

DEPARTMENT OF LANGUAGES

The Department of Languages at BAMKC, Garhshankar unveils its students the world of English, Punjabi and Hindi languages. It is one of the finest and vibrant Departments in the college. Earlier these three languages

Departments were working separately but in January 2021 Principal Dr. Baljit Singh Khehra amalgamated these Departments and united into one as he believes on Johan Wolfgang Von Goethe who once said:

“You can never understand one language until you understand at least two.”

VISION

The Department of Languages at B.A.M Khalsa College helps students to build knowledge of the content and method of literary studies. Department of languages will impart academic excellence and empower the students of the college through the best level of education. It also inculcates ethical and moral values in students. The Department of Languages develops strong bonding between students and their mother tongue. All the teachers who are associated with the department work efficiently to achieve excellence in their respective area of study.

MISSION

- The department of languages aims at transforming the students into the rational human beings with an inquisitive bent of mind through literary, theoretical and linguistic teaching.
- Promotion of human rights and responsibilities.
- To unfold hidden talents of the students and enhance their competitive skills.
- Efforts are made to raise the intellectual level of the students through seminars, webinars, debate, poetry recitation competitions.
- The all-around development of students in languages including Punjabi, English, Hindi.
- Introduce the students to languages through culture and connect them with heritage.

OBJECTIVES

- The students get to know and understand about languages in a better way.
- The languages course program helps students to understand society.

- All round development of various aspects of students like physical, intellectual, mental, ethical, moral, social, aesthetic etc.
- To impart knowledge to the students about different forms of Punjabi, Hindi and English Literature.
- Develop knowledge and realization about the changing realities of life.

Programme run by department:

1. B.A.

(Programme Code: BA)

Bachelor of Arts

Programme Outcomes (POs) of B.A.

On successful completion of B.A. programme, the students will be able to develop following attributes, qualities and skills:

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| PO1 | Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate program of study. |
| PO2 | Ability to express thoughts and ideas effectively in writing and orally, Communicate with others using appropriate media, confidently share one's views and express herself/himself, demonstrate the ability to listen carefully, read and write analytically, and present complex information clearly and concisely to different groups. |
| PO3 | Capability to apply analytic thought to a body of knowledge, analyze and evaluate evidence, arguments, claims, beliefs based on empirical evidence, identify relevant assumptions or implications; formulate coherent arguments, critically evaluate practices, policies, and theories by following a scientific approach to knowledge development. |
| PO4 | Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge, and apply one's learning to real-life situations. |
| PO5 | Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others, analyze and synthesize data from a variety of sources, draw valid conclusions and support them with evidence and examples, and address opposing viewpoints. |

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| PO6 | A sense of inquiry and capability for asking relevant/appropriate questions, problematizing, synthesizing, and articulating; Ability to recognize cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyze, interpret and draw conclusions from data, establish hypotheses, predict cause-and-effect relationships; ability to plan, execute and report the results of an experiment or investigation. |
| PO7 | Ability to work effectively and respectfully with diverse teams, facilitate cooperative or coordinated effort on the part of a group, and act together as a group or a team in the interests of a common cause and work efficiently as a member of a team, spend more time working towards high-value goals and gain a balance between professional goals and personal time. |
| PO8 | Ability to analyze interprets and draws conclusions from quantitative/qualitative data, and critically evaluate ideas, evidence, and experiences. |
| PO9 | Critical sensibility to lived experiences, with self-awareness and reflexivity of both self and society |
| PO10 | Capability to use ICT in a variety of learning situations, demonstrate an ability to access, evaluate, and use a variety of relevant information sources, and use appropriate software for analysis of data. |
| PO11 | Ability to work independently, identify appropriate resources required for a project, and manage a project through to completion. |
| PO12 | Possess knowledge of the values and beliefs of multiple cultures and a global perspective, capability to effectively engage in a multicultural society and interact respectfully with diverse groups. |
| PO13 | Ability to embrace moral/ethical values in conducting one's life, formulate a position/argument about an ethical issue from multiple perspectives, and use ethical practices in all work. Capable of demonstrating the ability to identify ethical issues related to one's work, avoid unethical behaviour such as fabrication, falsification, or misrepresentation of data or committing plagiarism, not adhering to intellectual property rights, appreciating environmental and sustainability issues, and adopting an objective, unbiased and truthful actions in all aspects of work. |
| PO14 | Capability for mapping out the tasks of a team or an organization, and setting direction, formulating an inspiring vision, building a team who can help achieve the vision, motivating and inspiring team members to engage with that vision, and using management skills to guide people |

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| | to the right destination, smoothly and efficiently. |
| PO15 | Ability to acquire knowledge and skills, including "learning how to learn", that is necessary for participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social, and cultural objectives, and adapting to changing trades and demands of the workplace through knowledge/skill development/reskilling. |

Programme Specific Outcomes (PSOs)

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| PSO 1 | The students will be able to acquire knowledge in the field of Social Sciences, Literatures and Humanities which make them sensitive and sensible enough to solve the problems related with mankind. |
| PSO 2 | BA graduates will be acquainted with the social, economic, historical, geographical, political, ideological and philosophical tradition and thinking. |
| PSO 3 | The program also empowers the graduates to appear for various competitive examinations or choose the Post Graduate Program of their choice. |
| PSO 4 | BA program empowers the students to acquire the knowledge with human values framing the base to deal with various problems in the life with courage and humanity and also this program provides the base to be the responsible citizen. |
| PSO 5 | This program enables the students (with limited range) to translate texts/scripts in three major languages (Punjabi, Hindi, English) and they will be ignited enough to act over for the solution of various issues prevailed in human life to make this world a better place than ever. |

Course Outcomes (COs) of B.A.

| Sem. | Course Name | Course Code | Course Outcome | |
|---------------|---------------------------|--------------------|-----------------------|--|
| Sem.-I | English Compulsory | ENG101 | CO1 | Give an introductory knowledge of English language and critically appreciate literary texts. |
| | | | CO2 | Acquire extensive knowledge of English as a language in its various textual forms which transform them to be creative, thoughtful, imaginative and effective communicators in a diverse and changing society |
| | | | CO3 | Identify the grammatical structures by understanding Voice, Antonyms and translation |

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| | | | CO4 | Work effectively and respectfully with diverse teams, facilitate them in such a way that English learning becomes a pleasurable endeavor and they learn at self-pace. |
| | | | CO5 | Examine the various literary aspects through the text which capacitates them to enrich their literary, research and cultural values and also make them aware of self and society |
| | | | CO6 | Compose paragraph writing which improves their writing skills. |
| Sem.-I | Punjabi Compulsory | PBC101 | CO1 | Give an introductory Knowledge of Punjabi Language. |
| | | | CO2 | Examine the various forms of modern poetry. |
| | | | CO3 | To understand the definition and nature of Essay and make student capable how to write Essay. |
| | | | CO4 | To develop Skill of précis writing. |
| | | | CO5 | To make Student able to understand the grammar and its importance and identifying the types of sentences. |
| | | | CO6 | To get practical knowledge of various aspects of Punjabi grammar. |
| Sem.-I | History & Culture of Punjab | HCP101 | CO1 | Describe the physical features of Punjab and its impact on History of Punjab. |
| | | | CO2 | Evaluate various sources of Punjab History. |
| | | | CO3 | Describe the extent, town planning, social economic and religious life of Harappan Civilization. |
| | | | CO4 | Describe the Political, Social, Economic and Religious life of Vedic Age. |
| | | | CO5 | Analyze the historical importance of Ramayana and Mahabharat. |
| | | | CO6 | Evaluate the political condition on the eve of Alexander's invasion and impact of invasion on Social and Cultural life. |
| Sem.-I | Elective English | ENO101 | CO1 | Explain general literary terms as prescribed in syllabus |
| | | | CO2 | Analyse poetry and prose text of the book 'Fluency in English' and comprehend the given prose passage |
| | | | CO3 | Compose personal social and official letters |
| | | | CO4 | Transform one kind of sentences to another |
| | | | CO5 | Modify active sentences to passive, direct to indirect and vice versa |
| | | | CO6 | Apply appropriate articles, prepositions and conjunctions in sentences |
| Sem.-I | Elective Hindi | HIN101 | CO1 | Develop a bonding with the National Language of the Student. |
| | | | CO2 | Knowledge of Hindi language helps them to think critically while studying hindi literature. They are able to relate pleasure of literature and real life. |
| | | | CO3 | Understanding the role played by the poets of bhakti cult in literature and society. Use the literature to develop their social and moral sense in life. |

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| | | | CO4 | Understand the communication process and method. |
| | | | CO5 | Inculcate moral and human qualities inside themselves. |
| | | | CO6 | Develop knowledge of hindi linguistic and grammar. |
| Sem.-I | Elective Punjabi | PBI101 | CO1 | Analyse Adhunik Punjabi Kavita from 1901-2000 |
| | | | CO2 | Explain the ekangi Chedarshan.' |
| | | | CO3 | Comprehend the principles of language and Punjabi language. |
| | | | CO4 | Describe forms of literature such as geet, gazal ,ikangi ,novel and story. |
| | | | CO5 | Understand the history of Punjabi literature from 1901-2000. |
| Sem.-I | History | HIS101 | CO1 | Identify and define various kinds of sources and understand how various evidences are notified. |
| | | | CO2 | Describe various stages of progress from Indus valley civilization to Vedic age and analyze Jain, Buddhist and Vedic faith. |
| | | | CO3 | Analyze the transition from territorial states to emergence of empires. |
| | | | CO4 | Describe the emergence of the Mauryan and Gupta empire in North India and also examine the administrative features of Southern states. |
| | | | CO5 | Examine the nature of monarchical rule and develop a comprehensive understanding of cultural evolution during ancient period. |
| | | | CO6 | Visualize where places are in relation to one another through map pointing and explain their historical importance. |
| Sem.-I | Economics | ECO101 | CO1 | Analyze the decisions taking by firms and households due to scarcity of resources. |
| | | | CO2 | Describe the theory of demand and consumer behavior. |
| | | | CO3 | Explain the laws and various concepts of production and costs. |
| | | | CO4 | Illustrate the functioning of each market structure. |
| | | | CO5 | Understand the price and output determination of different market structure. |
| | | | CO6 | Explain the various theories of rent, interest and profit. |
| Sem.-I | Political Science | POL101 | CO1 | This paper is to introduce first semester undergraduate students to some of the basic aspects like scope of political science, its relationship with other Disciplines like sociology, economics and history. |
| | | | CO2 | Students also familiar with various theories regarding state and its origin, like social contract theories, evolutionary and historical theory. |
| | | | CO3 | Students also gain knowledge about different ideologies like liberal, Marxian and Gandhi an views. |
| | | | CO4 | This paper also analyses the function of welfare state and various types of sovereignty. |
| | | | CO5 | To acquaint with the theories, approaches, concepts and principles of political theory. |

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| | | | CO6 | To understand the various traditional and modern theories of political science |
| Sem.-I | Environment Conservation | ENC101 | CO1 | Understand about the scope and importance of Environment . |
| | | | CO2 | To acquire knowledge about the ecosystem its various components . Introduction to various biogeochemical cycles of the environment. |
| | | | CO3 | Learn about different types of natural resources and their uses to mankind, Various policies of their conservation . |
| | | | CO4 | Acquire knowledge about various alternative sources of energy like solar energy , wind power , geothermal energy, dung energy and wood energy. |
| | | | CO5 | Detailed understanding of forests types in India and the World. Learn about different forestry systems like farm forestry, community forestry , social forestry and agroforestry systems. |
| | | | CO6 | To know about the various adulterants of food and various tests performed to find out the type of adulteration and understand about various indoor pollutants exist in our workplaces, homes, college , bus stand . |
| Sem.-I | Physical Education | PED101 | CO1 | Develops in the students awareness of physical, mental and emotional health and its importance. |
| | | | CO2 | Enhances the interest of the students in sports. |
| | | | CO3 | Enables the students become better enlightened and fit citizens of the country. |
| | | | CO4 | Get to know of the various intricacies and insight knowledge of various sports. |
| | | | CO5 | Enhances the qualities of leadership and promotes the concept of national integration. |
| | | | CO6 | Makes individuals and society more fit and a better place to live in. |
| Sem.-I | Home Science | HMS101 | CO1 | To Define the meaning and importance of home science, functions of home. |
| | | | CO2 | To Understand Elements and principles of Art in interior decoration. |
| | | | CO3 | To Infer meaning of health, hygiene, immunity and causes of spread of disease. |
| | | | CO4 | To Enhance knowledge and apply Food hygiene in real scenario. |
| | | | CO5 | To Apply Water purification at domestic level |
| | | | Practical | Students learn Floor decoration, Knowledge of color scheme. |
| Sem.-I | Functional English | FNC101 | CO1 | To familiarize them with the functioning of English - English sounds through listening in the Language Lab, enhancing communication skills and making them aware with IT tools. |
| | | | CO2 | To achieve accuracy in oral production by encouraging the use of pronunciation dictionaries. |
| | | | CO3 | To achieve an optimum level of intelligibility and fluency |

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| | | | | inspeech in group communication. |
| | | | CO4 | To enhance their ability of communication in the spoken mode with accuracy and fluency for various functions |
| | | | CO 5 | To mark stress and will become well versed with word stress and sentence stress. |
| | | | CO 6 | To understand Intonation and its various patterns. |
| Sem.-I | Mathematics: Paper A(Plane Geometry) | MAT101 A | CO1 | Solving Problems on Transformation of axes, Joint equation of pair of straight lines and angle between them, Joint equation of lines joining origin to the intersection of a line and a curve. |
| | | | CO2 | Learn about General equation of circle, tangents, normals, chord of contact, pole and polar, pair of tangents from a point and length of tangent |
| | | | CO3 | Knowledge of equation of chord in terms of midpoint, radical axis, co-axial family of circles, limiting points. |
| | | | CO4 | Understanding of General equation of a conic, tangents, normals, chord of contact, pole and polar, pair of tangents, diameter, Conjugate diameters of ellipse and hyperbola. |
| | | | CO 5 | Exposure on special properties of parabola, ellipse and hyperbola, conjugate hyperbola, asymptotes of hyperbola, rectangular hyperbola. |
| Sem.-I | Mathematics: Paper B (Calculus-I) | MAT101 B | CO1 | Understanding the concepts of real numbers, Limits and continuity. |
| | | | CO2 | Solve Algebraic equations and inequalities involving the square root and Modulus function. |
| | | | CO3 | Analyze functions and their graphs and learn to produce rigorous proofs of results that arise in the context of calculus, Geometric value theorems. |
| | | | CO4 | Determine continuity at a point or an interval. and distinguish between the types of discontinuities at a point |
| | | | CO 5 | Identify and Apply the intermediate value theorem, Mean value theorem and L' Hospital Rule. |
| | | | CO 6 | Knowledge about Hyperbolic functions their differentiation .learn Successive differentiation and Leibnitz's theorem. |
| Sem.-I | Mathematics: Paper C (Trigonometry and Matrices) | MAT101 C | CO1 | Understanding De Moivre theorem and apply it to find roots and powers of complex numbers |
| | | | CO2 | Analyze function of complex variable and calculate summation of trigonometric series |
| | | | CO3 | Differentiate hermitian and skew – hermitian matrices and compute rank of matix |
| | | | CO4 | Discuss linear dependence and linear independence of vectors and solve linear equations using matrices |
| | | | CO 5 | Calculate Eigen values of matrix and apply Cayley – Hamilton theorem to find inverse of matrix |
| Sem.-I | Computer Science-A | CS101A | CO1 | Define basic computer hardware architecture. |
| | | | CO2 | Discuss software applications. |

