KASHI INSTITUTE OF TECHNOLOGY

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REPORT OF CO – PO ASSESSMENT AND ATTAINMENT

Of

FACULTY OF APPLIED SCIENCE AND HUMANITIES

Submitted

By

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

KASHI INSTITUTE OF TECHNOLOGY, VARANASI

INDEX

CO-PO ASSESSMENT & ATTAINMENTS

1. INTRODUCTION:

According to John Dewey, an American philosopher, psychologist and educational reformer, "Education is not preparation for life, education is life itself". Education is a form of teaching-learning-practicing in which the knowledge, skills and information are transferred from teachers to students. But the traditional system of education fails to measure the Capability of the students. It only assesses the students learning by allowing them to reproduce the exact text presented in the text book as answer for questions. But the real need and demand of twenty first century learning system is the transition from Output Based Education to Outcome Based Education. Outcome Based Education (OBE) system is able to measure what the students are capable of doing. Indian education system has introduced the
Outcome Based Education System through National Board of Accreditation (NBA). This is a model which not only gives much better technical knowledge to twenty first century engineers, but also gives emphasis on the development of affective domain attribute which are needed in workplace, e.g. interpersonal skills, analytical skills, computer skills, Organizational skills, leadership skills, self-confidence, creativity, strong work ethics, Motivation, initiative, flexibility, adaptability and entrepreneurial skills. This report described
the calculation of various courses like Engineering Physics, Engineering Chemistry, Engineering Mathematics-1,Elementry mathematics-1, Soft Skill, Fundamental of Mechanical Engineering & Mechotronics, Basic Electrical Engineering, Emerging Technology, Artificial Intelligence, Programming for Problem Solving, Emerging Domain in Electronics Engineering, etc), delivery methods to attain OBE in these Programs, presents assessment methods, attainment of Course Outcome (CO) ,Program Outcome (PO) & Program Specific Outcome (PSO).The goal of outcome-based education (OBE) is to have students demonstrate that they "**know and are able to achieve**" whatever they required outputs are by organizing and focusing the resources available in an educational system. OBE assists universities in tracking their students' academic progress and empowering them to master new talents that will set them apart from their peers throughout the world. The curriculum is revised as needed to meet the needs of today's students, rather than being repeated for the following generation of students. The faculty is encouraged to focus on helping the students build new abilities rather than placing too much emphasis on getting everything done on the syllabus before the end of the semester. Additionally, students are evaluated based on the 'Levels' that track their learning skills rather than their grade. Success for all students and staff is the Outcome Based Education (OBE) principle, as stated by ensuring that every student has the skills, abilities, and qualities required for success after leaving the educational system. Organizing Institution is a way that allows for the achievement and maximization of those outcomes for all students. Institutions adopting OBE attempt to carry changes to the educational program by progressively adapting to the requirements of the various stakeholders like Students, Parents, Industry Personnel and Recruiters. This report described the calculation of various technical and non technical courses. Delivery methods to attain OBE in Engineering Program, presents assessment methods, attainment of course outcome (COs) and program outcome (POs).

2- Institute Vision & Mission

Vision:

To empower young generation for substantial contribution to economical, technological and Social progress of the society worldwide.

Mission:

- To contribute to the development of the human resources in the form of professional leaders of global cadre.
- To develop holistic personality of the learners.
- To make this Institute as a Leading Centre of Research.

3-APPLIED SCIENCE DEPARTMENT VISION AND MISSION

APPLIED SCIENCE DEPARTMENT

Applied Science Department is proud of having well qualified and devoted teachers. The various departments that merge under this department are of Mathematics, Chemistry, Physics and Humanities. Value oriented education plays a vital role in every human beings life and therefore the department is striving relentlessly to develop the Institute into a centre of excellence by imparting value education along with the technical and professional upliftment of its students. The department has well equipped Physics and Chemistry laboratories where students may perform experiments nicely. The students are given personal attention and care by monitoring their academic performance by conducting classes through peer guided self-study methodology, tutorial classes and regular counseling. Question banks comprising of questions of different types and levels, have been developed in all subjects for the use of students. Home assignments are assigned to the students regularly. The department also coordinates with the engineering departments so that it could cover the basics required in the study of engineering. The department also conducts the extra – curricular activities.

VISION & MISSION OF THE DEPARTMENT

VISION

To educate undergraduate, post graduate, doctoral students in field of applied science, preparing sincere and socially responsible students to thrive and contribute to an ever-changing global society.

MISSION

*To provide strong foundation to the students through basic courses and value added teaching in areas of technical field, innovation, personality development & competitive abilities and guide for their respective discipline.

*To provide students with a flexible yet solid learning infrastructure through proactive and adaptive service systems.

*To create and propagate knowledge and tools at the interfaces between areas of engineering, emerging trends of industries and other core areas of Applied Sciences and Humanities.

4-LEVELS OF OUTCOMES:

Terminology (Abbreviations)

• **Outcomes Based Education (OBE):** Outcome-Based Education (OBE) is a student-centric teaching and learning Methodology in which the course delivery, assessment are planned to achieve stated Objectives and Outcomes. It focuses on measuring student performance i.e. outcomes at different levels.

OBE is all about feedback and outcomes there are four levels of Outcomes from OBE are:

1-Course Outcomes (COs) 2-Program Outcomes (POs)

3-Program Educational Objectives (PEOs) 4-Program Specific Outcomes (PSOs)

•Course Outcomes (COs):

Course Outcomes (COs) are what the student should be able to do at the end of a course. The most important aspect of a CO is that it should be observable and measurable form of a set of individually assessable outcomes of the programme. Graduates Attributes (GAs) are the components indicative of the graduate's potential to acquire competence to practice at the appropriate level.

•Program Outcomes (POs):

Program outcomes are statements that describe what the knowledge, skills and attitudes students should have at the time of graduation from an engineering program. That means just at the end of 4 years these represent what is the knowledge, skills and attitudes they should have.

• **Program Educational Objectives (PEOs)**:

These are broad statements that describe the career and professional accomplishments in four to five years after graduation that the program is preparing the graduates to achieve.

• Program Specific Outcomes (PSOs):

Program Specific Outcomes are statements that describe what the students of a specific engineering program should be able to do.

Course objectives:

1. Intended outcomes written to help guide instruction for what the students will learn in the course.

2. Course objectives are measurable objectives that the learner is expected to accomplish at the end of an instructional.

3. A statement of an action that a learner should be able to perform after successfully completing the learning material. e.g. course objective of engineering chemistry.

Course objective (Engineering Chemistry):

• To bring adaptability to the concepts of chemistry and to acquire the required skills to become a perfect engineer.

• To import the basic knowledge of atomic, molecular and electronic modifications which makes the student to understand the technology based on them.

• To acquire the skills pertaining to Spectroscopy and to apply them for medical and other fields.

• To acquire the knowledge of electrochemistry, corrosion and water treatment which are essential for the Engineers and in industry?

•To bring about the overall awareness of the use of polymers.

COURSE OUTCOME STATEMENT:

Course Outcomes (COs):

CO statements indicating what a student can do after the successful completion of a course. Every Course leads to some Course Outcomes. The CO statements are defined by considering the course content covered in each module of a course. For every course there may be 5 or 6 COs. The keywords used to define COs are based on Bloom's Taxonomy. A well written CO facilitates lecturers in measuring the achievement of the CO at the end of the semester. It also helps the lecturers in designing suitable delivery and assessment methods to achieve the designed CO. Graduates Attributes (GAs) are the components indicative of the graduate's potential to acquire competence to practice at the appropriate level. Gas form a set of individually assessable outcomes of the programmed. For e.g. a course such as Engineering Chemistry might have the following course outcomes set.

Course Outcomes & CO-PO Matrix of Various Courses

Course 1 - Engineering Chemistry: (KAS102T)		
COURSE OUTCOMES (COs)/UNITS		Knowledge Level (Blooms Level)
S. No.	By the end of the course student will be able to	
CO1	**Remember, *Understand & Applying*** the use of different analytical instruments.	**L1** : Remember **L2:** Understand **L3** : Applying
CO2	***Evaluate & Analyze*** Measure molecular /system properties such as surface tension, viscosity, conductance of solution, chloride content in water.	**L5** : Evaluate **L4** : Analyze
CO3	***Evaluate*** the hardness of water	**L5** : Evaluate
CO4	***Synthesize, create & Analyze*** the rate constant of reaction	**L4** : Analyze **L6:** Synthesis
CO5	***Understand & Apply*** the basic knowledge on structure, synthesis, properties and application of different types of polymers.	**L2:** Understand **L3** : Applying

DEPARTMENT OF APPLIED SCIENCE & HUMANITIES		
Course Outcomes		BL
Course – Engineering Mathematics-I: (KAS103T)		
S.N.	Course Outcome/ Unit	
1	Remember the concept of matrices and apply for solving linear simultaneous equations.	1.3
2	Understand the concept of limit , continuity and differentiability and apply in the study of Roles , Lagrange's and Cauchy mean value theorem and Leibnitz theorems .	2.3
3	Identify the application of partial differentiation and apply for evaluating maxima, minima, series and Jacobians.	3.5
4	Illustrate the working methods of multiple integral and apply for finding area, volume, centre of mass and centre of gravity.	2.3
5	Remember the concept of vector and apply for directional derivatives, tangent and normal planes. Also evaluate line, surface and volume integrals	2.5

COURSE OUTCOME PHYSICS : KAS101T/ KAS102T		
S.N	COURSE OUTCOMES (CO)/UNITS	
CO1	Understand & Applying Students will be able to recall Newton's law of motion as well as explain and predict relativistic mechanics in real world applications, Einstein's postulates and their applicability in different applications.	BL 3
CO2	**Evaluate & Analyze** Measure molecular /system properties such as surface tension, viscosity, conductance of solution, chloride content in water. Students will be able to identify Maxwell's equations in free space and non-conducting medium, properties of electromagnetic waves and applying the propagation mechanism of communication system through e-m waves.	BL4
CO3	Students will be able to differentiate classical mechanics and quantum mechanics, Summarize the basics of microscopic physics and use it to solve various quantum mechanical problems.	BL 3
CO4	Students will be able to recall the concept of interference and diffraction, demonstrate the ability to evaluate wavelength of monochromatic source and white light using Newton's ring experiment & diffraction Grating.	BL 3
CO5	Students will be able to compare and categorize the Laser and Fiber with losses,	BL 3

Course Outcomes		BL
Course - Emerging Domain in Electronics Engineering:(KEC101T)		
S.N.	Course Outcome/ Unit	
1	Identify different coordinate systems and their applications in electromagnetic field theory to establish a relation between any two systems using the vector calculus.	3
2	Explain the concept of static electric field, current and properties of conductors.	2
3	Express the basic concepts of ground, space, sky wave propagation mechanism.	4
4	Demonstrate the knowledge of antenna fundamentals and radiation mechanism of the antenna.	5
5	Analyze and design different types of basic antennas.	4

Course Outcomes		BL
Course - Engineering Mathematics-I: (KBT101T)		
S.N.	Course Outcome/ Unit	
1	Understand the concept of algebra for finding the solution of quadratic equation in complex system, algebraic solution of linear inequalities in one variable and create graphical solution of linear inequalities in two variables.	3.5
2	Understand the concept of permutation and Combination to create the formulation and their connection and apply for evaluating sum and means of AP and GP and some special series.	5.4
3	Remember the concept of two and three dimensional geometry to apply to find conic section (circle, ellipse, parabola, and hyperbola) and to evaluate coordinate plane and distance between two points.	1.4
4	Apply the concept of derivative to evaluate and analyze rate of change, slope , derivative of polynomial and trigonometric function	2.3
5	Remember the concept of derivative to evaluate derivative of composite function, inverse trigonometric function, implicit, composite and exponential functions and apply in Role's and Lagrange's theorems and their application	1.5

Course Outcomes		BL
Course - Fundamental of Mechanical Engineering: (KME101T)		
. No.	Course Outcome/ Unit	
1	Analyze the concept of stress and strain, factor of safety, beams and apply the concepts of strength of material for safe design	4
2	Explain the basic component and working of internal combustion engines, electric and hybrid vehicles, refrigerator and heat pump, air conditioning.	2
3	Interpret fluid properties, conservation laws, and hydraulic machinery and apply the same in real life systems.	2
4	Explain the working principle of different measuring instrument with the knowledge of accuracy, error and calibration, limit, fit, Tolerance and control system.	2
5	Summarize concept of Mechotronics with their advantages, scope and Industrial application, the different types of mechanical Actuation system, the different types of hydraulic and pneumatic systems.	2

Course Outcomes		BL
Course - Emerging Domain in Electronics Engineering:(KEC101T)		
. No.	Course Outcome/ Unit	
1	Identify different coordinate systems and their applications in electromagnetic field theory to establish a relation between any two systems using the vector calculus.	3
2	Explain the concept of static electric field, current and properties of conductors.	2
3	Express the basic concepts of ground, space, sky wave propagation mechanism.	4
4	Demonstrate the knowledge of antenna fundamentals and radiation mechanism of the antenna.	5
5	Analyze and design different types of basic antennas.	4

Course Outcomes		BL
Course - Artificial Intelligence(KMC- 101)		
S. No.	Course Outcome/ Unit	
1	Understand the evolution and various approaches of AI	2
2	Understand data storage, processing, visualization, and its use in regression, clustering etc.	2
3	Understand natural language processing and chat bots	2
4	Understand the concepts of neural networks	2
5	Understand the concepts of face, object, speech recognition and robots	2

Course Outcomes		BL
Course - Programming for Problem Solving (KCS 101 T)		
. No.	Course Outcome/ Unit	
1	To develop simple algorithms for arithmetic and logical problems	2.3
2	To translate the algorithms to programs & execution (in C language).	3
3	To implement conditional branching, iteration and recursion	3
4	To decompose a problem into functions and synthesize a complete program using divide and conquer approach.	4
5	To use arrays, pointers and structures to develop algorithms and programs.	2.3

Course Outcomes		BL
Course - SOFT SKILLS-II: (KNC 201)		
. No.	Course Outcome/ Unit	
1	Students will be able to converse well with effective LSRW skills in English.	3
2	Students will evaluate the importance of conversation in their personal and professional domain and apply it for extending their professional frontiers.	5
3	Students will learn to apply motivation skills for their individual and professional excellence	3
4	Students will utilize their teamwork and their interpersonal communication skills to survive and excel at their work-place.	1
5	Students will learn to evaluate creativity for their professional innovation and critical thinking for their competence.	5
Course Outcomes		BL
Course – Fundamental of Mechanical Engineering: (KME201T)		
S. No.	Course Outcome/ Unit	
1	Analyze the concept of stress and strain, factor of safety, beams and apply the concepts of strength of material for safe design.	4
2	Explain the basic component and working of internal combustion engines, electric and hybrid vehicles, refrigerator and heat pump, air conditioning.	2
3	Interpret fluid properties, conservation laws, and hydraulic machinery and apply the same in real life systems.	3
4	Explain the working principle of different measuring instrument with the knowledge of accuracy, error and calibration, limit, fit, Tolerance and control system.	2
5	Summarize concept of Mechotronics with their advantages, scope and Industrial application, the different types of mechanical Actuation system, the different types of hydraulic and pneumatic systems.	2

Course Outcomes		BL
Course - BASIC ELECTRICAL ENGINEERING (KEE201T)		
S.N.	Course Outcome/ Unit	
1	Understand the concepts of electric circuit elements and network solutions with DC supply using various network theorems.	2
2	Analyze the steady state behavior of single phase and three phase AC electrical circuits.	3
3	Analyze the various aspects of performances and equivalent circuit design for Transformers.	2
4	Illustrate the working principles of DC Motor, induction motor, synchronous machine as well as DC machine and employ them in different area of applications.	3
5	Describe the components of low voltage electrical installations and perform elementary calculations for energy consumption.	2

Course Outcomes		BL
Course- Engineering Mathematics-II: (KAS203T)		
S.N.	Course Outcome/ Unit	
1	Understand the concept of differentiation and apply for solving differential equations.	2.3
2	Remember the concept of definite integral and apply for evaluating surface areas and volumes.	3,5,1
3	Understand the concept of convergence of sequence and series. Also evaluate Fourier series.	2.5
4	Illustrate the working methods of complex functions and apply for finding analytic functions.	3
5	Apply the concept of complex functions for finding Taylor's series, Laurent's series and evaluation of definite integrals.	3.5

Course Outcomes		BL
Course – Emerging Domain in Electronics Engineering:(KEC201T)		
S. No.	Course Outcome/ Unit	
1	Identify different coordinate systems and their applications in electromagnetic field theory to establish a relation between any two systems using the vector calculus.	3
2	Explain the concept of static electric field, current and properties of conductors.	2
3	Express the basic concepts of ground, space, sky wave propagation mechanism.	4
4	Demonstrate the knowledge of antenna fundamentals and radiation mechanism of the antenna.	5
5	Analyze and design different types of basic antennas.	4

Course Outcomes		BL
Course - Emerging Technology for Technology (KMC 202)		
S. No.	Course Outcome/ Unit	
1	Understand the concepts of internet of things, smart cities and industrial internet of things	2
2	Understand the concepts of cloud computing	2
3	Understand the concepts of block chain, crypto currencies, smart contracts	2
4	Understand design principles, tools, trends in 3 D printing and drones	2
5	Understand augmented reality (AR), virtual reality (VR), 5G technology, brain computer interface and human brain	2

Course Outcomes		BL
Course - Engineering Mathematics-I: (KBT201T)		
S. No.	Course Outcome/ Unit	
1	Understand the concept of algebra for finding the solution of quadratic equation in complex system, algebraic solution of linear inequalities in one variable and create graphical solution of linear inequalities in two variables	3.5
2	Understand the concept of permutation and Combination to create the formulation and their connection and apply for evaluating sum and means of AP and GP and some special series	4.5
3	Remember the concept of two and three dimensional geometry to apply to find conic section (circle, ellipse, parabola, and hyperbola) and to evaluate coordinate plane and distance between two points.	1.4
4	Apply the concept of derivative to evaluate and analyze rate of change, slope , derivative of polynomial and trigonometric function	2.3
5	Remember the concept of derivative to evaluate derivative of composite function, inverse trigonometric function, implicit, composite and exponential functions and apply in Role's and Lagrange's theorems and their application	5.6

Program Outcomes (POs):

POs are defined by Accreditation Agencies of the country (NBA in India), which are the statements about the knowledge, skills and attitudes, graduate attributes of a formal engineering program should have. Graduates Attributes (GAs) are the components indicative of the graduate's potential to acquire competence to practice at the appropriate level. GAs form a set of individually assessable outcomes of the program. The NBA laid down the graduate attributes relating to program outcomes and is to be derived by Program. These are broad and cover a wider area than of COs. 12 Program Outcomes, or Graduate Attributes for the sake of unity and quality assurance.

The Program outcomes reflect the ability of graduates to demonstrate knowledge in fundamentals of Basic Sciences, Humanities and Social Sciences, Engineering Sciences and apply these principles in understanding and practically apply the knowledge in professional core subjects, electives and projects which enables the graduates to be competent at the time of graduation. The graduates must adhere to professional and ethical responsibilities in the pursuit of their careers and also for the benefit of the society. These outcomes also enable the graduate to pursue higher studies and engage in R&D for a successful professional career. The proper definition and the attainment of POs contribute to the attainment of Program Educational Objectives which will help the graduate to perform his/ her duties, professional responsibilities, design, development, production and testing of novel products, ability to deal with finances and project management during his/her early professional career of 3 to 4 years.

PROGRAM OUTCOMES (PO's)

PO-1. Scientific knowledge: Apply the knowledge of mathematics, science, Scientific Fundamentals, and scientific specialization to the solution of complex scientific problems.

PO-2. Problem analysis: Identify, formulate, research literature, and analyze scientific problems to arrive at substantiated conclusions using first principles of mathematics, nature, and sciences.

PO-3. Design/development of solutions: Design solutions for complex scientific problems and design system components, processes to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO-4. Conduct investigations of complex problems: Use research-based knowledge including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO-5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern scientific tools including prediction and modeling to complex activities with Understanding of the limitations.

PO-6. Scientific temper and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the practice.

PO-7. Environment and sustainability: Understand the impact of the professional scientific solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO-8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the work practice.

PO-9. Individual and team work: Function effectively as an individual, and as a member or leader in teams, and in multidisciplinary settings.

