Consolidated Report

Conduct of Feedback for
"Design and Review of Syllabus"
2018-19

Guru Nanak Dev Engineering College, Ludhiana
NAAC Accredited Grade A, Autonomous College

The Consolidated Report document on **"Conduct of Feedback for Design and Review of Syllabus"** covers the following:

- Preamble
- Feedback Process of the Institute
- Student Feedback on Curriculum Questionnaire
- Student Feedback Analysis and Report
- Teacher Feedback on Curriculum Questionnaire
- Teacher Feedback Analysis and Report
- Alumni Feedback on Curriculum Questionnaire
- Alumni Feedback Analysis and Report
- Employer Feedback on Curriculum Questionnaire
- Employer Feedback Analysis and Report
- Concluding Remarks

Preamble

Regulatory bodies have mandate to set norms and standards for regulating the quality of educational institutes. Bodies like UGC and NAAC have policies and procedures to orient India's Education system to quality. Stakeholders need to orient their mindset to quality and then only we can dream of a system – that satisfies all.

Quality vs Quantity has always been a thought provoking issue. As key stakeholder, students are concerned about the expected outcomes. Since the technical education scenario is drifting from output based system to outcome based system, quality in such processes needs to be addressed. We need to ensure that the outcome parameters vis a vas the objectives are mapped and the programmes are in tune with the national policies with reference to the global trend.

Satisfaction of stakeholders including students, faculty, alumni and employers has always been a challenge. Since Quality is a benchmark on road to success and thus the improvement scope is bound to be there in any system.

Curricula Review feedback, is a process utilized by our institute to solicit information from a variety of sources on different aspects of the curriculum. Most often, information solicited in this feedback process includes feedback from all the stakeholders of the institute. Such feedback can also include, when relevant, feedback from external sources who interact with the Institute, such as peer group, examiners, alumni etc.
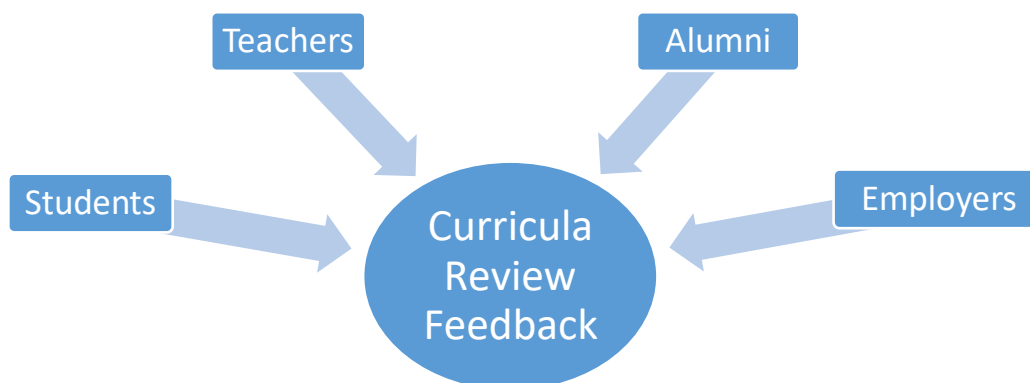
In our Insitute, feedback is collected from all the stakeholders by using online mechanisms (google forms). Online mechanism for collection of feedback uses online forms for which links are sent to the stakeholders. After collecting data from the
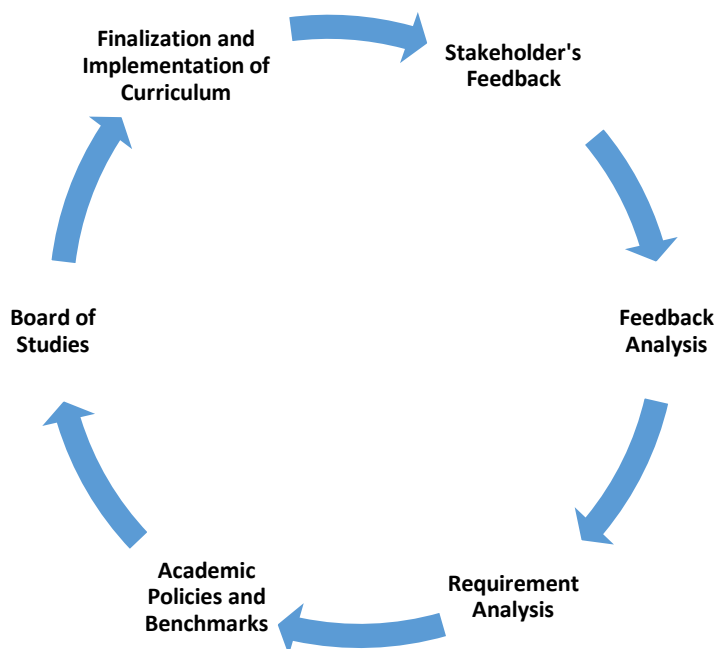
Stakeholders, the response sheet are being generated and analyzed thereof by using predefined parameters. Based upon the report, the departments take appropriate action. The department submits a copy of the report along with the action taken to the Internal Quality Assurance Cell (IQAC) for further action required if any.

Action Taken

Report
Preparation

Analysis of
Data

Generation of
Response Sheets

Stakeholders'
Input (Online)
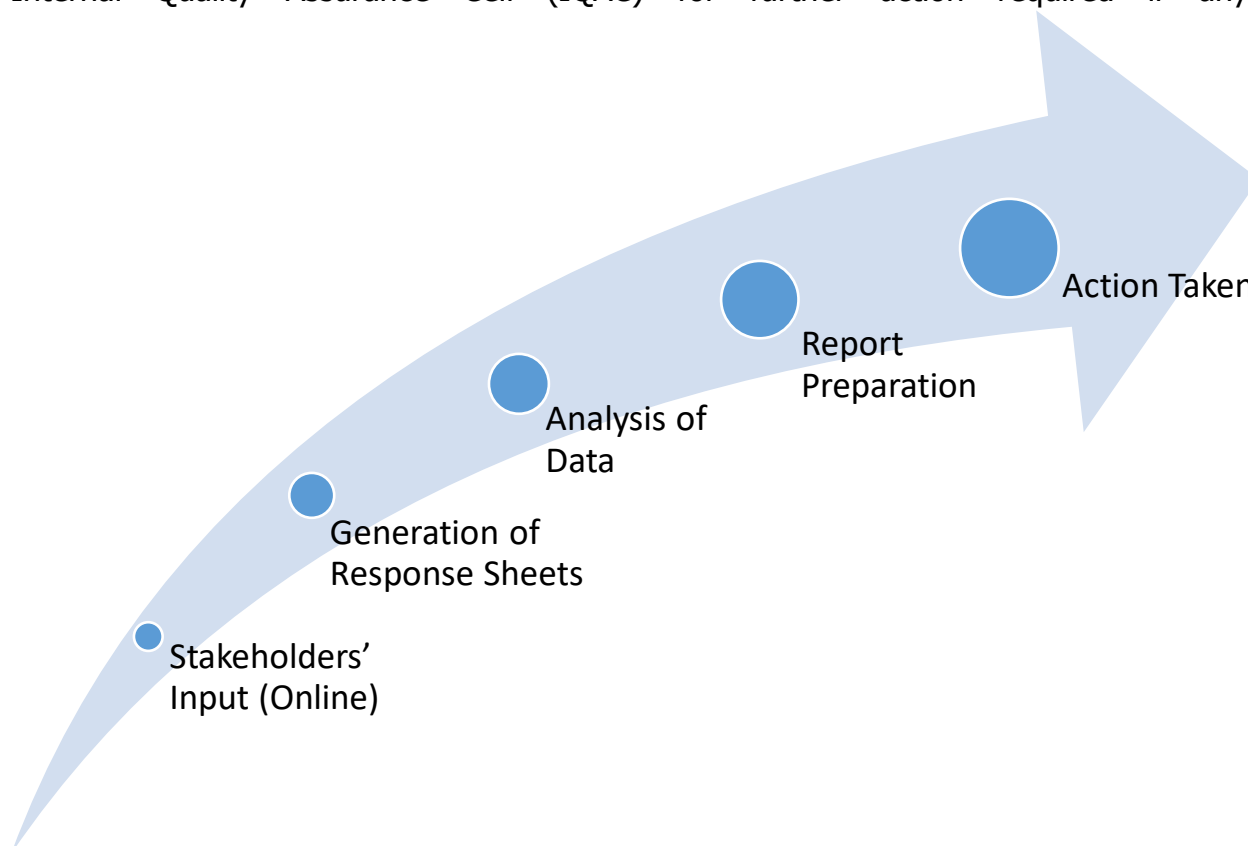
The prime aim of this feedback is to ensure that every student has access to competent and qualitative teaching which leads to vibrant academic, social and personal growth. The IQAC regularly monitors the activity along with other quality initiatives. We need to continuously incorporate such Quality Initiatives in our systems and follow them in letter and spirit for satisfaction of the stakeholders.

Feedback Procedure of the Institute

Curriculum is one of the crucial aspects of teaching learning process, so it requires regular and continuous assessment. Stakeholder's feedback plays a remarkable role in Curriculum Design and Development by providing useful insights for upgrading various aspects of teaching, learning, assessing and capacity. Designing and developing a curriculum demands proper need based inputs in proper consultation with experts. Our Institute has made all the required arrangements for getting proper feedback from students, teachers, alumni and employers on various curriculum related activities. Curriculum development comprises of following phases:

Finalization and Implementation of Curriculum → Stakeholder's Feedback → Feedback Analysis → Requirement Analysis → Academic Policies and Benchmarks → Board of Studies → Finalization and Implementation of Curriculum

The process of curriculum development for various programs starts with the assessment of the existing curriculum taking into consideration requirements of students, skills demanded by industry and job placements. The curriculum inspection comprises of information regarding syllabus planning and holistic experience about the program. This

exercise of gathering feedbacks on the curricula from our stakeholders were recorded once in every academic year.

In curriculum advancement and audit, the current curriculum undergoes through an exhaustive and detailed assessment process, which needs to experience different stages with an active contribution and commitment of students, instructors, alumni and scholastic specialists of other universities.

Guru Nanak Dev Engineering College, Ludhiana

Student Feedback on Curriculum

This questionnaire is intended to collect information regarding various aspects of the curriculum. The information provided by you will be used as an important feedback for improvement of the curriculum.

Please answer the following questions on the scale of 1 to 5 where 1 indicates little satisfaction and 5 indicates higher satisfaction.

Please mark a tick '√' in the appropriate cell.

B.Tech	M.Tech.	**Program:**

S.No.	Question	1	2	3	4	5
1.	The Syllabus of the courses that you have studied synchronizes with the competencies expected out of the course.					
2.	The units/sections in the syllabus are properly sequenced.					
3.	The curriculum has good balance between theory and practical.					
4.	Course content is covered by corresponding reference books/materials.					
5.	The syllabus generated interest in the subject area.					
6.	The course content of the subjects increased your knowledge and perspective.					
7.	Curriculum equipped you with necessary technical skills required by the industry.					
8.	The electives offered are in consonance with the technological advancements.					
9.	The practical courses give you an effective hands-on experience.					
10.	The laboratory experiments enhanced your understanding of the concepts and enabled you to relate theory to practice.					

Any other suggestions to improve the curriculum:

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└─────────────────────────────────────────────────────────────┘
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Your details (Optional):

    i)   Name:

    ii)   Roll no.:

    iii)   Signature with Date:

Student Feedback – *Analysis & Report*

Students' feedback is a prime factor for the enhancement of the learning environment and can help teachers to enhance their skills. It also nourishes teacher-student communication in classroom and assists to achieve excellence in teaching learning process. Feedback of around **1240 students** (Applied Science 98, Civil 283, CSE 190, EL 93, ECE 280, IT 146, MBA 61, MCA 24, ME/Prod. 54, Branch not mentioned 11) of various courses was collected in the session 2018-2019.

Course competency vs expectation

Professional development courses are of utmost importance in making students ready for industrial placements and various other competitions by enhancing their soft skills and analytical abilities. 10.89% of students are satisfied with the courses being offered for their professional enhancement while 32.74% have given their moderate consent and 11.37 % of students showed dissatisfaction for these courses.
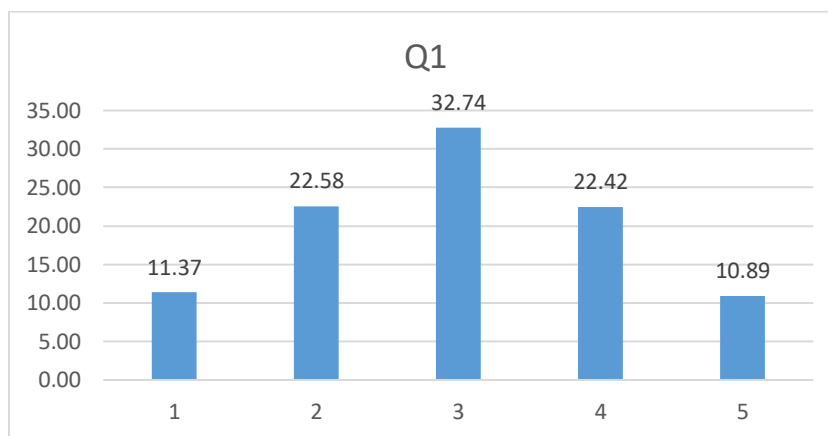
Sequencing of the units of the course

In order to make students learn in a better way, theory and practical courses should be included in the same term. Majority of students agreed that theory and concerned practical subjects are being taught in same term. 29.44% of students "Agree", 26.53% of students "Moderately Agree",15.65% of students "Strongly Agree" when asked about sequence and placement of courses in program scheme. On the other hand, only 19.11% showeddisagreement and 9.27% of students strongly disagreed about proper sequence of courses in program scheme. So it can be analyzed that a significant

percentage of students shows agreement on the proper placement of their courses in programme scheme.