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| | (Computer Fundamentals) | | CO3 | Use essential IT support skills including installing, configuring, securing and troubleshooting operating systems and hardware |
| | | | CO4 | Understand file management. |
| | | | CO 5 | Able to aware of RAM, ROM, COST, SIZE, CACHE and virtual memory. |
| | | | CO 6 | Accomplish creating basic documents, presentations with their properties. |
| Sem.-I | Computer Science-B (PC Software) | CS101B | CO1 | To introduce students with the basic concepts of the operating system, its functions and services. |
| | | | CO2 | Use essential IT support skills including installing, configuring, securing and troubleshooting operating systems and hardware. |
| | | | CO3 | Discuss such as Microsoft office applications like MS-Word, MS-Excel, MS-PowerPoint etc. |
| | | | CO4 | Use file management techniques for file and directory/folder organization. |
| | | | CO 5 | Able to aware of RAM, ROM, COST, SIZE, CACHE and virtual memory. |
| | | | CO 6 | Accomplish creating basic documents, presentations with their properties. |
| Sem.-I | Music | MUV101 | CO1 | To identify the contributions of important musicians, composers of various time period. |
| | | | CO2 | To understand core musicological concepts described in treatises of various time periods. |
| | | | CO3 | To understand different Ragas, Jaties. |
| | | | CO4 | To understand various musical terms. |
| | | | CO 5 | To acquire knowledge about Khayal. |
| | | | CO 6 | To play Taals on Hands and Tabla |
| Sem.-II | English Compulsory | ENG201 | CO1 | Illustrate introductory knowledge of English language and critically recognise literary texts |
| | | | CO2 | Understand the process of creativity and asses extensive knowledge of English as a language in its various textual forms and to become thoughtful, imaginative and effective communicators in a diverse and changing society |
| | | | CO3 | Know of the different types of sentences and its structure and become acquainted with narration and representation |
| | | | CO4 | To work effectively and respectfully with diverse teams, facilitate them in such a way that English learning becomes a pleasurable endeavour and they learn at self-pace |
| | | | CO5 | To become acquainted with various literary aspects through the text which capacitates them to enrich their literary, |

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| | | | | research and cultural values and also make them aware of self and society. |
| | | | CO6 | To enable them to write and appreciate different types of prose. |
| Sem.-II | Punjabi Compulsory | PBC201 | CO1 | To get information of Punjabi language. |
| | | | CO2 | Provide Knowledge of Punjabi short story and make student familiar with it. |
| | | | CO3 | Also make student able to write any kind of notice. |
| | | | CO4 | To make students able to understand the Punjabi idioms its importance and benefits. |
| | | | CO5 | To provide practical knowledge of Punjabi language and vocabulary. |
| Sem.-II | History & Culture of Punjab | HCP201 | CO1 | Describe the social, economic and religious life under the Mauryan Empire. |
| | | | CO2 | Evaluate the impact of Jainism and Buddhism on Punjab. |
| | | | CO3 | Analyze impact of Kanishka's rule on Punjab and salient features of Gandhara school of Art. |
| | | | CO4 | Describe the various cultural and scientific developments under Guptas and position of women under Mauryas, the Guptas and the Vardhan. |
| | | | CO5 | Depiction of Punjab in various historical sources. |
| | | | CO6 | Describe the Society and Culture on the eve of the Turkish invasion. |
| Sem.-II | Elective English | ENO201 | CO1 | Describe the literary terms related to Essay, Stories and Plays |
| | | | CO2 | Analyse essays, short-stories and One-Act plays and solve questions related to that |
| | | | CO3 | Compose paragraphs on their own |
| | | | CO4 | Develop sentences using the given words as different parts of speech |
| | | | CO5 | Translate sentences from vernacular to English |
| | | | CO6 | Modify the given sentences after identifying errors |
| Sem.-II | Elective Hindi | HIN201 | CO1 | Develop a bonding with the National Language of the Student. |
| | | | CO2 | Knowledge of Hindi language helps them to think critically while studying hindi literature. They are able to relate pleasure of literature and real life. |
| | | | CO3 | Understanding the role played by the poets of bhakti cult in literature and society. Use the literature to develop their social and moral sense in life. |
| | | | CO4 | Understand the communication process and method. |

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| | | | CO5 | Inculcate moral and human qualities inside themselves. |
| | | | CO6 | Develop knowledge of hindi linguistic and grammar. |
| Sem.-II | Elective Punjabi | PBI201 | CO1 | Analyse Adhunik Punjabi Kavita from 1901-2000. |
| | | | CO2 | Describe Punjabi culture by reading novel Doaba. |
| | | | CO3 | Understand history of Punjabi literature from 1901-2000. |
| | | | CO4 | Comprehend Punjabi kaavshastar such as dhunisampardae and alankarsampardae. |
| | | | CO5 | Define literature along with its nature, components and functions. |
| Sem.-II | History | HIS201 | CO1 | Describe the advent of Islam in India and examine the political and cultural expansion of Turks, Afghans and Mughals. |
| | | | CO2 | Understand the social, economic and cultural developments of Medieval India. |
| | | | CO3 | Explain the administration, art and architecture of Vijaynagar and Mughal rulers. |
| | | | CO4 | Analyze the rise of the Marathas under the leadership of Shivaji. |
| | | | CO5 | Describe the various features of Bhakti movement. |
| | | | CO6 | Visualize the extent of empire under Alauddinkhilji and Aurangzeb and places of historical importance of medieval period through map pointing. |
| Sem.-II | Economics | ECO201 | CO1 | Analyze the decisions taking by firms and households due to scarcity of resources. |
| | | | CO2 | Describe the theory of demand and consumer behaviour. |
| | | | CO3 | Describe the laws and various concepts of production and costs. |
| | | | CO4 | Describe the functioning of each market structure. |
| | | | CO5 | Analyze the price and output determination of different market structure. |
| | | | CO6 | Explain the various theories of rent, interest and profit. |
| Sem.-II | Political Science | POL201 | CO1 | Explain the concept of democracy, its types and theories to understand the concept of development & various views relating to it, sustainable development and human rights. |
| | | | CO2 | To learn the origin of the concepts such as Law, power, authority, and legitimacy |
| | | | CO3 | Understand the concept of justice, distributive justice, multiculturalism and social justice. |
| | | | CO4 | To analyse the meaning of organs of government and theory of separation of power. |
| | | | CO5 | Explore the working of political system and their structure and infra-structure and various input-output function according to Almond and Powell. |
| | | | CO6 | To learn the procedure of various social institutions and government institutions |
| Sem.-II | Environment | ENC201 | CO1 | To acquire knowledge about the physical and chemical |

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| | Conservation | | | properties of soil , meaning of soil profile and its components. |
| | | | CO2 | Learn about various techniques of testing soil sample , various methods to increase soil fertility and role of soil microorganisms in increasing soil fertility. |
| | | | CO3 | Learn about various factors causing soil erosion, different types of soil pollutants and various control measures to control pollution . |
| | | | CO4 | Understand about various chemicals, pesticides, fertilizers and manure acting as soil pollutants. |
| | | | CO5 | Learn about global and biological water cycle ,overutilization of surface and ground water. |
| | | | CO6 | Learn about various methods to treat waste water like green method, Root – zone technology etc. |
| Sem.-II | Physical Education | PED201 | CO1 | Develops in the students awareness of physical, mental and emotional health and its importance. |
| | | | CO2 | Enhances the interest of the students in sports. |
| | | | CO3 | Enables the students become better enlightened and fit citizens of the country. |
| | | | CO4 | Get to know of the various intricacies and insight knowledge of various sports. |
| | | | CO5 | Enhances the qualities of leadership and promotes the concept of national integration. |
| | | | CO6 | Makes individuals and society more fit and a better place to live in. |
| Sem.-II | Home Science | HMS201 | CO1 | To Define the meaning and importance of home science, functions of home. |
| | | | CO2 | To Understand Elements and principles of Art in interior decoration. |
| | | | CO3 | To Infer meaning of health, hygiene, immunity and causes of spread of disease. |
| | | | CO4 | To Enhance knowledge and apply Food hygiene in real scenario. |
| | | | CO5 | To Apply Water purification at domestic level |
| | | | Practical | Students learn Floor decoration, Knowledge of color scheme. |
| Sem.-II | Functional English | FNC201 | CO1 | To write and distinguish different types of paragraphs. |
| | | | CO2 | To use specific formats of written discourse. |
| | | | CO3 | To achieve an optimum level of intelligibility and fluency in written discourse. |
| | | | CO4 | To write different kinds of letters. |
| | | | CO 5 | To interpret information in any scheme, such as Dialogue to paragraphs, and vice versa |
| | | | CO 6 | To develop analytical skill to write precis and Note Making. |
| Sem.-II | Mathematics: | MAT201 | CO1 | Acquire knowledge about concavity, convexity and points of inflection, multiple points, asymptote and Tracing of curves |

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| | Paper A | A | | (cartesian and parametric coordinates only) |
| | | | CO2 | Derive Reduction formulae for some complex integrations and hence integrate functions of much higher degree which are applicable in real life situations. |
| | | | CO3 | Learn to find curvature, evolute and involute, chord of curvature. |
| | | | CO4 | Demonstrate understanding of common numerical methods of integration. |
| | | | CO 5 | Apply Integral calculus to find arc length of a curve, arc length of a parametric curves, area under a curve, surface area and volume of surface of revolution. |
| Sem.-II | Mathematics: Paper B | MAT201 B | CO1 | Describe Euclid's algorithm and apply synthetic division to find the roots of polynomial |
| | | | CO2 | State the relation between roots and coefficients |
| | | | CO3 | Implement transformation of the equations to solve roots |
| | | | CO4 | Explain and apply Descartes rule of signs |
| | | | CO 5 | Solve cubic using Cardon's method and bi-quadratic using Descartes method & Ferrari's Method |
| | | | CO 6 | Apply Newton's method of divisors to solve equations. |
| Sem.-II | Mathematics: Paper C | MAT201 C | CO1 | Describe Euclid's algorithm and apply synthetic division to find the roots of polynomial |
| | | | CO2 | State the relation between roots and coefficients |
| | | | CO3 | Implement transformation of the equations to solve roots |
| | | | CO4 | Explain and apply Descartes rule of signs |
| | | | CO 5 | Solve cubic using Cardon's method and bi-quadratic using Descartes method & Ferrari's Method |
| | | | CO 6 | Apply Newton's method of divisors to solve equations. |
| Sem.-II | Computer Science-A | CS201A | CO1 | Apply the scheduling algorithms for the given problem |
| | | | CO2 | Demonstrate the fundamental LINUX commands & system calls. |
| | | | CO3 | Apply the process synchronous concept using message queue, shared memory, semaphore and Dekker's algorithm for the given situation. |
| | | | CO4 | Experiment an algorithm to detect and avoid deadlock |
| | | | CO 5 | Demonstrate the various operations of the file system. |
| | | | CO 6 | Apply the various methods in memory allocation and page replacement algorithms. |
| Sem.-II | Computer Science-B | CS201B | CO1 | To Define the problem. |
| | | | CO2 | To Extend skill on problem solving by constructing algorithms. |
| | | | CO3 | To Use the fundamentals of C programming in trivial problem |

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| | | | | solving. |
| | | | CO4 | To Identify solution to a problem and apply control structures and user defined functions for solving the problem |
| | | | CO 5 | To Demonstrate the use of Strings and string handling functions, structures, union. |
| | | | CO 6 | Apply skill of identifying appropriate programming constructs for problem solving |
| Sem.-II | Music | MUV201 | CO1 | To identify the contributions of important musicians, composers of various time period. |
| | | | CO2 | To understand core musicological concepts described in treatises of various time periods. |
| | | | CO3 | To understand about Bhatkhande and Thaapadati. |
| | | | CO4 | To understand various musical terms. |
| | | | CO 5 | To acquire knowledge about VilambitKhayal |
| | | | CO 6 | To play TaalsonTabla |
| Sem.-III | English Compulsory | ENG301 | CO1 | To critically appreciate literary texts. |
| | | | CO2 | To acquire extensive knowledge of English as a language in its various textual forms and to become creative, thoughtful, imaginative and effective communicators in a diverse and changing society. |
| | | | CO3 | To master the skill of transformation of sentences and ability to use non-finiteverbs. |
| | | | CO4 | To work effectively and respectfully with diverse teams, facilitate them in such a way that English learning becomes a pleasurable endeavour and they learn at self-pace. |
| | | | CO5 | To become acquainted with various literary aspects through the text which capacitates them to enrich their literary, research and cultural values and also make them aware of self and society. |
| | | | CO6 | To describe and mark punctuation, and expertise in Making Notes and enable them ICT tools. |
| Sem.-III | Punjabi Compulsory | PBC301 | CO1 | To provide knowledge of essay writing and analysis. |
| | | | CO2 | To make understand the cultural identity of Punjabi literature. |
| | | | CO3 | To make student capable to write a letters with every aspects of human life. |
| | | | CO4 | To provide knowledge about the origin and development of Punjabi script. |
| | | | CO5 | Examine the linguistic and make Students familiar with roots of Punjabi literature. |
| Sem.-III | History & Culture of | HCP301 | CO1 | Analyze the Society and Culture in Punjab during Turko-Afghan and Mughal Rule. |