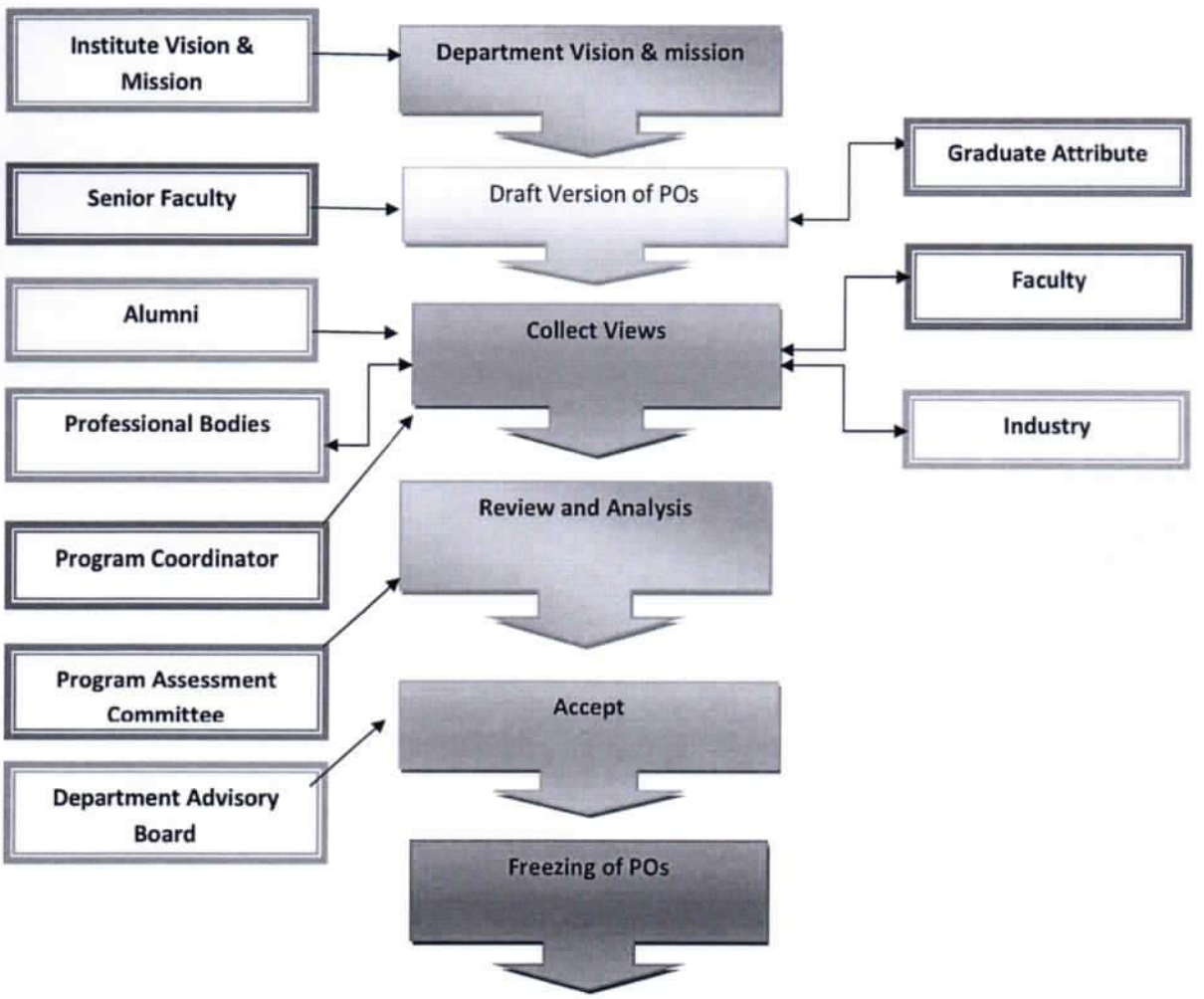
PO-10. Communication: Communicate effectively with their community and with society at large. Be able to comprehend and write effective reports documentation. Make effective presentations, and give and receive clear instructions.

PO-11. Project management and finance: Demonstrate knowledge and understanding of scientific and management principles and apply these to one's own work, as a member and leader in a team. Manage projects in multidisciplinary environments.

PO-12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Process to define Program Outcomes (POs) of the department:

Fig. 1



PROGRAM EDUCATIONAL OBJECTIVES (PEOs):

Program Educational Objectives (PEOs) are statements that describe the career and professional accomplishments that the program is preparing the graduates to achieve. PEO's are measured 4–5 years after graduation. They are set in order to measure the effectiveness of the program and to check whether it has prepared the students to deal with the real world, where they could apply and use the skills and knowledge they've learned to good use.

PEO1 - PROFICIENT DEVELOPMENT

To develop in the students the capacity to obtain knowledge on Mathematics, Science and Engineering and apply it expertly inside sensible requirements, for example, financial, natural, social, political, moral, wellbeing and security, manufacturability and manageability with due moral obligation.

PEO2-CORE PROFICIENCY

To provide ability to recognize, plan, appreciate formulate, comprehend, analyze, design and solve engineering problems with hands on experience in different advancement involving modern tools necessary for engineering practice to fulfill the necessities of society and the business.

PEO3 - SPECIALISED ACHIEVEMENT

To furnished the students with the capacity to explore, reenact, design, simulate, experiment, analyze, optimize and interpret in their core applications through multi disciplinary ideas and contemporary figuring out how to incorporate them into industry prepared graduates.

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PEO4 - PROFESSIONALISM

To provide training, exposure and awareness on importance of soft skills for better career and holistic personality development as well as professional attitude towards ethical issues, team work, responsibility, accountability, multidisciplinary approach and capability to relate engineering issues to broader social context.

PEO5 - LEARNING ENVIRONMENT

To furnish students with an academic environment and make them mindful of greatness, foster the desire of revelation, imagination, creativity, authority, composed moral codes and rules and the long lasting figuring out how to turn into an effective expert in scientific region.

The Process for Establishing the PEO's:

The PEOs are established through the following process steps:

STEP 1: Vision and Mission of the Institute & Department are taken into consideration to interact with various stake holders, and establish the PEO's

STEP 2: The Head of the Department, Program Coordinator and other Senior Faculty prepares the draft version of PEOs and POs.

STEP 3: The draft rendition is examined with partners and their perspectives are gathered by the Program co-ordinator

STEP 4 : The Program Assessment Committee surveys and dissects the PEOs and POs and presents its recommendations to the Departmental advisory Board.

STEP 5: The Departmental advisory Board deliberates on the recommendations and freezes the PEOs and POs and submits them to the BOG for final approval. The Program curriculum is planned by integrating inputs from members of Board of Studies and Academic council who are drawn from various academic institutions, R&D associations and industry.

PROGRAM SPECIFIC OUTCOMES (PSOs):

The graduates of the department will attain:

PSO1: Problem tackling ability

Graduates will actually want to apply the capacity to break down, plan and carry out application explicit electronic framework for complex designing issues for simple, advanced area, correspondences and sign handling applications by applying the information on essential sciences, designing arithmetic and designing basics.

PSO2: Professional Skill

Graduates will actually want to foster quick changes in apparatuses and innovation with a comprehension of cultural and biological issues pertinent to proficient designing practice through long lasting learning.

PSO3: Successful Career Graduates will actually want to have great versatility to work in multi-disciplinary workplace, great relational abilities as a forerunner in a group in enthusiasm for proficient morals and cultural obligations.

Fig 2. Relating Outcomes (CO-PO & PSO-PEO)

This figure shows the building block of CO-PO & PSO-PEO Relationship. After CO statements Develop by course in-charge, CO will map with any possible POs based on the relationship exist between them. But all POs are not necessary mapped with one CO and it may be left blank. Anyhow, it is mandatory that all POs should be mapped with any one of PSO and PEO which are specified in the program.

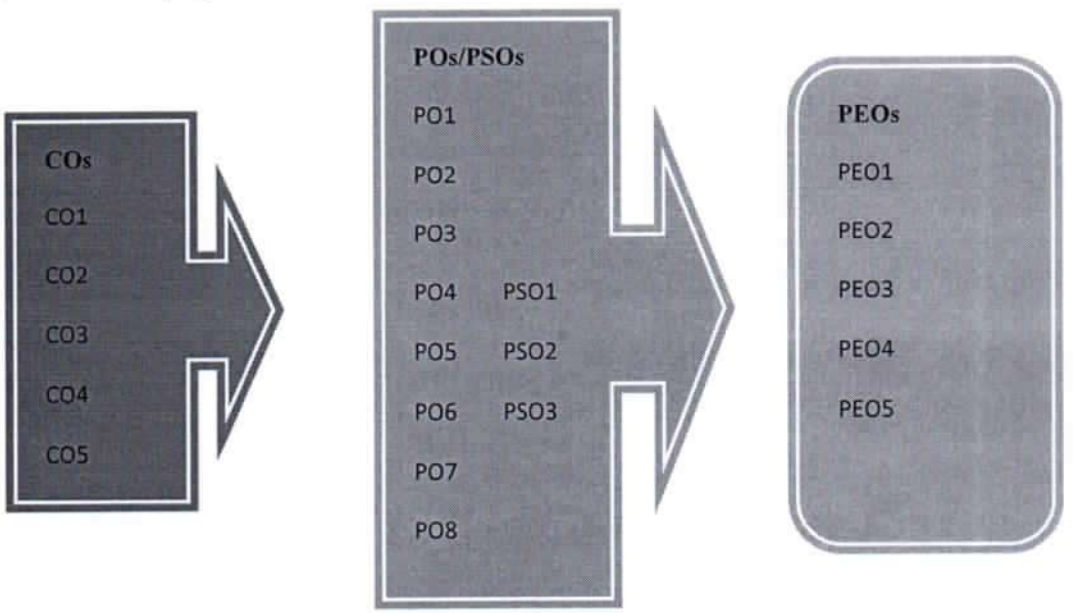


Fig. 3 Relationship between CO, PO, PSO & PEO

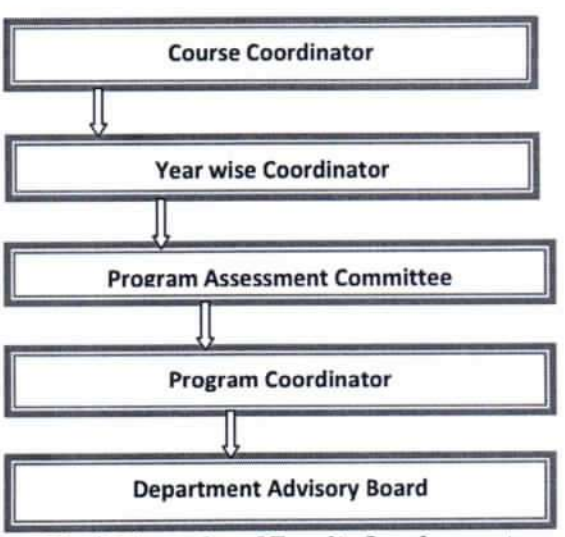


Fig.4 Hierarchy of Faculty Involvement

- **Course Coordinator**: write appropriate COs and finalize the CO-PO mapping.
- **Year wise Coordinator**: Consolidate the CO attainment of the respective year.
- **Program Assessment Committee**: Consolidate the CO attainment and PO attainment of the respective program.
- **Program Coordinator**: Monitor and Guide the Program Assessment Committee.
- **Department Advisory Board**: All these works mention above have to be done under the supervision of Department Advisory Board.

Vision, Mission & PEO are published & disseminated at following places:

Vision , Mission & PEOs			
Sr. No.	**Place of Dissemination**	**Item**	**Dissemination Detail**
1	College Website	Vision ,Mission, PEO	Permanent
2	Depart Area	Vision ,Mission, PEO	Permanent
3	Laboratory Area	Vision ,Mission, PEO	Permanent
4	Notice Board	Vision, Mission,	Permanent
5	Employer Survey Form	Vision ,Mission, PEO	When Required
6	Bulk SMS	Vision ,Mission,	At New Admission
7	Email	Vision ,Mission,	Footer in Every Mail
8	Home Page of ERP	Vision ,Mission,	Permanent
9	Laboratory Manuals	Vision ,Mission,	Permanent
10	Faculty Meetings	Vision ,Mission, PEO	At regular interval
11	In Alumni Interactions	Vision, Mission, PEO	Alumni Meet
12	Back Grounds of all Computers in the Department	Vision, Mission	Permanent

The Process for Updating Vision and Mission of Department:

The following steps are followed to establish Vision and Mission of Department.

Step 1: The Institute's Vision & Mission serve as the starting point in Step 1.

Step 2: The Department holds faculty discussions about the skill sets required by regional and global employers, industry technological breakthroughs, and R & D. A draft of the Department's vision and mission statements is also created in accordance with suggestions made by the Departmental Planning Committee.

Step 3: The draft version is changed in light of feedback from the Departmental Planning Committee, parents, professional organizations, and industry representatives.

Step 4: To ascertain whether the accepted points of view are congruent with the institute's vision and goal. Should the Central Advisory Committee deem the Vision and Mission to be unsatisfactory move on to step 5.

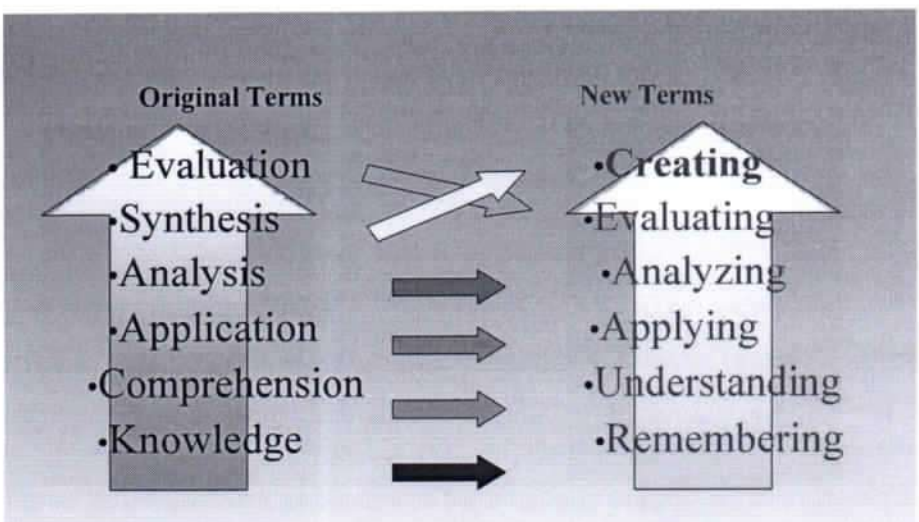
Director

Step 5: The Central Advisory Committee will again request changes from the Departmental Planning Committee if it is not happy with the Vision and Mission.

Step 6: The Vision and Mission are approved and made public among the stakeholders if they meet the requirements of the Central Advisory Committee.

5- Revised Bloom's Taxonomy

Bloom's Taxonomy was created in 1956 under the leadership of educational psychologist Dr Benjamin Bloom in order to promote higher forms of thinking in education, such as analyzing and evaluating concepts, processes, procedures, and principles, rather than just remembering facts. It is most often used when designingeducational, training and learning processes.



Critical thinking is a skill that you are expected to develop as you progress through University. Critical thinking will become part of your research, your reading, your planning and reflection and of your academic writing. It involves a set of skills and an attitude of mind that you will need to cultivate and practice - it won't necessarily come easily or naturally! If you can develop critical thinking skills in relation to your subject, they will be valuable to you in many other aspects of life (including employment).

Bloom's taxonomy of thinking and learning illustrates forms of thinking, in ascending order of complexity, from lower-order thinking skills (LOTS) to higher-order thinking skills (HOTS). It begins with **remembering** and ends with **creating**. This is used by lecturers to set learning outcomes and assessment criteria for a course or module, you will often find these verbs in your module handbooks. The knowledge about a subject alone, like having access to a range of information, or 'facts', is at the simplest or lowest level. So using only, or mostly, descriptive language in your writing, to communicate what you know about a topic is not likely to generate many marks. Higher and more complex levels include the ability to analyze, synthesize and evaluate information by comparing and contrasting different points of view, sets of information or experiences. This might involve recognizing patterns of behavior, for example, and using them to make predictions.

BLOOM'S REVISED TAXONOMY OF THINKING SKILLS Fig.6

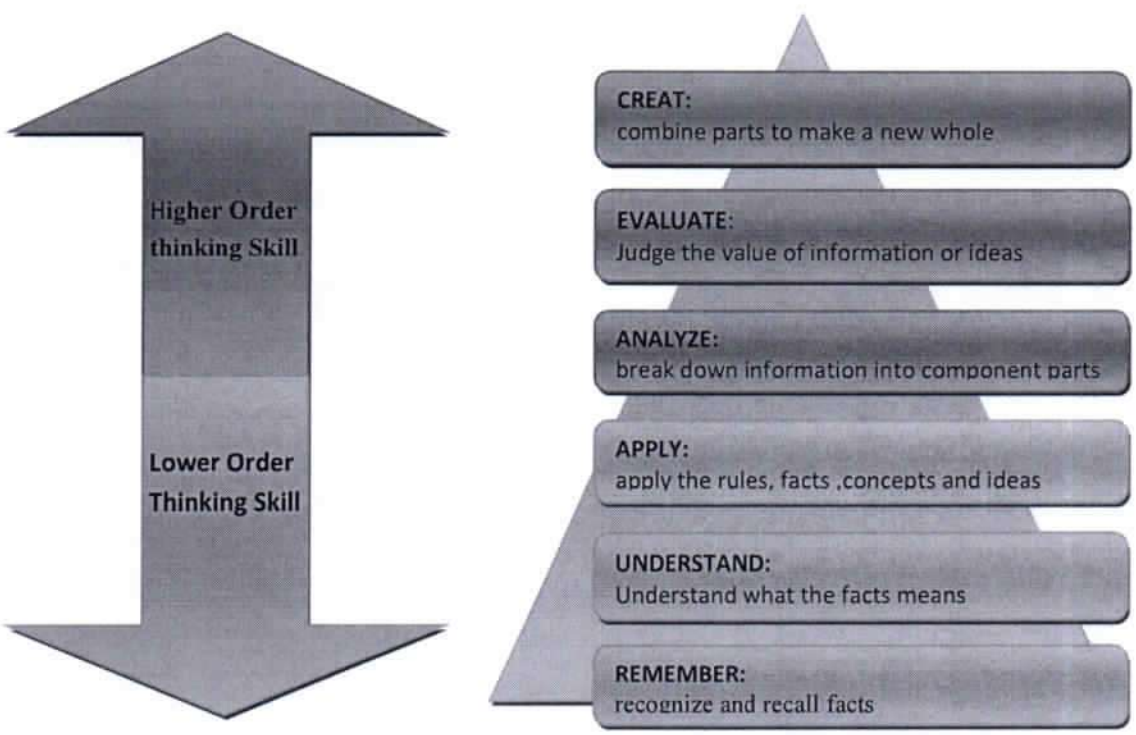
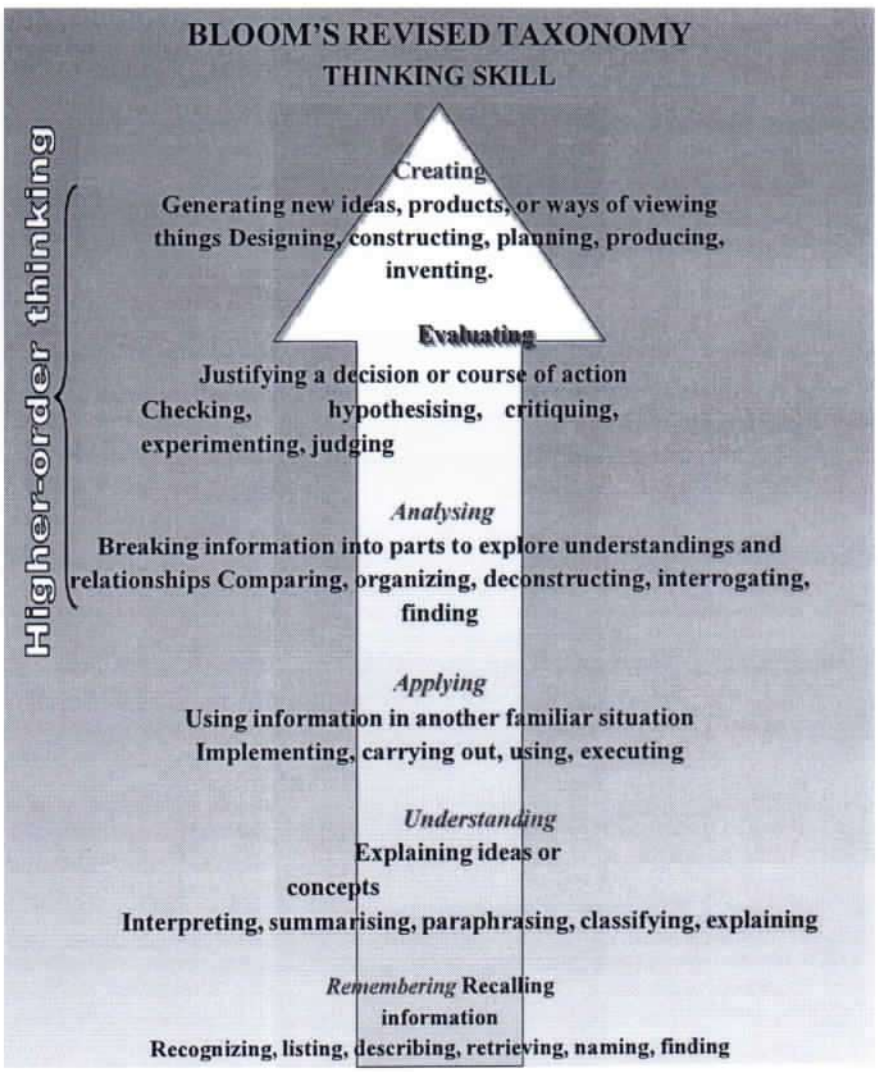


Fig.7


BLOOM'S REVISED TAXONOMY
THINKING SKILL
Higher-order thinking
Creating
Generating new ideas, products, or ways of viewing things Designing, constructing, planning, producing, inventing.
Evaluating
Justifying a decision or course of action
Checking, hypothesising, critiquing, experimenting, judging
Analysing
Breaking information into parts to explore understandings and relationships Comparing, organizing, deconstructing, interrogating, finding
Applying
Using information in another familiar situation
Implementing, carrying out, using, executing
Understanding
Explaining ideas or concepts
Interpreting, summarising, paraphrasing, classifying, explaining
Remembering Recalling information
Recognizing, listing, describing, retrieving, naming, finding

Cognitive processes: Level 1- C1

Categories & Cognitive Processes	Alternative Names	Definition
Apply		Applying a procedure to a familiar task
Executing	Carrying out	Applying a procedure to a familiar task
Implementing	Using	Applying a procedure to an unfamiliar task

Level- 2 C2

Categories & Cognitive Processes	Alternative Names	Definition
Understand		Construct meaning from instructional messages, including oral, written, and graphic communication
Interpreting	Clarifying Paraphrasing Representing Translating	Changing from one form of representation to another
Exemplifying	Illustrating Instantiating	Finding a specific example or illustration of a concept or principle
Classifying	Categorizing Subsuming	Determining that something belongs to a category
Summarizing	Abstracting Generalizing	Abstracting a general theme or major point(s)
Inferring	Concluding Extrapolating Interpolating Predicting	Drawing a logical conclusion from presented information
Comparing	Contrasting Mapping Matching	Detecting correspondences between two ideas, objects, and the like
Explaining	Constructing models	Constructing a cause and effect model of a system

