scientist, and data engineer.

- Yoga techniques, including mindfulness, meditation, and relaxation exercises, can help students develop greater mental resilience and coping mechanisms. These practices can reduce anxiety, improve concentration, and foster emotional balance, enabling students to navigate the challenges of their academic and professional pursuits more effectively.
- A new course on "Data Visualization" in postgraduate M.Tech programs is to equip students with the crucial skill of effectively communicating complex technical information through visual means, enhancing their ability to present and interpret data in a clear and insightful manner. In the field of technology and engineering, data is abundant and often intricate. Being able to convey data-driven insights, trends, and findings to colleagues, stakeholders, and non-technical audiences is essential. A course in data visualization teaches students how to design and create visually compelling charts, graphs, and interactive dashboards that make complex data more understandable and engaging.

We have introduced around 31 new courses in PRR-20 syllabus which are useful for the students to attain the fourth industrial revolution (i4.0) expectations. We are going to further revise our autonomous syllabus in future, so that the autonomous syllabus will be in sync with as per the i4.0 expectations and hopefully we satisfy all COs there by achieving the target attainment levels.

  
Head Department of CSE





**ACTON TAKEN REPORT  
 (ON FEEDBACK FOR REVIEW OF SYLLABUS)**

Date: 14<sup>th</sup> May 2021

ACADEMIC YEAR: 2020-21

DEPARTMENT: Computer Science and Engineering

Feedback was requested from following stakeholders

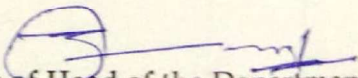
S.No	Stakeholder	Count
1	Students	128
2	Teachers	15
3	Employers	06
4	Parents	15
5	Alumni	08

**Report of Action Taken:**

S.No	Stakeholder	Feedback(Suggestions made)	Action Taken
1	Students	On line courses should be accepted	Minor and Honour degree based on MOOCs course are included in the course.
		More emphasis on soft skills and industry oriented training for placements needed.	Encouraged to take MOOCs. Course on "Soft and Interpersonal skills". Introduced company oriented training, soft skills programmes to improve payments.
		Real time and industry oriented internship needed to permit.	Industry oriented internships, onsite real-time project are being accepted.
2	Teachers	Internship and industry interactions must be encouraged	Internship made compulsory to students Students sent for Summer internships / online internship
		More weightage must be given to research oriented and industry oriented Projects	Major research groups are introduced where faculty supervisors emphasis for research oriented outcomes
		Higher level cognitive levels and application level questions must be included in the exam patterns.	Higher level cognitive level questions and application oriented questions made compulsory in the examination patterns



3	Employers		
		Hands on training for different programming language must be included	Workshops on Matlab, PSpice, Java, Python, PHP, Android etc organised and courses also included in syllabus.
		Students should get updates on current technologies	CII and CEO speak sessions, and expert lectures from industry persons are being arranged
		More Artificial intelligence and machine learning courses need to introduced to students	Artificial intelligence technologies like Deep learning, Data visualization and Virtual reality courses included in the syllabus
		More industry oriented courses need to be included in syllabus	Industry oriented courses like Block Chain Technologies and Cloud computing included in the syllabus.
4	Parents	Industry -institute interaction to improve	Industry persons are now included as members of Board of Studies. MoUs are signed by FC of institute. Industry internships.
		Improve placements	Company specific training being given and Intensive Training & Placement classes
		Ethics and Personality development to be inculcated in syllabus	Counselling through counsellors. Universal ethic values course on ethics being introduced
5	Alumni	Students need to be trained in basic etiquettes in terms of personal interviews	Training & Placement classes are being arranged at regular timings
		Impart practical knowledge and make them (students) work more on projects	Major project research groups included pursuing industry oriented projects and research oriented projects.
		Innovation should be included in the syllabus.	I2RE (Innovation, Incubation, Research and Entrepreneurship) made part of the regular academic syllabus.