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| | Punjab | | CO2 | Describe the teachings of Sikh Gurus and development of Sikh institutions. |
| | | | CO3 | Analyze the salient features of Bhakti and Sufi Movement. |
| | | | CO4 | Evaluate the martyrdom of Guru ArjanDevji and Guru TeghBahadurji. |
| | | | CO5 | Describe the New Policy of Guru HarGobindji. |
| | | | CO6 | Describe foundation of KhalsaPanth and Post Khalsa activities of Guru Gobind Singh. |
| Sem.- III | Elective English | ENO301 | CO1 | Critically appreciate literary texts and introduce students to the thematic concerns, genres and trends of Indian writing in English. |
| | | | CO2 | Comprehend extensive knowledge of English as a language in its various textual forms and construct them to be creative, thoughtful, imaginative and effective communicators in a diverse and changing society |
| | | | CO3 | Students will be able to Classify different types of dialogue writing in English. |
| | | | CO4 | Provide an overview of the various phases of the evolution of Indian writing in English. To work effectively and respectfully with diverse teams, facilitate them in such a way that English learning becomes a pleasurable endeavour and they learn at self-pace |
| | | | CO5 | To become acquainted with various literary aspects through the text which capacitates them to enrich their literary, research and cultural values and also make them aware of self and society. |
| | | | CO6 | Encourage students to make a detailed study of a few literary terms related to Drama and make enable them to enjoy life through literature. |
| Sem.- III | Elective Hindi | HIN301 | CO1 | Knowledge of Hindi language helps them to think critically while studying hindi literature. They are able to relate pleasure of literature and real life. |
| | | | CO2 | Understanding the importance of Environment culture and social life. Understanding the relation between society and literature by hindi literature in past and present. |
| | | | CO3 | Study the socio-culture and political background of adikal to ritikal. |
| | | | CO4 | Use the literature to develop their social and moral sense in life. |
| | | | CO5 | Evaluating the concept of hindi from past to present and |

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| | | | | making the society more closely through literature. |
| | | | CO6 | Develop knowledge of hindi linguistic and grammar. |
| Sem.- III | Elective Punjabi | PBI301 | CO1 | Madhkali Punjabi KavAdhayan. |
| | | | CO2 | Main Objective of Madhkali Punjabi Adhayan. |
| | | | CO3 | Introduction to Punjabi Travelog and to provide knowledge for Travelog importance to students. |
| | | | CO4 | Introduction to punjabiSahit da Ithas and to provide knowledge to GurmitKav and Bhagtikav |
| | | | CO5 | To Provide knowledge of BhartiKavSashtar |
| | | | CO6 | Introduction and importance of BhashaVigyan |
| Sem.- III | History | HIS301 | CO1 | Describe the foundation of British Rule with special reference to Battle of Plassey and Buxar. Explain the reforms made by British Governor Generals. |
| | | | CO2 | Analyze the cause and effects of Revolt of 1857. |
| | | | CO3 | Understand the socio-religious movements and also the role played by Mahatma Gandhi, Jotiba Phule and Dr. Ambedkar for the upliftment of depressed class. |
| | | | CO4 | Analyze the Economic policy of Britishers in India and their effect. |
| | | | CO5 | Explain the communal politics and various events related to National movement till 1947. |
| | | | CO6 | Describe the formation of Constitution of India and developments that took place after independence till 1964. |
| Sem.- III | Economics | ECO301 | CO1 | Appraise the effect of public expenditure on economy. |
| | | | CO2 | Explain tax and non tax revenue, differentiate between direct and indirect tax and shifting of taxation and effects of taxation. |
| | | | CO3 | Explain the types of public debt and how debt is repaid? |
| | | | CO4 | Describe the various International trade theories, terms of trade and commercial policy. |
| | | | CO5 | Explain the concept of BOP and exchange rate. |
| | | | CO6 | Explain the objective and working of IMF and IBRD. |
| Sem.- III | Political Science | POL301 | CO1 | Students understand the philosophy of Indian constitution. |
| | | | CO2 | Examine the fundamental rights and duties of Indian citizen with the study of the significance of directive principles of states |
| | | | CO3 | Critical analysis of important institutions of the Indian union! The executive, president, prime minister, council of ministers, governor, chief minister, legislature, raj Sabah, lok Sabah speaker of India. |
| | | | CO4 | To identify how electoral rules and procedure in India effect election outcomes |

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| | | | CO5 | Students are able to understand various election procedure in India and various factors which influence Indian political system. |
| | | | CO6 | This paper defines the composition power and role of Indian Supreme Court and high court |
| Sem.- III | Environment Conservation | ENC301 | CO1 | Learn about atmosphere ,its structure and learn about stratospheric ozone |
| | | | CO2 | Understand about Air pollution, its sources and methods to control air pollution and about Air (prevention and control of pollution) Act, 1981. |
| | | | CO3 | In this unit students will learn about green house effect and global warming and its causes and various gases causesgreen house effect. |
| | | | CO4 | Understand and learn about stratospheric ozone depletion and Role of paddy burning, livestock and biomass burning in causing green house effect. |
| | | | CO5 | To acquire knowledge about radioactive pollution and noise pollution its sources and methods to reduce this pollution, learn about various mineral resources and its mining and environmental effects of mining. |
| | | | CO6 | Learn about green building concept, carbon sequestration, CDM(Clean development mechanism). |
| Sem.- III | Physical Education | PED301 | CO1 | Develops in the students awareness of physical, mental and emotional health and its importance. |
| | | | CO2 | Enhances the interest of the students in sports. |
| | | | CO3 | Enables the students become better enlightened and fit citizens of the country. |
| | | | CO4 | Get to know of the various intricacies and insight knowledge of various sports. |
| | | | CO5 | Enhances the qualities of leadership and promotes the concept of national integration. |
| | | | CO6 | Makes individuals and society more fit and a better place to live in. |
| Sem.- III | Home Science | HMS301 | CO1 | To Read the use and care of sewing machines. |
| | | | CO2 | To Define Anthropometry and methods of developing a design. |
| | | | CO3 | To Learn Textile fibers in terms of their manufacturing and properties. |
| | | | CO4 | To Understand various dyeing. |
| | | | CO5 | To Use Printing and finishing techniques. |
| | | | practical | Understand basic seams, stitches, embroidery and drafting |
| Sem.- III | Functional English | FNC301 | CO1 | To acquaint learners with the different mechanisms of radio broadcast. |
| | | | CO2 | To train learners in Script writing for different genres of Radio |

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| | | | | broadcast |
| | | | CO3 | To help learners build their best voice by acquainting them with the elements of voice and providing training in it. |
| | | | CO4 | To help learners to identify their speech problems and overcome them. |
| | | | CO 5 | To sensitize learners to body movements, demeanour and gestures involved in TV presentation. |
| | | | CO 6 | To make learners good communicator. |
| Sem.- III | Mathematics: Paper A (Advance Calculus-I) | MAT301 A | CO1 | Knowledge about Limit and continuity, Partial differentiation, implicit functions theorem. |
| | | | CO2 | Understanding the Vector differentiation - gradient, divergence, curl and their applications. |
| | | | CO3 | Learn Euler's theorem on homogeneous function, Taylor's theorem, Jacobian. Finding maxima, minima and saddle point of a function, Lagrange's multiplier method. |
| | | | CO4 | To provide the student with the skills of vector calculus operations which are needed for further study in mathematics |
| | | | CO 5 | Students will be able to apply the concept of Envelope and Evolutes on real life applications |
| Sem.- III | Mathematics: Paper B (Differential Equations -I) | MAT301 B | CO1 | Verify Exact differential equation, define the geometrical meaning of differential equation |
| | | | CO2 | Derive Orthogonal Trajectory and envelope of the differential equations |
| | | | CO3 | Solve Linear differential equation with constant and variable coefficients |
| | | | CO4 | Learn to find solution of Cauchy's and Legendre's equations |
| | | | CO 5 | Use method of variation of parameter and reduction of order to solve differential equations |
| | | | CO 6 | Solve simultaneous Differential equations |
| Sem.- III | Mathematics: Paper C (Statics) | MAT301 C | CO1 | Knowledge about Motion of a particle, Newton's Laws of Motion, motion of a body along the smooth inclined plane. |
| | | | CO2 | Understanding Simple harmonic motion, elastic string, curvilinear motion of a particle. |
| | | | CO3 | Learn about Work, power and conservative field. Relative motion, linear momentum ,angular momentum, impulsive forces. |
| | | | CO4 | Determine the dynamic response of the system to applied loadings, using Newton's law. |
| | | | CO 5 | Apply the Principle of Work and Energy and the principle of impulse and momentum to mechanical systems. |
| Sem.- III | Computer Science-A (Computer Organisation- | CS301A | CO1 | Describe the fundamental organization and Architecture of computer system. |
| | | | CO2 | Learn about representation of Information through number systems like Binary, Decimal, Hexadecimal, Octal. Conversions. |
| | | | CO3 | Knowledge about Basic Building Blocks, Microinstructions |

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| | CS05) | | | Microprocessor Assembly Language and System Maintenance. |
| | | | CO4 | Express their knowledge in various error correction and detection techniques |
| | | | CO 5 | Distinguish the organization of various parts of a system memory hierarchy. |
| | | | CO 6 | To identify the elements of modern instruction sets and their impact on processor design. |
| Sem.- III | Computer Science-B (Object Oriented Programming using- C++) | CS301B | CO1 | To Understand how C++ improves C with Object Oriented features. |
| | | | CO2 | To Describe the procedural and object oriented paradigm with concepts of data, objects, classes, functions and streams. |
| | | | CO3 | To Classify inheritance with the understanding of early and late binding ,usage of exception handling , generic programming . |
| | | | CO4 | To be able to program using C++ features such as composition of objects, operator overloading, inheritance ,polymorphism etc. |
| | | | CO 5 | To apply the concepts in object oriented programming in terms of software reuse and managing complexity to solve real world problems. |
| | | | CO 6 | To create different data structures and create /manipulate basic data files and developing applications for real world problems. |
| Sem.- III | Music | MUV301 | CO1 | To identify the contributions of important musicians, composers of various time period. |
| | | | CO2 | To understand core musicological concepts described in treatises of various time periods. |
| | | | CO3 | To understand and practice KanthSadhna. |
| | | | CO4 | To understand various musical terms. |
| | | | CO 5 | To acquire knowledge about description and notation of Ragas and Taal(Jhaptala, Char Tala, etc.) |
| | | | CO 6 | To acquire the ability to play Kehrva on Tabla |
| Sem.- IV | English Compulsory | ENG401 | CO1 | To critically appreciate literary texts. |
| | | | CO2 | To acquire extensive knowledge of English as a language in its various textual forms and to become thoughtful, imaginative and effective communicators in a diverse and changing society. |
| | | | CO3 | To learn the uses of various aspects of Grammar (using noun as verb and vice versa, etc.) |
| | | | CO4 | To write reports on any given situation. |
| | | | CO5 | To work effectively and respectfully with diverse teams, facilitate them in such a way that English learning becomes a pleasurable endeavour and they learn at self-pace. |
| | | | CO6 | To write effective paragraphs. |
| Sem.- IV | Punjabi Compulsory | PBC401 | CO1 | Familiar with Punjabi drama and prose and make its critical analysis. |
| | | | CO2 | Make students capable to translate English to Punjabi. |

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| | | | CO3 | To provide knowledge of the Punjabi language and various dialects like Majhi, Malvai, Doabi and puadi. |
| | | | CO4 | To give knowledge of grammar and dictionary words. |
| | | | CO5 | To make student capable to identify the grammatical concepts and words of grammar. |
| Sem.- IV | History & Culture of Punjab | HCP401 | CO1 | To introduce the students to the history of the medieval in the later medieval period. |
| | | | CO2 | Describe achievements of Banda Singh Bahadur and Sikh struggle for sovereignty from 1760 to 1765 |
| | | | CO3 | Evaluate Sikh polity in 18 th century |
| | | | CO4 | Describe expansion of Maharaja Ranjit Singh's empire and salient features of his civil and military administration and Anglo-Sikh Relations. |
| | | | CO5 | Analyze political development from 1839-1845 |
| | | | CO6 | Evaluate developments in literature, art and architecture and social life with special reference to position of women in the Punjab region. |
| Sem.- IV | Elective English | ENO401 | CO1 | Understand the richness of literature and critically appreciate literary texts |
| | | | CO2 | Acquire extensive knowledge of English as a language in its various textual forms and transform to be creative, thoughtful, imaginative and effective communicators in a diverse and changing society. |
| | | | CO3 | Understand the principles of grammar and one word substitution and various forms of figure of speech and classify a detailed study of literary devices. |
| | | | CO4 | Integrate effectively and respectfully with diverse teams, facilitate them in such a way that English learning becomes a pleasurable endeavour and they learn at self-pace. |
| | | | CO5 | Relate various literary aspects through the text which capacitates them to enrich their literary, research and cultural values and also make them aware of self and society. |
| | | | CO6 | Compile and analyse the different ways in which the grammar has been described like précis writing and comprehension. |
| Sem.- IV | Elective Hindi | HIN401 | CO1 | Knowledge of Hindi language helps them to think critically while studying Hindi literature. They are able to relate pleasure of literature and real life. |
| | | | CO2 | Understanding the importance of Environment culture and social life. Understanding the relation between society and literature by |

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| | | | | Hindi literature in past and present. |
| | | | CO3 | Study the socio-culture and political background of Adi-kaal to Riti-kaal. |
| | | | CO4 | Use the literature to develop their social and moral sense in life. |
| | | | CO5 | Evaluating the concept of Hindi from past to present and making the society more closely through literature. |
| | | | CO6 | Develop knowledge of Hindi linguistic and grammar. |
| Sem.- IV | Elective Punjabi | PBI401 | CO1 | Introduction and importance of Madhkali Punjabi Kavita |
| | | | CO2 | Main Objective of Madhkali Punjabi Poetry to increase the knowledge |
| | | | CO3 | Introduction and importance of punjabi short story |
| | | | CO4 | Introduction to punjabi Sahit da Ithas and to provide knowledge to Sufi Kav and Kissa Kav |
| | | | CO5 | To Provide knowledge of Sahit Alochna |
| | | | CO6 | Introduction and importance of Upbasha Vigayan |
| Sem.- IV | History | HIS401 | CO1 | Understand teachings Sikh Gurus and development of Sikh religion. |
| | | | CO2 | Analyze Mughal Sikh relationship and establishment of Sikh raj by Banda Singh Bahadur |
| | | | CO3 | Describe various features of Maharaja Ranjit Singh's administration and evaluate Anglo-Sikh relations. |
| | | | CO4 | Understand new administrative structure and policies adopted by Britishers in Punjab. |
| | | | CO5 | Describe Social-Religious movements in Punjab .Also evaluate various events of Freedom Movement and partition of Punjab. |
| | | | CO6 | Describe various developments from 1947 to 1966 in Punjab. |
| Sem.- IV | Economics | ECO401 | CO1 | Explain the various mathematical and statistical tools in decision making. |
| | | | CO2 | Outline the applications of matrices and derivatives. |
| | | | CO3 | Analyze the univariate data. |
| | | | CO4 | Define interpolation and its methods. |
| | | | CO5 | Describe correlation, its types and measurement. |
| | | | CO6 | Illustrate the fitting of trend line and construction of price and quantity indices |
| Sem.- IV | Political Science | POL401 | CO1 | This paper enrich the understanding of students of the working of the Indian political parties, the party system with reference to various state & national political parties, election and voting behaviour. |
| | | | CO2 | This paper also examines certain key issue and debates in |

