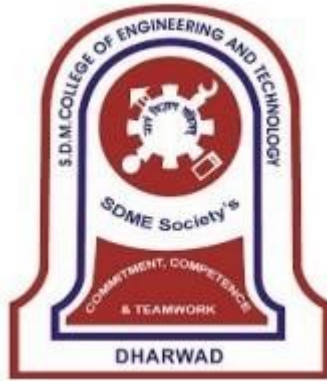


SDM College OF Engineering & Technology

Dharwad-580002



Department of Information Science & Engineering

Stakeholders Feedback Report



Dr. Jagadeesh D. Pujari
HOD, ISE

INFERENCE AND ACTION PLAN OF ALUMNI SURVEY

QUESTIONNAIRE	SUMMARY	ACTION PLAN
Higher Studies Opt	<ul style="list-style-type: none"> 12% have gone for higher studies. Remaining has not opted for higher studies. 	<ul style="list-style-type: none"> Good Placement at UG Level Can be Postponed of plans for higher studies
Curriculum mapping with higher studies: <ul style="list-style-type: none"> Very relevant Relevant Cant say Less relevant Least relevant 	<ul style="list-style-type: none"> 58% have agreed very relevant. 33% less relevant. Remaining 10% Least relevant. 	<ul style="list-style-type: none"> Motivation for higher studies Internships in the institution
Whether you are into Entrepreneurship?	<ul style="list-style-type: none"> 10% agreed. Remaining % not agreed. 	<ul style="list-style-type: none"> More courses on Entrepreneurship Events/activities like HACKATHON , Business plan, context.
JOB profile:	<ul style="list-style-type: none"> 58% are programmers in different companies. 12% testing. 3% teaching. 3% linux admin. 3% musician. 3% full stack developer. 	<ul style="list-style-type: none"> Courses to orient students towards higher level jobs like developer, designer etc.
Salary Package:	<ul style="list-style-type: none"> 49% 2-5 lakhs. 42% 5-10 lakhs. 6.1% greater than 10 lakhs. 	<ul style="list-style-type: none"> Salary Packages to be enhanced by encouraging students to go for better campus
Relevance of curriculum with respect to your current job:	<ul style="list-style-type: none"> 64 % relevant. 21 % poorly relevant. 15 % excellent. 	<ul style="list-style-type: none"> Syllabus modification to include relevant subjects
Satisfaction of the job;	<ul style="list-style-type: none"> 94% satisfied. Remaining % not satisfied. 	<ul style="list-style-type: none"> High level of satisfaction is achieved Aspiration must be increased through placement.
To meet the current job requirements tools used which you have not learnt in degree:	<ul style="list-style-type: none"> AWS_Unix, Node JS, Flutter, Putty, Node JS express. XML. API. 	<ul style="list-style-type: none"> Some of the tools to be taught using value added program.
Any other suggestions Suggestion:	<ul style="list-style-type: none"> Internship must be added in the curriculum. Industrial training. More labs rather than theoretical subjects. Introducing new language like java script , mean stack, full stack. Computer vision , AI , Data analytics . Network programming to be introduced Need more hands-on industrial training 	<ul style="list-style-type: none"> Artificial Intelligence, Data analytics is introduced in the curriculum. Internship, Industrial training is carried out Java Lab,ADA Lab, File structures Lab is introduced in the curriculum Network programming in Computer networks lab is introduced More number hands-on industrial