Q2
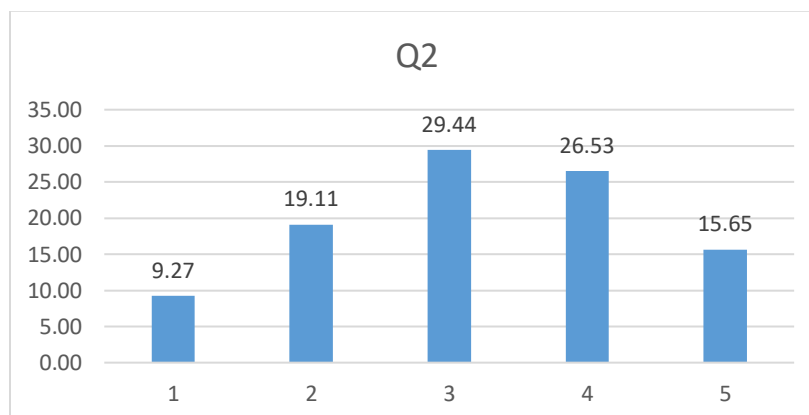
Effectiveness of theory and practical skills of the course

Approximately, 12.98% of the strength were "highly satisfied", while 20.65 % of participants "Moderately satisfied" about the assessment pattern adopted by the institute for individual course is useful in grasping the concepts application. A relative few count of 22.34% "Dissatisfied" and 13.63 % "highly Dissatisfied" students suggested for improvements in the existing lab manuals and planned academic tasks. Students showed strong agreement with the quality and content of assignments and Lab manuals given to them for practical courses. Some students suggested modification in the sequence of existing lists of experiments

Q3
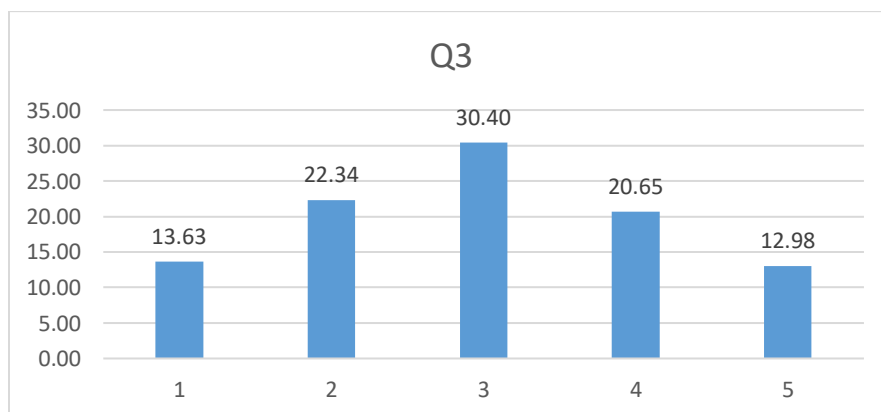
Prescribed book(s) are appropriate for this course

It can be clearly depicted from the graph that 29.35% of students showed satisfaction on book(s) recommended for a course provides vast information and knowledge about

the content included into syllabi. Only 11.37% of students highly Dissatisfied and stated that book(s) can be changed to fulfill the requirements of students. Around, 25% students are moderately satisfied on recommended book (s) for the courses.
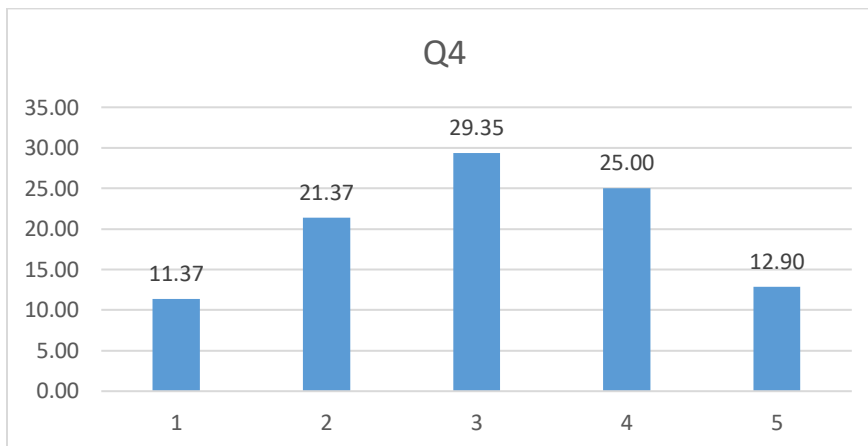
Effectiveness of the syllabus in the subject area

30.81 % of students shows satisfaction, while 20.48 % shows dissatisfaction for the Effectiveness of the syllabus in the subject area. Besides this, 24.11 % of the students gave higher consent to the meaningfulness of the syllabus.
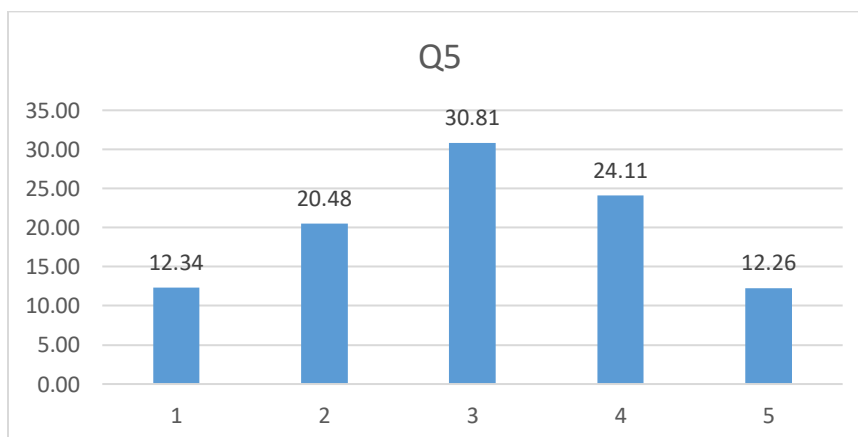
Adequacy of course content prescribe in the syllabus

Most of the teaching learning practices involve solving real life problems. Analysis of feedback received clearly shows that students find these courses applicable to real life problems. Approximately, 29.52% of the students were satisfied that the course content specified in the syllabus is appropriate and sufficient enough to understand the topics completely. Though, 12.02% of the students raised concern about the difficulty level of the prescribed content of the few courses. 25.97 % of the strength were

moderately satisfied and showed confirmation about the sequence and novelty of content .

Q6
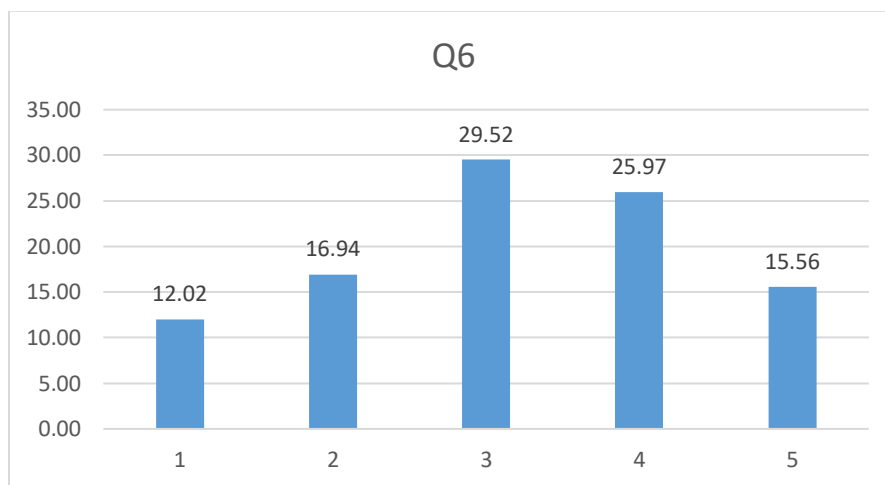
Curriculum helps in bridging the gap between industry and academic institution

The chart reveals the percentage of respondents. About 29.27% of the students agreed that their curriculum helped in bridging the gap between industry and academic institution. The curriculum integrate the skills required for industry. 21.69% student were moderately satisfied only 15.56% percentage of students are dissatisfied with the statement. Majority of students were benefited from the lectures being delivered by industry experts. The institute is aimed at providing outcome base and industry oriented interdisciplinary education meeting the diversified needs of students.

Q7
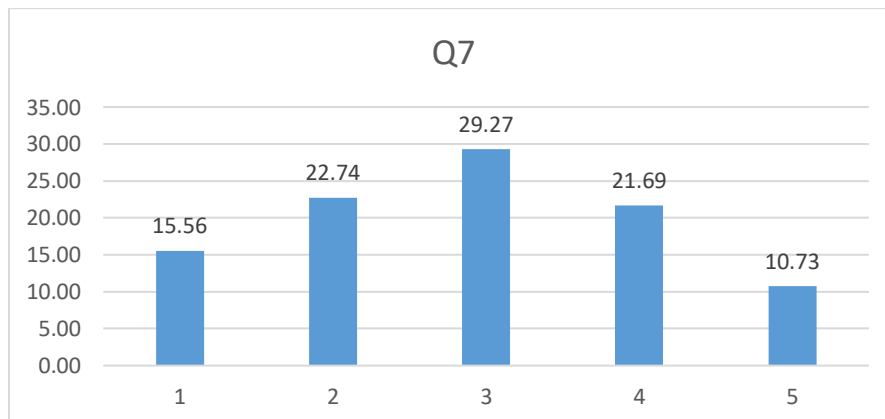
Meaningfulness of minor elective courses

Analysis of feedback received shows that 30.16% of students found the elective courses offered to them as useful and interesting, while 23.79% showed moderate agreement.

A small number of students (12.58 %) were not satisfied with the relevance of minor electives in the scheme. Students can opt for courses of their interest from diverse courses offered in the programme scheme. Majority of students showed their agreement on significance of these elective courses in getting job placements and fulfilling industry requirements.

Q8

Value	1	2	3	4	5
	12.58	22.10	30.16	23.79	11.37
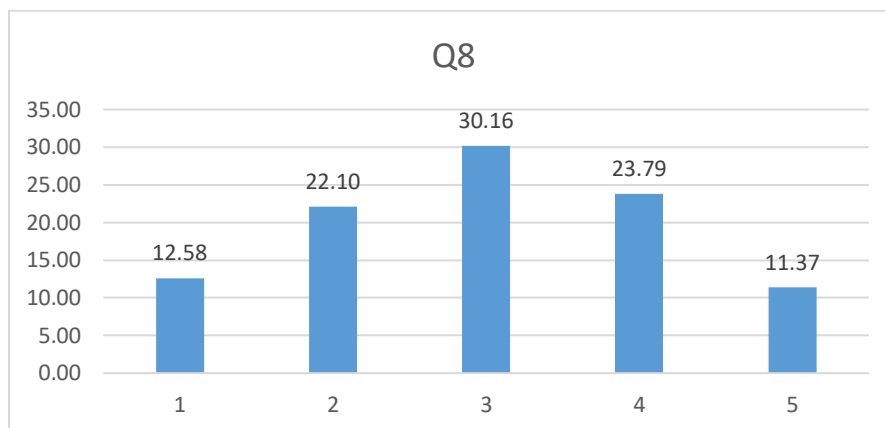
## Hands-on effectiveness of the course

The curriculum gives hands on experience to the students through projects, live projects, workshops, use of industry relevant software, study tours, industrial visits, industry trainings / internships etc. The chart reveals that the students' feedback on the curriculum give hands on experience through projects, live projects, workshops, use of industry relevant software. Moderately satisfied (23%) and little dissatisfied (13%) students' feedback has been analysed. Final semester students are encouraged to pursue live projects.

Q9

Value	1	2	3	4	5
	13.15	22.26	28.79	23.31	12.50
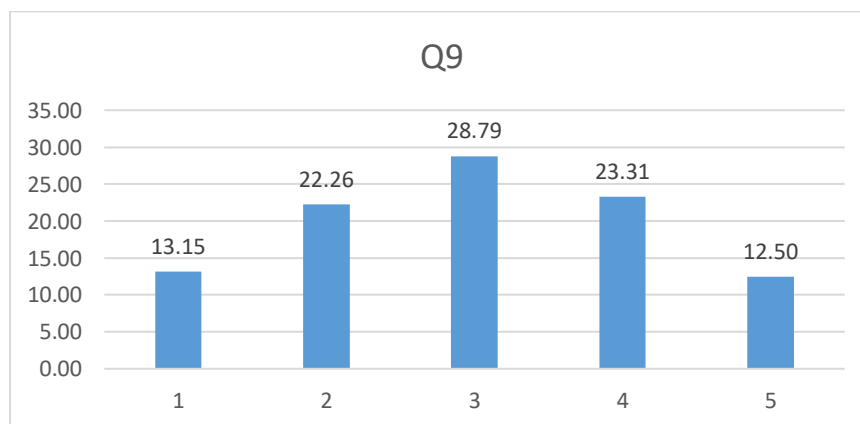
Academic tasks/Lab manuals are helpful in understanding the applicability of concepts

The students were surveyed on the effectiveness lab manual and academic tasks. Approximately highly satisfied (14%), highly dissatisfied (13%), "Moderately satisfied" (23.39%), "satisfied" (27.58%). In this manner, more than (66%) of individuals were satisfied that Academic tasks/Lab manuals are helpful in understanding the applicability of concepts.