Level- 3 C3

Categories & Cognitive Processes	Alternative Names	Definition
Remember		Retrieve knowledge from long- term memory
Recognizing	Identifying	Locating knowledge in long-term memory that is consistent with presented material
Recalling	Retrieving	Retrieving relevant knowledge from long-term memory

Analyze		Break material into its constituent parts and determine how the parts relate to one another and to an overall structure or purpose
Differentiating	Discriminating Distinguishing Focusing Selecting	Distinguishing relevant from irrelevant parts or important from unimportant parts of presented material
Organizing	Finding coherence Integrating Outlining Parsing Structuring	Determining how elements fit or function within a structure
Attributing	Deconstructing	Determine a point of view, bias, values, or intent underlying presented material

Level-4 C4

Evaluate		Make judgments based on criteria and standards
Checking	Coordinating Detecting Monitoring Testing	Detecting inconsistencies or fallacies within a process or product; determining whether a process or product has internal consistency; detecting the effectiveness of a procedure as it is being implemented
Critiquing	Judging	Detecting inconsistencies between a product and external criteria; determining whether a product has external consistency; detecting the appropriateness of a procedure for a given problem

Level- 5 C5

Categories & Cognitive Processes	Alternative Names	Definition
Create		Put elements together to form a coherent or functional whole; reorganize elements into a new pattern or structure
Generating	Hypothesizing	Coming up with alternative hypotheses based on criteria
Planning	Designing	Devising a procedure for accomplishing some task
Producing	Constructing	Inventing a product

Level-6 c6

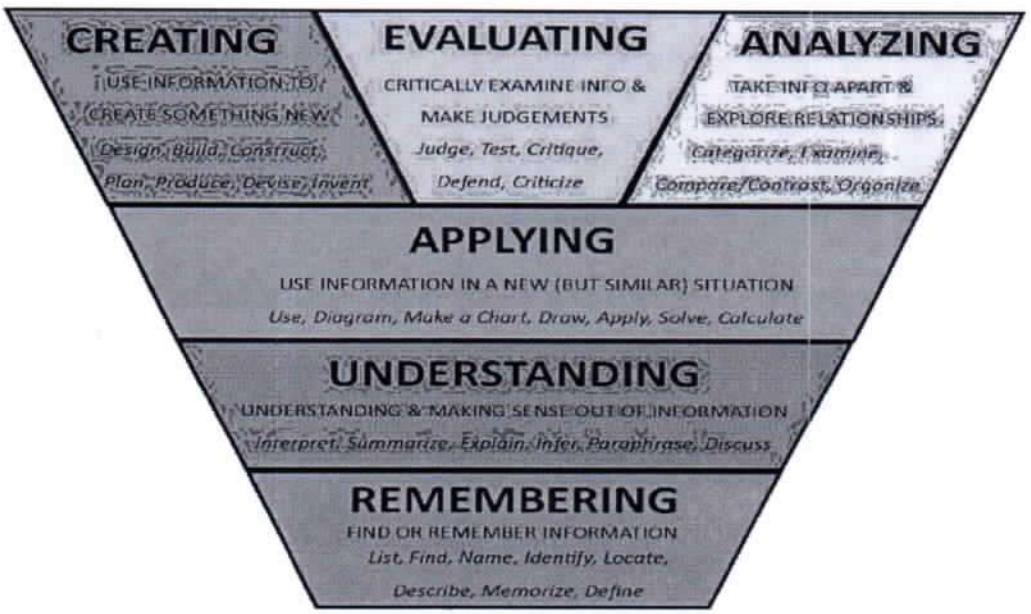


Fig-8 Pictorial representation of Blooms Taxonomy

The Knowledge Dimension

Dimension	Definition
Factual Knowledge	The basic elements students must know to be acquainted with a discipline or solve problems in it
Conceptual Knowledge	The interrelationships among the basic elements within a larger structure that enable them to function together
Procedural Knowledge	How to do something, methods of inquiry, and criteria for using skills, algorithms, techniques, and methods
Met cognitive Knowledge	Knowledge of cognition in general as well as awareness and knowledge of one's own cognition

Cognitive Process 1: To Remember

Remembering consists of recognizing and recalling relevant information from long-term memory.

Verbs associated with this level:

Choose, define, describe, find, identify, label, list, locate, match, name, recall, recite, recognize, record, relate, retrieve, say, select, show, sort and tell

Cognitive Process 2: To understand

Understanding is the ability to make your own meaning from educational material such as reading and teacher explanations. The sub-skills for this process include interpreting, exemplifying, classifying, summarizing, inferring, comparing, and explaining.

Verbs associated with this level:

Categorize, clarify, classify, compare, conclude, construct, contrast, demonstrate, distinguish, explain, illustrate, interpret, match, paraphrase, predict, represent, reorganize, summarize, translate and understand

Cognitive Process 3: To apply

Applying refers to using a learned procedure either in a familiar or new situation.

Verbs associated with this level:

Apply, carry out, construct, develop, display, execute, illustrate, implement, model, solve and use

Cognitive process 4: To Analyze

To analyze is to break material into its constituent parts and determine how the parts relate to one another and to an overall structure or purpose. Students analyze by differentiating, organizing, and attributing.

Verbs associated with this level:
Analyze, ascertain, attribute, connect, deconstruct, determine, differentiate, discriminate, dissect, distinguish, divide, examine, experiment, focus, infer, inspect, integrate, investigate, organize, outline, reduce, solve (a problem) and test fo

Cognitive Process 5: To evaluate
To evaluate is to make judgments based on criteria and standards.

Verbs associated with this level:
Appraise, assess, award, check, conclude, convince, coordinate, criticize, critique, defend, detect, discriminate, evaluate, judge, justify, monitor, prioritize, rank, recommend, support, test, value

Cognitive Process 6: To Create
To create is to put elements together to form a coherent or functional whole; reorganize elements into a new pattern or structure; inventing a product. This skill involves putting things together to make something new. To accomplish creating tasks, learners generate, plan, and produce.

Verbs associated with this level:
Adapt, build, compose, construct, create, design, develop, elaborate, extend, formulate, generate, hypothesize, invent, make, modify, plan, produce, originate, refine, transform.

CO – PO AND CO – PSO MAPPING OF COURSES:
Mapping Factor (Correlation Level)

The role of CO-PO mapping will be assigned to the faculty as per hierarchy. The course in-charge is responsible for writing the necessary COs for their corresponding course after receiving the department's course (subject) allocation.. COs will be created utilizing the action verbs of the various learning levels., CO statements that are relevant to the skills, knowledge, and behavior that students will learn during the end of each course should be more specific and quantifiable.

After writing the CO statements, CO will be mapped with PO of the department. If the department is having more than one section in a year or the same course is available for more than one program of the same institute in a semester, the subject expert will be nominated as course coordinator of the corresponding course. The role of the course coordinator is to review the CO statements and the CO-PO mapping which has been done by course in-charge. The year wise coordinator has to consolidate the CO's of the respective year and maintain the documentation of the CO attainment level of the respective year courses as well as documentation of the individual students' extra-curricular and co-curricular activities. These details will hand over to the program coordinator in order to evaluate PO attainment of the individual student as well as individual course at the end of the 8th semester. The Program coordinator has to evaluate the PO attainment of individual student through direct and indirect method after the student completing their program. All these works have to be done under the guidance of Department Advisory Committee (DAC). CO – PO mapping indicates to what extent a certain component (either assessment method to CO or CO to PO or PO to

PEO & PSO are correlated to each other. Course correlation matrix shows the **Learning Relationship** (level of learning achieved) between COs and POs of a course. This matrix also strongly indicates whether the students are able to achieve the course outcomes/objectives. All the courses together must cover all the POs and PSOs. For a course we map the COs to POs through the CO-PO matrix and to PSOs through the CO-PSO matrix. The matrix can be used for any course and it is good method to evaluate a course syllabus. The various correlation levels are:

* **3- indicates Substantial (high)** mapping (high contribution towards attainment)

* **2- indicates Moderate** (medium) mapping (medium contribution towards attainment)

* **1- indicates Slight (low)** mapping (some contribution towards attainment)

* **"-" indicates there is no correlation.**

Procedure followed while assigning the values by Mapping COs to POs:

Judging the importance of the particular COs in relation to the POs.

- If the CO matches strongly with a particular PO criterion then **Assign 3.**
- If it matches moderately then **Assign 2.**
- If the match is low then **Assign 1.**
- If there is no correlation between any CO with PO else mark with **'-' Symbol**

• If an action verb used in a CO is repeated at multiple Blooms levels, then we need to judge which Blooms level is the best fit for that action verb the first five POs are purely of **technical** in nature, while the other POs are **non-technical.**

• Writing the COs, we need to restrict ourself between Blooms Level 1 to Level 4. Again, if it is a programming course, restrict between Blooms Level 1 to Level 3 but for the other courses, we can go up to Blooms Level 4.

• For the laboratory courses, while composing COs, we need to restrict our self between Blooms Level 1 to Level 5.

• Only for Mini-project and Main project, you may extend up to Blooms Level 6 while composing COs.

Note: * The table given below gives information about the action verbs used in the POs and the nature of POs, stating whether the POs are technical or non-technical. we need to understand the intention of each POs and the Bloom's level to which each of **POs** and the Blooms level to which each of these action verbs in the POs correlates to. Once you have understood the **POs** then you can write the COs for a course and see to what extent each of those COs correlate with the POs.

Table 1: Process for mapping the values for CO-PO Matrix

Type	POs	Action Verb(s) in POs	Bloom's Level(s) for POs	Blooms Level(s) for COs
Technical	PO1	Apply	L3	Blooms L1 to L4 for Theory Courses
	PO2	Identify	L2	
		Formulate	L6	
		Review	L2	
	PO3	Design	L3,L6	
		Develop	L3,L6	Blooms L1 to L5 for Laboratory Courses
	PO4	Analyze	L4	
		Interpret	L2 , L3	
		Design	L6	Blooms L1 to L6 for Mini Project and Major Project
	PO5	Create	L6	
		Select	L1 , L2 L6	
		Apply	L3	
	PO6	Apply	L3	
		Assess	L5	

Type	Thumb Rule	
Non Technical	PO7	If Blooms L1 Action Verbs of a CO -> Correlates any of PO7 to PO12 -> then Assign 1
	PO8	If Blooms L2 to L3 Action Verbs of a CO -> Correlates any of PO7 to PO12 -> then Assign 2
	PO9	
	PO10	If Blooms L4 to L6 Action Verbs of a CO -> Correlates any of PO7 to PO12 -> then Assign 3
	PO11	
	PO12	

CO-PO & PSO MAPPING FOR CO-PO MATRIX: SAMPLE

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

Course : B.Tech. 1ST YEAR Semester: I/II Academic Year:2021-22
Course Name : Engineering Mathematics Course Code : KAS103T/KAS203T

CO-PO & PSO MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	2	2	2	-	-	-	-	-	-	-	3	2	-
CO2	2	2	2	2	2	-	-	-	-	-	-	-	3	1	1
CO3	2	-	2	2	2	-	-	-	-	-	-	-	2	-	-
CO4	2	1	2	1	2	-	-	-	-	-	-	-	1	1	-
CO5	1	2	2	1	1	-	-	-	-	-	-	-	1	1	-

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

Course : B.Tech. Semester: I/II Academic Year:2021-2022
Course Code : KAS102T/KAS202T Course Name : Engineering Chemistry

CO-PO & PSO MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	-	-	-	-	-	-	-	-	3	1	-
CO2	2	-	-	-	-	-	-	-	-	-	-	-	3	-	-
CO3	2	-	1	-	-	-	-	-	-	-	-	-	1	-	-
CO4	2	1	1	-	-	-	-	-	-	-	-	-	-	1	-
CO5	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

Course : B.Tech. Semester: I /II Academic Year:2021-2022

Course Code : KAS101T /KAS201T Course Name : Engineering Physics

CO-PO & PSO MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	-	-	-	-	-	-	-	-	3	1	-
CO2	2	-	-	-	-	-	-	-	-	-	-	-	3	-	-
CO3	2	-	1	-	-	-	-	-	-	-	-	-	1	-	-
CO4	2	1	1	-	-	-	-	-	-	-	-	-	-	1	-
CO5	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

Course : B.Tech. Semester: I/II Academic Year:2021-2022

Course Code : KEC 101 / KEC201 Course Name : ENERGING DOMAIN OF ELECTRONICS ENG.

CO-PO & PSO MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	2	2	-	-	-	-	-	-	1	3	1	-
CO2	3	2	2	2	-	-	-	-	-	-	-	- 3	-	-	
CO3	3	1	2	2	-	-	-	-	-	-	-	-	1	-	-
CO4	3	1	2	2	-	-	-	-	-	-	-	-	-	1	-
CO5	-	1	1	2	-	-	-	-	-	-	-	-	-	1	-

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

Course : B.Tech. Semester: I/ II Academic Year:2021-2022

Course Code : KCS 101T /KCS 201T Course Name : PPS

CO-PO & PSO MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	-	-	-	-	-	-	-	-	3	1	-
CO2	1	1	2	2	1	-	-	-	-	-	-	-	2	1	1
CO3	2	1	2	-	-	-	-	-	-	-	-	-	1	-	-
CO4	2	1	1	-	-	-	-	-	-	-	-	-	-	1	-
CO5	2	1	1	-	-	-	-	-	-	-	-	-	-	1	-

Course : B.Tech. Semester: I & II Academic Year:2021-2022
Course Code : KEE101T/KEE201T Course Name : Basic Electrical Engineering

CO-PO & PSO MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	-	-	-	-	-	-	-	-	3	1	-
CO2	2	1	3	1	1	-	-	-	-	-	-	-	3	1	1
CO3	3	1	2	3	-	-	-	-	-	-	-	-	1	-	-
CO4	2	1	1	-	-	-	-	-	-	-	-	-	-	1	2
CO5	1	3	1	-	-	-	-	-	-	-	-	-	-	1	2

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

Course : B.Tech. Semester: I & II Academic Year:2021-2022
Course Code : KME101T / KME201T Course Name : FME&M

CO-PO & PSO MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	2	1	-	-	-	-	-	-	-	3	1	-
CO2	2	2	1	-	2	-	-	-	-	-	-	-	3	1	1
CO3	3	-	1	-	-	-	-	-	-	-	-	-	1	-	-
CO4	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-
CO5	2	2	1	2	1	-	-	-	-	-	-	-	-	1	-

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

Course : B.Tech. Semester: 1st&2nd Academic Year:2021-2022
Course Code : KNC10 1/KNC201 Course Name : Soft Skills

CO-PO & PSO MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	-	1	1	2	1	2	2	1	1	3	2	3	3	1	-
CO2	1	1	2	2	-	1	1	2	3	3	2	3	3	1	1
CO3	1	2	2	1	1	2	2	3	2	3	3	3	1	-	-
CO4	-	1	2	2	1	2	2	3	3	3	3	3	-	1	-
CO5	1	1	3	1	-	2	2	2	3	3	2	3	-	1	-

Attainment of Course Outcomes

In the Outcome Based Education (OBE), assessment is done through one or more than one processes, carried out by the department, that identify, collect, and prepare data to evaluate the achievement of course outcomes (CO's).
The process for finding the attainment of Course outcomes uses various tools/methods. These methods are classified into two types:

Assessment Methodology (Direct and Indirect)

Direct methods:

Direct methods display the student's knowledge and skills from their performance in the class assignment test (It is a metric used to continuously assess the student's understanding capabilities) , internal assessment tests [the Internal Assessment marks in a theory paper shall be based on two tests, sessional test(mid-1) & pre university test (PUT) mid-2], End semester examinations (theory or practical), seminars, laboratory assignments/experiments (it is a qualitative performance assessment tool designed to assess student's practical knowledge and problem solving skills), mini/major projects, add on courses, certification, presentations (as per the requirement) etc. These methods provide a sampling of what students know and/or can do and provide strong evidence of student learning.
Various methods used in assessment process that periodically documents and demonstrates the degree to which the Course Outcomes are attained.

Indirect methods:

Indirect methods such as course exit survey/assignments of course outcomes by feedback, assignments of mini/major project by external experts, faculty feedback, examiner feedback & others survey to reflect on student's learning. They are used to assess opinions or thoughts about the graduate's knowledge or skills.
Collect variety of information about course outcomes from the students after learning entire course.

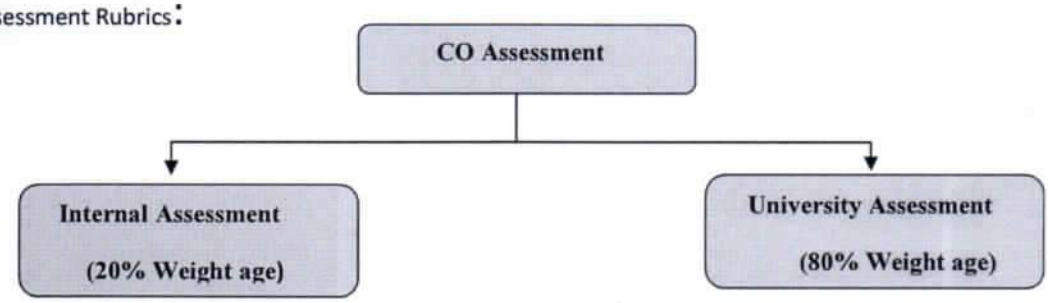
Rubrics are used for both formative and summative assessment of students. Same rubric is used for assessing an outcome so that the faculty is able to assess student progress and maintain the record of the same for each student.

ASSESSMENT PROCESS

Assessment Process for CO Attainment:

For the evaluation and assessment of CO's and PO's, rubrics are used. The rubrics considered here are given below:

CO Assessment Rubrics:



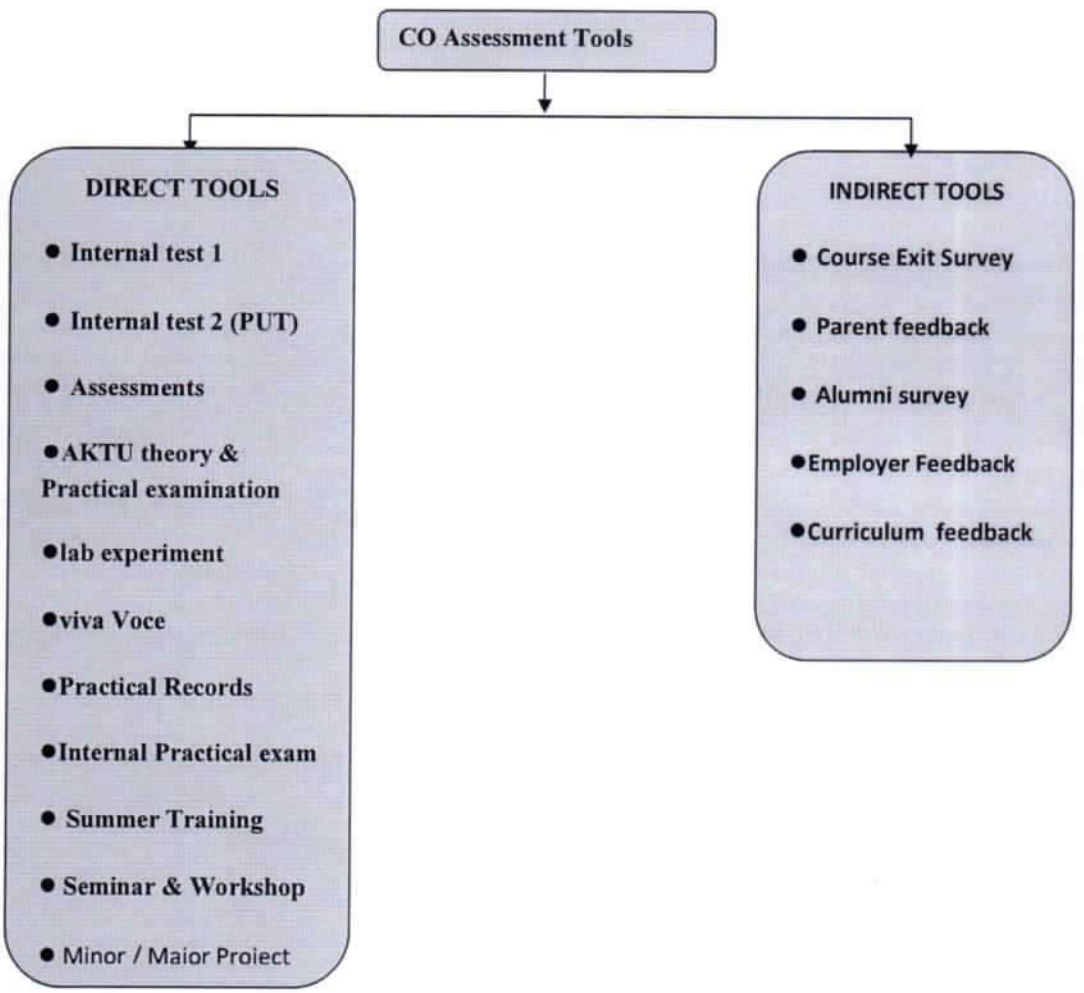
Assessment Type	Assessment method	weight age	Assessment Period	Assessment and Reviewed By
Direct	Assessment tool based on Subject nature	80% (80% of AKTU Examination + 20% of the Assessment tools)	Once per Semester	Department Advisory committee
	AKTU Examination		Once per Semester	
Indirect	Current Passing out Students Survey	20%	8th semester	Department Advisory committee
	Recruiters Survey		Every Placement activity	
	Alumni Survey		Once per Year	

Course Outcome is evaluated based on the performance of students in internal assessments and in university examination of a course. Internal assessment contributes 20% and university assessment contributes 80% to the total attainment of a CO.

CO Assessment Tools

The description of Assessment tools used for the evaluation of program outcomes is given in Table below. The various assessment tools used to evaluate COs and the frequency with which the assessment processes are carried out are listed in this table In each course, the level of attainment of each CO is compared with the predefined targets, if is not, the course coordinator takes necessary steps for the improvement to reach the target. With the help of CO against PO/PSO mapping, the PO/PSO attainment is calculated by program coordinator. Assessment Tools are of two types' direct tools and indirect tools. Which are described below?