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| | | | | contemporary India. |
| | | | CO3 | To identify how electoral rules and procedure in India effect election outcome. |
| | | | CO4 | Explore the various emerging trends in Indian politics |
| | | | CO5 | Describe the role of caste, religion, and regionalism in Indian political system |
| | | | CO6 | Explore the basic features of Indian foreign policy and describe the non-alignment moment and its relevance in contemporary scenario |
| Sem.- IV | Environment Conservation | ENC401 | CO1 | Learn about the sources and catergories of solid waste , plastic nuisance , incineration and refuse derived fuels and fly ash utilization. |
| | | | CO2 | Understand about the MSW Handlin rules 2000, learn about composting and optimum conditions for composting. |
| | | | CO3 | Understand about Disaster management : Pre- disaster phase, actual disaster phase, and post-disaster phase. |
| | | | CO4 | To acquire knowledge about management of various natural disasters like floods, earthquakes, tsunami, landslides, drought , and tropical cyclones. |
| | | | CO5 | Learn about the construction and working of biogas plants, its advantages and disadvantages. To get knowledge about verm-culture and vermicomposting and Waste water treatment. |
| | | | CO6 | To get knowledge about organic farming, methods, soil management, weed management and control of pests, advantages of organic farming. Learn about different ways of reclamation of waste land. |
| Sem.- IV | Physical Education | PED401 | CO1 | Develops in the students awareness of physical, mental and emotional health and its importance. |
| | | | CO2 | Enhances the interest of the students in sports. |
| | | | CO3 | Enables the students become better enlightened and fit citizens of the country. |
| | | | CO4 | Get to know of the various intricacies and insight knowledge of various sports. |
| | | | CO5 | Enhances the qualities of leadership and promotes the concept of national integration. |
| | | | CO6 | Makes individuals and society more fit and a better place to live in. |
| Sem.- IV | Home Science | HMS401 | CO1 | Understand Elements and Principles of Design. |
| | | | CO2 | Develop the knowledge about Care and Storage of garments. |
| | | | CO3 | Study of fabric construction |
| | | | CO4 | Understand different types of Yarns. |
| | | | CO5 | Understand Bleaches and stain removing. |
| | | | practical | Students learn Tie and dye ,block printing and construction of garments |

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| Sem.- IV | Functional English | FNC401 | CO1 | To acquaint learners with the lay-out, equipment and functioning of a T.V. station. |
| | | | CO2 | To train learners in scriptwriting for different genres of T.V. Broadcast. |
| | | | CO3 | To sensitize learners to body movements, demeanor and gestures involved in T.V. presentation. |
| | | | CO4 | To provide further practice in previously covered features of broadcast presentation. |
| | | | CO 5 | To familiarize learners with different genres of T.V. production with specific training imparted in script writing |
| | | | CO 6 | To continue with all other features of Broadcast presentation. |
| Sem.- IV | Mathematics: Paper A (Advance Calculus-II) | MAT401 A | CO1 | Knowledge about Sequence- bound of a sequence, convergent, divergent and oscillatory sequence. |
| | | | CO2 | Learn about Series of non negative term- P- test , comparison test, Cauchy's integral test ,Cauchy's root test, ratio test, Raabe's test, logarithmic test ,Gauss Test. Alternating series |
| | | | CO3 | Knowledge about Leibnitz's test, Reimann's rearrangement theorem |
| | | | CO4 | Define, differentiate, and integrate functions represented as power series expansions, including Taylor series, and solve related problems. |
| | | | CO 5 | Distinguish between the concepts of sequence and series, and determine limits of sequences and convergence and approximate sums of series. |
| Sem.- IV | Mathematics: Paper B (Differential Equations-II) | MAT401 B | CO1 | Define Laplace transform ,Inverse Laplace transform and apply these to problems. |
| | | | CO2 | Learn to find Series solution of differential equations power series method |
| | | | CO3 | Derive the solutions of Bessel equations ,their recurrence relations and orthogonal properties |
| | | | CO4 | Derive the solutions of Legendre's equations ,their recurrence relations and orthogonal properties |
| | | | CO 5 | Form and solve Partial differential equations |
| Sem.- IV | Mathematics: Paper C (Dynamics) | MAT401 C | CO1 | Knowledge about Motion of a particle, Newton's Laws of Motion, motion of a body along the smooth inclined plane. |
| | | | CO2 | Understanding Simple harmonic motion, elastic string, curvilinear motion of a particle. |
| | | | CO3 | Learn about Work, power and conservative field. Relative motion, linear momentum ,angular momentum, impulsive forces. |
| | | | CO4 | Determine the dynamic response of the system to applied loadings,using Newton's law. |
| | | | CO 5 | Apply the Principle of Work and Energy and the principle of impulse and momentum to mechanical systems. |
| Sem.- | Computer | CS401A | CO1 | To Define basic function of DBMS. |

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| IV | Science-A (Database Concepts) | | CO2 | To Understand database models & entity relationship models |
| | | | CO3 | To Design and implement a database schema for a given problem domain |
| | | | CO4 | To Apply the concept of normalization to reduce the tables and mapping of E-R diagrams to tables |
| | | | CO 5 | To create algebraic queries by using the topic of relational algebra and calculus |
| | | | CO 6 | To Identify the concurrency problems and learn the techniques to handle it |
| Sem.-IV | Computer Science-B (Data Structures) | CS401B | CO1 | To gain knowledge of different concepts of Data Structure. |
| | | | CO2 | To study the basics concepts of arrays and Stacks. |
| | | | CO3 | To understand how to represent linked list in memory. |
| | | | CO4 | To study the representation of Trees and Graphs. |
| | | | CO 5 | To study the basics of Searching. |
| | | | CO 6 | To understand the basics of Sorting. |
| Sem.-IV | Music | MUV401 | CO1 | To identify the contributions of important musicians, composers of various time period. |
| | | | CO2 | To understand core musicological concepts described in treatises of various time periods. |
| | | | CO3 | To understand verities of Gamak. |
| | | | CO4 | To understand various musical terms. |
| | | | CO 5 | To acquire knowledge about description and notation of Ragas and Taal(Roopak, Tilwada etc.) |
| | | | CO 6 | To acquire the ability to playEkTaal on Tabla, and also ability to play Harmonium with few Alankars. |
| Sem.-V | English Compulsory | ENG501 | CO1 | Critically analysis literary texts and appreciate prose and its structure in shaping it's meaning. |
| | | | CO2 | Acquire extensive knowledge of English as a language in its various textual forms and become creative, thoughtful, imaginative and effective communicators in a diverse and changing society. |
| | | | CO3 | Analyse structure, forms, rhyming schemes etc. and able to speak and write grammatically correct sentences. |
| | | | CO4 | Work effectively and respectfully with diverse teams, facilitate them in such a way that English learning becomes a pleasurable endeavour and they learn at self-pace and also obtain a value orientation by means of poetry. |
| | | | CO5 | Apply comprehend human actions and their consequences in life through various literary aspects of the text which capacitates them to enrich their literary, research and cultural values and also make them aware of self and society |
| | | | CO6 | Think and communicate effectively in the current information intensive society and enable them to learn ICT tools. |
| Sem.-V | Punjabi | PBC501 | CO1 | To analysis the medieval poetry and provide knowledge to various aspects of it. |

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| | Compulsory | | CO2 | To make student capable to write a essay on current affairs. |
| | | | CO3 | Provide knowledge of the origin of script and their development. |
| | | | CO4 | Define phrase management and discuss its types. |
| | | | CO5 | Provide practical knowledge of linguistics. |
| Sem.-V | History & Culture of Punjab | HCP501 | CO1 | Evaluate the British administration after the annexation of Punjab from 1849-1858.Also describe agriculture, trade, and industry in Punjab during British Period. |
| | | | CO2 | Describe the spread of Modern Education in Punjab. |
| | | | CO3 | Describe the various Socio- Religious movements and causes responsible for Uprising of 1907. |
| | | | CO4 | Describe the origin and activities of Gadar Movement. |
| | | | CO5 | Analyze the circumstances leading to Gurdwara Reform Movement. |
| | | | CO6 | Analyze response of Punjabis to national movement and circumstances leading to partition of India. |
| Sem.-V | Elective English | ENO501 | CO1 | Develop intellectual, personal and professional abilities through the effective study of literature. |
| | | | CO2 | Add extensive knowledge of English as a language in its various textual forms and to become creative, thoughtful, imaginative and effective communicators through poetry and fiction in a diverse and changing society. |
| | | | CO3 | Familiarize students with Modern Literature in Translation through different representative samples of poetry and able to recognize the rhythm, meter and other musical aspects of poetry. |
| | | | CO4 | Work effectively and respectfully with diverse teams, facilitate them in such a way that English learning becomes a pleasurable endeavour and they learn at self-pace. |
| | | | CO5 | Determine with various literary aspects through the text which capacitates them to enrich their literary, research and cultural values and also make them aware of self and society. |
| | | | CO6 | Lead to a greater understanding of the human communicative action through an objective study of applied grammar and are able to recognize the literary terms related to Indian Literature. |
| Sem.-V | Elective Hindi | HIN501 | CO1 | Knowledge of Hindi language helps them to think critically while studying hindi literature. They are able to relate pleasure of literature and real life. |
| | | | CO2 | Understanding the relation between society and literature by hindi literature in past and present. |
| | | | CO3 | Inculcate moral and human values within themselves. |
| | | | CO4 | Develop reading, writing and communication skills. |
| | | | CO5 | The verbal and non-verbal skills of communication are developed. |
| | | | CO6 | Get information about Alankar, Chhand in hindi literature. |
| Sem.-V | Elective | PBI501 | CO1 | Understanding and investigation of different types of medieval |

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| | Punjabi | | | Punjabi poetry. |
| | | | CO2 | To give abstract analysis and data about Punjabi drama. |
| | | | CO3 | Information on the literary History of Punjabi KissaKav. |
| | | | CO4 | Information on the literary History of vaarkav. |
| | | | CO5 | Information on Indian poetics particularly about “riti and auchitya”. |
| | | | CO6 | Provide information on medieval and ancient poetry and literary forms of prose. |
| Sem.-V | History | HIS501 | CO1 | Understand the word Feudalism,its origin and decline in Europe. |
| | | | CO2 | Analyze the causes and effects of Renaissance and Reformation in Europe. |
| | | | CO3 | Describe the growth of Parliamentary Institution in England and Formation of USA. |
| | | | CO4 | Evaluate the emergence of industrial revolution and rise of capitalism and mercantilism. |
| | | | CO5 | Analyze the causes and results of French revolution and reforms of Napoleon. |
| | | | CO6 | Describe the unification of Germany and Italy. |
| Sem.-V | Economics | ECO501 | CO1 | Categorize the essential tools and concepts of development economics. |
| | | | CO2 | Explain what makes underdevelopment persist and what helps development succeed. |
| | | | CO3 | Discuss the diverse dimension and measures of development, as well as the application of microeconomic analysis to issues of development in poor countries. |
| | | | CO4 | Define the household decisions and the analysis of institutions and norms influencing development. |
| | | | CO5 | Demonstrate the understanding between growth & development. |
| | | | CO6 | Analyze empirical evidence on the patterns of Economic development. |
| Sem.-V | Political Science | POL501 | CO1 | Students go through the comparative study of different countries and government. |
| | | | CO2 | Examine the constitutional system of U.K and USA. Also make a difference of the political and executive institution of both countries |
| | | | CO3 | Students also learn about the current political system, judiciary system, political parties, and pressure groups of both countries. |
| | | | CO4 | To identify various issues and challenges towards international relations |
| | | | CO5 | To understand the comparative method of international government and politics. |
| | | | CO6 | Students gain the knowledge about the judiciary system of UK and USA. |

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| Sem.-V | Environment Conservation | ENC501 | CO1 | Understand about the various levels of biodiversity , various threat to biodiversity, learn about various hot spots of biodiversity . |
| | | | CO2 | Various acts to protect biodiversity Environment protection act 1986, Forest conservation act, 1980, Water prevention and control of pollution act, 1974. |
| | | | CO3 | Learn about in-situ and ex- situ conservation strategies and various causes of extinction of biodiversity. |
| | | | CO4 | To acquire knowledge about various acts to conserve biodiversity (Wildlife protection act), 1972, Joint forest management . |
| | | | CO5 | Learn about role of religion in environment protection, different possible measures to make aware localities about environmental hazards and its remedies. |
| | | | CO6 | Learn about the cultivation methods of <i>Aloe vera</i> , <i>Calotropis</i> , <i>Acacia nilotica</i> , <i>Mentha</i> , <i>Ricinus</i> etc. |
| Sem.-V | Physical Education | PED501 | CO1 | Develops in the students awareness of physical, mental and emotional health and its importance. |
| | | | CO2 | Enhances the interest of the students in sports. |
| | | | CO3 | Enables the students become better enlightened and fit citizens of the country. |
| | | | CO4 | Get to know of the various intricacies and insight knowledge of various sports. |
| | | | CO5 | Enhances the qualities of leadership and promotes the concept of national integration. |
| | | | CO6 | Makes individuals and society more fit and a better place to live in. |
| Sem.-V | Home Science | HMS501 | CO1 | To Outline the importance and principles of Food Preservation |
| | | | CO2 | To Enhance Knowledge about concept and Principles of Meal planning |
| | | | CO3 | To Discuss Therapeutic Diets |
| | | | CO4 | To Explain Common childhood emotions, common behavioral problems and solve their remedies |
| | | | CO5 | To Demonstrate Language Development Types of Play. |
| | | | Practical | To Do Planning and preparation of diet |
| | | | | To Practice Preservation of pickles, jam , squash |
| Sem.-V | Functional English | FNC501 | CO1 | To generate awareness among learners of issues deserving reporting in print and to stimulate them to rebond environment in print. |
| | | | CO2 | To familiarize learners with different aspects of print journalism, its formats, its avenues. |
| | | | CO3 | To enable learners to write news stories from the stage of news gathering to editing to their final presentation. |
| | | | CO4 | To familiarize learner with the lay-out, equipment and |