Q10

Category	Value
1	13.63
2	20.56
3	27.58
4	23.39
5	14.84
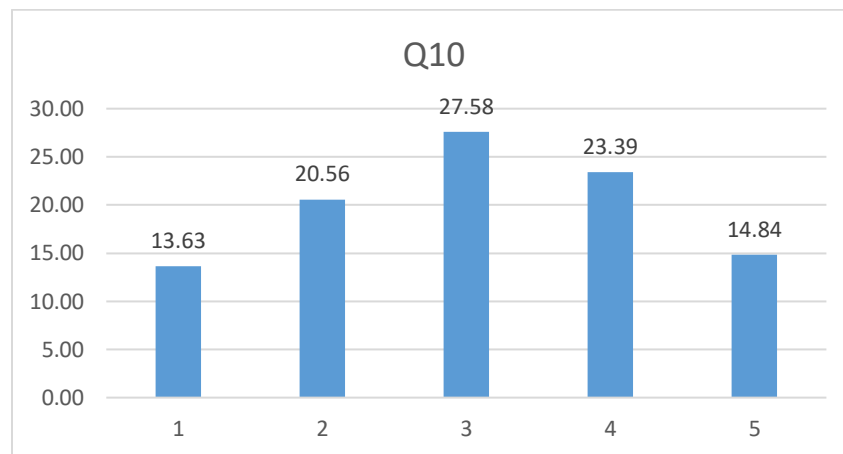
Further, the following points were also conveyed by the students

1. More monthly interactions between students and staff members of the Department.
2. Better infrastructure facilities and laboratory equipment
3. Timetable needs to be reviewed
4. More frequent Industrial visits for practical exposure
5. More emphasis should be given to practical classes and emerging trends
6. Advance technical instruments should be provided according to the present scenario and which would be used in times to come in industries.
7. Students feel overstressed many a times.

Teacher Feedback on Curriculum- *Questionnaire*

Teacher Feedback on Curriculum

This questionnaire is intended to collect information regarding various aspects of the curriculum. The information provided by you will be used as an important feedback for improvement of the curriculum.

Please answer the following questions on the scale of 1 to 5 where 1 indicates little satisfaction and 5 indicates higher satisfaction.

Please mark a tick '√' in the appropriate cell

S.No.	Question	1	2	3	4	5
1.	Syllabus is need based with respect to the recent advancements.					
2.	Aims and objectives of the syllabi are well defined and clear to teachers and students.					
3.	The books prescribed/listed as reference materials are relevant and updated.					
4.	The curriculum has good balance between theory and Lab.					
5.	The course content of the subjects improved student's knowledge and perspective.					

Any other suggestions to improve the curriculum:

Your Details:

i)   Name:
ii)   Designation:
iii)   Specialization:
iv)   Signature with date:

Teacher Feedback – *Analysis & Report*

It has been a regular practice of Institute to conduct course coordination meeting with all faculty members during the academic year. The agenda of these meetings is to improve the quality of pedagogy strategies adopted, course content, learning material supplied to students, performance of students, extension and research activities. Faculty members are asked to give their valuable suggestions and feedbacks about teaching learning process and research activities. Inputs provided by them are rigorously discussed and debated. Suggestions thus found useful are put forward for implementation. In accordance with these feedbacks, teacher is entitled to revise the course contents after getting a formal approval from the authorities. Feedback of around **127 teachers**(App Sc 1, Civil 36, CSE 21, EL 16, ECE 21, IT 18, MBA 3, MCA 2, ME 8, Prod Engg 1) of various courses was collected for the session 2018-2019.

## Updating curriculum with recent curriculum advancements

Keeping in consideration, the changes in trends and technologies of Industry and academics, syllabus is continuously updated by the Industry experts and academicians. External experts are invited for delivering expert lectures and have active interaction with students. Valuable suggestions which are provided by these experts are also incorporated periodically in the curriculum. Feedbacks from recruiters during the placement drives are also considered to make the students and curriculum prepared for Industry. The analysis depicts that more than 80% of faculties are satisfied with recent curriculum advancements. Around 2.36% faculties showed little dissatisfaction and 7.87% were not satisfied.
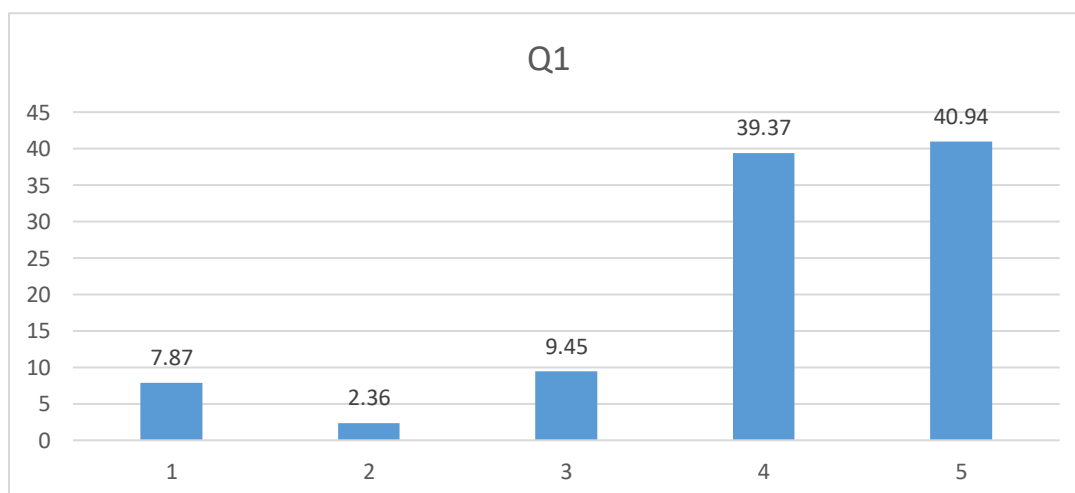
Breadth and depth of course content of the syllabus

Curriculum provides ample opportunities to the students to implement and illustrate their learning in various contexts by focusing more on depth of understanding and breadth of content coverage. The graph illustrates the percentage of respondents. Around 56.69% faculties agreed with the breadth and depth of course content of the syllabus, 24.41% agreed moderately, while 7.09% were found dissatisfied.
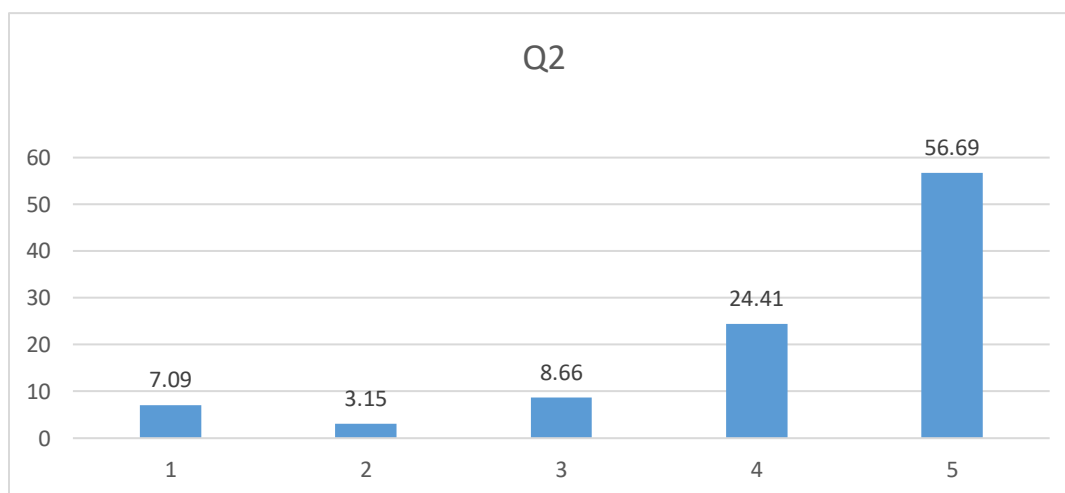

Prescribed book(s) are appropriate for this course

Textbooks and reference books are framework that helps students to organize and manage their learning. These are the most important resource of information about their course contents. Textbooks and reference books help students understand the concepts thoroughly and make them familiar with the course. Thereby helping them to achieve the desired course outcomes. The graph displays the percentage of respondents. As per the survey, 47.24% of teachers observed the availability of text books and reference books for the students, 29.92% agreed moderately and 7.87% disagreed.

Q3
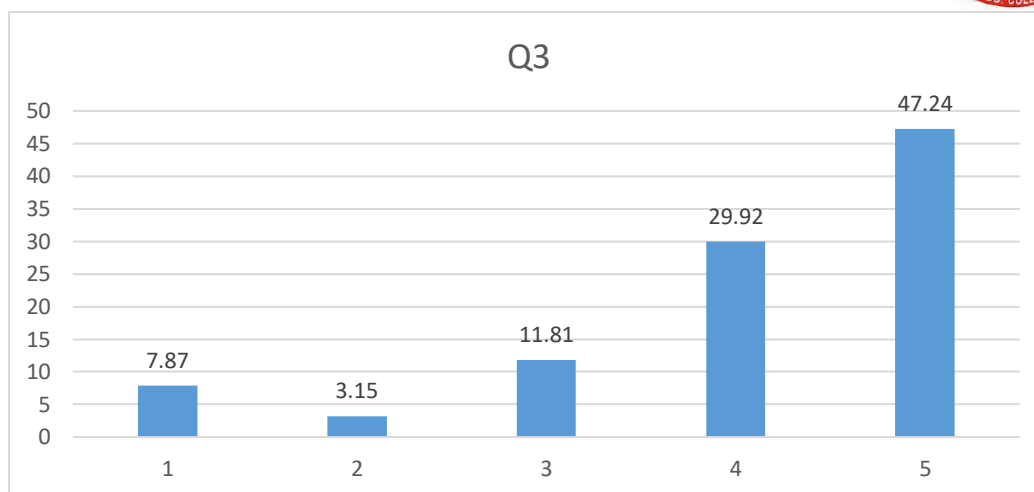
## Practical and theoretical amalgamation of the course

Classroom activity planning is a significant step for keeping the instructions organized and in order, thereby helping the teachers to deliver efficaciously. Lab manuals are carefully designed to implement procedural working of lab experiments and to attain desired course outcomes. Lab Manuals are well versed with properly explained course learning objectives, procedures and precautions. The graph depicts the percentage of respondents. As per this analysis, it was found that 48.82% of faculties were highly satisfied about the preparedness of academic tasks and practical experiments as per the instruction plans. It was found that 30.71% of teachers agreed moderately and a small strength of 8.66% teachers showed disagreement.

Q4
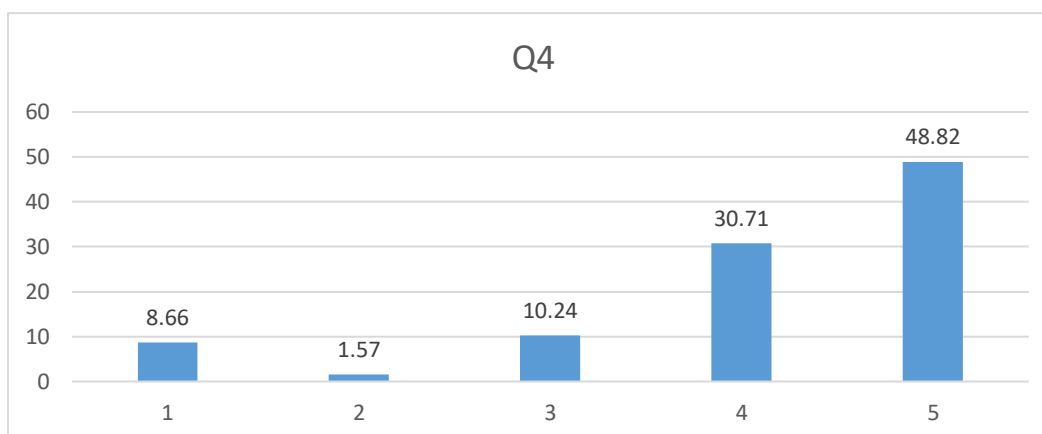
Effectiveness of the course with respect to students' knowledge

Learning levels from academic task are evaluated through various activities for example worksheets, class tests, assignments, quizzes, sessionals, practicals, design problems, projects etc.The above chart explains the percentage of respondents. A majority of 55.12% teachers were highly satisfied with the level of learning from academic tasks, 27.56% moderately satisfied and 7.09% showed dissatisfaction with the above mentioned statement.
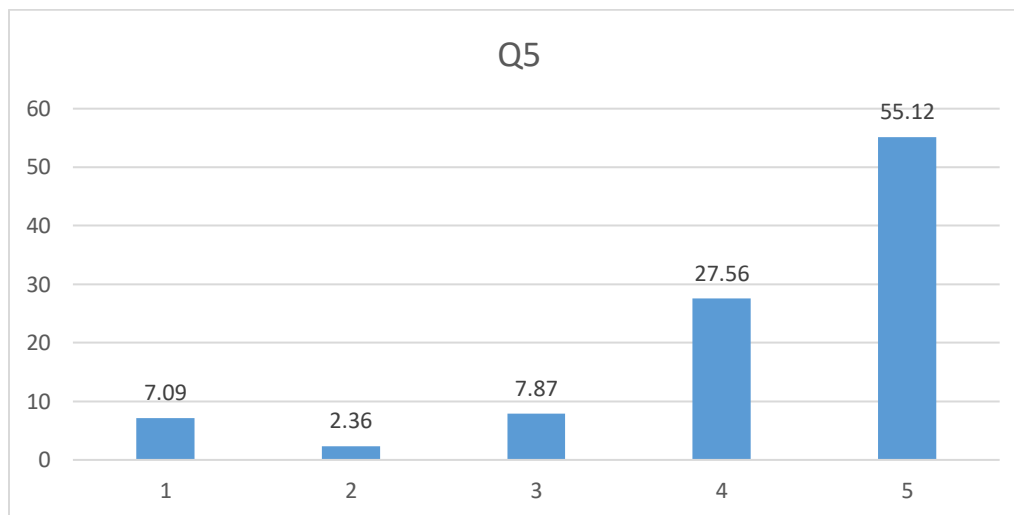
Further, the following points were also conveyed by the teachers:

1. Practical and industry oriented training needed
2. For some subjects, such as Materials Testing & Evaluation, one more lecture in the form of lab work is needed to explain and show the actual material response under loads
3. The syllabus contents are lengthy, cannot be covered effectively within prescribed time. Contents of the syllabus needs revision.
4. New syllabus as AICTE need to be redesigned as per local condition of state
5. Some NPTEL courses should become the part of degree as subject
6. There should be vocational courses available for students
7. More industrial participation should be there in syllabus design

Alumni Feedback on Curriculum- *Questionnaire*

Guru Nanak Dev Engineering College, Ludhiana
Alumni Feedback on Curriculum

Dear Alumni,

It gives us immense pleasure to reconnect with you. We hope you have been doing exceedingly well in your career. We are confident that your stay with GNDEC has enabled you to imbibe the process of life-long learning and to take up challenging careers. We are sure you were sufficiently equipped not only to take on the real world but also to make it a better place to live, through responsible and innovative use of technology.