Fig-9

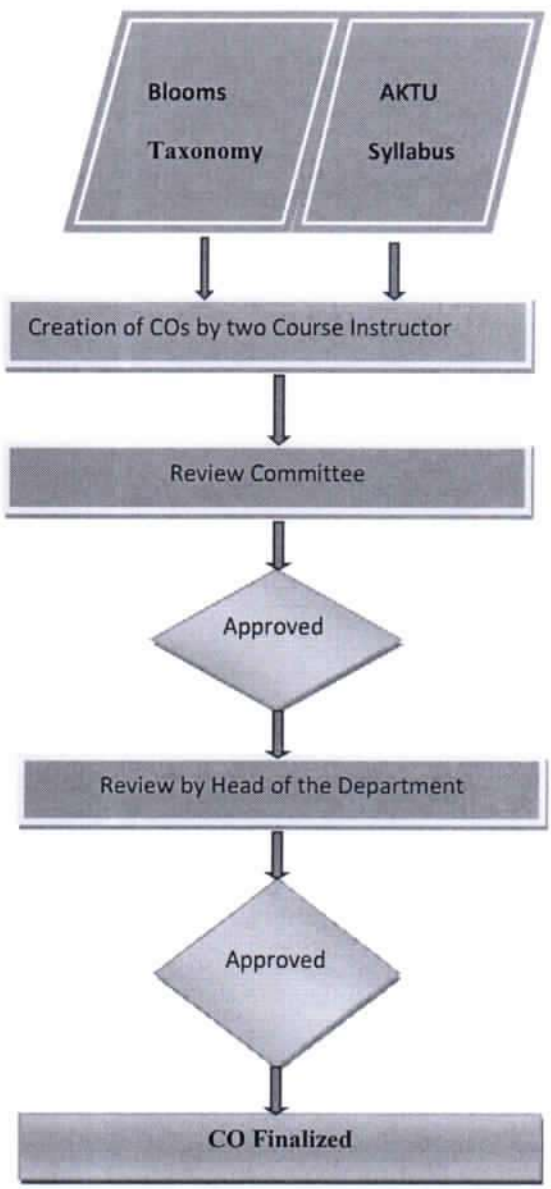

CO Assessment Tools
DIRECT TOOLS
Internal test 1
Internal test 2 (PUT)
Assessments
AKTU theory & Practical examination
lab experiment
viva Voce
Practical Records
Internal Practical exam
Summer Training
Seminar & Workshop
Minor / Maior Project
INDIRECT TOOLS
Course Exit Survey
Parent feedback
Alumni survey
Employer Feedback
Curriculum feedback

Assessment process for calculating the attainment of POs and PSOs

Assessment Process for Evaluation of Course Outcomes:

Assessment tools and its frequency, the responsible authority to collect the data and its relevant COs, are tabulated as follows:

Fig.



Assessment Method & Attainment Level :

Step 1: Obtain Course Outcome.

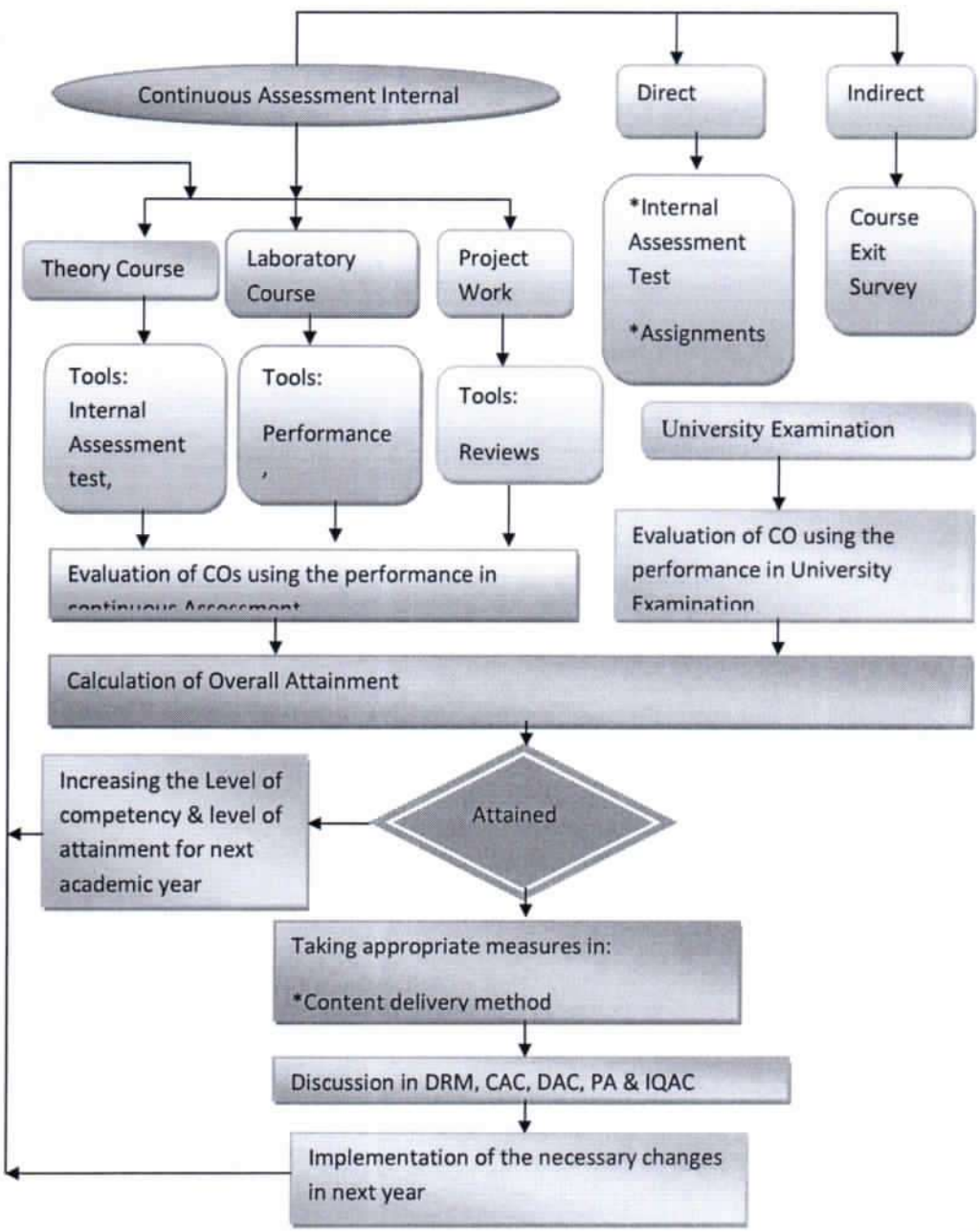
Step 2: Mapping of CO with PO.

Step 3: Setting weight- age for CO assessment.

Step 4: COs measurement through assessment.

Step 5: Obtain PO attainment table through direct and indirect method.

Process for CO Attainment: Fig. 10



Methodology for Evaluating Course Outcomes (COs) Internal

Concurrent Evaluation Criteria				
Pattern	**Nature of Course Full / Half Credit**	**Concurrent Evaluation**	**Nature of Exam/Assignments/Others**	**Converted Marks**
1. B. Tech Odd/Even (2021- 22) **2. MBA- Odd/Even (2021- 22)**	1- Generic Core Courses (Full credit) 2- Generic Elective courses (Half Credit)	**Internal Test 1(sessional)** & **Internal Test 2 (PUT)**	**Test 1 Marks- 40** (CO1 & CO2- 20 Mark each) **Test 2 (PUT) Marks - 60** (CO_3 ,CO4 & CO5 - 20 Marks each)	**Test 1**: CO1 & CO2 (Objective) = 20 (10 marks each) **Test 2** : CO3,CO4 & CO5 (Descriptive) = 30 (10 marks each)
		Assignments (Unit wise)	Unit-1 Unit-2 Unit-3 Unit-4 Unit-5	25 (5 Marks Each)
		***Others**	Seminar/Presentation/Project (Mini/Major)/Viva/Quiz/Work shop etc.	25 (5 Marks Each)
			Total Marks (Each COs)-	100

Table: 2

*** Presentation / Case Study / Role Play/ Industrial Visit/Field Visit/ Seminar/Guest Lecture /MCQs/Research paper writing/ Viva etc.**

Methodology for Evaluating Course Outcomes (COs) External

COMPUTATION OF SGPA, YGPA & CGPA

The Dr. A.P.J. Abdul Kalam Technical University (APJAKTU), Lucknow adopts absolute grading system wherein the marks are converted to grades and every semester results will be declared with semester grade point average (SGPA). Yearly Grade Point Average (YGPA) shall be calculated at each year by calculating from the formula given in section 14.4 (b) of an academic year. The Cumulative Grade Point Average (CGPA) shall be calculated at the end of last semester of the program. The grading system is with the following letter grades and grade points scale as given below:

Score (Marks) Range	(AKTU Guidelines) Letter Grade	Level	Grade Points
≥ 90	A^+	Outstanding	10
<90	A	Excellent	9
<80 , ≥70	B^+	Very Good	8
<70 ,≥60	B	Good	7
<60 ,≥50	C	Above Average	6
<50 ,≥45	D	Average	5
<45 ,≥ 40	E	Poor	4
<40	F	Fail	00

41	2104280100044	JAGRITI SINGH	42	21	63	42	D
42	2104280100045	JANHAVI SINGH	47	46	93	62	B
43	2104280100046	JATIN KUMAR	43	33	76	50.6666667	C
44	2104280100047	KARAN SINGH	41	26	67	44.6666667	D
45	2104280100048	KHYATI VISHWAKARMA	46	42	88	58.6666667	C
46	2104280100049	KM KOMAL GIRI	47	34	81	54	C
47	2104280100050	KUNWAR GAURAV SINGH	48	52	100	66.6666667	B
48	2104280100051	LAIBA FATIMA KHAN	44	36	80	53.3333333	C
49	2104280100052	LAVKUSH	45	20	65	43.3333333	D
50	2104280100053	MADHABI BISWAS	45	25	70	46.6666667	D
51	2104280100054	MAHIMA TRIPATHI	50	54	104	69.3333333	B
52	2104280100055	MANDISHA KAUSHIK	43	16	59	39.3333333	F
53	2104280100056	MOHAMMAD SHAHIL	46	1	47	31.3333333	F
54	2104280100057	MOHIT SINGH	44	15	59	39.3333333	F
55	2104280100058	NIDHI MAURYA	47	32	79	52.6666667	C
56	2104280100059	NIRAJ PAL	43	49	92	61.3333333	B
57	2104280100060	OM PRAKASH MISHRA	44	15	59	39.3333333	F
58	2104280100061	OM SHARAN RAO	43	42	85	56.6666667	C
59	2104280100062	PAWAN RAI	44	38	82	54.6666667	C
60	2104280100063	PIYUSH KUMAR SHAH	43	16	59	39.3333333	F
61	2104280100064	PRAKHAR SRIVASTAVA	42	7	49	32.6666667	F
62	2104280100065	PRANJAL MAURYA	46	58	104	69.3333333	B
63	2104280100066	PRASHANT JAISWAL	45	11	56	37.3333333	F
64	2104280100067	PRATEEK KUMAR SRIVASTAVA	46	40	86	57.3333333	C
65	2104280100070	PRINCE BHARDWAJ	44	30	74	49.3333333	D
66	2104280100071	PRIYANK VERMA	44	52	96	64	B
67	2104280100072	PRIYANSHU SINGH	47	14	61	40.6666667	D
68	2104280100073	PRIYANSHU SINGH	44	50	94	62.6666667	B
69	2104280100074	RAHI SHARMA	50	62	112	74.6666667	B+
70	2104280100075	RANI KUSHWAHA	50	55	105	70	B+
71	2104280100076	RATAN SINGH	43	16	59	39.3333333	F
72	2104280100077	RAVI KANT SINGH	44	58	102	68	B
73	2104280100078	RAVI MISHRA	43	0	43	28.6666667	F
74	2104280100079	RAY SAHAB PATEL	46	30	76	50.6666667	C
75	2104280100080	RIKESH KUMAR YADAV	44	36	80	53.3333333	C
76	2104280100081	RISHA FAROOQUI	44	41	85	56.6666667	C
77	2104280100082	RISHIKA PATEL	45	33	78	52	C
78	2104280100084	ROSHAN KUMAR SHARMA	47	38	85	56.6666667	C
79	2104280100085	SAJAL OJHA	35	30	65	43.3333333	D
80	2104280100086	SAKSHI VISHWAKARMA	44	4	48	32	F
81	2104280100087	SAMEER SINGH	43	48	91	60.6666667	B
82	2104280100088	SANTOSH KUMAR SHUKLA	47	37	84	56	C
83	2104280100089	SARTHAK SINGH	47	16	63	42	D
84	2104280100090	SARLBH PANDEY	45	10	55	36.6666667	F

KASHI INSTITUTE OF TECHNOLOGY, VARANASI

CO Attainment for End Semester Examination (AKTU 80%)

Cource : B.Tech Semester: I st Academic Year:2021-2022
Course Code : KAS102T Course Name : Engineering Chemistry
Section : A
Name of the Faculty : Dr. Rupesh Kumar Singh

S.N.	University Roll No.	NAME OF STUDENT	Internal Marks (50)	External Markes (100)	Total Marks (150)	Percentage	Grade Point Obtained
			Marks Obtained	Marks Obtained			
1	2104280100001	ABHAY VISHWAKARMA	43	6	49	32.6666667	F
2	2104280100002	ABHINAV KUMAR SINGH	44	30	74	49.3333333	D
3	2104280100004	ABHISHEK SHARMA	40	20	60	40	D
4	2104280100005	ADARSH GIRI	43	19	62	41.3333333	D
5	2104280100006	ADITYA GUPTA	44	34	78	52	C
6	2104280100007	ADITYA KUMAR	43	22	65	43.3333333	D
7	2104280100008	AKANKSHA GUPTA	43	16	59	39.3333333	F
8	2104280100009	AKASH DWIVEDI	45	42	87	58	C
9	2104280100010	AKASH JAISWAL	44	11	55	36.6666667	F
10	2104280100011	AKSHARA SRIVASTAVA	45	31	76	50.6666667	C
11	2104280100012	AMAN PANDEY	41	3	44	29.3333333	F
12	2104280100013	AMAN SINGH	50	54	104	69.3333333	B
13	2104280100014	AMAN YADAV	46	14	60	40	D
14	2104280100015	ANANYA SINGH	43	16	59	39.3333333	F
15	2104280100016	ANKIT KUMAR SINGH	49	36	85	56.6666667	C
16	2104280100017	ANKIT SRIVASTAV	44	50	94	62.6666667	B
17	2104280100018	ANUP KUMAR PANDEY	44	6	50	33.3333333	F
18	2104280100019	ANUPRIYA SINHA	49	53	102	68	B
19	2104280100020	ANURAG SRIVASTAV	45	10	55	36.6666667	F
20	2104280100021	APARNA CHAURASIA	44	34	78	52	C
21	2104280100022	ARIHANT UPADHYAY	46	47	93	62	B
22	2104280100023	ARIJIT SRIVASTAVA	45	30	75	50	C
23	2104280100024	ARYAN SINGH	46	5	51	34	F
24	2104280100025	ASHISH KUMAR	46	4	50	33.3333333	F
25	2104280100027	ATUL TIWARI	46	14	60	40	D
26	2104280100029	AYUSHI ADITI	38	60	98	65.3333333	B
27	2104280100030	AYUSHI SINGH	43	22	65	43.3333333	D
28	2104280100031	BALENDU NARAYAN JHA	48	25	73	48.6666667	D
29	2104280100032	CHETAN SINGH	45	1	46	30.6666667	F
30	2104280100033	GAURAV SHARMA	50	48	98	65.3333333	B
31	2104280100034	GULPHAM HUSSAIN	50	39	89	59.3333333	C
32	2104280100035	GULSHAN KUMAR MAURYA	48	49	97	64.6666667	B
33	2104280100036	GUNJA SINGH YADAV	43	44	87	58	C
34	2104280100037	GYAN PRAKASH	48	30	78	52	C
35	2104280100038	GYANENDRA PRATAP SINGH	46	15	61	40.6666667	D
36	2104280100039	HARSH PANDEY	42	30	72	48	D
37	2104280100040	HARSH SHUKLA	45	30	75	50	C
38	2104280100041	HARSH SINGH	48	46	94	62.6666667	B
39	2104280100042	HIMANSHU TIWARI	42	0	42	28	F
40	2104280100043	HIMANSHU UPADHYAY	43	30	73	48.6666667	D

Director

85	2104280100091	SATYAM PATEL	44	44	88	58.6666667	C
86	2104280100092	SATYAM TIWARI	46	23	69	46	D
87	2104280100093	SAURABH KUMAR	44	0	44	29.3333333	F
88	2104280100094	SAURABH SINGH	47	35	82	54.6666667	C
89	2104280100095	SEJAL SINGH	45	42	87	58	C
90	2104280100096	SHIVAM RAI	43	12	55	36.6666667	F

Total Number Of Student	**90**
Number of Students Secured >= 50 % Marks	**46**
% of Students Attained	**51.11111111**
Attainment Level	**2**

Gap Analysis

Achieved Attainment %	Target Attainment %	Target in Level	Attainment Level	Gap = Target in level - Attainment in level
51.11111111	Target Attainment>= 50 %	3	2	1

Action Taken Report	
COs	**Action Taken**
CO1, CO2, CO3, CO4,CO5	Attained

Action taken for identified Gap (For Next Semester)
*Students are encouraged to Enrol NPTEL online certification course and to appear for certification exam.
*Remedial Classes will be conducted.
*Bridge classes for units.
*Assignments for critical topic.
*Solution for university question for unit.

Rationale :

Since question wise students marks are not provided by affiliating university these marks are kept separate. If results are ailable with question wise marks **COs** wise analysis might have been done .

As we expect that each student must at least get 40% marks and he/ she may secure with pass percentage.

% of Marks Secured in a Subject / Course	Letter Grade (AKTU Guidelines)	LEVEL	Grade Points
≥ 90	A+	(Outstanding)	10
< 90	A	(Excellent)	9
< 80, ≥ 70	B+	(Very Good)	8
< 70, ≥ 60	B	(Good)	7
< 60, ≥ 50	C	(Above Average)	6
< 50, ≥ 45	D	(Average)	5
< 45, ≥ 40	E	(Poor)	4
< 40	F	(Fail)	0

Target / Threshold Level & Attainment Level		
60% Students Scoring >=50% Marks	If 50% Students Scoring >=50%	If 40% Students Scoring >=50% Marks
Attainment Level - 3 (H)	Attainment Level - 2	Attainment Level - 1 (L)

Direct Assessment of COs, POs & PSOs:

(Quality / Relevance of Assessment Process)

Assessment Process for Evaluation of Theory Courses

Assessment Tools and its frequency, the responsible authority to collect the data and its relevant COs, are tabulated in tables.

Assessment Tools	Assessment Period	Assessed By	Reviewed By	Mapping with COs
Class Test -1 Class Test -2 (Pre University Test) (PUT)	Once Per Semester	Course Instructor	Department Advisory committee (DAC)	Relevant CO
Assignments-1	Once Per Semester	Course Instructor	Department Advisory committee (DAC)	CO1
Assignments-2				CO2
Assignments-3				CO3
Assignments-4				CO4
Assignments-5				CO5
Quizzes	Once Per Semester	Course Instructor	Department Advisory committee (DAC)	All COs
University Semester Exam	Once Per Semester	Course Instructor	Department Advisory committee (DAC)	All COs

Assessment Tools	Assessment Period	Assessed By	Reviewed By	Mapping with COs
Lab Experiment	Throughout Semester	Course Instructor	Department Advisory committee (DAC)	All COs
Viva Voce	Throughout Semester	Course Instructor		All COs
Practical Record	Throughout Semester	Course Instructor		All COs
Internal Practical Exam	Once Per Semester	Internal Examiners		All COs
University Semester Exam	Once Per Semester	Internal Examiners appointed by the department & External Examiners Appointed by AKTU		All COs

Assessment Process for Evaluation of Laboratory Courses

Assessment Tools		Assessed Period	Assessed By	Reviewed By	Mapping with COs
Topic Approval		7th Sem	Project Review committee	Department Advisory committee (DAC)	All COs
Progress Presentation 1	Presentation Skill	7th Sem			All COs
	Viva Voce				
	Implementation report				
	Faculty Interaction				
Progress Presentation 2	Presentation Skill	7th Sem			All COs
	Viva Voce				
	Implementation report				
	Faculty Interaction				
Internal Final Presentation	Presentation Skill	8th Sem	Internal Examiners appointed by the department & External Examiners Appointed by AKTU		All COs
	Viva Voce				
	Implementation report				
	Faculty Interaction				
External Presentation	Presentation Skill	8th Sem			All COs
	Viva Voce				
	Implementation report				
	Faculty Interaction				

Assessment Process for Evaluation of Project Courses

Assessment Process for Evaluation of Seminar Courses & Industrial Training Courses

Assessment Tools		Assessed Period	Assessed By	Reviewed By	Mapping with COs
External Presentation	Presentation Skill Viva Voce Implementation report Faculty Interaction	Once Per Semester	Seminar Review committee	Department Advisory committee (DAC)	All COs

Assessment Process for General Proficiency Course

Assessment Tools	Assessed Period	Assessed By	Reviewed By	Mapping with COs
Sports Event	**Throughout the program**	**Sports Committee**	**Department Advisory Committee (DAC)**	**CO1**
Cultural Events		**Cultural Committee**		**CO2**
Technical Events		**Technical Committee**		**CO3**
Societal & Environmental Events		**Societal & Environmental Committee**		**CO4**
Discipline		**Proctorial Board**		**CO5**

CO Attainment Target Level Methods:

There can be several methods. e.g.

- Same target is identified for all the COs of the course i.e. target can be class average marks ≥ 60% marks.

- Target are same for all COs and are set in terms of performance level of different groups of students. While this method classifies students in to different categories, it does not provide any specific clues to plans for improvements of quality of learning. e.g.