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| | | | | functioning of a newspaper/magazine production centre |
| | | | CO5 | To enable learner to acquire the art and skills of feature writing to encourage freelancing among them. |
| | | | CO6 | To generate awareness among learner of the aspects of graphic arts in Print Journalism. |
| Sem.-V | Mathematics: Paper A (Analysis-I) | MAT501 A | CO1 | Determine Convergence of improper integrals with discontinuities in their domain or infinite limits of integration. |
| | | | CO2 | Knowledge about Countable and uncountable sets. |
| | | | CO3 | Solving integral as a function of parameter. |
| | | | CO4 | Acquire the information about the Beta, Gamma function and evaluate it in various problems. |
| | | | CO 5 | Learn the theory of Riemann integral, mean value theorems and use theory in solving definite integrals arising in different fields of science and engineering. |
| | | | CO 6 | Apply the fundamental theorem of calculus to evaluate definite integrals. |
| Sem.-V | Mathematics: Paper B (Modern Algebra) | MAT501 B | CO1 | Understanding of Groups, Subgroups, Lagrange's Theorem. |
| | | | CO2 | Learn about Normal subgroups and Quotient Groups, Homomorphisms, Isomorphism Theorems. |
| | | | CO3 | Knowledge of Conjugate elements, Class equation, Permutation Groups, Alternating groups and its simplicity. |
| | | | CO4 | Exposure on Rings, Integral domains, Subrings and Ideals, Quotient Rings, Prime and Maximal Ideals. |
| | | | CO 5 | Brief discussion on Homomorphisms, Isomorphism Theorems, Polynomial rings. |
| Sem.-V | Mathematics: Paper C (Probability Theory) | MAT501 C | CO1 | Describe the concept Probability, conditional probability, Bayes Theorem |
| | | | CO2 | Demonstrate the concept of random variables, density function, cumulative distribution function, moments and moment generating function. |
| | | | CO3 | Develop the knowledge about distributions based on discrete random variables and apply them in real world problems. |
| | | | CO4 | Develop the knowledge about distributions based on continuous random variables and apply them in real world problems. |
| | | | CO 5 | Explain concepts used in Bivariate Random Variable |
| Sem.-V | Computer Science-A (Project Management) | CS501A | CO1 | Learn about how a project needs to be established, organized, coordinated, controlled and evaluated. |
| | | | CO2 | Know the fundamentals of report writing |
| | | | CO3 | Students are trained to meet the requirements of the Industry. |
| | | | CO4 | Exposure to a variety of research projects and activities in order to enrich their academic experience |
| | | | CO 5 | Develop skills in presentation and discussion of research topics in a public forum. |
| | | | CO 6 | Be aware of the ethical, social, and security issues of information systems. |

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| Sem.-V | Computer Science-B (Relational Database Management System) | CS501B | CO1 | To Define basic function of DBMS |
| | | | CO2 | To Understand database models & entity relationship models |
| | | | CO3 | To Design and implement a database schema for a given problem domain |
| | | | CO4 | To Apply the concept of normalization to reduce the tables and mapping of E-R diagrams to tables |
| | | | CO 5 | To create algebraic queries by using the topic of relational algebra and calculus |
| | | | CO 6 | To Identify the concurrency problems and learn the techniques to handle it |
| Sem.-V | Music | MUV501 | CO1 | To identify the contributions of important musicians, composers of various time period. |
| | | | CO2 | To understand core musicological concepts described in treatises of various time periods. |
| | | | CO3 | To understand about time theory of ragas of Indian classical music and Ragangpadhati. |
| | | | CO4 | To understand various musical terms. |
| | | | CO 5 | To acquire knowledge about description and notation of Ragas and Taal(JhumaraTaal, SulTala, etc.) |
| | | | CO 6 | To acquire the ability to play Teevra and sing one Dharupad. |
| Sem.-VI | English Compulsory | ENG601 | CO1 | Empower the students to read and analyse prose and critically appreciate literary texts. |
| | | | CO2 | Gain extensive knowledge of English as a language in its various textual forms like prose and poetry from a variety of cultures, languages and historic periods and become creative, thoughtful, imaginative and effective communicators in a diverse and changing society. |
| | | | CO3 | Enhance students' ability to use grammatical conventions and polish their writing skills. |
| | | | CO4 | Work effectively and respectfully with diverse teams, facilitate them in such a way that English learning becomes a pleasurable endeavour and they learn at self-pace. |
| | | | CO5 | Know of various literary aspects through the text which capacitates them to enrich their literary, research and cultural values and also make them aware of self and society. |
| | | | CO6 | Know the beauty of the coherence of Language and literature. |
| Sem.-VI | Punjabi Compulsory | PBC601 | CO1 | Study and analysis of Novel. |
| | | | CO2 | To motivate students to write an essay on various topics like cultural, academic, sports and literary. |
| | | | CO3 | Provide knowledge of various aspects of Gurmukhi Lipi. |
| | | | CO4 | Provide knowledge on the basis of word formation and types about the semantic. |
| | | | CO5 | Define sentences. |
| | | | CO6 | Provide practical knowledge of various types of sentences. |
| Sem.- | History & | HCP601 | CO1 | Understand various diplomatic developments in Europe. |

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| VI | Culture of Punjab | | CO2 | Evaluate the causes of First World War and Second World War. Also analyze the peace settlement after the wars. |
| | | | CO3 | Analyze modernization of Japan. |
| | | | CO4 | Describe how Russia's traditional monarchy was replaced with world's first communist state and explain rise of communism in China. |
| | | | CO5 | Explain causes of economic depression and Roosevelt's New deal policy. |
| | | | CO6 | Describe decline of U.S.S.R. and rise of Unipolar world. |
| Sem.- VI | Elective English | ENO601 | CO1 | Enhance students' awareness in the aesthetics of literature while critically appreciating literary texts. |
| | | | CO2 | Acquire extensive knowledge of English as a language in its various textual forms and to become creative, thoughtful, imaginative and effective communicators in a diverse and changing society. |
| | | | CO3 | Develops the deeper knowledge of English literature and explore the ability to appreciate ideas and think critically |
| | | | CO4 | Read and write analytically in a variety of formats, including essays, report writing and translation. |
| | | | CO5 | Differentiate critical and theoretical approaches to the reading and analysis of literary texts in multiple genres as well as acquainted with various literary aspects through the text which capacitates them to enrich their literary, research and cultural values and also make them aware of self and society |
| | | | CO6 | Form an idea about the various stages in the development of English language. |
| Sem.- VI | Elective Hindi | HIN601 | CO1 | Knowledge of Hindi language helps them to think critically while studying hindi literature. They are able to relate pleasure of literature and real life. |
| | | | CO2 | Understanding the relation between society and literature by hindi literature in past and present. |
| | | | CO3 | Understanding the relation between society and literature by hindi literature in past and present. |
| | | | CO4 | Develop reading, writing and communication skills . |
| | | | CO5 | The verbal and non-verbal skills of communication are developed . |
| | | | CO6 | Get information about Alankar, Chhand in hindi literature. |
| Sem.- VI | Elective Punjabi | PBI601 | CO1 | Study of Punjabi poetry of medieval and colonial period. |
| | | | CO2 | Study of Essay in modern Punjabi prose. |
| | | | CO3 | Literary History of Punjabi Sufi poetry. |
| | | | CO4 | Fundamental Knowledge of western poetic theory. |
| | | | CO5 | Aristotle's theory of imitation , the method of imitation , the method of psychoanalysis and the study of Marxism. |
| | | | CO6 | To provide knowledge on definition of Linguistic and its relationship with other Systems as Science, psychology, social science and anthropology. |

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| Sem.- VI | History | HIS601 | CO1 | Analyze impact of migration, rehabilitation and resettlement after 1947. |
| | | | CO2 | Evaluate demand for Punjabi Suba and Reorganization Act of 1966. |
| | | | CO3 | Describe Political, economic and educational development in post 1966 period. |
| | | | CO4 | Describe Bluestar operation and its impact on Punjab society. |
| | | | CO5 | Evaluate Socio-Economic development in 1980's and social and political issues of Punjab region. |
| | | | CO6 | Describe development of Punjabi literature by BhaiVir Singh, Shiv Kumar Batalvi, AmritaPritam. |
| Sem.- VI | Economics | ECO601 | CO1 | Explain the features and characteristics of the Indian Economy. |
| | | | CO2 | Describe the performance and problems of Industrial development. |
| | | | CO3 | Explain the Indian tax structure, external trade and balance of payments. |
| | | | CO4 | Describe the objectives, strategy and performance of Indian planning. |
| Sem.- VI | Political Science | POL601 | CO1 | This paper provides knowledge for the international relations, theories, and the values implicit in each of these in different ways and an overview of the broad theories and concept use to understand international politics. |
| | | | CO2 | Analysis of the Second World War, cold war, various international organizations. Explore various principles of world politics like balance of power, collective security. |
| | | | CO3 | To appreciate the post war developments through the emergence of third world. |
| | | | CO4 | To understand the emerging area in international relations. |
| | | | CO5 | To identify various issues and challenges towards international relations. |
| | | | CO6 | To analyses the international security Arms Race. Arms control and Disarmament. |
| Sem.- VI | Environment Conservation | ENC601 | CO1 | To acquire knowledge about current environmental issues like climate , change global warming , population explosion , rain water harvesting and methods to resolve these issues. |
| | | | CO2 | Green revolution and its impacts on environment with special reference to Punjab, Tehri dam, Narmada project, Bhopal gas tragedy, River cleaning project of Sant B.S. Seechewal (Punjab). |
| | | | CO3 | Get knowledge about the role of Non- Governmental organizations in environmental protection. |
| | | | CO4 | Chipko movement , For a living ganga by WWF, Transformation DTC fleet to CNG driven transport, Earth hour, Green peace ,Nitrate pollution in Punjab |
| | | | CO5 | Learn about role of various international and national agencies |

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| | | | | :UNEP,UNDP,WWF,MOEF,CPCBin environment conservation and management. Learn about CITES, UNFCC, Montreal protocol, Kyoto protocol, and Copenhagen summit. |
| | | | CO6 | Application of RS and GIS in Environment, study about biostatistics : To find mean, mode , median , standard deviation , correlation and regression. |
| Sem.- VI | Physical Education | PED601 | CO1 | Develops in the students awareness of physical, mental and emotional health and its importance. |
| | | | CO2 | Enhances the interest of the students in sports. |
| | | | CO3 | Enables the students become better enlightened and fit citizens of the country. |
| | | | CO4 | Get to know of the various intricacies and insight knowledge of various sports. |
| | | | CO5 | Enhances the qualities of leadership and promotes the concept of national integration. |
| | | | CO6 | Makes individuals and society more fit and a better place to live in. |
| Sem.- VI | Home Science | HMS601 | CO1 | To Outline the importance and principles of Food Preservation |
| | | | CO2 | To Enhance Knowledge about concept and Principles of Meal planning |
| | | | CO3 | To Discuss Therapeutic Diets |
| | | | CO4 | To Explain Common childhood emotions, common behavioral problems and solve their remedies |
| | | | CO5 | To Demonstrate Language Development Types of Play. |
| | | | CO6 | To Do Planning and preparation of diet |
| Sem.- VI | Functional English | FNC601 | CO1 | To equip learners with language proficiency in Business/work situations particularly in spoken interaction. |
| | | | CO2 | To make learners aware of the special features of format and style of informal communication through various modes. |
| | | | CO3 | To equip learners with techniques of written communication in business situations. |
| | | | CO4 | To expand vocabulary and develop reading comprehension of material related to business. |
| | | | CO 5 | To boost communication skills. |
| | | | CO 6 | To instill skills of public speaking. |
| Sem.- VI | Mathematics: Paper A (Analysis-II) | MAT601 A | CO1 | Learn to using Double and triple integrals to find area and volume. |
| | | | CO2 | Change to polar coordinates, change of variable to cylindrical and spherical coordinates. |
| | | | CO3 | Distinguish between the concepts of sequence and series and determine limits of sequence and convergence and approximate sum of series. |
| | | | CO4 | Define, differentiate and integrate functions represented as power series expansion and fourier series expansion including Taylor series and solve related problems. |

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| | | | CO 5 | Knowledge about vector integration - line, surface and volume integrals |
| Sem.- VI | Mathematics: Paper B (Linear Algebra) | MAT601 B | CO1 | To learn definition and examples of Vector Spaces, Subspaces, Algebra of subspaces, Linear span. |
| | | | CO2 | Knowledge of Linear dependence and independence of vectors, Basis and dimension of a vector space. |
| | | | CO3 | Understanding of linear transformations, Rank and Nullity of a linear transformation, Vector space of linear transformations. |
| | | | CO4 | Solving exercises on linear transformations and matrices, Change of basis, eigenvalues and eigenvectors. |
| | | | CO 5 | Exposure on Cayley-Hamilton theorem, Diagonalizable operators and matrices. Minimal polynomial of a linear operator. |
| Sem.- VI | Mathematics: Paper C (Numerical Analysis) | MAT601 C | CO1 | Explain methods to find solutions to linear and nonlinear equations using numerical methods. |
| | | | CO2 | Knowledge about Interpolation and numerical differentiation. |
| | | | CO3 | Solving algebraic eigenvalue problems. |
| | | | CO4 | Understand the methods to solve Ordinary differential equations. |
| | | | CO 5 | Develop the knowledge about methods for solving integration of functions. |
| Sem.- VI | Computer Science-A (E-Commerce) | CS601A | CO1 | Have knowledge of e-commerce, its components, structure of e-commerce |
| | | | CO2 | Acquire a good knowledge of e-commerce |
| | | | CO3 | Understand the principles and practices of e-commerce |
| | | | CO4 | Discuss the trends in e-commerce |
| | | | CO 5 | Explain the economic consequences of e-commerce |
| | | | CO 6 | Understand the processes of developing and implementing e-commerce |
| Sem.- VI | Computer Science-B (Web Programming) | CS601B | CO1 | An overview of creating static web pages using HTML. |
| | | | CO2 | Implement the concepts of built in functions in programming, control structures in programming. |
| | | | CO3 | Read, write and execute PHP programs. |
| | | | CO4 | Format and validate web pages. |
| | | | CO 5 | Demonstrate the implementation of PHP into current HTML based websites. |
| | | | CO 6 | Develop PHP programs using databases. |
| Sem.- VI | Music | MUV601 | CO1 | To identify the contributions of important musicians, composers of various time period. |
| | | | CO2 | To understand the role of Akashvani/Doordarshan, Electronic medium towards the popularization of Indian Classic Music. |
| | | | CO3 | To understand verities of Tana. |
| | | | CO4 | To understand various musical terms. |
| | | | CO 5 | To acquire knowledge about description and notation of Ragas and Taal (Deep Chandi, Dhanmar and Ada Char Taal) |
| | | | CO 6 | To acquire the ability to play Adachartaal and ability to sing one Dhamar. |