We solicit your feedback on attainment of the student outcomes (the knowledge, skills, attitude that you developed during the course of study at GNDEC and subsequent work experience) of UG/PG program. Please answer the following questions on the scale of 1 to 5 where 1 indicates little satisfaction, and 5 indicates higher satisfaction.
Please mark a tick '√' in the appropriate cell

S.No.	Question	1	2	3	4	5
1.	The current syllabus is adequately updated from the one followed during your course of study.					
2.	Does the curriculum has the ability to find solutions to real life/practical problems in industry through the use of technical knowledge?					
3.	Does the curriculum have reasonable practical and laboratory skills for analysis and design?					
4.	How do you rate the curriculum with respect to professional ethics and behavior?					
5.	How do you rate the curriculum in written and oral communication abilities?					
6.	Does the curriculum has ability and will to engage in a process of continuous learning to meet the current job requirements?					

7.	Overall satisfaction for the current program in meeting its educational objectives.					

Any Comments:

Your Details:

    i)   Name:

    ii)   Batch:

    iii)   Current Organization:

    iv)   Signature with Date:

Alumni Feedback – *Analysis & Report*

In the session2018-19, our institute collected and analyzed the feedback from more than 100 alumni of various courses. Valuable suggestions made by the alumni are put forward before the Academic Council for rigorous discussion and their possible inclusion in the curriculum. Following are the graphical representations of alumni responses:

Evolution of the curriculum with times per the feedback by alumni, Curricula offered by institute are well mapped with a number of national and international competitive examinations. Keeping the ever changing trends and technologies of Industry and academics, syllabus is continuously updated using the valuable suggestions provided by the Industry experts, academicians and employers. 32.67% of alumni are highly satisfied with the courses being offered while 28.71% have given their moderate consent and 9.9 % of alumni showed dissatisfaction for the above stated criteria.
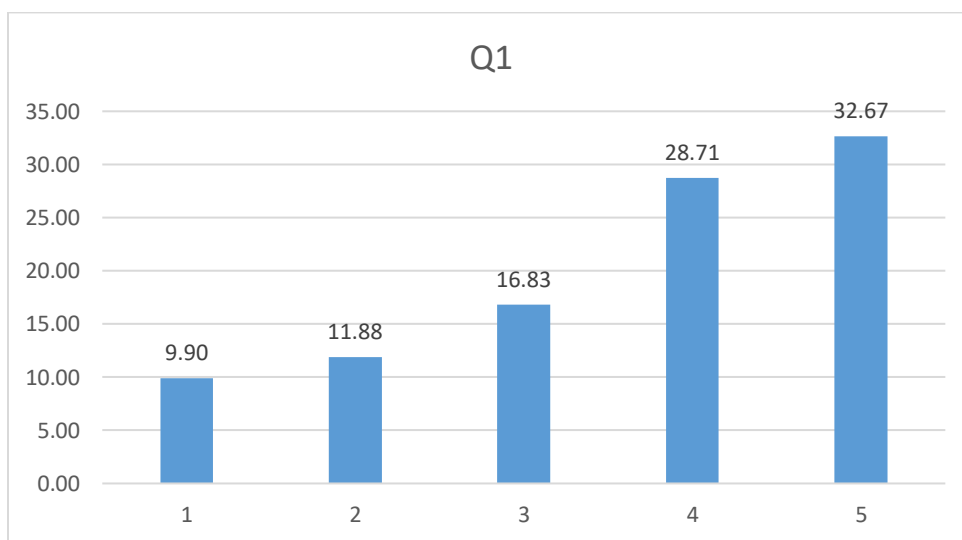
Curriculum has helped in solving real life problems

Majority of alumni has agreed that most of the teaching learning practices involve solving real life problems. Analysis of feedback received clearly illustrates that students find these courses applicable to real life problems and the course content specified in the syllabus is appropriate and sufficient enough to understand the topics completely.

Approximately, 23.76 % of the strength were "highly satisfied", while 33.66 % of participants "Moderately satisfied" about the assessment pattern adopted by the institute for individual course is useful in grasping the concepts application. A relative few count of 13.86% "Dissatisfied" and 7.92% "highly dissatisfied" alumni suggested for improvements in the contents.

Q2

A bar chart titled "Q2" showing the following values:
- Category 1: 7.92
- Category 2: 13.86
- Category 3: 20.79
- Category 4: 33.66
- Category 5: 23.76

The y-axis ranges from 0.00 to 40.00 in increments of 5.00.
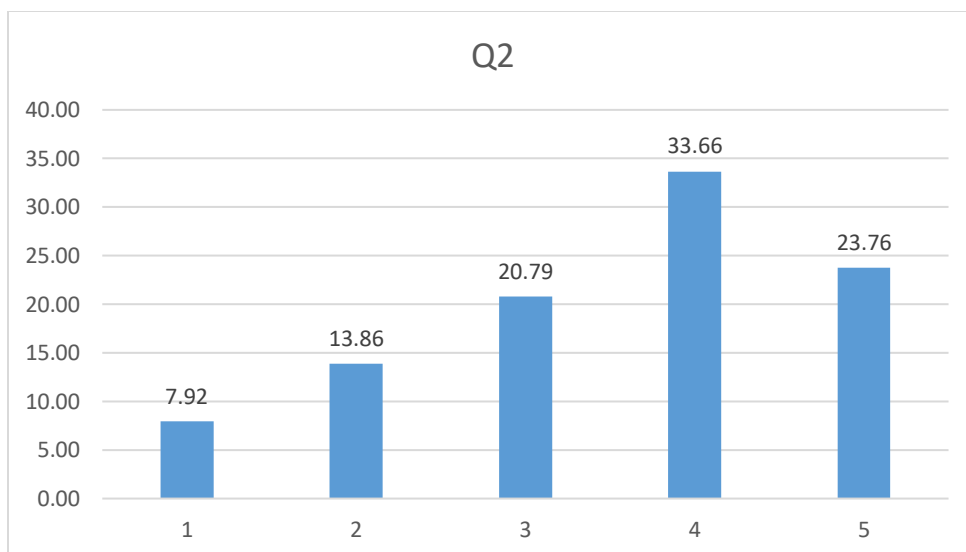
Practical and theoretical amalgamation of the course

In order to assure that students learn in an efficient way, theory and practical courses are be included in the same term. Students learn various concepts in classroom sessions and are provided opportunity to implement the learned concepts in the same semester. The graph depicts the percentage of respondents. As per this analysis, it was found that 31.68% of alumni were highly satisfied about the preparedness of academic tasks and practical experiments as per the instruction plans. It was found that 27.72% of alumni agreed moderately and a small strength of 8.91% alumni showed disagreement.
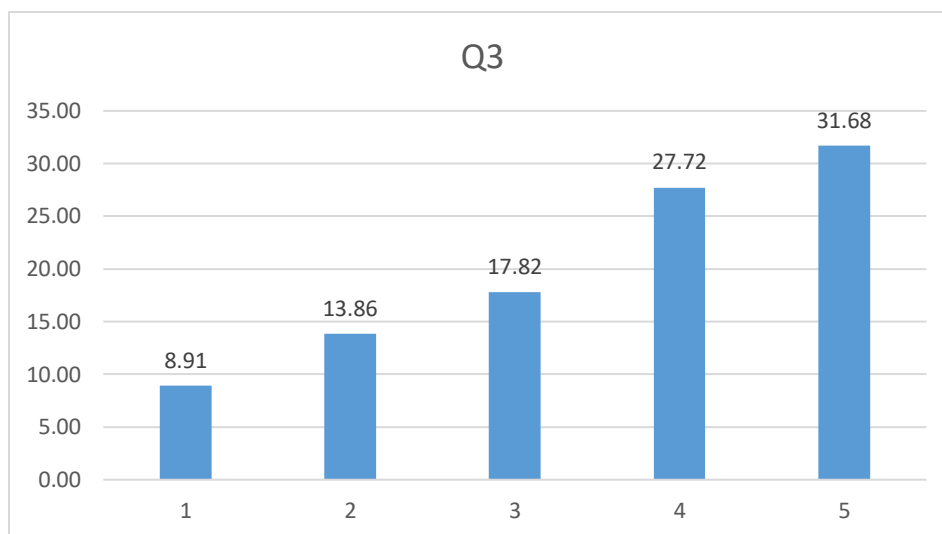
Professional ethics and behavior inputs in the curriculum

Curriculum comprises not only the theoretical knowledge but also designed in a way to inculcate the professional and behavioral ethics in the student so as to make them presentable and ready for outside world. 24.75% of alumni are highly satisfied and 33.66% of them were moderately satisfied with the Professional ethics and behaviour inputs in the curriculum while 6.93 % of alumni showed a little dissatisfaction.
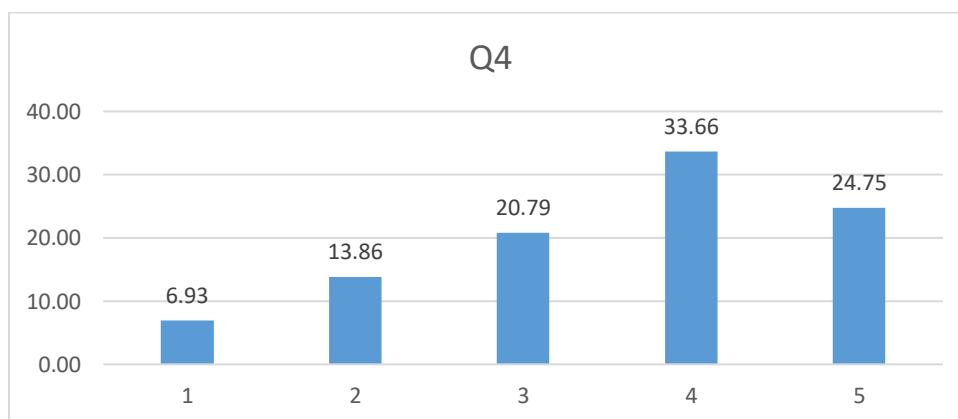

Professional Enhancement/Communication skills input in the curriculum

Curriculum is well designed with inclusion of Professional development and communication skill courses. Communication skill courses make the students competent enough to effectively deal with various conflicts. Students learn to be part of difficult conversations confidently and to use nonverbal communication skills like gestures, body-language and voice tones effectively. More than 50% of alumni were satisfied

with the level Professional Enhancement/Communication skills input in the curriculum, and nearly 23% showed dissatisfaction with the above mentioned statement
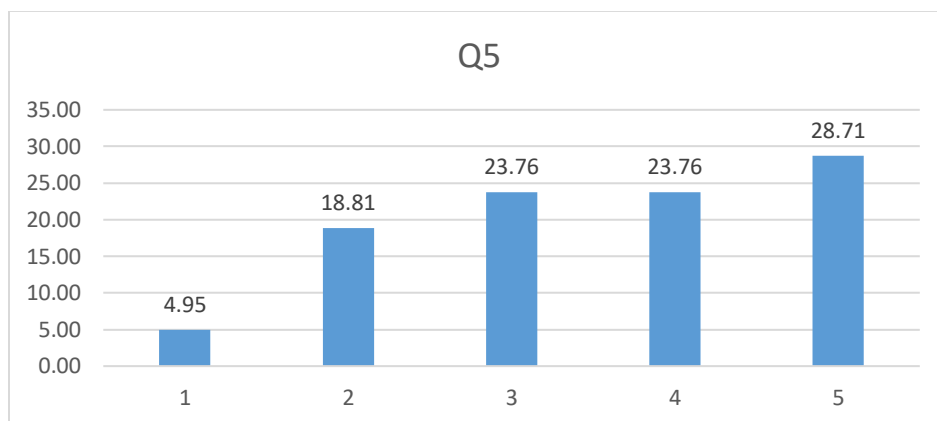

Curriculum has helped in meeting the job opportunity and placements

As per the feedback received from alumni, the institute curriculum is well mapped to cater the requirements of industries and society. Courses such as cloud computing, disaster management, gender equality, human values, AI, big data, women empowerment, peace and conflict etc. Various communication skill courses and personality development courses are being taught in the class and many workshops are conducted as a part of curriculum which help the students in getting better placement opportunities. The graph depicts the percentage of respondents. As per this analysis, it was found that 31.68 % of alumni were highly satisfied in this context. It was found that 22.77% of alumni were satisfied moderately and a small strength of 11.88% alumni showed dissatisfaction.