Target			
(% of students getting< 50)	(% of students getting >50 and < 65)	(% of students getting >65 and < 80	(% of students getting ≥ 80)
10	40	40	10

- Targets are set for each CO of a course separately. It does not directly indicate the distribution of performance among the students. However, it has the advantage of finding out the difficulty of specific COs.

COs	Target (Class Average)
CO1	70%
CO2	80%
CO3	75%
CO4	65%
CO5	80%

Target Level :

- Targets are quantized in to certain level, 3 being the most common number of levels.
- Level 3: If 70% students scoring ≥ 60% of Marks allocated to CO
- Level 2: If 60% student scoring ≥ 60% of Marks in CO
- Level 1: If 50% student scoring ≥ 60% of Marks in CO
- Level 0: If < 50% student scoring ≥ 60% of Marks in CO

Aim is to attain Level 3

CO Attainment Calculation:

The course outcomes for all the courses are calculated in terms of percentage using the formula.

$$\text{CO in \%} = \frac{\text{Marks obtained by the students in CO}x}{\text{Maxium marks alloted in CO}x} \times 100$$

Where x = [1 to N], N= Number of COs

Each course outcome is calculated for all the students based on marks obtained by the students.

$$\text{CO}x\text{ Attainment in \%} = \left[\frac{\text{No. of Students scored } \geq 70 \text{ of Marks in CO}x}{\text{Total No. of students}} \times 100\right]$$

Where x = [1 to N], N= Number of Cox

CO Attainment Level is defined based on the following criteria:

Assessment Method	COs Attainment Level	
Internal Assessment	Level 3	If 70% students scoring ≥ 70% of Marks in COs
	Level 2	If 60% student scoring ≥ 70% of Marks in COs
	Level 1	If 50% student scoring ≥ 70% of Marks in COs

After calculating the attainment level of each COs from the performance of Internal Assessment Test 1 & 2, the attainment level of Internal Assessment Test is calculated with ratio of sum of all

the COs attained by total number of COs as shown below:

$$\textbf{IAT Attainment Level} = \frac{\text{Sum of all COs attained by students}}{\text{Total Number of COs}}$$

Where IAT = Internal Assessment Test

IAT is calculated as follows:

$$\text{E.g. Internal Assessment Test} = \frac{CO1+CO2+CO3+CO4+}{5}$$

Based on university grade, the attainment level of COs is calculated. The attainment level is decided on the following criteria.

Assessment Method	Cox Attainment Level	
University (External) Assessment	Level 3	If 60% student scoring ≥ 50% of Marks in University Exam
	Level 2	If 50% student scoring ≥ 50% of Marks in University Exam
	Level 1	If 40% student scoring ≥ 50% of Marks in University Exam

The university attainment level is calculated as follows

$$\text{Over all CO Attainment } \boldsymbol{Direct} = \left(\frac{\sum_{i=1}^{n} COi}{n} \times 0.2\right) + (UA \times 0.8)$$

(Where n = Number of course outcome)

$$\textbf{Over all Attainment} = \frac{(DTA + UA) + IDA}{2}$$

(Where UA = University Attainment level)

(DTA= Direct Attainment level, IDA = Indirect attainment Level)

CO ATTAINMENT: SAMPLE (ENGINEERING CHEMISTRY)

KASHI INSTITUTE OF TECHNOLOGY,VARANASI

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

COURSE OUTCOMES ATTAINMENTS BASED ON DIRECT ASSESSMENT TOOLS (INTERNAL 20%)

INTERNAL TEST (IT), ASSIGNMENTS (A) & OTHER (O) (QUIZ / SEMINAR / PROJECT/ LAB EXP./WORKSHOP) MARKS

Course : B.Tech
Course Code : KAS102T
Name of the Faculty : Dr. Rupesh Kumar Singh

Semester: 1st

Academic Year: 2021-2022
Course Name : Engineering Chemistry
Section : A

S.N.	Roll No.	TEST-1 (OBJECTIVE)						TEST-2 (DESCRIPTIVE)										TOTAL CO1	% CO1	TOTAL CO2	% CO2	TOTAL CO3	% CO3	TOTAL CO4	% CO4	TOTAL CO5	% CO5
		CO1			CO2			CO3				CO4				CO5												
		IT	A	O	IT	A	O	Original Marks	PUT	A	O	Original Marks	PUT	A	O	Original Marks	PUT	A	O									
		10	5	5	10	5	5		10	5	5		10	5	5		10	5	5	20		20		20		20		20	
1	2104280100001	6	5	3	8	5	5	7	2.5	4	5	1	2.5	4	5	9	4.5	4	5	16	80	18	90	12.5	62.5	10.5	52.5	11.5	57.5
2	2104280100002	10	4	4	10	4	4	3	1.5	4	4	9	4.5	5	4	13	6.5	4	4	18	90	18	90	9.5	47.5	13.5	67.5	14.5	72.5
3	2104280100004	6	4	3	8	5	5	7	1	4	4	1	0.5	4	4	9	4.5	5	4	13	65	16	80	9	45	8.5	42.5	13.5	67.5
4	2104280100005	8	4	2	10	4	5	6	2	4	5	5	1	4	4	10	5	5	4	14	70	19	95	12	60	11	55	14	70
5	2104280100006	10	4	5	10	4	5	7	1	4	5	7	3.5	5	5	8	4	5	5	19	95	19	95	10	50	11.6	57.5	14	70
6	2104280100007	8	5	4	8	5	4	6	2	5	4	10	5	5	4	7	3.5	5	4	17	85	15	75	13	65	14	70	12.5	62.5
7	2104280100008	6	5	5	8	5	5	1	0.5	5	4	6	2	5	4	3	1.5	5	4	14	70	16	80	9.5	47.5	11	55	10.5	52.5
8	2104280100009	10	4	2	10	5	5	10	5	4	5	10	5	5	5	12	6	5	5	20	80	20	100	14	70	18	90	10	80
9	2104280100010	10	5	5	10	4	5	9	4.5	4	5	10	5	5	5	12	6	5	5	20	100	19	95	13.5	67.5	15	75	16	80
10	2104280100011	10	5	4	10	5	4	6	2	4	4	8	4	4	4	15	8.5	5	4	19	95	19	95	10	50	12	60	18.5	92.5
11	2104280100012	8	4	3	10	4	5	6	0	4	5	6	2	5	4	2	1	5	5	15	75	19	95	9	45	11	55	11	55
12	2104280100013	8	5	2	10	5	4	6	2	5	4	10	5	4	4	8	4	4	5	15	75	19	95	11	55	17	85	13	65
13	2104280100014	8	5	5	8	5	5	6	2	4	4	10	5	4	5	16	8	4	5	18	90	18	90	10	50	14	70	17	85
14	2104280100015	6	4	5	8	5	5	0	0	4	5	9	4.5	5	5	9	3	5	5	15	75	18	90	9	45	12.5	62.5	13	65
15	2104280100016	10	5	5	10	5	4	10	5	5	5	10	5	4	5	18	9	5	5	20	90	19	95	15	75	14	70	19	95
16	2104280100017	10	5	5	10	5	5	10	4	5	4	3	1.5	5	5	10	5	5	5	17	85	20	100	15	75	11.5	57.5	15	75
17	2104280100018	10	4	4	8	5	5	8	4	4	5	8	4	5	4	18	9	5	4	18	90	18	90	13	65	13	65	15	75
18	2104280100019	8	4	5	10	4	5	10	5	4	5	10	9	5	5	10	5	4	5	17	85	19	95	14	70	17	85	14	70
19	2104280100020	10	5	5	10	5	5	10	5	4	5	1	0.5	4	5	14	7	4	5	18	90	20	100	14	70	9.5	47.5	16	80
20	2104280100021	10	4	5	10	4	4	10	5	4	4	8	4	5	4	8	4	5	4	18	90	18	90	13	65	13	65	13	65
21	2104280100022	10	4	5	10	5	4	9	4.5	4	5	14	7	5	5	8	4	5	5	17	85	19	95	13.5	67.5	17	85	10	50
22	2104280100023	10	4	5	10	5	5	11	5.5	5	5	8	4	5	5	11	5.5	4	5	19	95	20	100	15.5	77.5	14	70	14.5	72.5
23	2104280100024	8	3	3	8	4	4	11	5.5	4	4	8	4	5	4	7	3.5	5	4	18	90	19	95	13.5	67.5	11	55	13.5	67.5
24	2104280100025	6	5	2	10	5	4	3	1	5	4	9	4.5	5	4	3	1.5	5	5	13	65	18	90	10	50	13.5	67.5	10.5	52.5
25	2104280100027	6	5	4	10	5	4	10	5	5	5	9	4.5	5	4	6	3	5	4	15	75	19	95	19	95	13.5	67.5	12	60
26	2104280100029	6	4	5	8	5	5	0	0	4	5	0	0	5	5	6	0	5	5	15	75	18	90	9	45	10	50	10	50
27	2104280100030	6	5	3	8	4	4	6	3	4	5	14	7	5	4	10	5	5	4	16	80	16	80	12	60	10	50	14	70
28	2104280100031	10	5	5	8	5	4	10	5	5	5	13	6.5	4	4	10	5	4	4	18	90	17	85	14	70	14.5	72.5	13	65
29	2104280100032	8	4	3	8	5	3	3	1.5	5	5	0	0	5	4	5	2.5	4	4	15	75	16	80	11.5	57.5	9	45	10.5	52.5
30	2104280100033	10	4	4	10	5	4	4	2	4	5	11	5.5	5	5	8	4	5	5	19	95	19	95	11	55	14.5	72.5	15	75
31	2104280100034	10	4	5	10	4	5	11	5.5	5	5	10	5	5	5	10	7.5	5	5	19	95	19	95	15.5	77.5	18	90	17.5	87.5
32	2104280100035	10	5	5	10	5	4	10	5	5	4	17	8.5	5	4	10	5	5	5	17	85	19	95	18	90	15.5	77.5	15	75
33	2104280100036	10	3	3	10	3	4	1	0.5	5	4	4	2	5	4	2	1	4	5	18	90	19	95	9.5	47.5	11	55	10	50
34	2104280100037	10	5	5	8	5	4	10	5	5	5	5	1.5	5	4	10	5	5	5	18	90	17	85	18	90	10.5	52.5	15	75
35	2104280100038	10	4	5	8	5	5	4	2	5	5	8	4	5	5	7	3.5	5	4	17	85	18	90	11	55	14	70	12.5	62.5
36	2104280100039	6	5	3	10	4	5	0	0	4	5	10	5	4	5	2	1	5	4	14	70	19	95	9	45	14	70	10	50
37	2104280100040	6	5	3	8	5	5	0	0	4	5	5	4	4	5	8	4	5	5	14	70	16	80	9	45	13	65	14	70
38	2104280100041	10	4	3	10	5	4	11	5.5	5	5	11	5.5	5	5	8	4	5	5	17	85	19	95	15.5	77.5	15.5	77.5	14	70
39	2104280100042	8	4	3	8	5	5	3	1	4	5	9	4.5	4	5	4	1	5	5	16	80	14	70	10	50	13.5	67.5	13	65
40	2104280100043	10	4	5	10	4	5	0	0	4	5	4	2	5	5	0	0	4	5	19	95	19	95	9	45	11	55	9	45
41	2104280100044	10	4	4	8	4	4	3	1	4	5	3	1	5	4	10	5	5	4	18	90	14	70	10	50	8	40	14	70
42	2104280100045	10	5	2	3	5	5	10	5	5	5	10	8	5	5	10	5	4	5	17	85	12	60	17.5	87.5	18	90	14	70
43	2104280100046	5	4	3	10	5	4	7	3.5	4	4	3	1	4	5	8	4	4	5	15	75	19	95	11.5	57.5	10	50	13	65
44	2104280100047	10	4	5	8	5	5	0	0	4	5	6	3	5	5	3	1.5	5	5	19	95	18	90	9	45	11	55	11	55
45	2104280100048	10	5	4	10	4	5	9	3	4	5	8	4	5	4	10	5	5	4	19	95	18	90	11	55	13	65	14	70
46	2104280100049	10	5	2	10	5	5	8	4	4	5	4	2	4	5	5	2.5	4	5	17	85	20	100	12	60	11	55	11.5	57.5
47	2104280100050	10	4	3	10	4	4	10	5	4	4	3	1	5	5	10	6	4	5	15	75	18	90	17	85	11	55	17	85
48	2104280100051	10	4	2	8	5	4	8	4	4	4	6	2	4	5	9	4.5	4	5	18	90	17	85	12	60	11	55	13.5	67.5
49	2104280100052	8	5	3	8	4	4	3	1.5	4	4	10	5	5	4	9	6	3	4	18	90	18	90	9.5	47.5	14	70	9	45
50	2104280100053	10	4	2	8	4	5	2	1	4	5	11	5.5	5	5	8	4	5	5	18	20	17	85	10	50	15.5	77.5	14	70
51	2104280100054	10	5	2	8	5	5	20	10	5	5	4	2	5	5	19	9	4	5	17	85	18	90	20	100	12	60	18	90
52	2104280100055	10	5	2	10	5	5	5	2.5	5	5	12	8	5	4	4	2	4	4	17	85	20	100	12.5	62.5	15	75	18	90
53	2104280100056	5	4	5	4	5	5	8	3	4	5	2	1	5	5	9	6	4	5	17	85	14	70	12	60	11	55	9	45
54	2104280100057	8	5	4	8	4	4	3	1.5	4	4	2	1	4	4	10	5	5	5	17	85	14	70	10.5	52.5	9	45	15	75
55	2104280100058	10	5	5	10	4	4	5	2.5	4	5	15	7.5	4	5	15	7.5	5	5	18	90	19	95	11.5	57.5	16.5	82.5	17.5	87.5
56	2104280100059	10	3	2	10	2	5	9	4	4	5	0	0	5	5	14	7	3	4	17	85	20	100	12	60	10	50	17	85
57	2104280100060	8	4	3	10	5	4	15	7.5	4	5	3	4	5	4	8	3	4	5	15	75	19	95	16.5	82.5	13	65	12	60
58	2104280100061	10	5	5	10	4	5	13	6	4	5	11	5.5	5	5	9	6	5	5	20	100	19	95	15	75	15.5	77.5	14	70
59	2104280100062	6	5	4	8	4	4	2	1	4	5	7	3.5	5	5	14	7	5	5	15	75	12	60	10	50	13.5	67.5	17	85
60	2104280100063	6	5	2	8	5	4	1	0.5	5	4	1	0.5	5	5	8	4	5	5	19	95	17	85	9.5	47.5	10.5	52.5	14	70
61	2104280100064	8	5	3	8	5	4	0	0	5	4	9	0	5	5	0	0	5	5	18	90	15	75	9	45	10	50	10	50
62	2104280100065	8	4	3	8	4	4	7	3.5	4	4	18	8	5	5	8	4	4	5	11	55	16	80	12.5	62.5	10	50	11	55
63	2104280100066	8	5	3	10	5	4	12	5	4	4	3	1.5	5	4	18	20	18	90	14	70	8.5	42.5	10.5	52.5
64	2104280100067	10	5	5	10	5	5	9	4.5	5	5	10	5	5	5	9	4.5	5	5	20	100	20	100	14.5	72.5	15	75	14.5	72.5
65	2104280100070	10	5	5	10	5	4	3	2.5	5	4	5	2.5	5	5	8	3	5	5	18	90	19	95	11.5	57.5	12.5	62.5	13	65
66	2104280100071	8	4	3	8	5	4	2	1	4	4	7	3.5	5	5	8	4	4	5	15	75	15	75	9	45	13.5	67.5	13	65
67	2104280100072	8	4	2	8	4	4	9	4.5	4	5	3	1.5	5	4	3	1.5	5	5	14	70	16	80	10.5	52.5	8.5	42.5	11.5	57.5
68	2104280100073	8	5	3	10	5	5	2	1	5	4	17	8	4	5	10	5	5	4	16	80	20	100	10	50	15	75	14	70
69	2104280100074	10	4	5	10	4	5	12	6	4	5	12	6	5	5	19	9.5	5	5	19	95	19	95	17.5	87.5	16	80	19.5	97.5
70	2104280100075	10	5	4	10	5	4	1	0.5	5	4	12	6	5	4	12	6	5	4	19	95	19	95	9.5	47.5	15	75	15	75
71	2104280100076	10	5	5	10	5	5	12	6	5	4	10	5	5	4	12	6	5	4	19	95	20	100	15	75	14	70	15	75
72	2104280100077	10	5	3	8	4	5	3	1.5	4	4	9	4.5	5	5	9	3	5	4	18	90	17	85	9.5	47.5	14.5	72.5	12	60
73	2104280100078	8	4	2	8	4	5	2	1	4	5	5	2.5	5	5	2	1	5	4	14	70	17	85	9	45	12.5	62.5	10	50
74	2104280100079	10	5	3	8	5	5	3	2.5	4	4	8	4	5	5	10	5	5	4	18	90	16	80	10.5	52.5	14	70	14	70
75	2104280100080	8	5	5	8	5	4	0	0	5	4	12	6	5	4	4	2	5	5	14	70	17	85	9	45	15	75	12	60
76	2104280100081	10	5	5	10	5	4	6	3	5	5	10	5	5	4	8	5	4	5	18	90	18	90	11	55	14	70	12	60
77	2104280100082	10	4	3	8	5	4	0	0	4	5	9	4.5	4	4	8	5	5	5	17	85	17	85	9	45	12.5	62.5	14	70
78	2104280100084	10	5	5	10	4	4	3	1.5	5	5	13	6.5	5	4	16	8	5	5	18	90	18	90	11.5	57.5	11.5	57.5	13	65
79	2104280100085	4	4	3	4	5	4	0	0	4	5	0	0	5	5	0	0	4	5	7	35	9	45	9	45	10	50	9	45
80	2104280100086	10	4	2	10	4	4	2	1	4	5	4	1.5	5	5	3	1.5	5	5	18	90	18	90	10	50	11.5	57.5	11.5	57.5
81	2104280100087	10	5	5	10	5	5	14	7	5	5	0	0	5	5	6	4	5	5	20	100	20	100	17	85	10	50	14	70
82	2104280100088	6	4	4	8	4	4	8	3	5	4	12	6	5	4	12	6	5	4	14	70	16	80	12	60	15	75	15	75
83	2104280100089	10	4	4	10	5	4	8	4	4	4	2	1	4	4	10	5	4	4	18	90	19	95	12	60	8	40	13	65
84	2104280100090	8	5	1	8	4	4	0	0	5	5	1	1	5	5	1	0.5	4	5	12	60	16	80	10	50	11	55	9.5	47.5
85	2104280100091	10	4	2	4	5	4	10	5	4	5	11	5.5	4	5	2	1	4	5	19	95	13	65	14	70	14.5	72.5	10	50
86	2104280100092	10	5	3	8	5	4	0	0	5	5	2	0	5	5	8	4	5	4	18	90	15	75	10	50	10	50	11	65
87	2104280100093	8	5	2	8	5	4	0	0	5	5	0	0	5	5	0	0	5	5	15	75	15	75	13	65	14	70	10	50
88	2104280100094	10	5	2	10	5	5	8	4	4	4	8	3	5	5	12	6	5	4	17	85	20	100	12	60	13	65	15	75
89	2104280100095	8	4	2	8	5	5	6	3	5	5	9	4.5	4	4	9	4.5	4	4	14	70	16	80	13	65	9.5	47.5	12.5	62.5
90	2104280100096	8	5	2	8	4	5	0	0	4	5	0	0	5	5	0	0	5	5	15	75	17	85	9	45	10	50	10	50
									Total number of Students									90		90		90		90		90	
									Number of Student Secured >= 70% Marks									84		86		23		37		43	
									% of Students Attained									93		96		26		41		48	
									Attainment Level									3		3		1		1		1	

If 70% Students Scoring >=70% Marks	
ATTAINMENT LEVEL 3	
If 60% Students Scoring >=70% Marks	
ATTAINMENT LEVEL 2	
If 50% Students Scoring >=70% Marks	
ATTAINMENT LEVEL 1	