		training is conducted Under C-III
<p>How well do you think UG programme at SDMCET prepared you to develop career or work related knowledge & skills.</p> <ul style="list-style-type: none"> • Excellent • Very Good • Good • Poor 	<ul style="list-style-type: none"> • 51.5% Good • 27.3% Very good. • 15.2% Excellent. • 6.1% poor 	<ul style="list-style-type: none"> • Contemporary curriculum to be maintained through constant revision of courses.
<p>How well do you think undergraduate programme at SDMCET prepared you to Think analytically and logically</p>	<ul style="list-style-type: none"> • 48.4% Good • 27.3% very good. • 15.2% Excellent • 9.1% Poor 	<ul style="list-style-type: none"> • Thinking and creative abilities to be enhanced through activity base learning
<p>How well do you think undergraduate programme at SDMCET prepared you to Communicate well: written and oral</p>	<ul style="list-style-type: none"> • 42.4% Good • 33.3% Very good. • 15.2% Excellent. • 9.1% Poor. 	<ul style="list-style-type: none"> • Communication skills to be include through add-on courses.
<p>How well do you think undergraduate programme at SDMCET prepared you to Acquire new skills and knowledge on your own</p>	<ul style="list-style-type: none"> • 36.4% Good • 39.4% Very good. • 18.2% Excellent. • 6.1% Poor. 	<ul style="list-style-type: none"> • New skills through self study, internship etc to be encouraged.
<p>How well do you think UG programme at SDMCET prepared you to work effectively as a team member?</p>	<ul style="list-style-type: none"> • 30.3% Good. • 42,4% Very good. • 21.2% excellent. • 6.1% Poor. 	<ul style="list-style-type: none"> • Team based activities like projects to be increased in number and extracurricular activities.
<p>How well do you think undergraduate programme at SDMCET prepared you to be an effective leader?</p>	<ul style="list-style-type: none"> • 45.5% Very good • 24.2% Good • 24.2% excellent • 6.1% Poor 	<ul style="list-style-type: none"> • Leadership skills developed through team activity to be enhanced.
<p>Vision of the department: To equip students with latest skills in the field of Information Technology (I.T) and the proper professional and ethical values supplemented with practical orientation to face challenges of modern computing industry. Indicate how well do you agree with Vision of the department</p> <ul style="list-style-type: none"> • Strongly agree • Agree • Disagree 	<ul style="list-style-type: none"> • 62% of the Alumni strongly agreed with the present vision. • Remaining % of the Alumni agreed with the present vision. 	<ul style="list-style-type: none"> • Practical skills like interaction techniques, ethics, values etc through add-on courses. • Whether 'latest skills 'could be substituted by competent is to be discussed and change to be made.
<p>Do you suggest any changes in the vision? (Specify)</p>		<ul style="list-style-type: none"> •
<p>Indicate how well do you agree with vision of the department</p> <ul style="list-style-type: none"> • Strongly agree • Agree 	<ul style="list-style-type: none"> • 62% have agreed vision statement is very relevant to ISE course. 	<ul style="list-style-type: none"> • Substituting practical orientation in the statement with contemporary IT Knowledge. • To be changed in BOS and AC

<ul style="list-style-type: none"> Disagree 		
<p>Whether VISION STATEMENT is Mapped to the Information Science and Engineering Course</p> <ul style="list-style-type: none"> Completely Mapped Partially Mapped Not Mapped 	<ul style="list-style-type: none"> 85% agreed vision statement is mapped to ISE course. 	<ul style="list-style-type: none"> As vision is mapped almost completely with minor points to be revised as stated above.
<p>Mission of the department- Indicate how well do you agree with Mission of the department</p> <p>M1- To make the students technically superior and ethically strong who in turn shall advance the quality of life.</p> <ul style="list-style-type: none"> Strongly agree Agree Disagree <p>M2- To promote research and development in the frontier areas of Information technology.</p> <ul style="list-style-type: none"> Strongly agree Agree Disagree <p>M3- To generate competent professional to become part of the industry and research organization at the national levels.</p> <ul style="list-style-type: none"> Strongly agree Agree Disagree 	<ul style="list-style-type: none"> M1. 54% strongly agreed the present M1 Remaining portion have only agreed the M1 Statement.. M2. 62% strongly agreed with the present M2, 31% agreed & remaining portion cant say. M3. 62% strongly agreed with the present M3. Remaining % just agreed. 	<ul style="list-style-type: none"> Mission statements are meant for implementing vision therefore the following changes may be thought of from the survey Technical superiority is to be implemented through contemporary curriculum and use of modern ICT tools. Therefore they are included as mission point Facilities to be provided for exposure to best IT Practices is another mission point 'Ethical and moral values' are retained separate mission point.
<p>Whether all MISSION STATEMENTS are relevant to the Information Science and Engineering Course</p> <ul style="list-style-type: none"> Very relevant Less Relevant Not relevant 	<ul style="list-style-type: none"> 70% are agreed with present mission statements which are relevant to ISE course. 	<ul style="list-style-type: none"> Relevance is to be increased with appropriate change in focus as suggested above.
<p>Whether all MISSION STATEMENTS are Mapped to the Information Science and Engineering Course</p> <ul style="list-style-type: none"> Completely Mapped Partially Mapped Not Mapped 	<ul style="list-style-type: none"> 93% academicians agreed with completely mapped with ISE course 	<ul style="list-style-type: none"> A mission statements changes are also to be completely mapped to VISION of ISE Course
<p>Do you suggest any changes in the Mission? (Specify)</p>	<p>Changes as above</p>	<ul style="list-style-type: none"> Changes carried out as mentioned
<p>Program Educational Objectives (PEOs)</p> <p>Indicate how well do you agree with each Program Educational Objectives (PEOs)</p> <p>PEO-1 Excel as Information Technology Professional with proficiency in designing solutions to Information Engineering problems.</p>	<ul style="list-style-type: none"> 62% have agreed all PEOs are very relevant to mission of the dept. 	<ul style="list-style-type: none"> It was felt that 'excel' for all would be unrealistic therefore 'develop into' was suggested in PEO-1 In PEO-2, was left untouched since a section of graduates always will have inclination of higher studies In PEO-3, the concepts of team working and collaborating for best