Q6
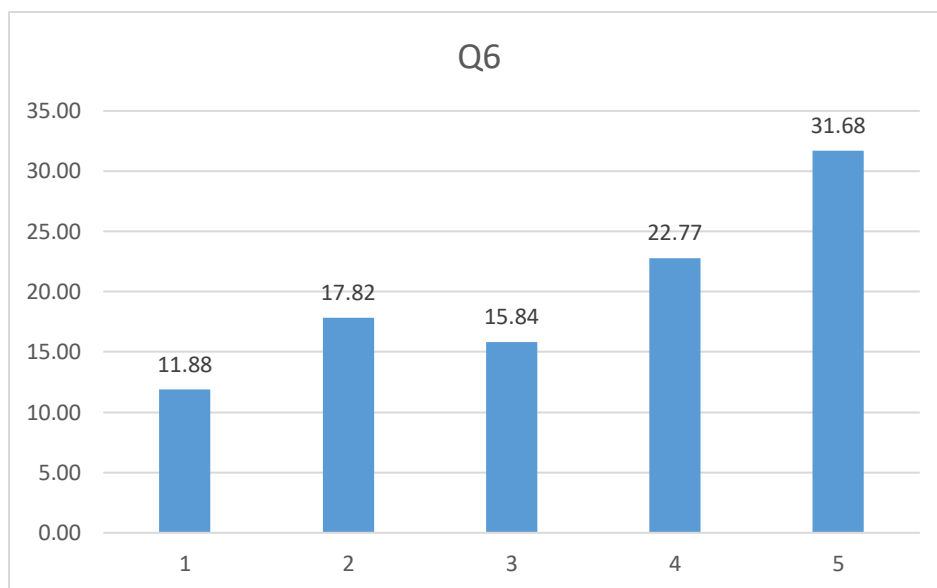
Overall Satisfaction with respect to educational Objectives

Alumni responded with strong agreement when asked about the overall satisfaction with respect to educational objectives. Curriculum has well mapped educational objectives and learning outcomes.The analysis depicts that more than 70% of alumni were satisfied with recent curriculum with respect to educational objectives. Around 7.92% alumni showed little dissatisfaction and 9.9% were not satisfied.

Q7
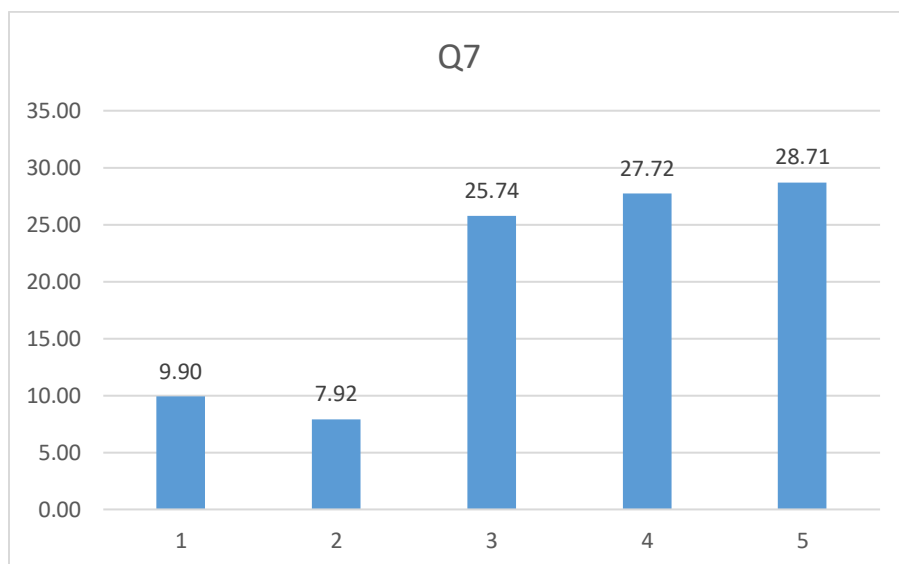
Further, the following points were also conveyed by the alumni:

1. Communication skills, discipline, Staff affiliation with students needs improvement
2. Regularization of the staff is also a concern
3. Focus on the recent and emerging technologies
4. Include industry visits in curriculum.
5. Modify syllabus of Core Subjects according to competitive exams like GATE, CAT etc
6. Students must be exposed to the global Education System
7. Hands-on training must be introduced for the students

Employer Feedback on Curriculum- *Questionnaire*

Employer Feedback on Curriculum

This questionnaire is intended to collect information regarding various aspects of the curriculum. The information provided by you will be used as an important feedback for improvement of the curriculum.

Please answer the following questions on the scale of 1 to 5 where 1 indicates little satisfaction, and 5 indicates higher satisfaction.

Please mark a tick '√' in the appropriate cell

S.No.	Question	1	2	3	4	5
1.	Do our students have the ability to find solutions to real life/practical problems in industry through the use of technical knowledge?					
2.	Do our students have reasonable practical and laboratory skills for analysis and design?					
3.	How do you rate our students with respect to professional ethics and behavior?					
4.	How do you rate our students in written and oral communication abilities?					
5.	Do our students have ability and will to engage in a process of continuous learning to meet the current job requirements?					
6.	How do you rate professional capabilities of our students with respect to students from other institutions?					

Any Comments:

Your Details:

    i)   Name:

    ii)   Designation:

    iii)   Organization:

    iv)   E-mail:

    v)   Signature with Date:

Employer Feedback – *Analysis & Report*

For session 2018-19, feedback was collected from 15 employers on various programme scheme and syllabus offered by GNDEC, LUDHIANA through online/offline mode. Proper and periodic analysis of feedbacks provided by various stakeholders helps a lot in constantly improving teaching-learning process. Regular feedback from industry experts, employers during placement drives, workshops, guest lectures and Board of Studies is sought by the institute. A detailed analysis and corrective actions on the collected suggestions is performed, followed by corrective measures taken with proper Action Taken Report.

Feedback sought from employers allows the design and development of relevant programs with ease of flexibility to match the personal and professional requirements of the students as well as employers.

Ability of our students to find solutions of the real life problems

As per the feedback analysis, a large number of employers are contended with the course contents being taught as the syllabus is regularly updated to meet existing technological trends. The chart explains the percentage of respondents. A majority of 60% employers were satisfied with the Ability of our students to find solutions of the real life problems and 6.67% showed dissatisfaction with the above mentioned statement.
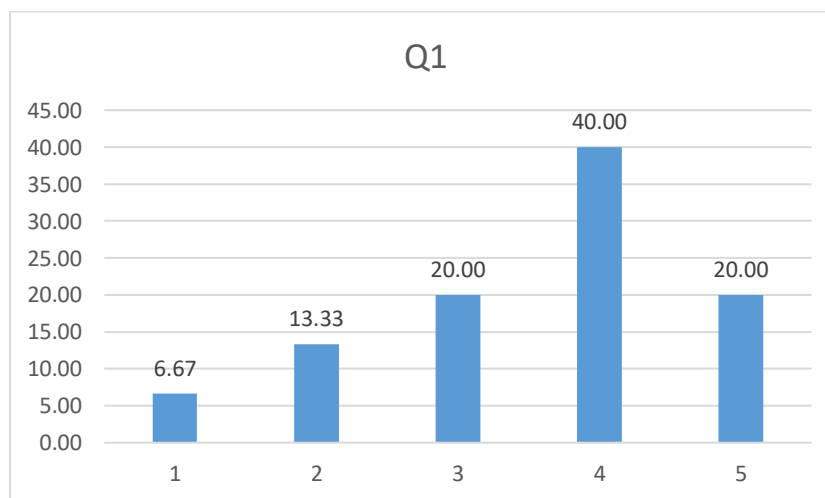
## Practical and theoretical knowledge of our students

Curriculum is designed to have theoretical and practical amalgamation of the course. Students learn various concepts in classroom sessions and are provided opportunity to implement the learned concepts in the same semester. Analysis of feedback also shows that the lab **equipment**, chemicals, instruments, apparatus, hardware, software and other resources are available as per the need of course. More than 70% of our employers are highly satisfied with the Practical and theoretical knowledge of our students whereas nearly 20% of them feel dissatisfied with the same.

Q2

Bar chart showing values: 1 = 6.67, 2 = 13.33, 3 = 6.67, 4 = 60.00, 5 = 13.33, 6 = (none). Y-axis ranges from 0.00 to 70.00.
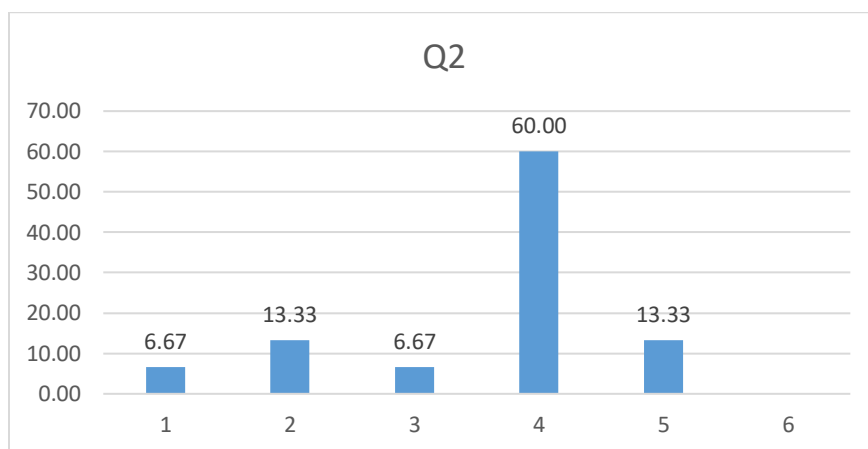
Professional ethics and behavior of our students

Course Curriculum is designed in a way to inculcate the professional and behavioral ethics in the student so as to make them presentable and Industry ready. Besides the subject knowledge, students are taught moral values and ethics to become a responsible citizen. This can be easily seen through the chart as 100% employers are satisfied on this ground of Professional ethics and behavior of our students.
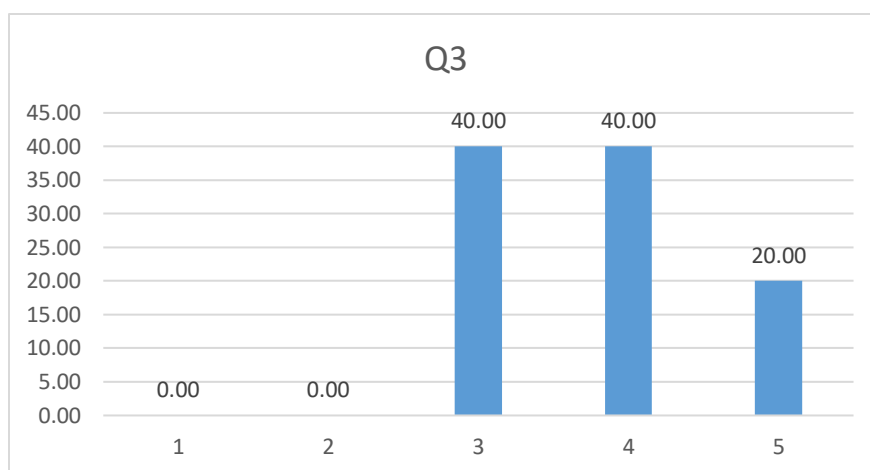
Professional enhancement/Communication skills capabilities of our students

Students are guided by their mentors to be technically and professionally sound. Also various communication skills courses offered help them to be confident and present themselves in assertive manner. Avery few 6.67% feel dissatisfied with Professional enhancement/Communication skills capabilities of our students however more than 90% of them are satisfied.
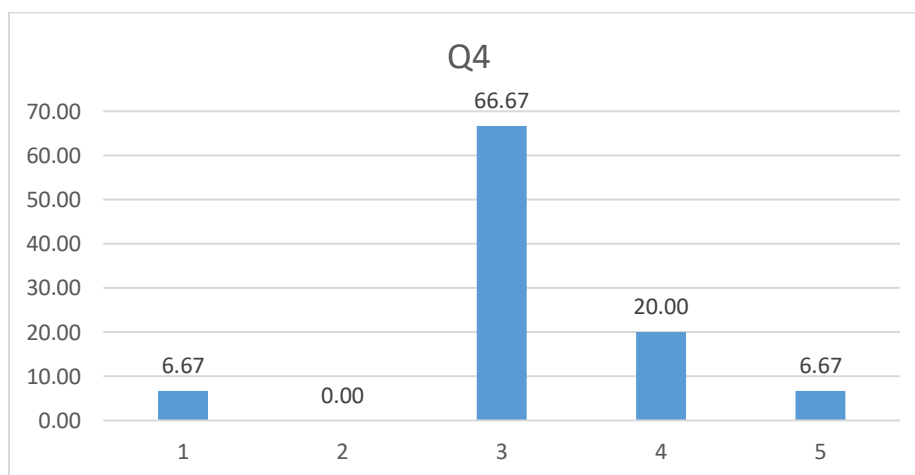

Students' will and ability to meet job requirements

Faculty mentors, guides and motivate students so that they can believe in themselves and encourage them to take part in every cultural, technical, academic event, as doing so adds to the students' personality. As the chart shows that our students are very willing to learn the job requirements, 20 % of our employers are highly satisfied and more than 45% are moderately satisfied and 20% are satisfied whereas almost 14% feel dissatisfied in this regard.
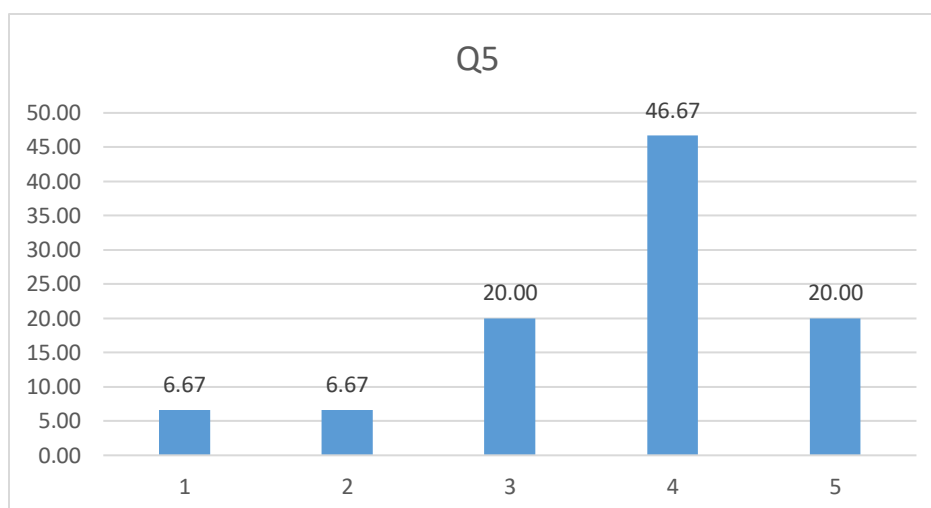
Q5

Professional capabilities of our students with respect to students of other institutions

Majority of the employers has given strong agreement about the professional capabilities of our students. Curriculum is flexible enough to adapt the latest technology trends which help the student to be updated with latest software and hardware technologies. As the chart depicts that almost all of our employers are satisfied with the Professional capabilities of our students with respect to students of other institutions.