CO Attainments

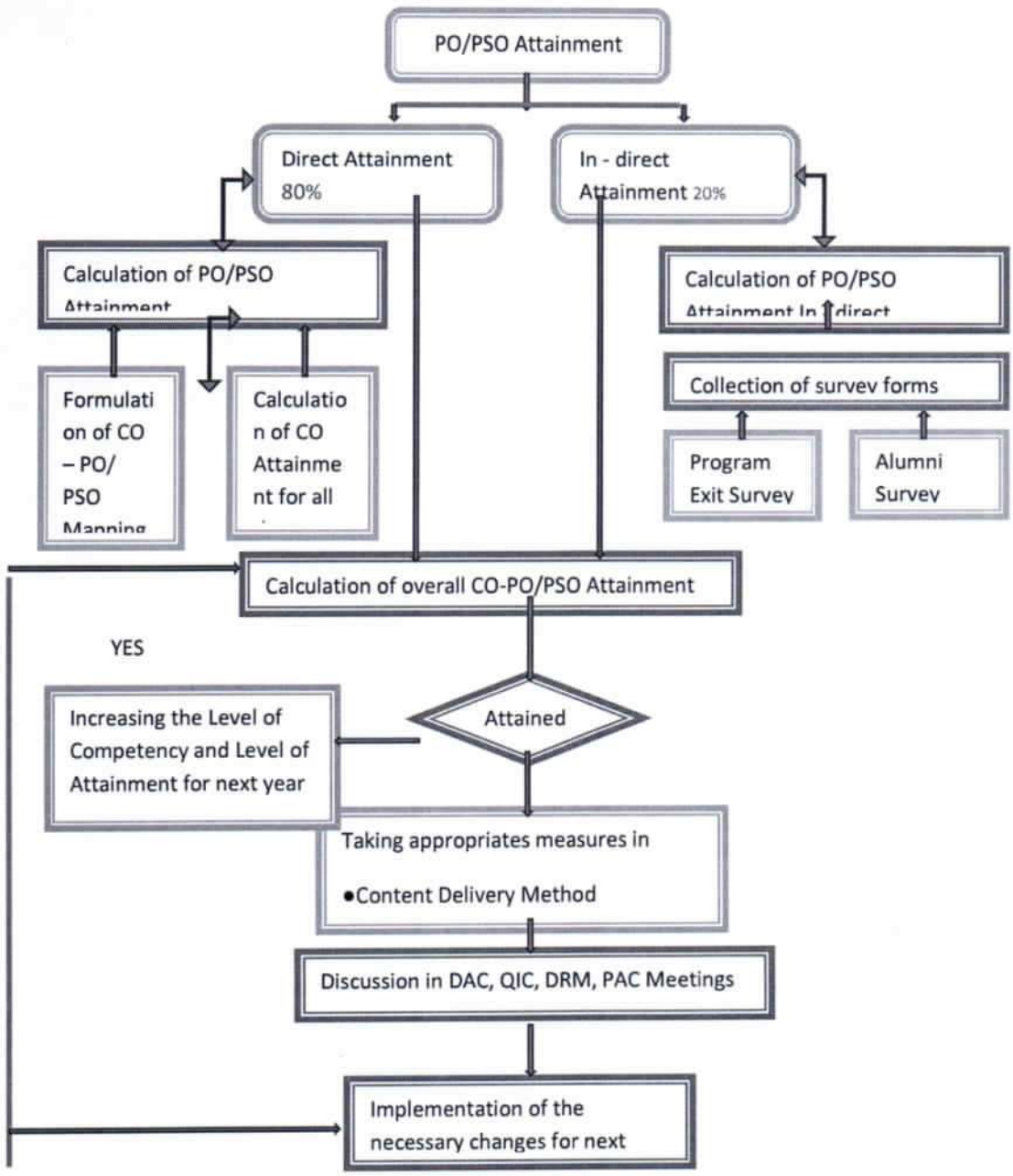
S.N.	COs NO.	Attn Level	CO Attainments %
1	CO1	3	93.02
2	CO2	3	95.56
3	CO3	1	28.50
4	CO4	1	45.51
5	CO5	1	47.78
	AVG	1.80	66.67

Signature of faculty

Head of the Department
Applied Science and Humanities

Process for PO/PSO Attainment

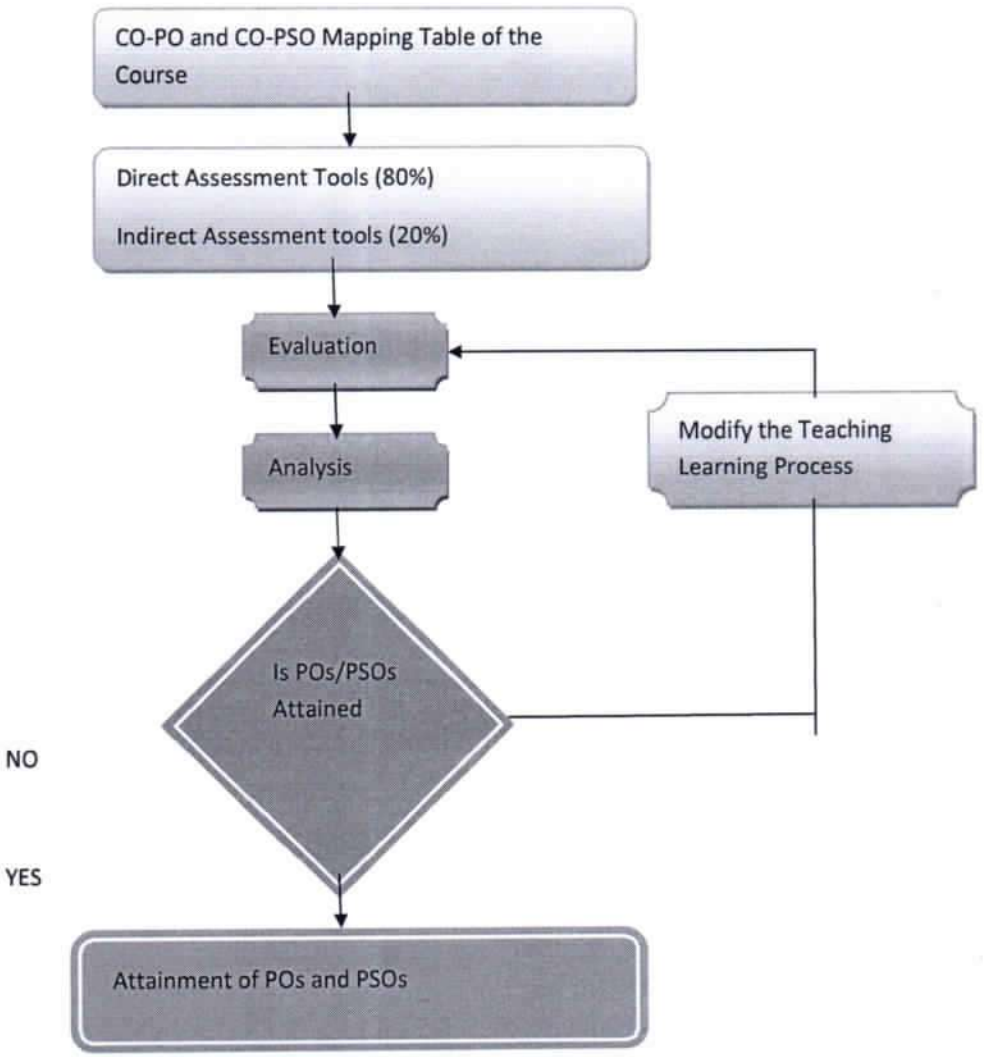
: **Fig: 1**


PO/PSO Attainment
Direct Attainment 80%
In - direct Attainment 20%
Calculation of PO/PSO Attainment
Calculation of PO/PSO Attainment In direct
Formulation of CO – PO/ PSO Mapping
Calculation of CO Attainment for all
Collection of survey forms
Program Exit Survey
Alumni Survey
Calculation of overall CO-PO/PSO Attainment
YES
Attained
Increasing the Level of Competency and Level of Attainment for next year
Taking appropriates measures in
•Content Delivery Method
Discussion in DAC, QIC, DRM, PAC Meetings
Implementation of the necessary changes for next

Assessment tools and processes used for measuring the Attainment of each of the Program Outcomes (POs) and Program Specific Outcomes (PSOs):

Evaluation of attainment of POs and PSOs is based on direct and indirect assessment tools. Direct assessment of POs and PSOs is based on student's performance in continuous assessment and university examination. Indirect assessment is based on Program Exit Survey (Theory & Practical). The various direct and indirect tools and its frequency, the responsible authority to collect data for assessing the attainment of each POs and PSOs are given below table.

Fig.



Course level PO & PSO Attainment Calculation:

The PO & PSO attainment for the course is calculated using following formula

PO Attainment of Course (X)

= CO Attainment % of Course (X) × PO*y mapping value of course(x)/100*

PO Attainment Level of Course (X)

= (weighted Average Value of PO × CO Attainment Average) / **3**

PSO Attainment of Course (X)

= CO Attainment % of Course (X) × PSO*y mapping value of course(x)/100*

(Where, y = [1 to N], N= Number of Program Outcomes

PSO Attainment Level of Course (X)

= (weighted Average Value of PSO × CO Attainment Average) / **3**

(Where, y = [1 to N], N= Number of Program Specific Outcomes)

PO & PSO ATTAINMENT

KASHI INSTITUTE OF TECHNOLOGY

CO-PO ATTAINMENT

Course : B.Tech First Year Semester: I Academic Year:2021-2022
Course Code : KEE101T Course Name : Basic Electrical Engineering

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	-	-	-	-	-	-	-	-	-	-	-	-	1
CO2	3	2	1	2	2	-	-	-	-	-	-	-	2	3
CO3	3	2	1	2	2	-	-	-	-	-	-	-	2	3
CO4	3	2	1	2	2	-	-	-	-	-	-	-	2	3
CO5	3	2	1	2	2	-	-	-	-	-	-	-	2	3

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6	PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	66.67	2	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.67	-	-
CO2	58.97	3	1.8	2	1.18	1	0.6	2	1.18	2	1.18	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1.18	3	1.77	2	1.18
CO3	41.03	3	1.2	2	0.82	1	0.4	2	0.82	2	0.82	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0.82	3	1.23	2	0.82
CO4	74.36	3	2.2	2	1.49	1	0.7	2	1.49	2	1.49	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1.49	3	2.23	2	1.49
CO5	87.18	3	2.6	2	1.74	1	0.9	2	1.74	2	1.74	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1.74	3	2.62	2	1.74
TOTAL		14	9.2	8	5.23	4	2.6	8	5.23	8	5.23	-	-	-	-	-	-	-	-	-	-	-	-	-	8	5.23	13	8.51	8	5.23
Attainment %			66		65.4		65		65.4		65.4			-		-		-		-		-		-		65.4		65.5		65.4
Attained Level			2		2		2		2		2			-		-		-		-		-		-		2		2		2
WEIGHTED AVERAGE VALUE OF POs/PSOs			1.84		1.31		0.65		1.31		1.31			-		-		-		-		-		-		1.31		1.70		1.31

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY,VARANASI

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: 1st Academic Year:2021-2022
Course Code : KAS102T Course Name : Engineering Chemistry

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	-	-	-	-	-	-	-	-	3	1	-
CO2	2	-	-	-	-	-	-	-	-	-	-	-	3	-	-
CO3	2	-	1	-	-	-	-	-	-	-	-	-	1	-	-
CO4	2	1	1	-	-	-	-	-	-	-	-	-	-	1	-
CO5	2	0	0	-	-	-	-	-	-	-	-	-	-	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	93.33	2	1.9	1	0.93	2	1.9	2	1.867	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.8	1	0.93	-	-
CO2	95.56	2	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.87	-	-	-	-
CO3	25.56	2	0.5	-	-	1	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.26	-	-	-	-
CO4	41.11	2	0.8	1	0.41	1	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.41	-	-
CO5	47.78	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.48	-	-
TOTAL		10	6.1	2	1.34	4	2.5	2	1.867	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	5.92	3	1.82	-	-
Attainment %			61		67.2		63		93.33		-		-		-		-		-		-		-		-		84.6		60.7		-
Attained Level			2		2		2		3		-		-		-		-		-		-		-		-		3		2		-
WEIGHTED AVERAGE VALUE OF POs/PSOs			1.21		0.67		0.84		1.87	—	-	—	-	—	-	—	-	—	-	—	-	—	-	—	-		1.97		0.61	—	-

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: 1st Academic Year:2021-2022
Course Code : KAS102T Course Name : Engineering Chemistry

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	-	-	-	-	-	-	-	-	3	1	-
CO2	2	-	-	-	-	-	-	-	-	-	-	-	3	1	-
CO3	2	-	1	-	-	-	-	-	-	-	-	-	1	-	-
CO4	2	1	1	-	-	-	-	-	-	-	-	-	-	1	-
CO5	2	0	0	-	-	-	-	-	-	-	-	-	-	-	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	98.57	2	2	1	0.99	2	2	2	1.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.96	1	0.99	-	-
CO2	91.43	2	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.74	1	0.91	-	-
CO3	31.43	2	0.6	-	-	1	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.31	-	-	-	-
CO4	58.57	2	1.2	1	0.59	1	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.59	-	-
CO5	47.14	2	0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL		10	6.5	2	1.57	4	2.9	2	1.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	6.01	3	2.49	-	-
Attainment %			65		78.6		72		98.6		-		-		-		-		-		-		-		-		85.9		82.9		-
Attained Level			2		3		2		3		-		-		-		-		-		-		-		-		3		3		-
WEIGHTED AVERAGE VALUE OF POs/PSOs			1.31		0.79		0.96		1.97	—	-	—	-	—	-	—	-	—	-	—	-	—	-	—	-		2.00		0.83	—	-
P = PLANNED				A = ATTAINED																											

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: 1st Academic Year:2021-2022
Course Code : KAS102T Course Name : Engineering Chemistry

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	-	-	-	-	-	-	-	-	3	1	-
CO2	2	-	-	-	-	-	-	-	-	-	-	-	3	1	-
CO3	2	-	1	-	-	-	-	-	-	-	-	-	1	-	-
CO4	2	1	1	-	-	-	-	-	-	-	-	-	-	1	-
CO5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	66.67	2	1.3	1	0.67	2	1.3	2	1.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	1	0.67	-	-
CO2	76.92	2	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.31	1	0.77	-	-
CO3	15.38	2	0.3	-	-	1	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.15	-	-	-	-
CO4	10.26	2	0.2	1	0.1	1	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.1	-	-
CO5	7.69	2	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL		10	3.5	2	0.77	4	1.6	2	1.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	4.46	3	1.54	-	-
Attainment %			35		38.5		40		66.7		-		-		-		-		-		-		-		-		63.7		51.3		-
Attained Level			2		2		2		2		-		-		-		-		-		-		-		-		2		2		-
WEIGHTED AVERAGE VALUE OF POs/PSOs			0.71		0.38		0.53		1.33	—	-	—	-	—	-	—	-	—	-	—	-	—	-	—	-		1.49		0.51	—	-
P = PLANNED				A = ATTAINED																											

KASHI INSTITUTE OF TECHNOLOGY,VARANASI

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: I Academic Year:2021-2022
Course Code : KIC 101 Course Name : ENERGING DOMAIN
OF ELECTRONICS ENGG

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	2	2	-	-	-	-	-	-	1	3	1	-
CO2	3	2	2	2	-	-	-	-	-	-	-	-	3	-	-
CO3	3	1	2	2	-	-	-	-	-	-	-	-	1	-	-
CO4	3	1	2	2	-	-	-	-	-	-	-	-	-	1	-
CO5	-	1	1	2	-	-	-	-	-	-	-	-	-	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	93.33	3	2.8	2	1.87	2	1.9	2	1.87	2	1.87	-	-	-	-	-	-	-	-	-	-	-	-	1	0.933	3	2.8	1	0.93	-	-
CO2	88.89	3	2.7	2	1.78	2	1.8	2	1.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.67	-	-	-	-
CO3	20.00	3	0.6	1	0.2	2	0.4	2	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.2	-	-	-	-
CO4	8.89	3	0.3	1	0.09	2	0.2	2	0.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.09	-	-
CO5	33.33	-	-	1	0.33	1	0.3	2	0.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.33	-	-
TOTAL		12	6.3	7	4.27	9	4.6	10	4.89	2	1.87	-	-	-	-	-	-	-	-	-	-	-	-	1	0.933	7	5.67	3	1.36	-	-
Attainment %			53		61		51		48.9		93.3		-		-		-		-		-		-		93.33		81		45.2		-
Attained Level			2		2		2		2		3		-		-		-		-		-		-		3		3		2		-
WEIGHTED AVERAGE VALUE OF POs/PSOs			1.58		0.85		0.91		0.98		1.87		-		-		-		-		-		-		0.93		1.89		0.45		-

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: I Academic Year:2021-2022
Course Code : KMT101T Course Name : FMEAM

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	2	2	-	-	-	-	-	-	-	3	1	-
CO2	3	2	3	1	3	-	-	-	-	-	-	-	3	1	1
CO3	2	3	3	2	2	-	-	-	-	-	-	-	1	-	-
CO4	2	2	2	3	3	-	-	-	-	-	-	-	-	1	-
CO5	3	2	3	1	2	-	-	-	-	-	-	-	-	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	74.44	3	2.2	2	1.49	2	1.5	2	1.49	2	1.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.23	1	0.74	-	-
CO2	82.22	3	2.5	2	1.64	3	2.5	1	0.82	3	2.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.47	1	0.82	1	0.82
CO3	26.67	2	0.5	3	0.8	3	0.8	2	0.53	2	0.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.27	-	-	-	-
CO4	15.56	2	0.3	2	0.31	2	0.3	3	0.47	3	0.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.16	-	-
CO5	13.33	3	0.4	2	0.27	3	0.4	1	0.13	2	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.13	-	-
TOTAL		13	5.9	11	4.51	13	5.5	9	3.44	12	5.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	4.97	4	1.86	1	0.82
Attainment %			46		41		42		38.3		43.5		-		-		-		-		-		-		-		71		46.4		82.2
Attained Level			2		2		2		2		2		-		-		-		-		-		-		-		3		2		3
WEIGHTED AVERAGE VALUE OF POs/PSOs			1.19		0.90		1.09		0.69		1.04		-		-		-		-		-		-		-		1.66		0.46		0.82

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: I Academic Year:2021-2022
Course Code : KME101T Course Name : FME&M

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	2	2	-	-	-	-	-	-	-	3	1	-
CO2	3	2	3	1	3	-	-	-	-	-	-	-	3	1	1
CO3	2	3	3	2	2	-	-	-	-	-	-	-	1	-	-
CO4	2	2	2	3	3	-	-	-	-	-	-	-	-	1	-
CO5	3	2	3	1	2	-	-	-	-	-	-	-	-	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	67.14	3	2	2	1.34	2	1.3	2	1.34	2	1.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.01	1	0.67	-	-
CO2	77.14	3	2.3	2	1.54	3	2.3	1	0.77	3	2.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.31	1	0.77	1	0.771
CO3	28.57	2	0.6	3	0.86	3	0.9	2	0.57	2	0.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.29	-	-	-	-
CO4	20.00	2	0.4	2	0.4	2	0.4	3	0.6	3	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.2	-	-
CO5	17.14	3	0.5	2	0.34	3	0.5	1	0.17	2	0.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.17	-	-
TOTAL		13	5.8	11	4.49	13	5.4	9	3.46	12	5.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	4.61	4	1.81	1	0.771
Attainment %			45		40.8		42		38.4		43.1		-		-		-		-		-		-		-		65.9		45.4		77.14
Attained Level			2		2		2		2		2		-		-		-		-		-		-		-		2		2		3
WEIGHTED AVERAGE VALUE OF POs/PSOs			1.16		0.90		1.09		0.69		1.03		-		-		-		-		-		-		-		1.54		0.45		0.77

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech | Semester: I | Academic Year:2021-2022
Course Code : KNC 101 | Course Name : Soft Skills 1

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1		1	1	2	1	2	2	1	1	3	2	3	3	1	-
CO2	1	1	2	2		1	1	2	3	3	2	3	3	1	1
CO3	1	2	2	1	1	2	2	3	2	3	3	3	1	-	-
CO4		1	2	2	1	2	2	3	3	3	3	3	-	1	-
CO5	1	1	3	1		2	2	2	3	3	2	3	-	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	93.33	-	-	1	0.93	1	0.9	2	1.87	1	0.93	2	1.87	2	1.87	1	0.93	1	0.93	3	2.8	2	1.87	3	2.8	3	2.8	1	0.93	-	-
CO2	88.89	1	0.9	1	0.89	2	1.8	2	1.78	-	-	1	0.89	1	0.89	2	1.78	3	2.67	3	2.7	2	1.78	3	2.67	3	2.67	1	0.89	1	0.89
CO3	20.00	1	0.2	2	0.4	2	0.4	1	0.2	1	0.2	2	0.4	2	0.4	3	0.6	2	0.4	3	0.6	3	0.6	3	0.6	1	0.2	-	-	-	-
CO4	8.89	-	-	1	0.09	2	0.2	2	0.18	1	0.09	2	0.18	2	0.18	3	0.27	3	0.27	3	0.3	3	0.27	3	0.27	-	-	1	0.09	-	-
CO5	33.33	1	0.3	1	0.33	3	1	1	0.33	-	-	2	0.67	2	0.67	2	0.67	3	1	3	1	2	0.67	3	1	-	-	1	0.33	-	-
TOTAL		3	1.4	6	2.64	10	4.3	8	4.36	3	1.22	9	4	9	4	11	4.24	12	5.27	15	7.3	12	5.18	15	7.33	7	5.67	4	2.24	1	0.89
Attainment %			47		44.1		43		54.4		40.7		44.4		44.4		38.6		43.9		49		43.1		48.9		81		56.1		88.9
Attained Level			2		2		2		2		2		2		2		2		2		2		2		2		3		2		3
WEIGHTED AVERAGE VALUE OF POs/PSOs			0.47		0.53		0.86		0.87		0.41		0.80		0.80		0.85		1.05		1.47		1.04		1.47		1.89		0.56		0.89

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester:1 Academic Year:2021-2022
Course Code : KNC 101 Course Name : Soft Skills 1

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1		1	1	2	1	2	2	1	1	3	2	3	3	1	-
CO2	1	1	2	2		1	1	2	3	3	2	3	3	1	1
CO3	1	2	2	1	1	2	2	3	2	3	3	3	1	-	-
CO4		1	2	2	1	2	2	3	3	3	3	3	-	1	-
CO5	1	1	3	1		2	2	2	3	3	2	3	-	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	98.57	-	-	1	0.99	1	1	2	1.97	1	0.99	2	1.97	2	1.97	1	0.99	1	0.99	3	3	2	1.97	3	2.96	3	2.96	1	0.99	-	-
CO2	98.57	1	1	1	0.99	2	2	2	1.97	-	-	1	0.99	1	0.99	2	1.97	3	2.96	3	3	2	1.97	3	2.96	3	2.96	1	0.99	1	0.99
CO3	18.57	1	0.2	2	0.37	2	0.4	1	0.19	1	0.19	2	0.37	2	0.37	3	0.56	2	0.37	3	0.6	3	0.56	3	0.56	1	0.19	-	-	-	-
CO4	11.43	-	-	1	0.11	2	0.2	2	0.23	1	0.11	2	0.23	2	0.23	3	0.34	3	0.34	3	0.3	3	0.34	3	0.34	-	-	1	0.11	-	-
CO5	34.29	1	0.3	1	0.34	3	1	1	0.34	-	-	2	0.69	2	0.69	2	0.69	3	1.03	3	1	2	0.69	3	1.03	-	-	1	0.34	-	-
TOTAL		3	1.5	6	2.8	10	4.6	8	4.7	3	1.29	9	4.24	9	4.24	11	4.54	12	5.69	15	7.8	12	5.53	15	7.84	7	6.1	4	2.43	1	0.99
Attainment %			50		46.7		46		58.8		42.9		47.1		47.1		41.3		47.4		52		46.1		52.3		87.1		60.7		98.6
Attained Level			2		2		2		2		2		2		2		2		2		2		2		2		3		2		3
WEIGHTED AVERAGE VALUE OF POs/PSOs			0.50		0.56		0.92		0.94		0.43		0.85		0.85		0.91		1.14		1.57		1.11		1.57		2.03		0.61		0.99