<ul style="list-style-type: none"> • Very relevant • Less Relevant • Not relevant <p>PEO-2 Pursue higher studies with the sound knowledge of basic concepts and skills in science and Information Technology disciplines</p> <ul style="list-style-type: none"> • Very relevant • Less Relevant • Not relevant <p>PEO-3 Exhibit professionalism, team work and exposure to current trends towards continuous learning</p> <ul style="list-style-type: none"> • Very relevant • Less Relevant • Not relevant 		output was suggested.
<p>Whether all PEO STATEMENTS are relevant to the Information Science and Engineering Course</p> <ul style="list-style-type: none"> • Very relevant • Less Relevant • Not relevant 	<ul style="list-style-type: none"> • 85% are agreed PEO's are very relevant to ISE course. 	<ul style="list-style-type: none"> • As the feedback received agree with statements of PEOs essence is left is as it is and only specific words are changed
<p>Whether all PEO STATEMENTS are Mapped to the Information Science and Engineering Course</p> <ul style="list-style-type: none"> • Completely Mapped • Partially Mapped • Not Mapped 	<ul style="list-style-type: none"> • 100% agreed PEO's stmt's are mapped to ISE course. 	<ul style="list-style-type: none"> • As the feedback received agree with statements of PEOs essence is left is as it is and only specific words are changed
<p>PO1 : Engineering knowledge [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 62% are very relevant to ISE course. 	<ul style="list-style-type: none"> • ISE is taught to be applied to be applied science, hence more applicants like AI,ML and IOT etc are brought into syllabus
<p>PO2 : Prob Analysis [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 69% are very relevant to ISE course. 	<ul style="list-style-type: none"> • Current courses provide enough Problem Solving opportunities as seen by near 90% relevance.
<p>PO 3:Design & development of solution [Indicate Whether PO STATEMENT is relevant to the</p>	<ul style="list-style-type: none"> • 69% are very relevant to ISE course. 	<ul style="list-style-type: none"> • Current courses provide enough

<p>Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 		<p>‘design and development opportunities as seen by near 90% relevance.</p>
<p>PO 4:Conduct investigation of complex problem [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 54% have agreed very relevant. 	<ul style="list-style-type: none"> • Several Opportunities are provided in current curriculum for attaining this PO
<p>PO 5:Modern tool usage [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 69% have agreed very relevant. 	<ul style="list-style-type: none"> • Modern ICT Tools are to be introduced to students. • This is being continuously done in Microcontroller, DBMS, IoT, BDA, CN etc. courses.
<p>PO 6: Engineering & Society [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 46% have agreed very relevant 	<ul style="list-style-type: none"> • Mini project and Major project are significant contributors to societal addressing by engineering students and they will be more people friendly.
<p>PO 7:Environmental & system relative [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 38.5% have agreed very relevant. 	<ul style="list-style-type: none"> • Concern about Environment and its preservation are also mainly addressed through socially relevant projects.
<p>PO 8: Ethics [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant 	<ul style="list-style-type: none"> • 62% are very relevant. 	<ul style="list-style-type: none"> • This PO is having scope of address only in humanities component of syllabus and through certain assignments etc. in some courses.