  
 Signature of Head of the Department

SD/-  
Signature of the Principal





## ACTION TAKEN REPORT (ON FEEDBACK FOR REVIEW OF SYLLABUS)

Date: 18<sup>th</sup> April 2020

ACADEMIC YEAR: 2019-20

DEPARTMENT: Computer Science and Engineering

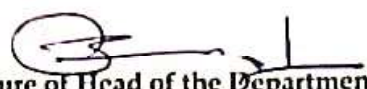
Feedback was requested from following stakeholders

S.No	Stakeholder	Count
1	Students	10
2	Teachers	2
2	Employers	3
3	Parents	3
4	Alumni	0

**Report of Action Taken:**

S.No	Stakeholder	Feedback(Suggestions made)	Action to betaken
1	Students	Web development courses can be introduces in early semester	As per the suggestions of students web development course is shifted to IV semester.
		Database connectivity in web development need to introduce	Database connectivity concepts are introduced in web programming course.
		PHP and other scripting languages should be introduce in web programming	PHP scripting language is introduced in web programming course
2	Employers	Simple Data structure course is not sufficient for complex problem solving, suggestion is to introduce advance concepts	Advance data structure course is introduced in III semester to make student industry ready to solve real world complex problems.
		Communication skills must be enhanced	Soft and interpersonal skills course is introduced in IV semester.
3	Parents	Soft skills training: Besides technical skills, computer science engineers need strong soft skills, such as communication, time management, and leadership. Consider incorporating workshops or classes that focus on developing these skills.	Yes, we streamlined those for industry-ready graduates for globalization and introduced the Soft and interpersonal skills course in the IV semester.

	focus on developing these skills.	
	Students should speak English in college environment	As per suggestion new course Professional English is introduced
	Students need to be trained in basic etiquettes in terms of personal interviews.	Yes, this is stream lined with T&P activity.

  
 Signature of Head of the Department  
**Dr. V. SHANKAR**  
 Ph.D  
 Professor & Head  
 Dept. of Computer Science & Engineering  
 Kalluriya Institute of Technology & Science  
 Warangal - 506 015 - T.S.



ACTION TAKEN  
ON FEEDBACK  
FOR REVIEW

**ACTION TAKEN REPORT**  
**(ON FEEDBACK FOR REVIEW OF SYLLABUS)**

ACADEMIC YEAR: 2018-19

Date: 02-05-19

DEPARTMENT: COMPUTER SCIENCE AND ENGINEERING

Feedback was requested from following stakeholders

S.No	Stakeholder	Count
1	Students	6
2	Teachers	5
3	Employers	3
4	Parents	4
5	Alumni	4

**Report of Action Taken:**

S.No	Stakeholder	Feedback(Suggestions made)	Action Taken
1	Students	Syllabus should be focused more on practical based courses	3 Practical course added for each semester
		More weightage must be given to Projects	Mini-projects and seminars
		More emphasis on aptitude and reasoning should be taken	Course on "Soft and Interpersonal skills, aptitude reasoning" introduced
		Assignments must be reduced	Only 2 assignment are given
2	Teachers	Internship must be Mandatory	Sent students for Summer internships
		Industrial visits must be arranged	Industrial visits organised
		Scripting Language courses must be included	Python ,PHP are introduced
		Online Courses are to be included from reputed universities	NPTEL and MOOCS introduced
		Assessment should be improved	Assessment is improved by adding Minor exams
		Open Elective Courses on different subjects must be added	Open electives are increased from 2 to 4
		Professional Elective Courses must be added	Professional electives are increased from 4 to 6

S.No	Stakeholder	Feedback(Suggestions made)	Action Taken
3	Employers	Students need to be trained in basic etiquettes in terms of personal interviews	Professional ethics course is introduced
		Fundamental concepts of students needs to be improved	NPTEL Lab and MOOCS established and classes are arranged
		Students should get updates on current technologies	CII and CEO speak sessions, Alumni and expert lectures from industry persons are being arranged
		Improvement in soft skills is needed	Course on "Soft and Interpersonal skills exists along with this professional English and practical lab" introduced
		Industry -institute interaction to improve	Industry persons are now included as members of Board of Studies. MoUs are signed by I <sup>3</sup> C of institute. Industry internships.
4	Parents	Security and Machine learning courses should be added	Deep Learning, AI, IRS , SSE, Ethical Hacking are added
		Improve placements	Programming Skill development is added
		Improvement required in Communication skills	Intensive Training & Placement classes
		Personality development training	Intensive Training & Placement classes
		Ethics to be inculcated	EITK course added
5	Alumni	Improvement in General Knowledge is needed	Indian Constitution course is added
		Impart practical knowledge and make them (students) work more on projects	Mini-projects and seminars introduced and 3 Practical Courses are added
		Special courses like .net, Python should be taught	Workshops are organised. Courses are introduced
		Research focus needs improvement	AI, Deep Learning, Cloud Computing Courses Added