Mapping of Course outcomes (COs) with programme outcomes (POs)

| Programme Outcome | | | | | | | | | | | | | | | | |
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| College code | Course Out-comes | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 | PO 11 | PO 12 | PO 13 | PO 14 | PO 15 |
| Semester I | | | | | | | | | | | | | | | | |
| ENG101 | CO1 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | X | 1 | 3 | 2 | 2 | 2 |
| | CO2 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| | CO3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | X | 2 | 2 | 2 | 2 | 3 |
| | CO4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | 3 | 2 | 3 | 2 |
| | CO5 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 2 |
| | CO6 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 2 |
| PBC101 | CO1 | 3 | 3 | 2 | 2 | 1 | X | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 1 |
| | CO2 | 2 | 2 | 3 | 3 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | CO3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 |
| | CO4 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 |
| | CO5 | 3 | 3 | 2 | 1 | 2 | 1 | X | X | 1 | 2 | 1 | 2 | 1 | 2 | 3 |
| | CO6 | 3 | 3 | 2 | 2 | 1 | 1 | X | X | 2 | 1 | 1 | 2 | 2 | 1 | 3 |
| HCP101 | CO1 | 2 | 1 | 1 | X | 1 | X | X | X | 2 | X | 2 | 2 | X | 1 | 1 |
| | CO2 | 2 | 1 | 3 | X | 1 | X | X | X | 2 | X | 2 | 2 | X | 1 | 1 |
| | CO3 | 2 | 1 | 1 | X | 1 | X | X | X | 2 | X | 2 | 2 | X | 1 | 1 |
| | CO4 | 2 | 1 | 1 | X | 1 | X | X | X | 2 | X | 2 | 2 | X | 1 | 1 |
| | CO5 | 2 | 1 | 1 | X | 2 | X | X | X | 2 | X | 2 | 2 | 3 | 1 | 1 |
| | CO6 | 2 | 1 | 3 | X | 1 | X | X | X | 2 | X | 2 | 2 | X | 1 | 1 |

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| ENO101 | CO1 | 3 | 3 | 3 | 1 | 3 | 1 | 2 | 1 | 3 | 1 | 1 | 2 | 1 | 1 | 1 |
| | CO2 | 3 | 3 | X | X | 1 | X | 1 | X | X | 1 | 2 | 1 | 1 | 1 | 1 |
| | CO3 | 3 | 3 | 2 | 2 | 2 | 1 | X | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | CO4 | 3 | 3 | X | 3 | 1 | X | X | X | X | 1 | 1 | X | 1 | 1 | 1 |
| | CO5 | 3 | 3 | X | 3 | 1 | X | X | X | X | 1 | 1 | X | 1 | 1 | 1 |
| | CO6 | 3 | 3 | X | 3 | X | X | X | X | X | 1 | 1 | X | 1 | 1 | 1 |
| HIN101 | CO1 | 2 | 3 | 2 | 1 | 2 | 1 | X | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 |
| | CO2 | 3 | 2 | 3 | 1 | 2 | 1 | 2 | 1 | 2 | 3 | 2 | 3 | 3 | 2 | 2 |
| | CO3 | 3 | 2 | 2 | 1 | 1 | X | 1 | X | 1 | 2 | 2 | 3 | 3 | 2 | 3 |
| | CO4 | 2 | 3 | 1 | 2 | 1 | X | 1 | X | 1 | 2 | 2 | 1 | 1 | 2 | 2 |
| | CO5 | 1 | 2 | 2 | 1 | 1 | 1 | X | X | 1 | 2 | 2 | 1 | 1 | 2 | 2 |
| | CO6 | 3 | 3 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 |
| PBI101 | CO1 | 2 | 2 | 2 | 1 | 2 | X | X | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 2 |
| | CO2 | 2 | 2 | 1 | 2 | 2 | 1 | X | X | 1 | 2 | 2 | 2 | 1 | 2 | 1 |
| | CO3 | 3 | 3 | 2 | X | 1 | 1 | X | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 |
| | CO4 | 2 | 2 | 1 | 1 | 2 | 2 | X | X | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | CO5 | 2 | 2 | 2 | X | 2 | 1 | 1 | X | 1 | 2 | 2 | 2 | 2 | 1 | 2 |
| HIS101 | CO1 | 3 | 2 | 3 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 2 |
| | CO2 | 3 | 2 | 3 | 2 | 3 | 1 | 1 | 3 | 2 | 1 | 2 | 2 | 3 | 2 | 2 |
| | CO3 | 3 | 2 | 3 | 2 | 3 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 |
| | CO4 | 3 | 2 | 3 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | X | 2 | 2 |
| | CO5 | 3 | 2 | 3 | 2 | 2 | 1 | 1 | 3 | 2 | 1 | 2 | 2 | X | 2 | 2 |
| | CO6 | 3 | 2 | 3 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | X | 2 | 2 |
| ECO101 | CO1 | 3 | X | 3 | 1 | 1 | 2 | X | 3 | 2 | X | X | X | X | X | 3 |

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| | CO2 | 3 | X | 2 | 1 | 1 | 2 | X | 3 | 2 | X | X | X | X | X | 3 |
| | CO3 | 3 | X | 1 | 2 | 1 | 2 | X | 3 | 3 | X | X | X | X | X | 2 |
| | CO4 | 3 | X | 1 | 1 | 2 | 2 | X | 3 | 3 | X | X | X | X | X | 3 |
| | CO5 | 3 | X | 1 | 1 | 1 | 2 | X | 3 | 2 | X | X | X | X | X | 1 |
| | CO6 | 3 | X | 1 | 1 | 1 | 2 | X | 3 | 2 | X | X | X | X | X | 2 |
| POL101 | CO1 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 1 | 1 |
| | CO2 | 3 | 3 | 2 | 2 | 1 | 2 | X | 1 | 1 | 1 | 2 | 3 | 3 | 1 | 1 |
| | CO3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 1 | 2 | 1 | 2 | 3 | 2 | 1 | 1 |
| | CO4 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 |
| | CO5 | 3 | 3 | 3 | 2 | 1 | 2 | 1 | 2 | 1 | X | 2 | 1 | 2 | 1 | 1 |
| | CO6 | 3 | 3 | 2 | 1 | 1 | 1 | 2 | 3 | X | 2 | 1 | 2 | 1 | 1 | X |
| ENC101 | CO1 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 1 | 1 | 3 | 2 |
| | CO2 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 2 |
| | CO3 | 1 | 3 | 3 | 2 | 2 | 3 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 |
| | CO4 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 3 |
| | CO5 | 3 | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | X | 2 | 3 |
| | CO6 | X | 2 | 2 | 2 | 1 | 2 | 1 | 3 | 2 | 2 | 1 | 1 | 2 | 3 | 3 |
| PED101 | CO1 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO2 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO3 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO4 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO5 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO6 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| HMS10 | CO1 | 1 | 1 | 1 | 2 | X | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 |

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| 1 | C02 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 3 | 1 | 2 | 1 | 1 | 2 |
| | C03 | 1 | 2 | 1 | 2 | X | 1 | 2 | 1 | 1 | 3 | 2 | 2 | 2 | 1 | 2 |
| | C04 | 1 | 2 | 1 | 2 | X | 1 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 2 |
| | C05 | 1 | 1 | 1 | 2 | X | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 2 |
| | Practical | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 3 | 2 | 3 | 1 | 1 | 2 |
| FNC101 | C01 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | X | 1 | 3 | 3 | 3 | X | 2 | 2 |
| | C02 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | X | 1 | 2 | 2 | 2 | X | 1 | 2 |
| | C03 | 2 | 3 | 1 | 1 | 1 | 1 | 3 | X | 1 | 2 | 2 | 2 | X | 2 | 2 |
| | C04 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | X | 1 | 2 | 2 | 2 | X | 1 | 2 |
| | C05 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | X | 1 | 2 | 2 | 2 | X | 1 | 2 |
| | C06 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | X | 1 | 2 | 2 | 2 | X | 1 | 2 |
| MAT10 1A | C01 | 1 | 3 | 2 | 2 | 1 | 2 | 3 | 3 | X | 1 | 2 | X | 2 | 2 | 2 |
| | C02 | X | 2 | 1 | 1 | 1 | 3 | 2 | 3 | X | 2 | 2 | 2 | 1 | 2 | 2 |
| | C03 | 1 | 3 | X | X | X | 2 | 3 | 3 | 1 | 1 | 2 | X | 1 | 1 | 2 |
| | C04 | 1 | 3 | 2 | X | 3 | 3 | 3 | 2 | X | 2 | 2 | 1 | 2 | 2 | 3 |
| | C05 | 1 | 3 | 2 | 1 | X | 2 | 1 | 2 | 1 | X | 2 | 1 | 1 | 3 | 1 |
| MAT10 1B | C01 | 3 | 1 | 2 | 3 | 1 | X | 1 | X | 1 | X | 2 | 1 | 2 | 2 | 2 |
| | C02 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | X | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| | C03 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 1 |
| | C04 | 3 | X | 1 | 3 | X | X | 1 | 1 | X | 2 | 2 | 1 | X | 1 | 2 |
| | C05 | 3 | X | 2 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 2 | 2 | 3 |
| MAT10 1C | C01 | 2 | X | 3 | 2 | 2 | 1 | X | X | X | X | 2 | 1 | 2 | X | X |
| | C02 | 2 | X | 3 | 2 | 3 | 1 | X | X | X | X | 2 | 1 | 2 | X | X |

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| | CO3 | 2 | X | 3 | 2 | 3 | 1 | X | X | X | X | 2 | 1 | 2 | X | X |
| | CO4 | 2 | X | 3 | 2 | 2 | 1 | X | X | X | X | 2 | 1 | 2 | X | X |
| | CO5 | 2 | X | 2 | 2 | 2 | 1 | X | X | X | X | 2 | 1 | 2 | X | X |
| CS101A | CO1 | 1 | 1 | 1 | 1 | 1 | X | 1 | X | 1 | 1 | 2 | 3 | 1 | X | 2 |
| | CO2 | 1 | X | 1 | 2 | 1 | 1 | 1 | X | 1 | 1 | 2 | 3 | 2 | X | 2 |
| | CO3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | X | 2 |
| | CO4 | 1 | 1 | 1 | X | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | X | 2 |
| | CO5 | 1 | X | 1 | 1 | 1 | X | 1 | X | 1 | 1 | 2 | 2 | X | X | 2 |
| | CO6 | 1 | X | 1 | 1 | 1 | X | 1 | X | 1 | 1 | 2 | 2 | 2 | X | 2 |
| CS101B | CO1 | 1 | 1 | 1 | 1 | 1 | X | 1 | X | 1 | 1 | 2 | 3 | 1 | X | 2 |
| | CO2 | 1 | X | 1 | 2 | 1 | 1 | 1 | X | 1 | 1 | 2 | 3 | 2 | X | 2 |
| | CO3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | X | 2 |
| | CO4 | 1 | 1 | 1 | X | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | X | 2 |
| | CO5 | 1 | X | 1 | 1 | 1 | X | 1 | X | 1 | 1 | 2 | 2 | X | X | 2 |
| | CO6 | 1 | X | 1 | 1 | 1 | X | 1 | X | 1 | 1 | 2 | 2 | 2 | X | 2 |
| MUV101 | CO1 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO2 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO3 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO4 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO5 | 3 | 1 | X | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO6 | 3 | 1 | 2 | X | 2 | 2 | 2 | 1 | 3 | 1 | 2 | 2 | 1 | 1 | 2 |
| Semester II | | | | | | | | | | | | | | | | |
| ENG201 | CO1 | 3 | 3 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | X | 1 | 3 | 2 | 1 | 2 |
| | CO2 | 3 | 3 | 2 | 2 | 1 | 3 | 3 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |

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| | CO3 | 3 | 3 | 2 | 3 | 1 | 1 | X | 1 | 2 | X | 1 | 2 | 2 | 2 | 2 |
| | CO4 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 1 | 2 | 1 | 1 | 3 | 2 | 3 | 3 |
| | CO5 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| | CO6 | 3 | 3 | 2 | 3 | 1 | 1 | 1 | X | 1 | 2 | X | 2 | 2 | 1 | 1 |
| PBC201 | CO1 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | CO2 | 3 | 2 | 2 | 2 | 2 | 2 | X | X | 1 | 2 | 2 | 2 | 2 | 1 | 2 |
| | CO3 | 2 | 2 | 1 | 1 | 1 | X | 1 | X | 1 | 2 | 2 | 1 | X | X | 2 |
| | CO4 | 2 | 3 | 2 | 1 | 1 | X | 1 | X | 1 | 2 | 2 | 1 | 2 | 2 | 2 |
| | CO5 | 2 | 3 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 2 |
| HCP201 | CO1 | 2 | 1 | 2 | X | 2 | 1 | X | X | 2 | X | 2 | 2 | 2 | 1 | 1 |
| | CO2 | 2 | 1 | 2 | X | 2 | 1 | X | X | 2 | X | 2 | 2 | 2 | 1 | 1 |
| | CO3 | 2 | 1 | 2 | X | 2 | 1 | X | X | 2 | X | 2 | 2 | 2 | 1 | 1 |
| | CO4 | 2 | 1 | 2 | X | 2 | 1 | X | X | 2 | X | 2 | 2 | 2 | 1 | 1 |
| | CO5 | 2 | 1 | 2 | X | 2 | 1 | X | X | 2 | X | 2 | 2 | 2 | 1 | 1 |
| | CO6 | 2 | 1 | 2 | X | 2 | 1 | X | X | 2 | X | 2 | 2 | 2 | 1 | 1 |
| ENO201 | CO1 | 3 | 3 | 3 | 1 | 3 | 1 | 2 | 1 | 3 | 1 | 1 | 2 | 1 | 1 | 1 |
| | CO2 | 3 | 3 | X | X | 1 | X | 1 | X | X | 1 | 2 | 1 | 1 | 1 | 1 |
| | CO3 | 3 | 3 | 2 | 2 | 2 | 1 | X | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| | CO4 | 3 | 3 | X | 3 | 1 | X | X | X | X | 1 | 1 | X | 1 | 1 | 1 |
| | CO5 | 3 | 3 | X | 3 | 1 | X | X | X | X | 1 | 1 | X | 1 | 1 | 1 |
| | CO6 | 3 | 3 | X | 3 | X | X | X | X | X | 1 | 1 | X | 1 | 1 | 1 |
| HIN201 | CO1 | 2 | 3 | 2 | 1 | 2 | 1 | X | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 |
| | CO2 | 3 | 2 | 3 | 1 | 2 | 1 | 2 | 1 | 2 | 3 | 2 | 3 | 3 | 2 | 2 |
| | CO3 | 3 | 2 | 2 | 1 | 1 | X | 1 | X | 1 | 2 | 2 | 3 | 3 | 2 | 3 |