<ul style="list-style-type: none"> • Cant say • Less relevant • Least relevant 		
<p>PO 9: Individual & term work [Indicate Whether POSTATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 69.2% are very relevant. 	<ul style="list-style-type: none"> • Team work to be strengthened by giving more group assignments and class activities etc.
<p>PO 10: Communication [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 54% are very relevant. 	<ul style="list-style-type: none"> • Communication is addressed in first year courses. Also some training programs are conducted for soft skills
<p>PO 11:Project Management & finance [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 54% are very relevant. 	<ul style="list-style-type: none"> • It needs to be augmented with project execution also an open elective is to be made available for project management.
<p>PO 12 : Lifelong learning. [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 46.2% are very relevant. • 46% are irrelevant. 	<ul style="list-style-type: none"> • Most fundamental subjects need to be reinforced through brush up and crash courses in final year to attain life long learning and helps in placements.
<p>PSO 1: An ability to develop logical reasoning, coding skills, analysis and mathematical modeling. [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant 	<ul style="list-style-type: none"> • 69.2% are very relevant. 	<ul style="list-style-type: none"> • Current courses provide enough coding skills but higher level of coding is to be introduced.

<ul style="list-style-type: none"> • Least relevant 		
<p>PSO 2: Ability to modify, debug, test and adapt software modules for varied applications. [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 54% are very relevant. 	<ul style="list-style-type: none"> • Professional skills are acquired through real life activities ,conference, workshops, Presentation etc.

INFERENCE AND ACTION PLAN OF ACADEMIC SURVEY

QUESTIONNAIRE	SUMMARY	ACTION PLAN
<p>Vision of the department: To equip students with latest skills in the field of Information Technology (I.T) and the proper professional and ethical values supplemented with practical orientation to face challenges of modern computing industry. Indicate how well do you agree with Vision of the department</p> <ul style="list-style-type: none"> • Strongly agree • Agree • Disagree 	<ul style="list-style-type: none"> • 62% of the academicians strongly with the present vision, mission, remaining % of the academicians to modify the vision. 	<p>Whether 'latest skills 'could be substituted by competent is to be discussed and change to be made.</p>
<p>Do you suggest any changes in the vision? (Specify)</p>	<ul style="list-style-type: none"> • To equip the students with the latest skills in the field of Information Technology (I.T) as the competent professional and ethical values supplemented with a practical orientation to face challenges of the modern computing industry. 	<p>To develop competent Information Technology Engineers having complete Knowledge and skills in contemporary Information Technology practices.</p>
<p>Indicate how well do you agree with vision of the department</p> <ul style="list-style-type: none"> • Strongly agree • Agree • Disagree 	<ul style="list-style-type: none"> • 62% have agreed vision stmt very relevant to ISE course. 	<p>Substituting practical orientation in the statement with contemporary IT Knowledge. To be changed in BOS and AC</p>
<p>Whether VISION STATEMENT is Mapped to the Information Science and Engineering Course</p> <ul style="list-style-type: none"> • Completely Mapped • Partially Mapped • Not Mapped 	<ul style="list-style-type: none"> • 85% agreed vision stmt is mapped to ISE course. 	<p>As vision is mapped almost completely with minor points to be revised as stated above.</p>
<p>Mission of the department- Indicate how well do you agree with Mission of the department</p> <p>M1- To make the students technically superior and ethically strong who in turn shall advance the quality of life.</p> <ul style="list-style-type: none"> ○ Strongly agree ○ Agree ○ Disagree <p>M2- To promote research and development in the frontier areas of Information technology.</p> <ul style="list-style-type: none"> ○ Strongly agree ○ Agree ○ Disagree <p>M3- To generate competent professional to</p>	<ul style="list-style-type: none"> • M1. 54% strongly agreed the present M1. Remaining portion have only agreed the M1 Statement. • M2. 62% strongly agreed with the present M2 31% agreed & remaining portion cant say. • M3. 62% strongly agreed with the present M3. Remaining % just agreed. 	<p>Mission statements are meant for implementing vision therefore the following changes may be thought of from the survey</p> <ul style="list-style-type: none"> • Technical superiority is to be implemented through contemporary curriculum and use of modern ICT tools. Therefore they are included as mission point • Facilities to be provided for exposure to best IT Practices is another mission point • 'Ethical and moral values' are retained separate mission point.