Q6
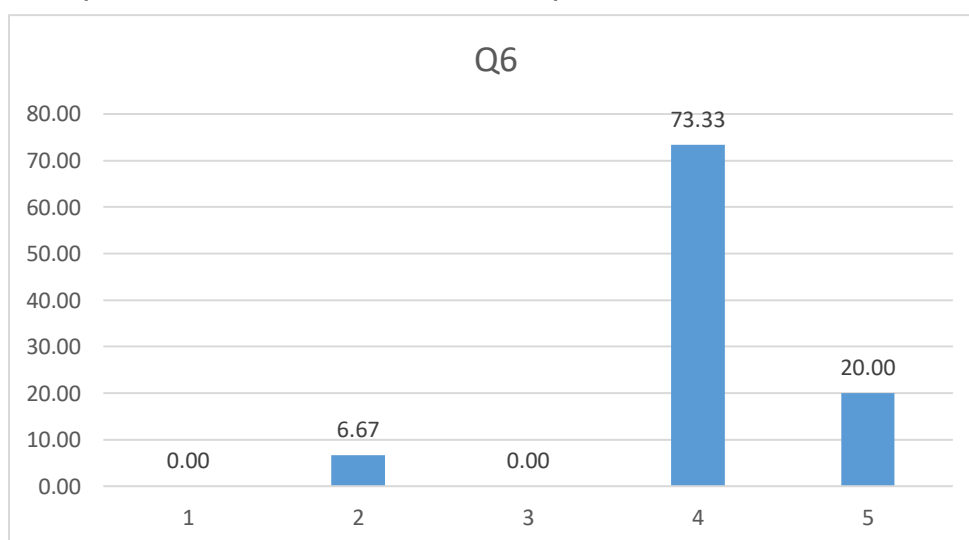
Further, the following points were also conveyed by the employers:

1. More emphasis should be given to the practical aspects of learning.
2. Python should be added to the curriculum. Not only as basic coding but the real world ML/AI implementation.
3. In last 2 years concentrate on product/project based teaching. Like creating small groups and assigning some development based courses.
4. Most students are not able to do Adapt continuous experimentation Mindset
5. Improve communication skills of the students.

Concluding Remarks

The Institute obtains feedback from various stakeholders in different sessions, using prescribed Performa, towards the end of every academic year. Online feedback about the curriculum is taken from the students using google forms prior to the end of semester.

The current report indicates the promptness and enthusiasm of the stakeholder in participation. The feedback from about 1500 stakeholder indicates their overall satisfaction on the asked aspects. The average score for the stakeholders (on a scale of 5) is as under:

Students:3.03

Teachers: 4.11

Alumni: 3.54

Employer: 3.64

The details of the feedback including the analysis & excel sheets is provided the departments which in turn have a careful look at the responses. Feedback thus received is duly considered during the review process of curriculum. A meeting of curriculum review committee is organized to assess the compiled feedbacks received from all stakeholders. After rigorous discussion on the valuable inputs given in the feedback, curriculum review committee performs various modifications in the curriculum, still keeping it consistent with existing scheme. These changes are proposed in Board of Studies meeting / IQAC after thorough analysis of feedback. Suggested modifications are incorporated in the curriculum on the recommendations of the BOS members / IQAC.

Similarly, for the open ended questions, some respondents have given different suggestions. The same are also conveyed to departments and are analyzed carefully with a positive bent of mind and are duly considered while designing the syllabus.

Guru Nanak Dev Engineering College, Ludhiana
Department of Civil Engineering

Feedback analysis of stakeholders for academic year 2017- 2018

Teachers feedback analysis: Teachers given feedback for inclusion of subject which will improve technical writing skills of students. They also suggested for training of students in three dimensional modelling softwares.

Alumni feedback analysis: They given suggestions for enhancement of mathematical computation capabilities of students by introduction of some software in this field.

Students feedback analysis: After analysing the feedback given by students. It has been observed that they want practice on software in the field of geographical information system in addition to current syllabus and hands on practice in python language.

These suggested changes can be taken into consideration during curriculum revision.

(Dr.Gurdeepak Singh)   (Dr.Naverpreet Kaur)   (Prof.Prabhjot Singh)   (Prof.Pritpal Kaur)

Analysis of Stakeholder's Feedback on Curriculum 2017-18
Computer Science and Engineering Department

Student Feedback Analysis: It is analysed that the students found all the subjects appropriate but they wanted theory and practical work to be balanced (Point 3). They also suggested that they need more practical knowledge and they wanted more elective subjects to be introduced. Students wanted introduction of study subjects related to employability and having industry ready content.

Teacher Feedback Analysis: Interactive teaching techniques use was suggested by faculty members to improve teaching-learning process. Some faculty members suggested removing the obsolete syllabus contents from subjects like Java programming, Fundamentals of computer programming & IT and Compiler Design. Also a concern was shown by some faculty members to reduce unnecessary practical hours of software engineering according to the course content. The faculty expected that the new scheme containing the latest in technology subjects would make students industry ready.

Alumni Feedback Analysis: Alumni were satisfied with the current curriculum. Addition of more electives and removal of obsolete technologies was recommended. Introduction of more laboratory subjects was suggested and it was also advised that more number of hours should be devoted to the programming language subject labs.

1st June, 18

Dr. Parminder Singh   Pf. Diana Nagpal   Pf. Jasdeep Kaur

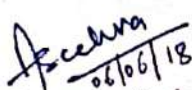(Coordinator, Feedback Analysis Committee)   (Members, Feedback Analysis Committee)

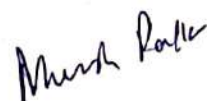# Guru Nanak Dev Engineering College, Ludhiana

Department of Electronics and Communication Engineering

Feedback analysis of stakeholders for academic year 2017-2018

- **Teachers feedback analysis:** Teachers found that the course content is satisfying the current needs of society and also recommended the following points for consideration:

  - ➤ IoT can be included.
  - ➤ VLSI design automation related practicals can be added so that knowledge of students on various CAD tools can be enhanced.

- **Alumni feedback analysis:** Overall, alumni found the curriculum useful in terms of fulfilling educational objectives and also suggested "data analytics" for inclusion in syllabus.

- **Students feedback analysis:** It was observed from the feedback that students are capable to apply the knowledge and tools in the specific application and also provided the following points as feedback:

- ➤ Control system lab can also be introduced so that theoretical aspects can be implemented practically.

- ➤ Technical report writing based subject should be taught.

- ➤ Python language can also be taught along with the other programming languages which are already being offered.

These suggested changes can be considered during curriculum revision.

Prof. Ameeta Seehra   Dr. Munish Rattan   Dr. Baljeet Kaur   Prof. Harwinder Kaur

(Chairman)   (Member)   (Member)   (Member)

EMPLOYER SURVEY ANALYTICS (ELECTRICAL ENGINEERING)

The employers appreciated the improvement of the curriculum content. The industry needs graduates who have more flexibility and have learnt varied subjects. Subjects related to interdisciplinary fields, like Artificial Intelligence, Smart Grids etc, need to be introduced to make graduates industry ready.

ALUMNI SURVEY ANALYTICS (ELECTRICAL ENGINEERING)

Industrial training requirements and multidisciplinary environments creation for the students were the areas where alumni want stress on. Also, introduction to the latest subjects in the field and removal of obsolete subjects was comprehended. Subjects like microprocessors, control systems needed a serious review or removal from the curriculum was suggested by the alumni.

STUDENTS SURVEY ANALYTICS (ELECTRICAL ENGINEERING)
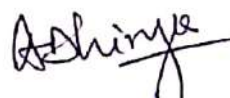
As per the requirements and concerns shown by students regarding placements and higher education in multidisciplinary fields, electives introduction in the curriculum content needs to be encouraged and programs like orientation and induction training programs were needed.

TEACHERS SURVEY ANALYTICS (ELECTRICAL ENGINEERING)

Satisfaction was shown by the faculty as far as computational tools and techniques introduction in the course was concerned. The faculty expected that the new scheme containing the latest in technology subjects would make students market ready.

Pf. Shivani Abrol

(Member, Feedback Analysis Committee)

Dr. Arvind Dhingra

(Co-Coordinator, Feedback Analysis Committee)

Dr. K D Singh   31st May 18

(Coordinator, Feedback Analysis Committee)

Guru Nanak Dev Engineering College

Department of Information Technology

Feedback Analysis on Curriculum

Session: 2017-18

Student Survey Feedback Analysis:

Suggested to provide trending system and languages. Subjects like machine learning python were suggested. Their should be balance between theory and practicals.
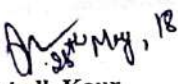
Teacher Survey Feedback Analysis:

Cirriculum of human computer interaction and management information system needs to be revised slightly. Internet methologies subject should be merged with Web technologies. Their will be tutorial classes of only practical subjects. Laboratory hours an be increased weekly.

Employer Survey Feedback Analysis:
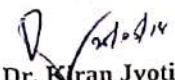
Overall good feedback they suggested few lack in practical impementation which can be improved. More coding hackathons will be useful , practicing online has to be encouraged and enforced.

Alumni Survey Feedback Analysis:

Industry visit and industrial knowldge must be provided time to time.

28th May, 18

Prof. Ranjodh Kaur

(Member Feedback Analysis Commitee)

21.04.14

Dr. Kiran Jyoti

HOD (IT)

(Coradinator,
Feedback Analysis Commitee)

Students:

Analysis 2017-18

- 80 % of the students have said that the syllabus is competent enough in the modern competitive era.

- Regarding the syllabus being properly sequenced nearly 78 % agreed.

- About 80% of students found that the syllabus was very well balanced between theory and practical.

- With respect to the course content being covered by corresponding reference books, nearly 85% marked it very good.

- Approximately 72% of student showed that their interest in particular subject was generated with content of course or syllabus

- More than 83% of students have said that the course content of the subject has enhanced their knowledge and perspective.

- Whether the curriculum is equipped with necessary technical skills required by the industry, approximately 80 % of students found the curriculum was helpful.

- Regarding the elective offered are in consonance with technological advancements nearly 85 % strongly agreed.

- The nearly 85 % student showed that the practical course give them an effective hands on experience

- With the laboratory experiments, 92 % student found enhanced you understanding of the concepts and enabled them to relate theory to practice.

Dr. Harwinder Singh
Incharge
Feedback and Analysis Committee
Mechanical Engineering Department

Prof. Pushpinder Singh
Member
Feedback and Analysis Committee
Mechanical Engineering Department

Teachers:

Analysis 2017-18

1. 90 % of the teachers have said that the syllabus is need based with respect to recent advancements .
2. Regarding aim's and objectives of syllabus, 88% of teachers answered that it is well defined and clear to teachers and students.
3. The 91% of teachers said that books listed as reference material are relevant and updated.
4. 93% agreed that curriculum has excellent balance between theory and practical.
5. 87% teachers agreed that the course content of subjects improved students' knowledge and perspective.

Dr. Harwinder Singh
Incharge
Feedback and Analysis Committee
Mechanical Engineering Department

Prof. Pushpinder Singh
Member
Feedback and Analysis Committee
Mechanical Engineering Department

Alumni:

Analysis 2017-18

1. 81 % of the alumni have said that the syllabus is adequately updated during their course of study.
2. Regarding curriculum's ability to find real life solutions, nearly 79% agreed.
3. The major section of alumni found that the syllabus was very well balanced between theory and practical.
4. 84% agreed that curriculum has excellent laboratory and practical skills for analysis and design.
5. More than 77% of alumni have rated the curriculum excellent in oral and written communication abilities.
6. Whether the curriculum has ability and will to engage in a process of continuous learning to meet the current job requirements, 80% of alumni found the curriculum was helpful.
7. 85% of alumni shown overall satisfaction for the program in meeting educational objectives. showed that the practical course give them an effective hands on experience.

Dr. Harwinder Singh
Incharge
Feedback and Analysis Committee
Mechanical Engineering Department

Prof. Pushpinder Singh
Member
Feedback and Analysis Committee
Mechanical Engineering Department

Employer:

Analysis 2017-18

- Around 80% employers think that students have ability to find solution to real problems related to industries.
- 95% employer think that students have good approach towards practical and laboratory skills
- Around 100% rated satisfaction in the ethical and behavioral response of the students in the industry and their written and oral communication is also good
- 90% employer showed good response in terms of students ability towards continuous learning
- Most of the employers think that as compare to other institutes, our students are more capable in professional system.