  
 Signature of Head of the Department

**Members of Advisory Committee:**

1. Dr. P. Niranjan
2. Sri S. Naga Raju
3. Dr V.Shankar
4. Sri C. Srinivas
5. Sri S.Venkatramulu
6. Sri V.Chandhra Sekhar Rao
7. Dr S. Narasimha Reddy

Convener

Member

Member

Member

Member

Member

Member







S. N. Reddy



**List of New Courses Added in KITSW Autonomous Syllabus URR-18 to overcome Curricular Gaps Identified in Autonomous URR-14 Syllabus**

The Curricular gap identified in the **KITSW Autonomous URR-14 Syllabus** is overcome by introducing the following subjects in **KITSW Autonomous URR-18 Syllabus** as follows.

1. The **Essence of Indian Traditional Knowledge** subject is introduced to improve the Human Values and Professional Ethics.
2. The **Internship programme** is introduced to enhance the knowledge of the student and also filling gap between Industry and Institution.
3. The **Quantitative Aptitude and Logical Reasoning** subject is introduced to enhance the knowledge in competitive exams in on-campus selections and also increase the number selections in on-campus and off-campus.
4. The **Advanced JAVA Laboratory** is introduced to improve the programming skills in online exams during the campus selections.
5. **Advanced Data structures** and **Advanced Data Structures lab** is introduced to know the complex and advanced data structures.
6. **Python programming** is introduced to develop the applications.
7. **Soft and Inter personal skills** is introduced to know the people skills, the way of communicating and interacting with others.
8. The **MOOCs Courses** are introduced to enhance the knowledge in various subjects conducted by National Programme on Technology Enhanced Learning (NPTEL) which is an initiative by seven Indian Institutes of Technology (IIT Bombay, Delhi, Guwahati, Kanpur, Kharagpur, Madras and Roorkee) and Indian Institute of Science (IISc), Study Webs of Active – Learning for Young Aspiring Minds (SWAYAM) programme of Ministry of Human Resource Development, Government of India and other courses-etc.

**List of New Courses Added in KITSW (Autonomous) URR-18 Syllabus**

<b>Course Code</b>	<b>New Course Name</b>	<b>Skills Developed to overcome Curriculum gap</b>	<b>Targeted PO</b>
U18MH315	Essence of Traditional Indian Knowledge	Values and Culture of Indians	PO8
U18CS306	Advanced Data Structures	Complex and advanced data structures	PO3
U18CS311	Advanced Data Structures Lab	Programming skills	PO5
U18CS506	Python programming	Developing applications	PO5
U18CS509	Python Programming lab	Web development	PO5
U18CS507	Advanced Java Programming Lab	Advanced Programming Skills	PO5
U18MH302	Professional English	Advanced Communication Skills at Professional Level	PO10
U18TP402	Soft and Inter Personal skills	People skills, soft skills	PO10
U18TP501	Quantitative Aptitude	Ease of cracking most of the	PO2

	and Logical Reasoning	recruitment exams	
U18CS708	Internship	Filling gap between Industry and Institution.	PO9
U18CS606	Internet of Things	Development of IoT products and services	PO4
U18CS609	Internet of Things Laboratory	Research-design and development	PO5
U18MH111	Universal Human Value	Ethics and human values	PO8
U18CS801M	MOOCs Course	Coping up with futuristic method of learning	PO12

The faculty of the department is contributing services to attain the POs and PSOs by constantly monitoring the student's performance in theory and laboratory courses. Make up and Remedial classes are arranged to improve the student performance.

  
Dr. V. SHANKAR

Professor & Head <sup>Ph.D</sup>  
Dept. of Computer Science & Engineering  
Kakatiya Institute of Technology & Science  
Warangal - 506 015 - T.S.