<p>become part of the industry and research organization at the national levels.</p> <ul style="list-style-type: none"> ○ Strongly agree ○ Agree ○ Disagree 		
<p>Whether all MISSION STATEMENTS are relevant to the Information Science and Engineering Course</p> <ul style="list-style-type: none"> • Very relevant • Less Relevant • Not relevant 	<ul style="list-style-type: none"> • 70% are agreed with present mission stmts which are relevant to ISE course. 	<p>Relevance is to be increased with appropriate change in focus as suggested above.</p>
<p>Whether all MISSION STATEMENTS are Mapped to the Information Science and Engineering Course</p> <ul style="list-style-type: none"> • Completely Mapped • Partially Mapped • Not Mapped 	<ul style="list-style-type: none"> • 93% academicians agreed with completely mapped with ISE course 	<p>A mission statements changes are also to be completely mapped to VISION of ISE Course</p>
<p>Do you suggest any changes in the Mission? (Specify)</p>	<ul style="list-style-type: none"> • A small thought, in M3, do we need to specify "National Levels"? Can it be generalized? • In place of superior competent would be better word in M1 • To make students industrially competent is probably needed 	<p>M1. To develop contemporary curriculum in information technology delivered using Innovative teaching learning practices and ICT tools. M2. To provide facilities for relevant research and expose students to the best industry Practices in Information Technology. M3. To inculcate the best moral values and professional ethics in students.</p>
<p>Program Educational Objectives (PEOs)</p> <p>Indicate how well do you agree with each Program Educational Objectives (PEOs)</p> <p>PEO-1 Excel as Information Technology Professional with proficiency in designing solutions to Information Engineering problems.</p> <ul style="list-style-type: none"> • Very relevant • Less Relevant • Not relevant <p>PEO-2 Pursue higher studies with the sound knowledge of basic concepts and skills in science and Information Technology disciplines</p> <ul style="list-style-type: none"> • Very relevant • Less Relevant • Not relevant <p>PEO-3</p>	<ul style="list-style-type: none"> • 62% have agreed all PEOs are very relevant to mission of the dept. 	<ul style="list-style-type: none"> • It was felt that ‘excel’ for all would be unrealistic therefore ‘develop into’ was suggested in PEO-1 • In PEO-2, was left untouched since a section of graduates always will have inclination of higher studies • In PEO-3, the concepts of team working and collaborating for best output was suggested.

<p>Exhibit professionalism, team work and exposure to current trends towards continuous learning</p> <ul style="list-style-type: none"> • Very relevant • Less Relevant • Not relevant 		
<p>Whether all PEO STATEMENTS are relevant to the Information Science and Engineering Course</p> <ul style="list-style-type: none"> • Very relevant • Less Relevant • Not relevant 	<ul style="list-style-type: none"> • 85% are agreed PEO's are very relevant to ISE course. 	As the feedback received agree with statements of PEOs essence is left is as it is and only specific words are changed
Do you suggest any changes in the PEOs ? (Specify)	---	
<p>Whether all PEO STATEMENTS are Mapped to the Information Science and Engineering Course</p> <ul style="list-style-type: none"> • Completely Mapped • Partially Mapped • Not Mapped 	<ul style="list-style-type: none"> • 100% agreed PEO's stmt's are mapped to ISE course. 	As the feedback received agree with statements of PEOs essence is left is as it is and only specific words are changed
<p>PO1 : Engineering knowledge [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 62% are very relevant to ISE course. 	ISE is taught to be applied to be applied science, hence more applicants like AI,ML and IOT etc are brought into syllabus
<p>PO2 : Problem Analysis [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 69% are very relevant to ISE course. 	Current courses provide enough Problem Solving opportunities as seen by near 90% relevance.
<p>PO 3:Design & development of solution [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 69% are very relevant to ISE course. 	Current courses provide enough 'design and development opportunities as seen by near 90% relevance.
<p>PO 4:Conduct investigation of complex problem [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p>	<ul style="list-style-type: none"> • 54% have agreed very relevant. 	Several Opportunities are provided in current curriculum for attaining this PO

<ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 		
<p>PO 5: Modern tool usage [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 69% have agreed very relevant. 	<ul style="list-style-type: none"> • Modern ICT Tools are to be introduced to students. • This is being continuously done in Microcontroller, DBMS, IoT, BDA, CN etc. courses.
<p>PO 6: Engineering & Society [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 46% have agreed very relevant 	<p>Mini project and Major project are significant contributors to societal addressing by engineering students and they will be more people friendly.</p>
<p>PO 7: Environmental & system relative [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 38.5% have agreed very relevant. 	<p>Concern about Environment and its preservation are also mainly addressed through socially relevant projects.</p>
<p>PO 8: Ethics [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 62% are very relevant. 	<p>This PO is having scope of address only in humanities component of syllabus and through certain assignments etc. in some courses.</p>
<p>PO 9: Individual & term work [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say 	<ul style="list-style-type: none"> • 69.2% are very relevant. 	<p>Team work to be strengthened by giving more group assignments and class activities etc.</p>