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: Academic Year:2021-2022
Course Code : KNC 101 Course Name : Soft Skills 1

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1		1	1	2	1	2	2	1	1	3	2	3	3	1	-
CO2	1	1	2	2		1	1	2	3	3	2	3	3	1	1
CO3	1	2	2	1	1	2	2	3	2	3	3	3	1	-	-
CO4		1	2	2	1	2	2	3	3	3	3	3	-	1	-
CO5	1	1	3	1		2	2	2	3	3	2	3	-	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	84.62	-	-	1	0.85	1	0.8	2	1.69	1	0.85	2	1.69	2	1.69	1	0.85	1	0.85	3	2.5	2	1.69	3	2.54	3	2.54	1	0.85	-	-
CO2	92.31	1	0.9	1	0.92	2	1.8	2	1.85	-	-	1	0.92	1	0.92	2	1.85	3	2.77	3	2.8	2	1.85	3	2.77	3	2.77	1	0.92	1	0.92
CO3	12.82	1	0.1	2	0.26	2	0.3	1	0.13	1	0.13	2	0.26	2	0.26	3	0.38	2	0.26	3	0.4	3	0.38	3	0.38	1	0.13	-	-	-	-
CO4	7.69	-	-	1	0.08	2	0.2	2	0.15	1	0.08	2	0.15	2	0.15	3	0.23	3	0.23	3	0.2	3	0.23	3	0.23	-	-	1	0.08	-	-
CO5	23.08	1	0.2	1	0.23	3	0.7	1	0.23	-	-	2	0.46	2	0.46	2	0.46	3	0.69	3	0.7	2	0.46	3	0.69	-	-	1	0.23	-	-
TOTAL		3	1.3	6	2.33	10	3.8	8	4.05	3	1.05	9	3.49	9	3.49	11	3.77	12	4.79	15	6.6	12	4.62	15	6.62	7	5.44	4	2.08	1	0.92
Attainment %			43		38.9		38		50.6		35		38.7		38.7		34.3		40		44		38.5		44.1		77.7		51.9		92.3
Attained Level			2		2		2		2		2		2		2		2		2		2		2		2		3		2		3
WEIGHTED AVERAGE VALUE OF POs/PSOs			0.43		0.47		0.76		0.81		0.35		0.70		0.70		0.75		0.96		1.32		0.92		1.32		1.81		0.52		0.92

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: I Academic Year:2021-2022
Course Code : KAS103T Course Name : Engineering Mathematics

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	2	2	2	-	-	-	-	-	-	-	3	2	-
CO2	2	2	2	2	2	-	-	-	-	-	-	-	3	1	1
CO3	2	-	2	2	2	-	-	-	-	-	-	-	2	-	-
CO4	2	1	2	1	2	-	-	-	-	-	-	-	1	1	-
CO5	1	2	2	1	1	-	-	-	-	-	-	-	1	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	86.67	2	1.7	-	-	2	1.7	2	1.73	2	1.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.6	2	1.73	-	-
CO2	81.11	2	1.6	2	1.62	2	1.6	2	1.62	2	1.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.43	1	0.81	1	0.81
CO3	11.11	2	0.2	-	-	2	0.2	2	0.22	2	0.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0.22	-	-	-	-
CO4	11.11	2	0.2	1	0.11	2	0.2	1	0.11	2	0.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.11	1	0.11	-	-
CO5	6.67	1	0.1	2	0.13	2	0.1	1	0.07	1	0.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.07	1	0.07	-	-
TOTAL		9	3.9	5	1.87	10	3.9	8	3.76	9	3.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	5.43	5	2.72	1	0.81
Attainment %			43		37.3		39		46.9		43		-		-		-		-		-		-		-		54.3		54.4		81.1
Attained Level			2		2		2		2		2		-		-		-		-		-		-		-		2		2		3
WEIGHTED AVERAGE VALUE OF POs/PSOs			0.77		0.62		0.79		0.75		0.77		-		-		-		-		-		-		-		1.09		0.68		0.81

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: I Academic Year: 2021-2022
Course Code : KAS103T Course Name : Engineering Mathematics

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	2	2	2	-	-	-	-	-	-	-	3	2	-
CO2	2	2	2	2	2	-	-	-	-	-	-	-	3	1	1
CO3	2	-	2	2	2	-	-	-	-	-	-	-	2	-	-
CO4	2	1	2	1	2	-	-	-	-	-	-	-	1	1	-
CO5	1	2	2	1	1	-	-	-	-	-	-	-	1	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	91.43	2	1.8	-	-	2	1.8	2	1.83	2	1.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.74	2	1.83	-	-
CO2	85.71	2	1.7	2	1.71	2	1.7	2	1.71	2	1.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.57	1	0.86	1	0.857
CO3	11.43	2	0.2	-	-	2	0.2	2	0.23	2	0.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0.23	-	-	-	-
CO4	14.29	2	0.3	1	0.14	2	0.3	1	0.14	2	0.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.14	1	0.14	-	-
CO5	10.00	1	0.1	2	0.2	2	0.2	1	0.1	1	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.1	1	0.1	-	-
TOTAL		9	4.2	5	2.06	10	4.3	8	4.01	9	4.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	5.79	5	2.93	1	0.857
Attainment %			46		41.1		43		50.2		46.2		-		-		-		-		-		-		-		57.9		58.6		85.71
Attained Level			2		2		2		2		2		-		-		-		-		-		-		-		2		2		3
WEIGHTED AVERAGE VALUE OF POs/PSOs			0.83		0.69		0.85		0.80		0.83		-		-		-		-		-		-		-		1.16		0.73		0.86

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: I Academic Year:2021-2022
Course Code : KAS103T Course Name : Engineering Mathematics

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	2	2	2	-	-	-	-	-	-	-	3	1	-
CO2	2	2	2	2	2	-	-	-	-	-	-	-	3	1	1
CO3	2	-	2	2	2	-	-	-	-	-	-	-	1	-	-
CO4	2	1	2	1	2	-	-	-	-	-	-	-	-	1	-
CO5	1	2	2	1	1	-	-	-	-	-	-	-	-	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	76.92	2	1.5	-	-	2	1.5	2	1.54	2	1.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.31	1	0.77	-	-
CO2	87.18	2	1.7	2	1.74	2	1.7	2	1.74	2	1.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.62	1	0.87	1	0.87
CO3	7.69	2	0.2	-	-	2	0.2	2	0.15	2	0.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.08	-	-	-	-
CO4	5.13	2	0.1	1	0.05	2	0.1	1	0.05	2	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.05	-	-
CO5	2.56	1	-	2	0.05	2	0.1	1	0.03	1	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.03	-	-
TOTAL		9	3.5	5	1.85	10	3.6	8	3.51	9	3.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	5	4	1.72	1	0.87
Attainment %			39		36.9		36		43.9		39.6		-		-		-		-		-		-		-		71.4		42.9		87.2
Attained Level			2		2		2		2		2		-		-		-		-		-		-		-		3		2		3
WEIGHTED AVERAGE VALUE OF POs/PSOs			0.88		0.62		0.72		0.70		0.71		-		-		-		-		-		-		-		1.67		0.43		0.87

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech — Semester: I — Academic Year:2021-2022
Course Code : KAS103T — Course Name : Engineering Mathematics

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	2	2	2	-	-	-	-	-	-	-	3	2	-
CO2	2	2	2	2	2	-	-	-	-	-	-	-	3	1	1
CO3	2	-	2	2	2	-	-	-	-	-	-	-	2	-	-
CO4	2	1	2	1	2	-	-	-	-	-	-	-	1	1	-
CO5	1	2	2	1	1	-	-	-	-	-	-	-	1	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	86.67	2	1.7	-	-	2	1.7	2	1.73	2	1.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.6	2	1.73	-	-
CO2	81.11	2	1.6	2	1.62	2	1.6	2	1.62	2	1.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.43	1	0.81	1	0.81
CO3	11.11	2	0.2	-	-	2	0.2	2	0.22	2	0.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0.22	-	-	-	-
CO4	11.11	2	0.2	1	0.11	2	0.2	1	0.11	2	0.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.11	1	0.11	-	-
CO5	6.67	1	0.1	2	0.13	2	0.1	1	0.07	1	0.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.07	1	0.07	-	-
TOTAL		9	3.9	5	1.87	10	3.9	8	3.76	9	3.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	5.43	5	2.72	1	0.81
Attainment %			43		37.3		39		46.9		43		-		-		-		-		-		-		-		54.3		54.4		81.1
Attained Level			2		2		2		2		2		-		-		-		-		-		-		-		2		2		3
WEIGHTED AVERAGE VALUE OF POs/PSOs			0.77		0.62		0.79		0.75		0.77		-		-		-		-		-		-		-		1.09		0.68		0.81

P = PLANNED — A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: I Academic Year:2021-2022
Course Code : KAS103T Course Name : Engineering Mathematics

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	2	2	2	-	-	-	-	-	-	-	3	2	-
CO2	2	2	2	2	2	-	-	-	-	-	-	-	3	1	1
CO3	2	-	2	2	2	-	-	-	-	-	-	-	2	-	-
CO4	2	1	2	1	2	-	-	-	-	-	-	-	1	1	-
CO5	1	2	2	1	1	-	-	-	-	-	-	-	1	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	91.43	2	1.8	-	-	2	1.8	2	1.83	2	1.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.74	2	1.83	-	-
CO2	85.71	2	1.7	2	1.71	2	1.7	2	1.71	2	1.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.57	1	0.86	1	0.86
CO3	11.43	2	0.2	-	-	2	0.2	2	0.23	2	0.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0.23	-	-	-	-
CO4	14.29	2	0.3	1	0.14	2	0.3	1	0.14	2	0.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.14	1	0.14	-	-
CO5	10.00	1	0.1	2	0.2	2	0.2	1	0.1	1	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.1	1	0.1	-	-
TOTAL		9	4.2	5	2.06	10	4.3	8	4.01	9	4.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	5.79	5	2.93	1	0.86
Attainment %			46		41.1		43		50.2		46.2		-		-		-		-		-		-		-		57.9		58.6		85.7
Attained Level			2		2		2		2		2		-		-		-		-		-		-		-		2		2		3
WEIGHTED AVERAGE VALUE OF POs/PSOs			0.83		0.69		0.85		0.80		0.83		-		-		-		-		-		-		-		1.16		0.73		0.86

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: I Academic Year:2021-2022
Course Code : KAS102T Course Name : Engineering Mathematics

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	2	2	2	-	-	-	-	-	-	-	3	1	-
CO2	2	2	2	2	2	-	-	-	-	-	-	-	3	1	1
CO3	2	-	2	2	2	-	-	-	-	-	-	-	1	-	-
CO4	2	1	2	1	2	-	-	-	-	-	-	-	-	1	-
CO5	1	2	2	1	1	-	-	-	-	-	-	-	-	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	76.92	2	1.5	-	-	2	1.5	2	1.54	2	1.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.31	1	0.77	-	-
CO2	87.18	2	1.7	2	1.74	2	1.7	2	1.74	2	1.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.62	1	0.87	1	0.87
CO3	7.69	2	0.2	-	-	2	0.2	2	0.15	2	0.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.08	-	-	-	-
CO4	5.13	2	0.1	1	0.05	2	0.1	1	0.05	2	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.05	-	-
CO5	2.56	1	0	2	0.05	2	0.1	1	0.03	1	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.03	-	-
TOTAL		9	3.6	5	1.85	10	3.6	8	3.51	9	3.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	5	4	1.72	1	0.87
Attainment %			40		36.9		36		43.9		39.6		-		-		-		-		-		-		-		71.4		42.9		87.2
Attained Level			2		2		2		2		2		-		-		-		-		-		-		-		3		2		3
WEIGHTED AVERAGE VALUE OF POs/PSOs			0.71		0.62		0.72		0.70		0.71		-		-		-		-		-		-		-		1.67		0.43		0.87

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: I Academic Year:2021-2022
Course Code : KAS101T Course Name : Engineering Physics

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	-	-	-	-	-	-	-	-	3	1	-
CO2	2	-	-	-	-	-	-	-	-	-	-	-	3	-	-
CO3	2	-	1	-	-	-	-	-	-	-	-	-	1	-	-
CO4	2	1	1	-	-	-	-	-	-	-	-	-	-	1	-
CO5	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	94.87	2	1.9	1	0.95	2	1.9	2	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.85	1	0.95	-	-
CO2	79.49	2	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.38	-	-	-	-
CO3	69.23	2	1.4	-	-	1	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.69	-	-	-	-
CO4	69.23	2	1.4	1	0.69	1	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.69	-	-
CO5	69.23	2	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.69	-	-
TOTAL		10	7.6	2	1.64	4	3.3	2	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	5.92	3	2.33	-	-
Attainment %			76		82.1		82		94.9		-		-		-		-		-		-		-		-		84.6		77.8		-
Attained Level			3		3		3		3		-		-		-		-		-		-		-		-		3		3		-
WEIGHTED AVERAGE VALUE OF POs/PSOs			1.53		0.82		1.09		1.90	-		-		-		-		-		-		-		-		1.97		0.78		-

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: 2 Academic Year:2021-2022
Course Code : KNC 201 Course Name : Soft Skills 2

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1		1	1	2	1	2	2	1	1	3	2	3	3	1	-
CO2	1	1	2	2		1	1	2	3	3	2	3	3	1	1
CO3	1	2	2	1	1	2	2	3	2	3	3	3	1	-	-
CO4		1	2	2	1	2	2	3	3	3	3	3	-	1	-
CO5	1	1	3	1		2	2	2	3	3	2	3	-	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	93.33	0	0	1	0.93	1	0.9	2	1.87	1	0.93	2	1.87	2	1.87	1	0.93	1	0.93	3	2.8	2	1.87	3	2.8	3	2.8	1	0.93	-	-
CO2	88.89	1	0.9	1	0.89	2	1.8	2	1.78	-	-	1	0.89	1	0.89	2	1.78	3	2.67	3	2.7	2	1.78	3	2.67	3	2.67	1	0.89	1	0.89
CO3	22.22	1	0.2	2	0.44	2	0.4	1	0.22	1	0.22	2	0.44	2	0.44	3	0.67	2	0.44	3	0.7	3	0.67	3	0.67	1	0.22	-	-	-	-
CO4	17.78	-	-	1	0.18	2	0.4	2	0.36	1	0.18	2	0.36	2	0.36	3	0.53	3	0.53	3	0.5	3	0.53	3	0.53	-	-	1	0.18	-	-
CO5	34.44	1	0.3	1	0.34	3	1	1	0.34	0	0	2	0.69	2	0.69	2	0.69	3	1.03	3	1	2	0.69	3	1.03	-	-	1	0.34	-	-
TOTAL		3	1.5	6	2.79	10	4.5	8	4.57	3	1.33	9	4.24	9	4.24	11	4.6	12	5.61	15	7.7	12	5.53	15	7.7	7	5.69	4	2.34	1	0.89
Attainment %			49		46.5		45		57.1		44.4		47.2		47.2		41.8		46.8		51		46.1		51.3		81.3		58.6		88.9
Attained Level			2		2		2		2		2		2		2		2		2		2		2		2		3		2		3
WEIGHTED AVERAGE VALUE OF POs/PSOs			0.36		0.56		0.91		0.91		0.33		0.85		0.85		0.92		1.12		1.54		1.11		1.54		1.90		0.59		0.89

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CO-PO ATTAINMENT

Course : B.Tech Semester: 2nd Academic Year:2021-2022
Course Code : KAS201T Course Name : Engg. Physics

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	-	-	-	-	-	-	-	-	3	1	-
CO2	2	1	3	1	1	1	1	1	1	1	1	1	3	1	1
CO3	3	1	2	3	-	3	-	-	-	-	-	1	1	-	-
CO4	2	1	1	-	-	3	2	1	-	-	-	-	-	1	2
CO5	1	3	1	-	-	-	-	1	-	1	-	1	-	1	2

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	54.00	2	1.1	1	0.54	2	1.1	2	1.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1.62	1	0.54	-	-
CO2	69.00	2	1.4	1	0.69	3	2.1	1	0.69	1	0.69	1	0.69	1	0.69	1	0.69	1	0.69	1	0.7	1	0.69	1	0.69	3	2.07	1	0.69	1	0.69
CO3	54.60	2	1.1	1	0.55	2	1.1	3	1.64	-	-	3	1.64	-	-	-	-	-	-	-	-	-	-	1	0.55	1	0.55	-	-	-	-
CO4	67.00	2	1.3	1	0.67	1	0.7	-	-	-	-	3	2.01	2	1.34	1	0.67	-	-	-	-	-	-	-	-	-	-	1	0.67	2	1.34
CO5	84.66	3	2.5	3	2.54	1	0.8	-	-	-	-	-	-	-	-	1	0.85	-	-	1	0.8	-	-	1	0.85	-	-	1	0.85	2	1.6932
TOTAL		11	7.4	7	4.99	9	5.8	6	3.41	1	0.69	7	4.34	3	2.03	3	2.21	1	0.69	2	1.5	1	0.69	3	2.08	7	4.24	4	2.75	5	3.7232
Attainment %			68		71.2		64		56.8		69		62		67.7		73.6		69		77		69		69.4		60.5		68.7		74.464
Attained Level			2		3		2		2		2		2		2		3		2		3		2		2		2		2		3
WEIGHTED AVERAGE VALUE OF POs/PSOs			1.49		1.00		1.15		1.14		0.69		1.45		1.02		0.74		0.69		0.77		0.69		0.69		1.41		0.69		1.24

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: II Academic Year:2021-2022
Course Code : KAS 201T Course Name : PPS

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	-	-	-	-	-	-	-	-	3	1	-
CO2	1	1	2	2	1	-	-	-	-	-	-	-	2	1	1
CO3	2	1	2	-	-	-	-	-	-	-	-	-	1	-	-
CO4	2	1	1	-	-	-	-	-	-	-	-	-	-	1	-
CO5	2	1	1	-	-	-	-	-	-	-	-	-	-	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	70.00	2	1.4	1	0.7	2	1.4	2	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.1	1	0.7	-	-
CO2	61.11	1	0.611	1	0.6111	2	1.2222	2	1.22222	1	0.6111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1.22	1	0.61	1	0.611
CO3	44.44	2	0.889	1	0.4444	2	0.8889	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.44	-	-	-	-
CO4	45.56	2	0.911	1	0.4556	1	0.4556	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.46	-	-
CO5	48.89	2	0.978	1	0.4889	1	0.4889	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.49	-	-
TOTAL		9	4.789	5	2.7	8	4.4556	4	2.62222	1	0.6111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	3.77	4	2.26	1	0.611
Attainment %			53.21		54		55.694		65.5556		61.111		-		-		-		-		-		-		-		62.8		56.4		61.11
Attained Level			2		2		2		2		2		-		-		-		-		-		-		-		2		2		2
WEIGHTED AVERAGE VALUE OF POs/PSOs			0.96		0.54		0.89		1.31		0.61		-		-		-		-		-		-		-		1.26		0.56		0.61

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: II Academic Year:2021-2022
Course Code : ECS 201T Course Name : PPS

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	-	-	-	-	-	-	-	-	3	1	-
CO2	1	1	2	2	1	-	-	-	-	-	-	-	2	1	1
CO3	2	1	2	-	-	-	-	-	-	-	-	-	1	-	-
CO4	2	1	1	-	-	-	-	-	-	-	-	-	-	1	-
CO5	2	1	1	-	-	-	-	-	-	-	-	-	-	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	55.71	2	1.1	1	0.56	2	1.1	2	1.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1.67	1	0.56	-	-
CO2	51.43	1	0.5	1	0.51	2	1	2	1.03	1	0.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1.03	1	0.51	1	0.51
CO3	45.71	2	0.9	1	0.46	2	0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.46	-	-	-	-
CO4	45.71	2	0.9	1	0.46	1	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.46	-	-
CO5	40.00	2	0.8	1	0.4	1	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.4	-	-
TOTAL		9	4.3	5	2.39	8	3.9	4	2.14	1	0.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	3.16	4	1.93	1	0.51
Attainment %			47		47.7		49		53.6		51.4		-		-		-		-		-		-		-		52.6		48.2		51.4
Attained Level			2		2		2		2		2		-		-		-		-		-		-		-		2		2		2
WEIGHTED AVERAGE VALUE OF POs/PSOs			0.85		0.48		0.78		1.07		0.51		-		-		-		-		-		-		-		1.05		0.48		0.51

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: I Academic Year:2021-2022
Course Code : ENC 201 Course Name : Soft Skills 2

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1		1	1	2	1	2	2	1	1	3	2	3	3	1	-
CO2	1	1	2	2		1	1	2	3	3	2	3	3	1	1
CO3	1	2	2	1	1	2	2	3	2	3	3	3	1	-	-
CO4		1	2	2	1	2	2	3	3	3	3	3	-	1	-
CO5	1	1	3	1		2	2	2	3	3	2	3	-	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	100.00	0	0	1	1	1	1	2	2	1	1	2	2	2	2	1	1	1	1	3	3	2	2	3	3	3	3	1	1	-	-
CO2	98.57	1	1	1	0.99	2	2	2	1.97	-	-	1	0.99	1	0.99	2	1.97	3	2.96	3	3	2	1.97	3	2.96	3	2.96	1	0.99	1	0.99
CO3	24.29	1	0.2	2	0.49	2	0.5	1	0.24	1	0.24	2	0.49	2	0.49	3	0.73	2	0.49	3	0.7	3	0.73	3	0.73	1	0.24	-	-	-	-
CO4	18.57	-	-	1	0.19	2	0.4	2	0.37	1	0.19	2	0.37	2	0.37	3	0.56	3	0.56	3	0.6	3	0.56	3	0.56	-	-	1	0.19	-	-
CO5	37.14	1	0.4	1	0.37	3	1.1	1	0.37	0	0	2	0.74	2	0.74	2	0.74	3	1.11	3	1.1	2	0.74	3	1.11	-	-	1	0.37	-	-
TOTAL		3	1.6	6	3.03	10	4.9	8	4.96	3	1.43	9	4.59	9	4.59	11	5	12	6.11	15	8.4	12	6	15	8.36	7	6.2	4	2.54	1	0.99
Attainment %			53		50.5		49		62		47.6		51		51		45.5		51		56		50		55.7		88.6		63.6		98.6
Attained Level			2		2		2		2		2		2		2		2		2		2		2		2		3		2		3
WEIGHTED AVERAGE VALUE OF POs/PSOs			0.40		0.61		0.99		0.99		0.36		0.92		0.92		1.00		1.22		1.67		1.20		1.67		2.07		0.64		0.99