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| | CO4 | 2 | 3 | 1 | 2 | 1 | X | 1 | X | 1 | 2 | 2 | 1 | 1 | 2 | 2 |
| | CO5 | 1 | 2 | 2 | 1 | 1 | 1 | X | X | 1 | 2 | 2 | 1 | 1 | 2 | 2 |
| | CO6 | 3 | 3 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 |
| PBI201 | CO1 | 2 | 2 | 2 | 1 | 2 | X | X | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 2 |
| | CO2 | 2 | 2 | 1 | 2 | 2 | 1 | X | X | 1 | 2 | 2 | 2 | 1 | 2 | 1 |
| | CO3 | 2 | 2 | 2 | X | 2 | 1 | 1 | X | 1 | 2 | 2 | 2 | 2 | 1 | 2 |
| | CO4 | 2 | 1 | 2 | 1 | 2 | 2 | X | X | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | CO5 | 3 | 3 | 2 | X | 1 | 1 | X | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 |
| HIS201 | CO1 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 3 | 1 | 2 | 2 |
| | CO2 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 3 | 1 | 2 | 2 |
| | CO3 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 3 | 1 | 2 | 2 |
| | CO4 | 3 | 3 | 2 | 2 | 3 | 1 | 1 | 2 | 2 | 1 | 2 | 3 | 1 | 2 | 2 |
| | CO5 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | X | 3 | 2 | 2 |
| | CO6 | 3 | X | 2 | 2 | X | 1 | 1 | 2 | 2 | 1 | 2 | X | 1 | X | X |
| ECO201 | CO1 | 3 | X | 1 | 1 | 1 | 2 | X | 3 | 2 | X | X | X | X | X | 1 |
| | CO2 | 3 | X | 1 | 1 | 1 | 2 | X | 3 | 2 | X | X | X | X | X | 1 |
| | CO3 | 3 | X | 1 | 1 | 1 | 2 | X | 3 | 3 | X | X | X | X | X | 2 |
| | CO4 | 3 | X | 1 | 1 | 1 | 2 | X | 3 | 3 | X | X | X | X | X | 3 |
| | CO5 | 3 | X | 1 | 1 | 1 | 2 | X | 3 | 2 | X | X | X | X | X | 1 |
| | CO6 | 3 | X | 1 | 1 | 1 | 2 | X | 3 | 2 | X | X | X | X | X | 2 |
| POL201 | CO1 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | X | 1 | 2 | X | 2 | 2 |
| | CO2 | 1 | X | 1 | 2 | 2 | 2 | 2 | 1 | 1 | X | 2 | 2 | 1 | 1 | 1 |
| | CO3 | 2 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | 2 | X | 2 | 1 | 1 | 1 | 1 |
| | CO4 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 2 | X | 1 | 2 | 2 | 2 | 1 |

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| | CO5 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | 2 | 1 | X | 1 | 1 | 1 | 1 | 2 |
| | CO6 | 2 | 3 | 3 | 2 | 1 | 1 | 2 | 1 | 2 | X | 2 | 1 | X | 2 | 1 |
| ENC201 | CO1 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 1 | 3 | 2 |
| | CO2 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 |
| | CO3 | 2 | 3 | 3 | 2 | 2 | 3 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 3 |
| | CO4 | 2 | 1 | 2 | 1 | 2 | 2 | 3 | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 3 |
| | CO5 | 3 | 1 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 3 |
| | CO6 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 3 | 2 | 2 | 1 | 1 | 2 | 3 | 2 |
| | | | | | | | | | | | | | | | | |
| PED201 | CO1 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO2 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO3 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO4 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO5 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO6 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| HMS201 | CO1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 |
| | CO2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 |
| | CO3 | 1 | 3 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 2 |
| | CO4 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 |
| | CO5 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 |
| | Practical | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 2 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 |
| FNC201 | CO1 | 2 | 3 | 2 | 1 | 2 | 1 | 1 | X | 2 | 2 | 2 | 1 | 1 | 1 | 2 |
| | CO2 | 2 | 3 | 2 | 1 | 2 | 1 | 1 | X | 2 | 2 | 2 | 2 | 1 | 1 | 2 |
| | CO3 | 2 | 3 | 2 | 1 | 2 | 1 | 1 | X | 2 | 2 | 2 | 2 | 1 | 1 | 2 |

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| | CO4 | 2 | 3 | 2 | 1 | 2 | 1 | 1 | X | 2 | 2 | 2 | 2 | 1 | 1 | 2 |
| | CO5 | 2 | 3 | 3 | 1 | 2 | 1 | 1 | X | 2 | 2 | 2 | 2 | 1 | 1 | 2 |
| | CO6 | 2 | 3 | 2 | 1 | 2 | 1 | 1 | X | 2 | 2 | 2 | 2 | 1 | 1 | 2 |
| MAT20 1A | CO1 | 3 | X | 2 | 3 | 2 | X | 1 | 1 | X | X | 2 | 1 | 2 | 2 | 2 |
| | CO2 | 2 | 1 | 2 | 2 | 1 | X | X | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| | CO3 | 1 | X | 3 | 3 | 1 | X | 2 | X | 1 | 2 | 2 | X | 2 | 2 | 2 |
| | CO4 | 3 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 |
| | CO5 | 2 | X | 2 | 3 | 2 | 1 | 1 | 1 | 2 | 1 | 3 | 2 | 2 | 2 | 3 |
| MAT20 1B | CO1 | 3 | X | 1 | 2 | 2 | 1 | X | X | X | X | 1 | 1 | 1 | 1 | X |
| | CO2 | 3 | X | 2 | 1 | 1 | 1 | X | X | X | X | 1 | 1 | 1 | 1 | X |
| | CO3 | 3 | X | 2 | 1 | 1 | 1 | X | X | X | X | 1 | 2 | 1 | 1 | X |
| | CO4 | 3 | X | 1 | 1 | 1 | 1 | X | X | X | X | 1 | 1 | 1 | 1 | X |
| | CO5 | 3 | X | 2 | 2 | 2 | 1 | X | X | X | X | 1 | 2 | 1 | 1 | X |
| | CO6 | 3 | X | 1 | 2 | 1 | 1 | X | X | X | X | 1 | 1 | 1 | 1 | X |
| MAT20 1C | CO1 | 3 | x | 1 | 2 | 2 | 1 | x | x | x | x | 1 | 1 | 1 | 1 | x |
| | CO2 | 3 | x | 2 | 1 | 1 | 1 | x | x | x | x | 1 | 1 | 1 | 1 | x |
| | CO3 | 3 | x | 2 | 1 | 1 | 1 | x | x | x | x | 1 | 2 | 1 | 1 | x |
| | CO4 | 3 | x | 1 | 1 | 1 | 1 | x | x | x | x | 1 | 1 | 1 | 1 | x |
| | CO5 | 3 | x | 2 | 2 | 2 | 1 | x | x | x | x | 1 | 2 | 1 | 1 | x |
| | CO6 | 3 | x | 1 | 2 | 1 | 1 | x | x | x | x | 1 | 1 | 1 | 1 | x |
| CS201A | CO1 | 1 | 1 | 1 | 1 | 1 | X | 1 | X | 1 | 1 | 2 | 3 | 1 | X | 2 |
| | CO2 | 1 | X | 1 | 2 | 1 | 1 | 1 | X | 1 | 1 | 2 | 3 | 2 | X | 2 |
| | CO3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | X | 2 |
| | CO4 | 1 | 1 | 1 | X | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | X | 2 |

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| | CO5 | 1 | X | 1 | 1 | 1 | X | 1 | X | 1 | 1 | 2 | 2 | X | X | 2 |
| | CO6 | 1 | X | 1 | 1 | 1 | X | 1 | X | 1 | 1 | 2 | 2 | 2 | X | 2 |
| CS201B | CO1 | 1 | 1 | 1 | 1 | 1 | X | 1 | X | 1 | 1 | 2 | 3 | 1 | X | 2 |
| | CO2 | 1 | X | 1 | 2 | 1 | 1 | 1 | X | 1 | 1 | 2 | 3 | 2 | X | 2 |
| | CO3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | X | 2 |
| | CO4 | 1 | 1 | 1 | X | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | X | 2 |
| | CO5 | 1 | X | 1 | 1 | 1 | X | 1 | X | 1 | 1 | 2 | 2 | X | X | 2 |
| | CO6 | 1 | X | 1 | 1 | 1 | X | 1 | X | 1 | 1 | 2 | 2 | 2 | X | 2 |
| | | | | | | | | | | | | | | | | |
| MUV201 | CO1 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO2 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO3 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO4 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO5 | 3 | 1 | X | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO6 | 3 | 1 | 2 | X | 2 | 2 | 2 | 1 | 3 | 1 | 2 | 2 | 1 | 1 | 2 |
| Semester III | | | | | | | | | | | | | | | | |
| ENG301 | CO1 | 3 | 3 | 3 | 1 | 2 | 2 | X | X | 2 | X | X | 3 | 2 | X | 2 |
| | CO2 | 3 | 3 | 2 | 2 | 1 | X | X | X | 2 | X | X | 3 | 2 | X | 2 |
| | CO3 | 3 | 3 | X | 3 | X | X | X | X | X | 2 | X | X | X | X | X |
| | CO4 | 3 | 3 | 1 | X | 1 | X | 3 | X | X | X | 1 | 3 | 2 | 3 | 2 |
| | CO5 | 3 | 3 | 3 | X | 2 | 2 | X | X | 2 | X | X | 3 | 2 | X | 2 |
| | CO6 | 3 | 3 | X | 3 | X | 2 | X | X | 2 | 2 | X | X | X | X | X |
| PBC301 | CO1 | 1 | 2 | 1 | 3 | 1 | X | 2 | X | 3 | 2 | 3 | 2 | 3 | 1 | 1 |
| | CO2 | 3 | 1 | 3 | X | 3 | 2 | 3 | 3 | 1 | 1 | 1 | X | 2 | 2 | 2 |
| | CO3 | 2 | 3 | X | 2 | 1 | 1 | X | 1 | 2 | 3 | 2 | 3 | 1 | X | X |

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| | CO4 | 1 | X | 2 | 1 | 2 | 3 | 3 | 2 | X | 1 | X | 2 | 1 | 3 | 3 |
| | CO5 | X | 2 | 3 | 2 | X | 2 | 1 | 3 | 2 | X | 3 | 1 | X | 2 | 2 |
| | CO6 | 2 | 1 | 1 | 3 | 3 | 1 | 2 | 1 | 1 | 2 | 2 | 3 | 2 | 1 | 1 |
| HCP301 | CO1 | 2 | 1 | 3 | X | 2 | X | X | X | 2 | X | 2 | 2 | X | 1 | 1 |
| | CO2 | 2 | 1 | 2 | X | 2 | X | X | X | 2 | X | 2 | 2 | 3 | 1 | 1 |
| | CO3 | 2 | 1 | 3 | X | 2 | X | X | X | 2 | X | 2 | 2 | 3 | 1 | 1 |
| | CO4 | 2 | 1 | 2 | X | 2 | X | X | X | 2 | X | 2 | 2 | 3 | 1 | 1 |
| | CO5 | 2 | 1 | 2 | X | 2 | X | X | X | 2 | X | 2 | 2 | 3 | 1 | 1 |
| | CO6 | 2 | 1 | 2 | X | 2 | X | X | X | 2 | X | 2 | 2 | 3 | 1 | 1 |
| ENO301 | CO1 | 3 | 3 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | X | 1 | 3 | 2 | 1 | 2 |
| | CO2 | 3 | 3 | 2 | 2 | 1 | 3 | 3 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| | CO3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 1 | 2 | X | X | 2 | 2 | 2 | 2 |
| | CO4 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 1 | 2 | 1 | 1 | 3 | 2 | 3 | 3 |
| | CO5 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| | CO6 | 3 | 3 | 2 | 2 | | 1 | 1 | X | 1 | 2 | X | 2 | 2 | 1 | 1 |
| HIN301 | CO1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | X | 1 | 2 | 2 | 2 | 3 | 2 | 3 |
| | CO2 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 2 |
| | CO3 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | X | 1 | 2 | 2 | 3 | 2 | 2 | 3 |
| | CO4 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 3 |
| | CO5 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | X | 1 | 2 | 2 | 2 | 3 | 2 | 3 |
| | CO6 | 3 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | X | 2 | 3 |
| PBI301 | CO1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 |
| | CO2 | 2 | 2 | 1 | 2 | 2 | X | 1 | X | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | CO3 | 2 | 2 | 1 | 1 | 1 | X | 1 | X | 1 | 1 | 2 | X | 1 | 1 | 2 |

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| | CO4 | 2 | 3 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | X | 2 |
| | CO5 | 2 | 3 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | X | 2 |
| HIS301 | CO1 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| | CO2 | 3 | 2 | 3 | 2 | 3 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| | CO3 | 3 | 2 | 3 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 2 |
| | CO4 | 3 | 2 | 3 | 2 | 3 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| | CO5 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| | CO6 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 |
| | | | | | | | | | | | | | | | | |
| ECO301 | CO1 | 3 | X | 3 | 1 | 1 | 1 | X | 1 | 1 | X | X | X | X | X | 3 |
| | CO2 | 3 | X | 2 | 1 | 1 | 1 | X | 1 | 1 | X | X | X | X | X | 3 |
| | CO3 | 3 | X | 1 | 2 | 1 | 1 | X | 1 | 1 | X | X | X | X | X | 2 |
| | CO4 | 3 | X | 1 | 1 | 2 | 1 | X | 1 | 1 | X | X | X | X | X | 3 |
| | CO5 | 3 | X | 1 | 1 | 1 | 1 | X | 1 | 2 | X | X | X | X | X | 1 |
| | CO6 | 3 | X | 1 | 1 | 1 | 1 | X | 1 | 2 | X | X | X | X | X | 2 |
| | | | | | | | | | | | | | | | | |
| POL301 | CO1 | 3 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 1 | X | 2 | 2 | 2 | X | X |
| | CO2 | 3 | 3 | 3 | 1 | 2 | 1 | 2 | 1 | 1 | X | 2 | 2 | 2 | 1 | X |
| | CO3 | 3 | 3 | 3 | 1 | 1 | X | 1 | 1 | 2 | X | 2 | X | 3 | X | 2 |
| | CO4 | 3 | 3 | 3 | 2 | 1 | 2 | 2 | 1 | 2 | X | 1 | X | 1 | 1 | 2 |
| | CO5 | 3 | 3 | 3 | 1 | X | X | 1 | X | 2 | X | 1 | 2 | 3 | 2 | 1 |
| | CO6 | 2 | 3 | 3 | 1 | X | 1 | 1 | 1 | 2 | X | 2 | 1 | 1 | 2 | X |
| | | | | | | | | | | | | | | | | |
| ENC301 | CO1 | 3 | 2 | 2 | 2 | 1 | 3 | 1 | 2 | 1 | 3 | 1 | 2 | 2 | 1 | 3 |
| | CO2 | 1 | 2 | X | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 1 |
| | CO3 | 2 | 2 | 3 | 2 | 2 | X | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 2 |
| | CO4 | 3 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 |