<ul style="list-style-type: none"> • Less relevant • Least relevant 		
<p>PO 10: Communication [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 54% are very relevant. 	<p>Communication is addressed in first year courses. Also some training programs are conducted for soft skills</p>
<p>PO 11:Project Management & finance [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 54% are very relevant. 	<p>It needs to be augmented with project execution also an open elective is to be made available for project management.</p>
<p>PO 12 : Lifelong learning. [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 46.2% are very relevant. • 46% are irrelevant. 	<p>Most fundamental subjects need to be reinforced through brush up and crash courses in final year to attain life long learning and helps in placements.</p>
<p>PSO 1: An ability to develop logical reasoning, coding skills, analysis and mathematical modeling [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 69.2% are very relevant. 	<p>Current courses provide enough coding skills but higher level of coding is to be introduced.</p>
<p>PSO 2: Ability to modify, debug, test and adapt software modules for varied applications [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant 	<ul style="list-style-type: none"> • 54% are very relevant. 	<p>Professional skills are acquired through real life activities ,conference, workshops, Presentation etc.</p>

<ul style="list-style-type: none"> Least relevant 					
<p>Most of the academicians suggested following subjects to be introduced in the curriculum.</p> <ul style="list-style-type: none"> Machine learning Artificial Intelligence Block chain technology Natural language processing Python Network security lab Embedded systems & IOT. 	--	The following subjects are introduced in the curriculum			
		Subject	Year	Sem	Lab/Theory/Elective
		Data Mining and Machine Learning Tools Lab	2017-18	7 th	Lab
		Machine Learning	2018-19	8 th	Theory
		Machine Learning Lab			Lab
		Artificial Intelligence			Elective
		Python (Data Mining and Machine Learning Tools Lab)	2017-18	7 th	Lab
		Embedded systems & IOT		8 th	Elective

INFERENCE AND ACTION PLAN OF EMPLOYER SURVEY

QUESTIONNAIRE	SUMMARY	ACTION PLAN
<p>Vision of the department: To equip students with latest skills in the field of Information Technology (I.T) and the proper professional and ethical values supplemented with practical orientation to face challenges of modern computing industry. Indicate how well do you agree with Vision of the department</p> <ul style="list-style-type: none"> • Strongly agree • Agree • Disagree 	<ul style="list-style-type: none"> • 62% have agreed vision of the dept. • 38% have strongly agreed vision of the dept. 	Whether 'latest skills' could be substituted by competent is to be discussed and change to be made.
Do you suggest any changes in the vision? (Specify)	--	
<p>Indicate how well do you agree with vision of the department</p> <ul style="list-style-type: none"> • Strongly agree • Agree • Disagree 	<ul style="list-style-type: none"> • 62% have agreed vision stmt very relevant to ISE 	Substituting practical orientation in the statement with contemporary IT Knowledge. To be changed in BOS and AC
<p>Whether VISION STATEMENT is Mapped to the Information Science and Engineering Course</p> <ul style="list-style-type: none"> • Completely Mapped • Partially Mapped • Not Mapped 	<ul style="list-style-type: none"> • 85% agreed vision stmt is mapped to ISE course. 	As vision is mapped almost completely with minor points to be revised as stated above.
<p>Mission of the department- Indicate how well do you agree with Mission of the department</p> <p>M1- To make the students technically superior and ethically strong who in turn shall advance the quality of life.</p> <ul style="list-style-type: none"> • Strongly agree • Agree • Disagree <p>M2- To promote research and development in the frontier areas of Information technology.</p> <ul style="list-style-type: none"> • Strongly agree • Agree • Disagree <p>M3- To generate competent professional to become part of the industry and research organization at the national levels.</p> <ul style="list-style-type: none"> • Strongly agree • Agree • Disagree 	<ul style="list-style-type: none"> • 57% have only just agreed. • Remaining strongly agreed. 	<p>Mission statements are meant for implementing vision therefore the following changes may be thought of from the survey</p> <ul style="list-style-type: none"> • Technical superiority is to be implemented through contemporary curriculum and use of modern ICT tools. Therefore they are included as mission point • Facilities to be provided for exposure to best IT Practices is another mission point • 'Ethical and moral values' are retained separate mission point.