Dr. Harwinder Singh
Incharge
Feedback and Analysis Committee
Mechanical Engineering Department
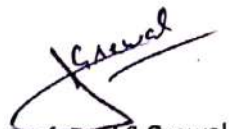
Prof. Pushpinder Singh
Member
Feedback and Analysis Committee
Mechanical Engineering Department

GURU NANAK DEV ENGINEERING COLLEGE

DEPARTMENT OF PRODUCTION ENGINEERING

Feedback analysis of stakeholders for academic year 2017-2018

- **Teacher feedback analysis:**
  Teachers are satisfied with the updation done in course design and expected outcomes. Curriculum is well balanced between theory and practical. Introduction of new subjects as electives has been welcomed.

- **Student feedback analysis:**
  After going through their feedbacks, it is observed that the course coverage has enhanced their knowledge as well as skills in their respective field of interest. The concept of interdisciplinary subjects has amused the students.

- **Alumni feedback analysis:**
  Alumni of our branch are well placed and making full use of the knowledge attained during their course of study but they feel there must be more stress on present scenario of industry and technology.

- **Employer feedback analysis:**
  Our employers are satisfied and happy with work capabilities, knowledge and ethics of our students. They are looking forward for further association with our branch in terms of imparting training as well as job opportunities.

The suggested changes shall be taken into consideration during curriculum revision.

Prof. Dr. J S Grewal   Dr. Jagdeep Singh   Pf. KanwalpreetSahni   Pf. Manjot Singh
(Head & Chairman)   (Member)   (Member)   (Member)

Guru Nanak Dev Engineering College, Ludhiana
Department of Civil Engineering

Feedback analysis of stakeholders for academic year 2016- 2017

Teachers feedback analysis: Teachers given feedback for inclusion of dedicated classes for mentoring and professional development of students.

Alumni feedback analysis: They suggested for the involvement of students in solving engineering problems faced at work sites in testing, designing and execution of civil engineering projects in form of minor and major projects.

Students feedback analysis: They suggested to add general aptitude classes and for preparation of GATE test. They also shown interest in preparing presentations in seminar and project reports.

These suggested changes can be taken into consideration during curriculum revision.

(Dr.Gurdeepak Singh)   (Dr.Inderpreet Kaur)   (Prof.Prabhjot Singh)   (Prof.Pritpal Kaur)

Analysis of Stakeholder's Feedback on Curriculum 2016-17
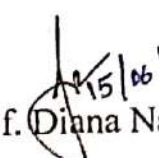# Computer Science and Engineering Department

Student Feedback Analysis: As per analysis, students are satisfied with the syllabus as it is designed as per their understandability (Point 10). Students need more academic books in library. Students also need enhancement of employability within them. Overall students are satisfied with the curriculum but they need more practical knowledge so that they can get necessary technical skills required by the industry (Point 7).

Teacher Feedback Analysis: A concern was raised by some faculty members regarding the updating/addition of more programming content and latest development methodologies related to industry and implacable practically in subjects like Fundamentals of computer programming & IT and Software Engineering. Updating of prescribed books and introduction to modern engineering tools and techniques as a part of practical content in curriculum was also suggested.

Alumni Feedback Analysis: New courses such as IoT, sensing technologies were recommended which are in trend these days. Alumni suggested that adding these technologies in curriculum will boost the overall performance of the students and it will help the students to meet the current job requirements. Alumni were satisfied with the enhancement of the communication abilities of the students after 4 years.

Dr. Parminder Singh

(Coordinator, Feedback Analysis Committee)

15|06|17

Pf. Diana Nagpal

Pf. Jasdeep Kaur

(Members, Feedback Analysis Committee)

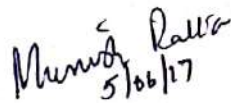# Guru Nanak Dev Engineering College, Ludhiana

Department of Electronics and Communication Engineering

Feedback analysis of stakeholders for academic year 2016-2017

- **Teachers feedback analysis:** Satisfied with the offered curriculum. Moreover, variety of MATLAB applications can be taught through various courses as it will strengthen the skills of students to meet the current demands.

- **Alumni feedback analysis:** Feedback collected indicates satisfaction of alumni with the curriculum contents as it provides solutions for practical problems. Applications of technology into various fields like medicine, architecture etc. and TCAD tool can be added. Further suggestions about contents of e-commerce, python language have been given.

- **Students feedback analysis:** After the completion of year, it was observed from the feedback that students found themselves enough confident in applying the gained knowledge to solve the related problems and also provided the following points as feedback:

  - Environment related subjects can be added.
  - There should be provision of aptitude classes.
  - Seminar or presentation related practices can be introduced.

These suggested changes can be taken into consideration during curriculum revision.

Prof. Ameeta Seehra
(Chairman)

Dr. Munish Rattan
(Member)

Dr. Baljeet Kaur
(Member)

Prof. Harminder Kaur
(Member)

EMPLOYER SURVEY ANALYTICS (ELECTRICAL ENGINEERING)

Not much interest was shown by the employers, however, the expectations where graduates meet the employers in terms of analysing and developing solutions have shown a positive trend from previous years (as shown in graph of Pt. 14)

ALUMNI SURVEY ANALYTICS (ELECTRICAL ENGINEERING)

It was observed that ethical responsibilities and knowledge of ethical codes and conduct was not present in the curriculum. This concern was raised by the alumni and was strongly recommended to be a part of the curriculum in the revised scheme.

STUDENTS SURVEY ANALYTICS (ELECTRICAL ENGINEERING)

Usage of modern tools and techniques was welcomed. Students wanted more of industrial interaction (Pt. 12). Students wanted introduction of study subjects related to employability and having industry ready content.
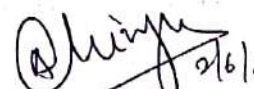
TEACHERS SURVEY ANALYTICS (ELECTRICAL ENGINEERING)

An improvement in the content of subjects was appreciated. However, the introduction to subjects related to industry and implacable practically was suggested. Introduction to modern engineering tools and techniques as a part of practical content in the curriculum was suggested.
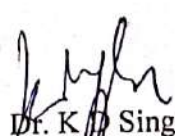
Multidisciplinary problem solving techniques and methodologies were also recommended to be the part of new scheme.

Pf. Shivani Abrol

(Member, Feedback Analysis Committee)

Dr. Arvind Dhingra

(Co-Coordinator, Feedback Analysis Committee)

Dr. K D Singh

(Coordinator, Feedback Analysis Committee)

Guru Nanak Dev Engineering College

Department of Information Technology

Feedback Analysis on Curriculum

Session: 201 6 - 17

Student Survey Feedback Analysis:

Their should be regular tasks conducted by department to enhance technical skills and introduce new subjects as per industry requirement. Syllabus should be less and meaningful for placements. More focus should be carried towards report writing and live projects implementation. Courses like IOT, artificial intelligence and machine learning should be there.

Teacher Survey Feedback Analysis:
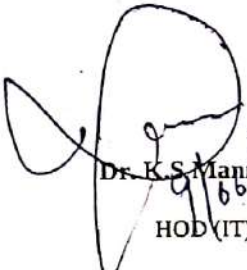
Synchronization in theory and practical syllabus is not there. Weekly laboratory hours for a group can be increased minimum 4 hours once a week. Syllabus need to be update. Open Electives, fundamentals of information technology, computer networks subject needs to be revised.

Alumni Survey Feedback Analysis:

Required to update subjects based on companies. Practical knowledge should be emphasized. Softskill classes should be organized once a week.

Prof. Ranjodh Kaur

(Member Feedback Analysis Commitee)

Dr. K.S. Mann 17

HOD (IT)

Co-ordinator,
Feedback Analysis Commitee

Students:

Analysis 2016-17

- The students have been highly satisfied regarding the syllabus being competent enough in the modern competitive era.

- Regarding the syllabus being properly sequenced nearly 90% were agreed.

- The major section of students found that the syllabus was very well balanced between theory and practical.

- With respect to the course content being covered by corresponding reference books, nearly 85% marked it very good.

- Approximately 75 % of student showed that their interest in particular subject was generated with content of course or syllabus

- More than 85% of students have said that the course content of the subject has enhanced their knowledge and perspective.

- Whether the curriculum is equipped with necessary technical skills required by the industry, the 84% of students found the curriculum was helpful.

- Regarding the elective offered are in consonance with technological advancements more than 80% agreed.

- The 89% student showed that the practical course give them an effective hands on experience

- With the laboratory experiments, 92 % student found enhanced you understanding of the concepts and enabled them to relate theory to practice.

Dr. Harwinder Singh
Incharge
Feedback and Analysis Committee
Mechanical Engineering Department

Prof. Pushpinder Singh
Member
Feedback and Analysis Committee
Mechanical Engineering Department

Teachers:

Analysis 2016-17

1. 90 % of the teachers have said that the syllabus is need based with respect to recent advancements .
2. Regarding aim's and objectives of syllabus, 87% of teachers answered that it is well defined and clear to teachers and students.
3. The 89% of teachers said that books listed as reference material are relevant and updated.
4. 93% agreed that curriculum has excellent balance between theory and practical.
5. 86% teachers agreed that the course content of subjects improved students' knowledge and perspective.

Dr. Harwinder Singh
Incharge
Feedback and Analysis Committee
Mechanical Engineering Department

Prof. Pushpinder Singh
Member
Feedback and Analysis Committee
Mechanical Engineering Department

Alumni:

Report 2016 -2017

- That The current syllabus is adequately updated from the one followed during our course of study is confirmed by nearly 92%.
- Majority of students also found that the curriculum has provided the ability to find solution of real life problems.
- It has been found nearly 89 % students says that the curriculum has reasonable practical skills for analysis and design.
- Students have rated in high numbers for the curriculum with respect to professional ethics.
- It has been found that the students have rated positively in written and oral communication abilities.
- Nearly 86 % student found that the curriculum helped them in improving their learning process to meet the demands of current jobs.
- Almost 90 % of the students were overall satisfied for the current program in meeting its educational objectives.

Dr. Harwinder Singh
Incharge
Feedback and Analysis Committee
Mechanical Engineering Department

Prof. Pushpinder Singh
Member
Feedback and Analysis Committee
Mechanical Engineering Department

GURU NANAK DEV ENGINEERING COLLEGE

DEPARTMENT OF PRODUCTION ENGINEERING

Feedback analysis of stakeholders for academic year **2016-2017**

- **Teacher feedback analysis:**
  Teachers are satisfied with the course design and expected outcomes. Curriculum is well balanced between theory and practical.
- **Student feedback analysis:**
  After going through their feedbacks, it is observed that the course coverage has enhanced their knowledge as well as skills in their respective field of interest.
- **Alumni feedback analysis:**
  Alumni of our branch are well placed and making full use of the knowledge attained during their course of study but they feel there must be more stress on present scenario of industry and technology.
- **Employer feedback analysis:**
  Our employers are satisfied and happy with work capabilities, knowledge and ethics of our students. They are looking forward for further association with our branch in terms of imparting training as well as job opportunities.

The suggested changes shall be taken into consideration during curriculum revision.

Prof. Dr. J S Grewal   Dr. Jagdeep Singh   Pf. Kanwalpreet Sahni   Pf. Manjot Singh
(Head & Chairman)   (Member)   (Member)   (Member)
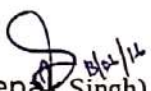
Guru Nanak Dev Engineering College, Ludhiana
Department of Civil Engineering

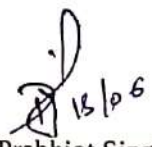## Feedback analysis of stakeholders for academic year 2015- 2016

Teachers feedback analysis: Most of the faculty members talked about the opportunities and encouragement for pursuing research activities for students which are need to be improved.
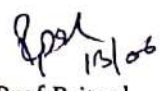
Alumni feedback analysis: They suggested there must be some courses related to personality grooming for better employability. Some female alumni suggested there must be some workshops related to women empowerment and gender equality.

These suggested changes can be taken into consideration during curriculum revision.

(Prof. Gurdeepak Singh)   (Prof. Inderpreet Kaur)   (Prof.Prabhjot Singh)   (Prof.Pritpal Kaur)

Analysis of Stakeholder's Feedback on Curriculum 2015-16
Computer Science and Engineering Department

Student Feedback Analysis: Introduction to modern tools and technologies was required as per analysis. Students wanted the introduction of new subjects such as Machine Learning and they required software engineering to be introduced in 4th semester instead of 6th semester and new technologies to be introduced in web technologies theory and Lab.

Teacher Feedback Analysis: The introduction of latest trends in technology has been introduced in the curriculum. Faculty members seem to be satisfied with the course contents of most courses. An improvement in the content of the curriculum courses and/or removal of obsolete subjects was suggested. Courses like Theory of computation, Java programming and Cyber laws & IPR were recommended for revision in contents.

Alumni Feedback Analysis: Based on the analysis of alumni feedback, it was found that a course to enhance the written communication abilities is suggested. More emphasis was given on keeping the C language in curriculum. Overall, most alumni was satisfied that the overall curriculum is quite evenly spread.

Dr. Parminder Singh

(Coordinator, Feedback Analysis Committee)

Pf. Diana Nagpal   Pf. Jasdeep Kaur
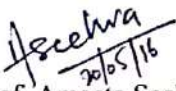
(Members, Feedback Analysis Committee)

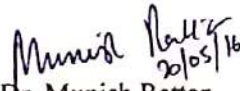# Guru Nanak Dev Engineering College, Ludhiana

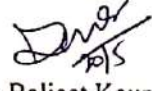## Department of Electronics and Communication Engineering

Feedback analysis of stakeholders for academic year 2015-2016

- **Teachers feedback analysis:** Feedback shows desired level of satisfaction as it meets program educational objectives. Further few suggestions have been given as:

- ARM microcontrollers and practical sessions on antenna can be included.