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: 2 Academic Year:2021-2022
Course Code : KNC 201 Course Name : Soft Skills 2

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1		1	1	2	1	2	2	1	1	3	2	3	3	1	-
CO2	1	1	2	2		1	1	2	3	3	2	3	3	1	1
CO3	1	2	2	1	1	2	2	3	2	3	3	3	1	-	-
CO4		1	2	2	1	2	2	3	3	3	3	3	-	1	-
CO5	1	1	3	1		2	2	2	3	3	2	3	-	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	84.62	0	0	1	0.85	1	0.8	2	1.69	1	0.85	2	1.69	2	1.69	1	0.85	1	0.85	3	2.5	2	1.69	3	2.54	3	2.54	1	0.85	-	-
CO2	92.31	1	0.9	1	0.92	2	1.8	2	1.85	-	-	1	0.92	1	0.92	2	1.85	3	2.77	3	2.8	2	1.85	3	2.77	3	2.77	1	0.92	1	0.923
CO3	15.38	1	0.2	2	0.31	2	0.3	1	0.15	1	0.15	2	0.31	2	0.31	3	0.46	2	0.31	3	0.5	3	0.46	3	0.46	1	0.15	-	-	-	-
CO4	10.26	-	-	1	0.1	2	0.2	2	0.21	1	0.1	2	0.21	2	0.21	3	0.31	3	0.31	3	0.3	3	0.31	3	0.31	-	-	1	0.1	-	-
CO5	23.08	1	0.2	1	0.23	3	0.7	1	0.23	0	0	2	0.46	2	0.46	2	0.46	3	0.69	3	0.7	2	0.46	3	0.69	-	-	1	0.23	-	-
TOTAL		3	1.3	6	2.41	10	3.9	8	4.13	3	1.1	9	3.59	9	3.59	11	3.92	12	4.92	15	6.8	12	4.77	15	6.77	7	5.46	4	2.1	1	0.923
Attainment %			44		40.2		39		51.6		36.8		39.9		39.9		35.7		41		45		39.7		45.1		78		52.6		92.31
Attained Level			2		2		2		2		2		2		2		2		2		2		2		2		3		2		3
WEIGHTED AVERAGE VALUE OF POs/PSOs			0.33		0.48		0.78		0.83		0.28		0.72		0.72		0.78		0.98		1.35		0.95		1.35		1.82		0.53		0.92

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: II Academic Year:2021-2022
Course Code : KAS203T Course Name : Engineering Mathematics

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	2	2	2	-	-	-	-	-	-	-	3	2	-
CO2	2	2	2	2	2	-	-	-	-	-	-	-	3	1	1
CO3	2	-	2	2	2	-	-	-	-	-	-	-	2	-	-
CO4	2	1	2	1	2	-	-	-	-	-	-	-	1	1	-
CO5	1	2	2	1	1	-	-	-	-	-	-	-	1	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	96.67	2	1.933	-	-	2	1.9333	2	1.93333	2	1.93333	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.9	2	1.93	-	-
CO2	98.89	2	1.978	2	1.9778	2	1.9778	2	1.97778	2	1.97778	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.97	1	0.99	1	0.98
CO3	4.44	2	0.089	-	-	2	0.0889	2	0.08889	2	0.08889	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0.09	-	-	-	-
CO4	7.78	2	0.156	1	0.0778	2	0.1556	1	0.07778	2	0.15556	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.08	1	0.08	-	-
CO5	8.89	1	0.089	2	0.1778	2	0.1778	1	0.08889	1	0.08889	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.09	1	0.09	-	-
TOTAL		9	4.244	5	2.2333	10	4.3333	8	4.16667	9	4.24444	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	6.12	5	3.09	1	0.99
Attainment %			47.16		44.667		43.333		52.0833		47.1605		-		-		-		-		-		-		-		61.2		61.8		98.9
Attained Level			2		2		2		2		2		-		-		-		-		-		-		-		2		2		3
WEIGHTED AVERAGE VALUE OF POs/PSOs			0.85		0.74		0.87		0.83		0.85		-		-		-		-		-		-		-		1.22		0.77		0.99

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: II Academic Year:2021-2022
Course Code : KAS203T Course Name : Engineering
Mathematics

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	2	2	2	-	-	-	-	-	-	-	3	2	-
CO2	2	2	2	2	2	-	-	-	-	-	-	-	3	1	1
CO3	2	-	2	2	2	-	-	-	-	-	-	-	2	-	-
CO4	2	1	2	1	2	-	-	-	-	-	-	-	1	1	-
CO5	1	2	2	1	1	-	-	-	-	-	-	-	1	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	98.57	2	2	-	-	2	2	2	1.97	2	1.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.96	2	1.97	-	-
CO2	92.86	2	1.9	2	1.86	2	1.9	2	1.86	2	1.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.79	1	0.93	1	0.93
CO3	8.57	2	0.2	-	-	2	0.2	2	0.17	2	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0.17	-	-	-	-
CO4	12.86	2	0.3	1	0.13	2	0.3	1	0.13	2	0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.13	1	0.13	-	-
CO5	10.00	1	0.1	2	0.2	2	0.2	1	0.1	1	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.1	1	0.1	-	-
TOTAL		9	4.4	5	2.19	10	4.5	8	4.23	9	4.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	6.14	5	3.13	1	0.93
Attainment %			48		43.7		45		52.9		48.4		-		-		-		-		-		-		-		61.4		62.6		92.9
Attained Level			2		2		2		2		2		-		-		-		-		-		-		-		2		2		3
WEIGHTED AVERAGE VALUE OF POs/PSOs			0.87		0.73		0.89		0.85		0.87		-		-		-		-		-		-		-		1.23		0.78		0.93

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: II Academic Year:2021-2022
Course Code : KAS2027 Course Name : Engineering Mathematics

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	2	2	2	-	-	-	-	-	-	-	3	1	-
CO2	2	2	2	2	2	-	-	-	-	-	-	-	3	1	1
CO3	2	-	2	2	2	-	-	-	-	-	-	-	1	-	-
CO4	2	1	2	1	2	-	-	-	-	-	-	-	-	1	-
CO5	1	2	2	1	1	-	-	-	-	-	-	-	-	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	89.74	2	1.8	-	-	2	1.8	2	1.79	2	1.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.69	1	0.9	-	-
CO2	69.23	2	1.4	2	1.38	2	1.4	2	1.38	2	1.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.08	1	0.69	1	0.692
CO3	5.13	2	0.1	-	-	2	0.1	2	0.1	2	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.05	-	-	-	-
CO4	5.13	2	0.1	1	0.05	2	0.1	1	0.05	2	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.05	-	-
CO5	12.82	1	0.1	2	0.26	2	0.3	1	0.13	1	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.13	-	-
TOTAL		9	3.5	5	1.69	10	3.6	8	3.46	9	3.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	4.82	4	1.77	1	0.692
Attainment %			39		33.8		36		43.3		39		-		-		-		-		-		-		-		68.9		44.2		69.23
Attained Level			2		2		2		2		2		-		-		-		-		-		-		-		2		2		2
WEIGHTED AVERAGE VALUE OF POs/PSOs			0.70		0.56		0.73		0.69		0.70		-		-		-		-		-		-		-		1.61		0.44		0.69

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

CO-PO ATTAINMENT

Course : B.Tech Semester: 2 Academic Year:2021-2022
Course Code : KAS201T Course Name : PHARMA

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	2	1	-	-	-	-	-	-	-	3	1	-
CO2	2	2	1	-	2	-	-	-	-	-	-	-	3	1	1
CO3	3	-	1	-	-	-	-	-	-	-	-	-	1	-	-
CO4	2	-	-	2	2	-	-	-	-	-	-	-	-	1	-
CO5	2	2	1	2	1	-	-	-	-	-	-	-	-	1	-

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	58.97	3	1.8	2	1.18	1	0.6	2	1.18	1	0.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1.77	1	0.59	-	-
CO2	82.05	2	1.6	2	1.64	1	0.8	-	-	2	1.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.46	1	0.82	1	0.821
CO3	25.64	3	0.8	-	-	1	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.26	-	-	-	-
CO4	12.82	2	0.3	-	-	-	-	2	0.26	2	0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.13	-	-
CO5	5.13	2	0.1	2	0.1	1	0.1	2	0.1	1	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.05	-	-
TOTAL		12	4.5	6	2.92	4	1.7	6	1.54	6	2.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	4.49	4	1.59	1	0.821
Attainment %			38		48.7		43		25.6		42.3		-		-		-		-		-		-		-		64.1		39.7		82.05
Attained Level			2		2		2		2		2		-		-		-		-		-		-		-		2		2		3
WEIGHTED AVERAGE VALUE OF POs/PSOs			0.91		0.97		0.43		0.51		0.63		-		-		-		-		-		-		-		1.50		0.40		0.82

P = PLANNED A = ATTAINED

KASHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CO-PO ATTAINMENT

Course : B.Tech First Year Semester: 2nd Academic Year:2021-2022
Course Code : KEE201T Course Name : Basic Electrical Engineering

CO-PO & PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	-	-	-	-	-	-	-	-	3	1	-
CO2	2	1	3	1	1	-	-	-	-	-	-	-	3	1	1
CO3	3	1	2	3	-	-	-	-	-	-	-	-	1	-	-
CO4	2	1	1	-	-	-	-	-	-	-	-	-	-	1	2
CO5	1	3	1	-	-	-	-	-	-	-	-	-	-	1	2

CO- PO & PSO COMPUTATION

		PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12		PSO1		PSO2		PSO3	
COs	CO Attainment %	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
CO1	54.00	2	1.1	1	0.54	2	1.1	2	1.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1.62	1	0.54	-	-
CO2	69.00	2	1.4	1	0.69	3	2.1	1	0.69	1	0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2.07	1	0.69	1	0.69
CO3	54.60	2	1.1	1	0.55	2	1.1	3	1.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.55	-	-	-	-
CO4	67.00	2	1.3	1	0.67	1	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.67	2	1.34
CO5	84.66	3	2.5	3	2.54	1	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.85	2	1.6932
TOTAL		11	7.4	7	4.99	9	5.8	6	3.41	1	0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	4.24	4	2.75	5	3.7232
Attainment %			68		71.2		64		56.8		69		-		-		-		-		-		-		-		60.5		68.7		74.464
Attained Level			2		3		2		2		2		-		-		-		-		-		-		-		2		2		3
WEIGHTED AVERAGE VALUE OF POs/PSOs			1.49		1.00		1.15		1.14		0.69		-		-		-		-		-		-		-		1.41		0.69		1.24

P = PLANNED A = ATTAINED

DIRECT ATTAINMENT

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

INDIRECT ATTAINMENT

Course : B.Tech **Semester: 1st** **Academic Year:2021-2022**
Course Code : KAS102T **Course Name : Engineering Chemistry**
Name of the Faculty : Dr. Rupesh Kumar Singh **Section : A**

S.No.	Roll No.	Name	MM (20)	Percentage
1	2104280100001	ABHAY VISHWAKARMA	15	75
2	2104280100002	ABHINAV KUMAR SINGH	13	65
3	2104280100004	ABHISHEK SHARMA	14	70
4	2104280100005	ADARSH GIRI	14	70
5	2104280100006	ADITYA GUPTA	16	80
6	2104280100007	ADITYA KUMAR	15	75
7	2104280100008	AKANKSHA GUPTA	18	90
8	2104280100009	AKASH DWIVEDI	18	90
9	2104280100010	AKASH JAISWAL	18	90
10	2104280100011	AKSHARA SRIVASTAVA	18	90
11	2104280100012	AMAN PANDEY	15	75
12	2104280100013	AMAN SINGH	13	65
13	2104280100014	AMAN YADAV	14	70
14	2104280100015	ANANYA SINGH	15	75
15	2104280100016	ANKIT KUMAR SINGH	13	65
16	2104280100017	ANKIT SRIVASTAV	18	90
17	2104280100018	ANUP KUMAR PANDEY	18	90
18	2104280100019	ANUPRIYA SINHA	18	90
19	2104280100020	ANURAG SRIVASTAV	16	80
20	2104280100021	APARNA CHAURASIA	17	85
21	2104280100022	ARIHANT UPADHYAY	17	85
22	2104280100023	ARIJIT SRIVASTAVA	16	80
23	2104280100024	ARYAN SINGH	16	80
24	2104280100025	ASHISH KUMAR	15	75
25	2104280100027	ATUL TIWARI	15	75
26	2104280100029	AYUSHI ADITI	15	75
27	2104280100030	AYUSHI SINGH	18	90
28	2104280100031	BALENDU NARAYAN JHA	18	90
29	2104280100032	CHETAN SINGH	16	80
30	2104280100033	GAURAV SHARMA	20	100
31	2104280100034	GULPHAM HUSSAIN	18	90
32	2104280100035	GULSHAN KUMAR MAURYA	18	90
33	2104280100036	GUNJA SINGH YADAV	16	80
34	2104280100037	GYAN PRAKASH	18	90
35	2104280100038	GYANENDRA PRATAP SINGH	16	80
36	2104280100039	HARSH PANDEY	16	80
37	2104280100040	HARSH SHUKLA	18	90
38	2104280100041	HARSH SINGH	20	100

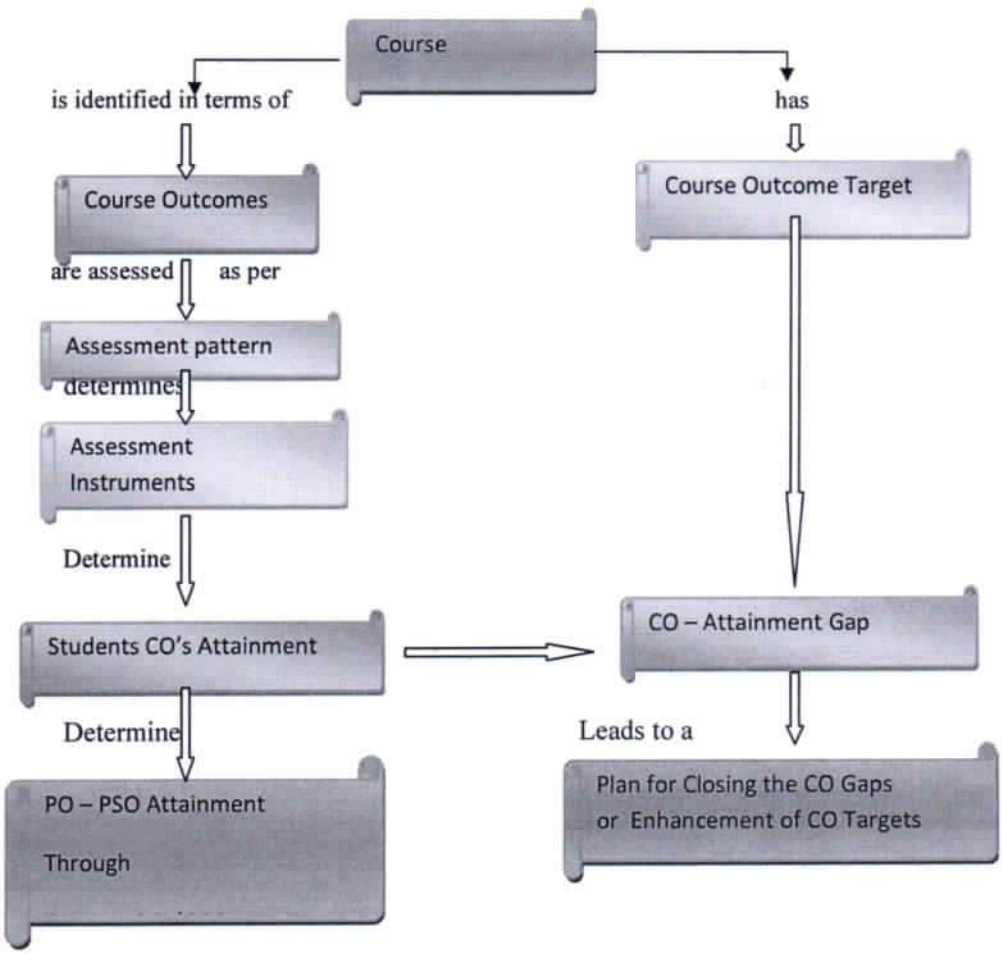
39	2104280100042	HIMANSHU TIWARI	15	75
40	2104280100043	HIMANSHU UPADHYAY	18	90
41	2104280100044	JAGRITI SINGH	20	100
42	2104280100045	JANHAVI SINGH	20	100
43	2104280100046	JATIN KUMAR	20	100
44	2104280100047	KARAN SINGH	15	75
45	2104280100048	KHYATI VISHWAKARMA	17	85
46	2104280100049	KM KOMAL GIRI	17	85
47	2104280100050	KUNWAR GAURAV SINGH	17	85
48	2104280100051	LAIBA FATIMA KHAN	15	75
49	2104280100052	LAVKUSH	15	75
50	2104280100053	MADHABI BISWAS	16	80
51	2104280100054	MAHIMA TRIPATHI	18	90
52	2104280100055	MANDISHA KAUSHIK	15	75
53	2104280100056	MOHAMMAD SHAHIL	12	60
54	2104280100057	MOHIT SINGH	12	60
55	2104280100058	NIDHI MAURYA	12	60
56	2104280100059	NIRAJ PAL	12	60
57	2104280100060	OM PRAKASH MISHRA	13	65
58	2104280100061	OM SHARAN RAO	13	65
59	2104280100062	PAWAN RAI	13	65
60	2104280100063	PIYUSH KUMAR SHAH	16	80
61	2104280100064	PRAKHAR SRIVASTAVA	18	90
62	2104280100065	PRANJAL MAURYA	17	85
63	2104280100066	PRASHANT JAISWAL	17	85
64	2104280100067	PRATEEK KUMAR SRIVASTAVA	17	85
65	2104280100070	PRINCE BHARDWAJ	16	80
66	2104280100071	PRIYANK VERMA	16	80
67	2104280100072	PRIYANSHU SINGH	15	75
68	2104280100073	PRIYANSHU SINGH	18	90
69	2104280100074	RAHI SHARMA	20	100
70	2104280100075	RANI KUSHWAHA	20	100
71	2104280100076	RATAN SINGH	15	75
72	2104280100077	RAVI KANT SINGH	18	90
73	2104280100078	RAVI MISHRA	16	80
74	2104280100079	RAY SAHAB PATEL	17	85
75	2104280100080	RIKESH KUMAR YADAV	17	85
76	2104280100081	RISHA FAROOQUI	18	90
77	2104280100082	RISHIKA PATEL	17	85
78	2104280100084	ROSHAN KUMAR SHARMA	17	85
79	2104280100085	SAJAL OJHA	15	75
80	2104280100086	SAKSHI VISHWAKARMA	20	100
81	2104280100087	SAMEER SINGH	15	75
82	2104280100088	SANTOSH KUMAR SHUKLA	18	90
83	2104280100089	SARTHAK SINGH	18	90
84	2104280100090	SARUBH PANDEY	16	80
85	2104280100091	SATYAM PATEL	16	80

86	2104280100092	SATYAM TIWARI	16	80
87	2104280100093	SAURABH KUMAR	15	75
88	2104280100094	SAURABH SINGH	15	75
89	2104280100095	SEJAL SINGH	15	75
90	2104280100096	SHIVAM RAI	16	80
Total number of Students				**90**
Number of Student Secured >= 70% Marks				**80**
% of Students Attained				**89**
Attainment Level				**3**

If 70% Students Scoring >= 70% Marks
ATTAINMENT LEVEL 3
If 60% Students Scoring >= 70% Marks
ATTAINMENT LEVEL 2
If 50% Students Scoring >= 70% Marks
ATTAINMENT LEVEL 1

Action Taken Report	
COs	**Action Taken**
CO1, CO2, CO3, CO4,CO5	**Attained**

CO attainment and Gap Analysis:



Calculation of Gap Analysis:

Gap = Target in level - Attainment in level

KASHI INSTITUTE OF TECHNOLOGY, VARANASI				
DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES				
OVERALL ATTAINMENT				
Course : B.Tech Course Code : KAS102T Name of the Faculty : Dr. Rupesh Kumar Singh	Semester: 1st		Academic Year:2021-2022 Course Name : Engineering Chemistry Section : A	
DIRECT ATM LEVEL	AKTU (END SEM)ATM LEVEL	DT*0.2+AE*0.8	INDIRECT ATM LEVEL	OVERALL ATM LEVEL
1.80	2	1.96	3	2.48
	OVERALL ATM AVG.	2.48		

Gap Analysis		
Target ATM level	Over all ATM Level	Gap = Target in level – Attainment in level
3.00	2.48	0.52

Action taken after identifying the gaps:

Convey the identified gaps to Board of Studies:

Considering the feedback from faculty, PAC committee, students and DAB committee, a representation is prepared by the department to convey the gaps and possible action plan to the Board of Studies (BOS. These inputs are taken into consideration by BOS while revising the syllabus

Following activities are planned to fulfil the identified gap.

Action taken for identified Gap
*Students are encouraged to Enrol NPTEL online certification course and to appear for certification exam.
*Remedial Classes will be conducted.
*Bridge classes for units.
*Assignments for critical topic.
*Solution for university question for unit.