<p>Whether all MISSION STATEMENTS are relevant to the Information Science and Engineering Course</p> <ul style="list-style-type: none"> • Very relevant • Less Relevant • Not relevant 	<ul style="list-style-type: none"> • 70% are agreed with present mission stmts which are relevant to ISE 	<p>Relevance is to be increased with appropriate change in focus as suggested above.</p>
<p>Whether all MISSION STATEMENTS are Mapped to the Information Science and Engineering Course</p> <ul style="list-style-type: none"> • Completely Mapped • Partially Mapped • Not Mapped 	<ul style="list-style-type: none"> • 93% academicians agreed with completely mapped with ISE 	<p>A mission statements changes are also to be completely mapped to VISION of ISE Course</p>
<p>Do you suggest any changes in the Mission ? (Specify)</p>	<p>Changes as above</p>	<p>Changes carried out as mentioned</p>
<p>Program Educational Objectives (PEOs)</p> <p>Indicate how well do you agree with each Program Educational Objectives (PEOs)</p> <p>PEO-1 Excel as Information Technology Professional with proficiency in designing solutions to Information Engineering problems.</p> <ul style="list-style-type: none"> • Very relevant • Less Relevant • Not relevant <p>PEO-2 Pursue higher studies with the sound knowledge of basic concepts and skills in science and Information Technology disciplines</p> <ul style="list-style-type: none"> • Very relevant • Less Relevant • Not relevant <p>PEO-3 Exhibit professionalism, team work and exposure to current trends towards continuous learning</p> <ul style="list-style-type: none"> • Very relevant • Less Relevant • Not relevant 	<ul style="list-style-type: none"> • PEO 1: 71% have said very relevant to ISE course. • PEO 2: 76% have said very only just relevant to ISE • PEO 3: 62% have just said relevant to ISE course. 	<ul style="list-style-type: none"> • It was felt that ‘excel’ for all would be unrealistic therefore ‘develop into’ was suggested in PEO-1 • In PEO-2, was left untouched since a section of graduates always will have inclination of higher studies • In PEO-3, the concepts of team working and collaborating for best output was suggested.
<p>Whether all PEO STATEMENTS are relevant to the Information Science and Engineering Course</p> <ul style="list-style-type: none"> • Very relevant • Less Relevant • Not relevant 	<ul style="list-style-type: none"> • 85% are agreed PEO’s are very relevant to ISE 	<p>As the feedback received agree with statements of PEOs essence is left is as it is and only specific words are changed</p>
<p>Whether all PEO STATEMENTS are Mapped to the Information Science and Engineering Course</p> <ul style="list-style-type: none"> • Completely Mapped • Partially Mapped 	<ul style="list-style-type: none"> • 100% agreed PEO’s stmt’s are mapped to ISE 	

<ul style="list-style-type: none"> Not Mapped 																									
<p>Do you suggest any changes in the PEOs? (Specify)</p>	<ul style="list-style-type: none"> 67% -NO 																								
<p>Most of the Employers suggested following subject to be introduced in the curriculum.</p> <ul style="list-style-type: none"> Machine learning Artificial Intelligence Python Embedded systems & IOT. 	<p>---</p>	<p>The following subjects are introduced in the curriculum-</p> <table border="1" data-bbox="1497 203 2051 984"> <thead> <tr> <th>Sub</th> <th>Year</th> <th>Sem</th> <th>Lab/Theory</th> </tr> </thead> <tbody> <tr> <td>Data Mining and Machine Learning Tools Lab</td> <td>2017-18</td> <td>7th</td> <td>Lab</td> </tr> <tr> <td>Machine Learning</td> <td rowspan="3">2018-19</td> <td rowspan="3">8th</td> <td>Theory</td> </tr> <tr> <td>Machine Learning Lab</td> <td>Lab</td> </tr> <tr> <td>Artificial Intelligence</td> <td>Elective</td> </tr> <tr> <td>Python (Data Mining and Machine Learning Tools Lab)</td> <td rowspan="2">2017-18</td> <td>7th</td> <td>Lab</td> </tr> <tr> <td>Embedded systems & IOT</td> <td>8th</td> <td>Elective</td> </tr> </tbody> </table>	Sub	Year	Sem	Lab/Theory	Data Mining and Machine Learning Tools Lab	2017-18	7 th	Lab	Machine Learning	2018-19	8 th	Theory	Machine Learning Lab	Lab	Artificial Intelligence	Elective	Python (Data Mining and Machine Learning Tools Lab)	2017-18	7 th	Lab	Embedded systems & IOT	8 th	Elective
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<p>PO1 : Engineering knowledge [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> Very relevant Relevant Cant say Less relevant Least relevant 	<ul style="list-style-type: none"> 38% agreed very relevant to ISE course. 	<p>ISE is taught to be applied to be applied science, hence more applicants like AI,ML and IOT etc are brought into syllabus</p>																							
<p>PO2 : Proben Analysis [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> Very relevant Relevant 	<ul style="list-style-type: none"> 48% agreed very relevant to ISE course. 43% agreed just relevant to ISE course. 	<p>Current courses provide enough Problem Solving opportunities as seen by near 90% relevance.</p>																							