- Latest topics may be included in curriculum as per industry needs.

- **Alumni feedback analysis:** Points noted down from the feedback show satisfaction with the curriculum design as it contributes in continuous learning process. Also, Python language has been suggested for inclusion in the curriculum.

These suggested changes can be taken into consideration during curriculum revision.

Prof. Ameeta Seehra   Dr. Munish Rattan   Dr. Baljeet Kaur   Prof. Harminder Kaur

(Chairman)   (Member)   (Member)   (Member)

EMPLOYER SURVEY ANALYTICS (ELECTRICAL ENGINEERING)

Practices like applying MATLAB and other software's have been appreciated. However the thrust is on equipping the students with more of application based courses which are industry focused in nature. Improvement on soft skills and computational techniques of problem solving was also suggested.

ALUMNI SURVEY ANALYTICS (ELECTRICAL ENGINEERING)

Multi disciplinary teams having engineers from various disciplines in working environments culture was encouraged (pt 5) however, Introduction of open elective subjects related to market requirement has been suggested as need of the hour.

STUDENTS SURVEY ANALYTICS (ELECTRICAL ENGINEERING)

Introduction of MATLAB and other computational practical's was a welcome step (Pt. 12) and knowledge of contemporary issues was also welcomed in classes like advisory class or communication skills subjects.

Overall, students looked satisfied but wanted the updated aspects in the related field to be introduced in the curriculum.

TEACHERS SURVEY ANALYTICS (ELECTRICAL ENGINEERING)

Latest in the trends and technology have been introduced in the curriculum and the subject content was most appreciated by the teachers. An improvement in the content of the curriculum courses and/or removal of obsolete subjects was suggested. Subjects like Microprocessors, Power Electronics and Control systems were recommended for revision in contents.

Pf. Shivani Abrol

(Member, Feedback Analysis Committee)

Dr. Arvind Dhingra

(Co-Coordinator, Feedback Analysis Committee)

Dr. K D Singh

(Coordinator, Feedback Analysis Committee)

Guru Nanak Dev Engineering College

Department of Information Technology

Feedback Analysis on Curriculum

Session: 2015-16

Student Survey Feedback Analysis:

Latest technology needs to be upgraded as the reqirement of industry. They have made suggestion on upgrading of syllabus.

Teacher Survey Feedback Analysis:

An improvement on the content of the curriculum courses and/or removal of obsolete subjects or topics were suggested for the preperation of entrance exams. More interaction with industry required.

Alumni Survey Feedback Analysis:

More emphasis was given to update subjects like web development i.e bootstrap, angular js html5 etc and computer architecture.

Prof. Ranjodh Kaur

(Member Feedback Analysis Commitee)

Dr. K.S Mann 2nd June, 16.

HOD (IT)

(Coordinator Feedback Analysis Comemitee)

Students:

Analysis 2015-16

- Most of the students have said that the syllabus is competent enough in the modern competitive era.

- Regarding the syllabus being properly sequenced almost eveystudent was satisfied.

- The major section of students found that the syllabus was very well balanced between theory and practical.

- With respect to the course content being covered by corresponding reference books, nearly 85% marked it very good.

- Approximately 90 % of student showed that their interest in particular subject was generated with content of course or syllabus

- More than 83% of students have said that the course content of the subject has enhanced their knowledge and perspective.

- Whether the curriculum is equipped with necessary technical skills required by the industry , the 84% of students found the curriculum was helpful.

- Regarding the elective offered are in consonance with technological advancements nearly 80% agreed.

- The 84 % student showed that the practical course give them an effective hands on experience

- With the laboratory experiments , 93 % student found enhanced you understanding of the concepts and enabled them to relate theory to practice.

Dr. Harwinder Singh
Incharge
Feedback and Analysis Committee
Mechanical Engineering Department

Prof. Pushpinder Singh
Member
Feedback and Analysis Committee
Mechanical Engineering Department

Teachers:

Analysis 2015-16

1. 89 % of the teachers have said that the syllabus is need based with respect to recent advancements .
2. Regarding aim's and objectives of syllabus, 86% of teachers answered that it is well defined and clear to teachers and students.
3. The 88% of teachers said that books listed as reference material are relevant and updated.
4. 92% agreed that curriculum has excellent balance between theory and practical.
5. 84% teachers agreed that the course content of subjects improved students' knowledge and perspective.

Dr. Harwinder Singh
Incharge
Feedback and Analysis Committee
Mechanical Engineering Department

Prof. Pushpinder Singh
Member
Feedback and Analysis Committee
Mechanical Engineering Department

Alumni:

Report   2015 -2016

- That The current syllabus is adequately updated from the one followed during our course of study is confirmed by nearly 84%.
- Most of the students also found that the curriculum has provided the ability to find solution of real life problems.
- It has been found nearly 81 % students says that the curriculum has reasonable practical skills for analysis and design.
- Students have rated positively the curriculum with respect to professional ethics.
- It has been found that the students have rated highly in written and oral communication abilities.
- Nearly 80 % student found that the curriculum helped them in improving their learning process to meet the demands of current jobs.
- Almost 95 % of the students were overall satisfied for the current program in meeting its educational objectives.

Dr. Harwinder Singh
Incharge
Feedback and Analysis Committee
Mechanical Engineering Department

Prof. Pushpinder Singh
Member
Feedback and Analysis Committee
Mechanical Engineering Department

GURU NANAK DEV ENGINEERING COLLEGE

DEPARTMENT OF PRODUCTION ENGINEERING

Feedback analysis of stakeholders for academic year 2015-2016

- **Teacher feedback analysis:**

  Teachers are satisfied with the updation done in course design and expected outcomes. Curriculum is well balanced between theory and practical. Introduction of new subjects as electives has been welcomed.

- **Student feedback analysis:**

  After going through their feedbacks, it is observed that the course coverage has enhanced their knowledge as well as skills in their respective field of interest. The concept of interdisciplinary subjects has amused the students.

- **Alumni feedback analysis:**

  Alumni of our branch are well placed and making full use of the knowledge attained during their course of study but they feel there must be more stress on present scenario of industry and technology.

- **Employer feedback analysis:**

  Our employers are satisfied and happy with work capabilities, knowledge and ethics of our students. They are looking forward for further association with our branch in terms of imparting training as well as job opportunities.

The suggested changes shall be taken into consideration during curriculum revision.

Prof. Dr. J S Grewal   Dr. Jagdeep Singh   Pf. Kanwalpreet Sahni   Pf. Manjot Singh
(Head & Chairman)   (Member)   (Member)   (Member)

Guru Nanak Dev Engineering College, Ludhiana
Department of Civil Engineering

Feedback analysis of stakeholders for academic year 2014- 2015

Teachers feedback analysis: According to teachers more industrial exposure to the students would help to improve their employability. Also some teachers suggested more numerical based on the syllabi topic which helps students to develop confidence to solve numerical and practical problems and also help to develop their logical skills.

Alumni feedback analysis: There is suggestion of adequate flexibility available in the choice of subjects to the students. There can be multidisciplinary electives on liberal arts.

These suggested changes can be taken into consideration during curriculum revision.

(Prof. Gurdeepak Singh)   (Prof.Inderpreet Kaur)   (Prof.Prabhjot Singh)   (Prof.Pritpal Kaur)

Analysis of Stakeholder's Feedback on Curriculum 2014-15
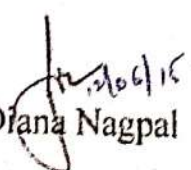## Computer Science and Engineering Department

Student Feedback Analysis: Majority of the students strongly agreed that the syllabus is covered by the teachers on time. The students also agreed that the content provided in the syllabus is well sequenced and equipped them with necessary technical skills required for their professional areas. From the students' feedback it is revealed that most of them agreed to the point that the laboratory experiences and practical exposure given to them enhanced their understanding of the concepts and enable them to relate theoretical components to practice.

Teacher Feedback Analysis: Restructuring of the syllabus contents of some subjects was suggested by the faculty members. Also concern was raised on maintaining a good balance between theory and practical content of some courses to improve the learning experience for the students.

Alumni Feedback Analysis: They provide the inputs regarding improvement in facilities and employability of our students. Most alumni are satisfied with the current syllabus content. Course on professional ethics were suggested. Overall, they were satisfied with the current program. They agreed that the syllabus is effective in enhancing team work abilities because it includes project work also.

Dr. Parminder Singh

(Coordinator, Feedback Analysis Committee)

Pf. Diana Nagpal   Pf. Jasdeep Kaur

(Members, Feedback Analysis Committee)

Guru Nanak Dev Engineering College, Ludhiana

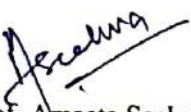### Department of Electronics and Communication Engineering

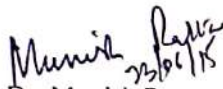**Feedback analysis of stakeholders for academic year 2014-2015**

Teachers feedback analysis: Course curriculum has satisfied the students in terms of knowledge upgradation. Further suggestions are given as written below:

- Lab on semiconductor devices can be designed.

- Few more advanced contents on "digital communication system" are to be added.

Alumni feedback analysis: Students are satisfied with the course contents which have been taught during their graduation. It has upgraded their skills as well as problem solving capabilities.

These suggested changes can be taken into consideration during curriculum revision.

Prof. Ameeta Seehra
(Chairman)

Dr. Munish Rattan
(Member)

Dr. Baljeet Kaur
(Member)

Prof. Harminder Kaur
(Member)

EMPLOYER SURVEY ANALYTICS (ELECTRICAL ENGINEERING)

The employers seem to be satisfied by the application of mathematics in modelling by the students but have expressed concern about the proper application of techniques learnt into real time modelling. They have made suggestions regarding soft skill improvements and regular updation with state of the art technology.

ALUMNI SURVEY ANALYTICS (ELECTRICAL ENGINEERING)

Alumni expressed concerns of facing problems while working in the real world especially where application of concepts was involved. It was stated that analytics and modelling as are the strength of the curriculum, must be correlated with the practical case studies as a part of the curriculum. (As shown in graph, pt3).

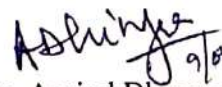## STUDENTS SURVEY ANALYTICS (ELECTRICAL ENGINEERING)

Students looked satisfied by the infrastructural facilities related to the curriculum, however, were dissatisfied by the techniques applied for problems solving and understanding of critical concepts (pt 6, 7). Concern was raised for introduction of subjects related to improvement in soft skills and computational techniques.

TEACHERS SURVEY ANALYTICS (ELECTRICAL ENGINEERING)

Application of knowledge and skills through the course curriculum was stressed by the faculty. However, concern was raised on the available opportunities for the students and how improvement in curriculum can improve the existing placement scenario was raised

Pf. Shivani Abrol

(Member, Feedback Analysis Committee)

Dr. Arvind Dhingra

(Co-Coordinator, Feedback Analysis Committee)

Dr. K D Singh

(Coordinator, Feedback Analysis Committee)

Guru Nanak Dev Engineering College

Department of Information Technology

Feedback Analysis on Curriculum

Session: 2014-15

Student Survey Feedback Analysis:

They have made suggestion on upgrading of syllabus.

Teacher Survey Feedback Analysis:

Concern was raised to improve the placement scenario. Industry institutes gap can be reduced by strengthning the concept of finishing school. Due to recent trends and application of IT in the different fields , new subjects and new topics for some subjects are needed to add in the current schema. Issue raised on proper synchronization between theory and practical syllabus.

Alumni Survey Feedback Analysis:

Courses on professional ethics , humanities and social sciences were suggested. Subjects syllabus was very old new technology subjects can be suggested with the practical case studies as a part of the curriculum.

Prof. Ranjodh Kaur

(Member Feedback Analysis Commitee)

5th June, 2015

Dr. K.S Mann

HOD (IT)

(Coordinator,
Feedback Analysis Committe)

Students:

Analysis 2014-15

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- Regarding the syllabus being properly sequenced nearly 93 % were agreed.

- The major section of students found that the syllabus was very well balanced between theory and practical.

- With respect to the course content being covered by corresponding reference books , alomst eveyone marked it very good.

- Large number of student showed that their interest in particular subject was generated with content of course or syllabus

- More than 90% of students have said that the course content of the subject has enhanced their knowledge and perspective.

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- Regarding the elective offered are in consonance with technological advancements nearly 83% agreed.

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Dr. Harwinder Singh
Incharge
Feedback and Analysis Committee
Mechanical Engineering Department

Prof. Pushpinder Singh
Member
Feedback and Analysis Committee
Mechanical Engineering Department

Teachers:

Analysis 2014-15

1. 87 % of the teachers have said that the syllabus is need based with respect to recent advancements .
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4. 91% agreed that curriculum has excellent balance between theory and practical.
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GURU NANAK DEV ENGINEERING COLLEGE

DEPARTMENT OF PRODUCTION ENGINEERING

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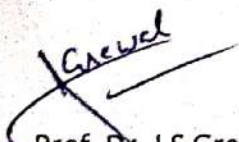
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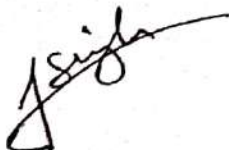
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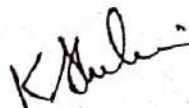
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Prof. Dr. J S Grewal	Dr. Jagdeep Singh	Pf. Kanwalpreet Sahni	Pf. Manjot Singh
(Head & Chairman)	(Member)	(Member)	(Member)