<ul style="list-style-type: none"> • Cant say • Less relevant • Least relevant 		
<p>PO 3:Design & development of solution [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 48% agreed very relevant to ISE course. • Remaining % are relevant. 	<p>Current courses provide enough ‘design and development opportunities as seen by near 90% relevance.</p>
<p>PO 4:Conduct investigation of complex problem [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 57% agreed just relevant. • 43% are very relevant 	<p>Several Opportunities are provided in current curriculum for attaining this PO</p>
<p>PO 5:Modern tool usage [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 43% agreed very relevant to ISE course. • 43% agreed relevant to ISE course. • 10% agreed least relevant to ISE course. 	<ul style="list-style-type: none"> • Modern ICT Tools are to be introduced to students. • This is being continuously done in Microcontroller, DBMS, IoT, BDA, CN etc. courses.
<p>PO 6: Engineering & Society [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 67% relevant. • 19% very relevant. • 9.5% least relevant. 	<p>Mini project and Major project are significant contributors to societal addressing by engineering students and they will be more people friendly.</p>
<p>PO 7:Environmental & system relative [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant 	<ul style="list-style-type: none"> • 57% relevant • 33% very relevant. • 4.8% least relevant. 	<p>Concern about Environment and its preservation are also mainly addressed through socially relevant projects.</p>

<ul style="list-style-type: none"> • Relevant • Cant say • Less relevant • Least relevant 		
<p>PO 8: Ethics [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 48% very relevant. • 48% relevant. • Remaining % less relevant. 	<p>This PO is having scope of address only in humanities component of syllabus and through certain assignments etc. in some courses.</p>
<p>PO 9: Individual & term work [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 52% relevant. • Remaining % very relevant. 	<p>Team work to be strengthened by giving more group assignments and class activities etc.</p>
<p>PO 10: Communication [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 57% relevant • Remaining % are relevant. 	<p>Communication is addressed in first year courses. Also some training programs are conducted for soft skills</p>
<p>PO 11: Project Management & finance [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 86% relevant • Remaining % very relevant. 	<p>It needs to be augmented with project execution also an open elective is to be made available for project management.</p>
<p>PO 12 : Lifelong learning. [Indicate Whether PO STATEMENT is relevant to the Information Science and Engineering Course]</p>	<ul style="list-style-type: none"> • 43% relevant. • 43% very relevant. • Remaining % cant say. 	<p>Most fundamental subjects need to be reinforced through brush up and crash courses in final year to attain life long learning and helps in placements.</p>

<ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 		
<p>PSO 1: An ability to develop logical reasoning, coding skills, analysis and mathematical modeling. [Indicate Whether PSO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 62% relevant. • Remaining % very relevant. 	<p>Current courses provide enough coding skills but higher level of coding is to be introduced.</p>
<p>PSO 2: Ability to modify, debug, test and adapt software modules for varied applications. [Indicate Whether PSO STATEMENT is relevant to the Information Science and Engineering Course]</p> <ul style="list-style-type: none"> • Very relevant • Relevant • Cant say • Less relevant • Least relevant 	<ul style="list-style-type: none"> • 62% relevant • Remaining % very relevant. 	<p>Professional skills are acquired through real life activities ,conference, workshops, Presentation etc.</p>