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|----------------|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CO5 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | X | 2 | 3 |
| | CO6 | 2 | 1 | X | 2 | 1 | 2 | 1 | 3 | 3 | 2 | 1 | 2 | 2 | 3 | 2 |
| PED301 | CO1 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO2 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO3 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO4 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO5 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO6 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | | | | | | | | | | | | | | | | |
| HMS301 | CO1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 3 | X | 1 | 1 |
| | CO2 | 1 | X | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 |
| | CO3 | 1 | 1 | 1 | X | 1 | X | X | X | X | 2 | 1 | 1 | X | X | 1 |
| | CO4 | 1 | 1 | 2 | 1 | X | X | 1 | 1 | X | 1 | 2 | X | 1 | 1 | 2 |
| | CO5 | X | 2 | 1 | X | 1 | 1 | 2 | 2 | 1 | 1 | 2 | X | X | X | 1 |
| | practic al | 1 | 1 | 1 | X | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 3 |
| FNC301 | CO1 | 2 | 3 | 1 | 1 | 1 | 1 | 2 | X | 2 | 3 | 3 | 2 | 1 | 2 | 2 |
| | CO2 | 2 | 3 | 1 | 1 | 1 | 1 | 2 | X | 2 | 3 | 2 | 2 | 1 | 2 | 2 |
| | CO3 | 2 | 3 | 1 | 1 | 1 | 1 | 2 | X | 2 | 3 | 2 | 2 | 1 | 2 | 2 |
| | CO4 | 2 | 3 | 1 | 1 | 1 | 1 | 2 | X | 2 | 3 | 2 | 2 | 1 | 1 | 2 |
| | CO5 | 2 | 3 | 2 | 2 | 1 | 1 | 2 | X | 2 | 2 | 2 | 2 | 1 | 1 | 2 |
| | CO6 | 2 | 3 | 2 | 2 | 1 | 1 | 2 | X | 2 | 3 | 2 | 2 | 1 | 1 | 2 |
| MAT301A | CO1 | 3 | 1 | 2 | 3 | 1 | X | X | 1 | X | X | 2 | X | 3 | 1 | 2 |
| | CO2 | 3 | X | 3 | 3 | 2 | 1 | 2 | 3 | 2 | X | 2 | 2 | X | 1 | 3 |
| | CO3 | 2 | 1 | 2 | 2 | 2 | 1 | 3 | X | X | X | 2 | 1 | 1 | 2 | 3 |

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|-------------|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CO4 | 3 | 1 | 3 | 3 | 1 | X | 2 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 |
| | CO5 | 3 | 2 | 2 | 2 | X | X | 1 | X | X | X | 3 | 2 | 1 | 2 | 2 |
| MAT30 1B | CO1 | 3 | X | 2 | 3 | 1 | X | 1 | 1 | X | X | 3 | 1 | 2 | 1 | 2 |
| | CO2 | 3 | 2 | 2 | 3 | 1 | X | 2 | 1 | 2 | 1 | 3 | X | 2 | 2 | 2 |
| | CO3 | 3 | X | 3 | 2 | 2 | 1 | 2 | 1 | 2 | 3 | 3 | X | 2 | 2 | 3 |
| | CO4 | 2 | 1 | 3 | 3 | 2 | 2 | 2 | X | 1 | 1 | 2 | X | 2 | 1 | 2 |
| | CO5 | 3 | 1 | 2 | 2 | X | 1 | 3 | 1 | 2 | X | 1 | 1 | 2 | 1 | 1 |
| MAT30 1C | CO1 | 3 | X | 2 | 3 | 1 | X | 1 | 1 | X | X | 3 | 1 | 2 | 1 | 2 |
| | CO2 | 3 | 2 | 2 | 3 | 1 | X | 2 | 1 | 2 | 1 | 3 | X | 2 | 2 | 2 |
| | CO3 | 3 | X | 3 | 2 | 2 | 1 | 2 | 1 | 2 | 3 | 3 | X | 2 | 2 | 3 |
| | CO4 | 2 | 1 | 3 | 3 | 2 | 2 | 2 | X | 1 | 1 | 2 | X | 2 | 1 | 2 |
| | CO5 | 3 | 1 | 2 | 2 | X | 1 | 3 | 1 | 2 | X | 1 | 1 | 2 | 1 | 1 |
| CS301A | CO1 | X | X | X | X | X | X | X | X | X | 3 | X | X | X | X | X |
| | CO2 | X | X | X | X | X | X | X | X | X | 2 | X | X | X | X | X |
| | CO3 | X | X | X | X | X | X | X | X | X | 2 | X | X | X | X | X |
| | CO4 | X | X | X | X | X | X | X | X | X | 2 | X | X | X | X | X |
| | CO5 | X | X | X | X | X | X | X | X | X | 2 | X | X | X | X | X |
| | CO6 | X | X | X | X | X | X | X | X | X | 1 | X | X | X | X | X |
| CS301B | CO1 | X | X | X | X | X | X | X | X | X | 3 | X | X | X | X | X |
| | CO2 | X | X | X | X | X | X | X | X | X | 2 | X | X | X | X | X |
| | CO3 | X | X | X | X | X | 2 | X | X | X | 2 | X | X | X | X | X |
| | CO4 | X | X | X | X | X | X | X | X | X | 2 | X | X | X | X | X |
| | CO5 | X | X | X | X | X | X | X | X | X | 2 | X | X | X | 1 | X |
| MUV30 | CO1 | X | X | X | X | X | X | X | X | X | 1 | X | X | X | X | X |

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| 1 | CO2 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO3 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO4 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO5 | 3 | 1 | X | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO6 | 3 | 1 | 2 | X | 2 | 2 | 2 | 1 | 3 | 1 | 2 | 2 | 1 | 1 | 2 |
| Semester IV | | | | | | | | | | | | | | | | |
| ENG401 | CO1 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | X | 2 |
| | CO2 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 |
| | CO3 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | X | 2 |
| | CO4 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | X | 2 |
| | CO5 | 3 | 3 | 1 | 2 | 2 | X | 3 | 1 | 2 | 2 | 3 | 2 | 1 | 3 | 2 |
| | CO6 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | X | 2 |
| PBC401 | CO1 | 1 | 1 | 2 | 3 | 2 | 3 | 1 | 2 | 1 | 3 | 2 | 1 | 2 | 3 | 3 |
| | CO2 | 2 | 3 | 1 | X | 1 | X | 2 | 3 | 2 | X | 3 | X | 3 | 1 | 1 |
| | CO3 | 3 | X | 3 | 1 | 3 | 2 | 1 | 1 | 3 | 2 | X | 3 | X | 2 | 2 |
| | CO4 | X | 2 | 1 | 2 | 2 | 1 | 3 | X | 2 | 1 | 2 | 1 | 1 | X | X |
| | CO5 | 2 | 1 | X | 2 | 1 | 3 | X | 2 | 1 | 3 | 1 | 2 | 3 | 1 | 1 |
| | CO6 | 1 | 3 | 2 | 3 | X | 1 | 3 | 1 | X | 1 | 3 | 1 | 2 | 3 | 3 |
| HCP401 | CO1 | 2 | 1 | 1 | X | 1 | X | X | X | 2 | X | 2 | 2 | X | 1 | 1 |
| | CO2 | 2 | 1 | 1 | X | 1 | X | X | X | 2 | X | 2 | 2 | 1 | 1 | 1 |
| | CO3 | 2 | 1 | 2 | X | 1 | X | X | X | 2 | X | 2 | 2 | 1 | 1 | 1 |
| | CO4 | 2 | 1 | 1 | X | 1 | X | X | X | 2 | X | 2 | 2 | 1 | 1 | 1 |
| | CO5 | 2 | 1 | 2 | X | 2 | X | X | X | 2 | X | 2 | 2 | 1 | 1 | 1 |
| | CO6 | 2 | 1 | 1 | X | 1 | X | X | X | 2 | X | 2 | 2 | 1 | 1 | 1 |

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|--------|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ENO401 | CO1 | 3 | 3 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | X | 1 | 3 | 2 | 1 | 2 |
| | CO2 | 3 | 3 | 2 | 2 | 1 | 3 | 3 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| | CO3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | X | 2 | 2 | 2 | 2 |
| | CO4 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 1 | 2 | 1 | 1 | 3 | 2 | 3 | 3 |
| | CO5 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| | CO6 | 3 | 3 | 1 | 2 | 1 | 1 | 2 | X | 2 | X | 1 | 2 | 2 | 2 | 2 |
| HIN401 | CO1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | X | 1 | 2 | 2 | 2 | 3 | 2 | 3 |
| | CO2 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 2 |
| | CO3 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | X | 1 | 2 | 2 | 3 | 2 | 2 | 3 |
| | CO4 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 3 |
| | CO5 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | X | 1 | 2 | 2 | 2 | 3 | 2 | 3 |
| | CO6 | 3 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | X | 2 | 3 |
| PBI401 | CO1 | 3 | 2 | 3 | 2 | 2 | 1 | X | X | 1 | 2 | 2 | 2 | 2 | 2 | 3 |
| | CO2 | 1 | 2 | X | X | 1 | X | X | X | 2 | 2 | 2 | 1 | 1 | 1 | 2 |
| | CO3 | 3 | 3 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 |
| | CO4 | 3 | 3 | 2 | 1 | 1 | 1 | X | 1 | 1 | 3 | 2 | 2 | X | 1 | 2 |
| | CO5 | 2 | 2 | 2 | X | 1 | 1 | X | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 |
| HIS401 | CO1 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 3 | 2 |
| | CO2 | 3 | 3 | 3 | 2 | 3 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 3 | 2 |
| | CO3 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 3 | 2 |
| | CO4 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| | CO5 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| | CO6 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 3 | 2 |
| ECO401 | CO1 | 3 | X | 1 | 1 | 1 | 2 | X | 3 | 2 | X | X | X | X | X | 1 |

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| | CO2 | 3 | X | 1 | 1 | 1 | 2 | X | 3 | 2 | X | X | X | X | X | 1 |
| | CO3 | 3 | X | 1 | 1 | 1 | 2 | X | 3 | 3 | X | X | X | X | X | 2 |
| | CO4 | 3 | X | 1 | 1 | 1 | 2 | X | 3 | 3 | X | X | X | X | X | 3 |
| | CO5 | 3 | X | 1 | 1 | 1 | 2 | X | 3 | 2 | X | X | X | X | X | 1 |
| | CO6 | 3 | X | 1 | 1 | 1 | 2 | X | 3 | 2 | X | X | X | X | X | 2 |
| POL401 | CO1 | 3 | 3 | 3 | 2 | 1 | 1 | X | 2 | 1 | X | 2 | 2 | 2 | X | 1 |
| | CO2 | 3 | 3 | 3 | 2 | 1 | 2 | 1 | 1 | X | X | 1 | 1 | 2 | 1 | X |
| | CO3 | 3 | 3 | 3 | 1 | 1 | 2 | 1 | X | X | X | 1 | 1 | 2 | 2 | 1 |
| | CO4 | 3 | 3 | 3 | 2 | 1 | 1 | X | 1 | 2 | X | 1 | 2 | X | 2 | X |
| | CO5 | 3 | 3 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | X | X | 1 | 2 | 2 | 1 |
| | CO6 | 2 | 3 | 3 | 2 | 1 | 2 | 1 | 1 | 1 | X | 1 | 1 | 2 | 3 | X |
| ENC401 | CO1 | 1 | 2 | 2 | 2 | 1 | 3 | 1 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 3 |
| | CO2 | 1 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 1 |
| | CO3 | 1 | 2 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 3 | 2 | 3 | 2 |
| | CO4 | 3 | 2 | 1 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 1 | 1 | 2 | 1 |
| | CO5 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 1 | 2 | X | 2 | 3 |
| | CO6 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 3 | 3 | 2 | 1 | 2 | 2 | 3 | 2 |
| PED401 | CO1 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO2 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO3 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO4 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO5 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO6 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| HMS40 | CO1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 |

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| 1 | CO2 | 2 | X | 1 | 1 | 1 | 1 | 1 | 2 | X | 1 | 1 | 2 | 1 | 1 | 2 |
| | CO3 | X | 1 | 1 | 2 | 1 | 1 | 2 | X | X | 3 | 2 | 2 | 2 | 2 | 2 |
| | CO4 | 1 | 1 | 1 | 1 | X | 1 | 2 | X | X | 2 | 1 | 1 | 1 | 1 | 2 |
| | CO5 | X | X | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 2 |
| FNC401 | CO1 | 2 | 3 | 2 | 1 | 2 | X | 1 | X | 2 | 2 | 2 | x | 1 | 1 | 2 |
| | CO2 | 2 | 3 | 2 | 1 | 2 | X | 1 | X | 2 | 2 | 2 | 2 | 1 | 1 | 2 |
| | CO3 | 2 | 3 | 2 | 1 | 2 | X | 1 | X | 2 | 2 | 2 | 2 | 1 | 1 | 2 |
| | CO4 | 2 | 3 | 2 | 1 | 2 | X | 1 | X | 2 | 2 | 2 | 2 | 1 | 1 | 2 |
| | CO5 | 2 | 3 | 3 | 1 | 2 | X | 1 | X | 2 | 2 | 2 | 2 | 1 | 1 | 2 |
| | CO6 | 2 | 3 | 2 | 1 | 2 | X | 1 | X | 2 | 2 | 2 | 2 | 1 | 1 | 2 |
| MAT40 1A | CO1 | 3 | 1 | 2 | 3 | 1 | X | X | 1 | X | X | 2 | X | 3 | 1 | 2 |
| | CO2 | 3 | X | 3 | 3 | 2 | 1 | 2 | 3 | 2 | X | 2 | 2 | X | 1 | 3 |
| | CO3 | 2 | 1 | 2 | 2 | 2 | 1 | 3 | X | X | X | 2 | 1 | 1 | 2 | 3 |
| | CO4 | 3 | 1 | 3 | 3 | 1 | X | 2 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 |
| | CO5 | 3 | 2 | 2 | 2 | X | X | 1 | X | X | X | 3 | 2 | 1 | 2 | 2 |
| MAT40 1B | CO1 | 3 | X | 1 | 2 | 1 | X | 2 | X | 2 | X | 3 | 2 | 2 | 1 | 1 |
| | CO2 | 3 | X | 2 | 3 | 2 | X | 2 | 1 | 1 | X | 2 | 2 | 1 | 2 | 1 |
| | CO3 | 3 | X | 1 | 2 | 1 | X | 2 | X | 2 | X | 3 | 2 | 2 | 1 | 1 |
| | CO4 | 2 | X | 1 | 2 | 1 | 1 | 3 | X | 2 | X | 2 | 2 | 2 | X | 2 |
| | CO5 | 3 | 1 | X | 3 | X | 1 | 2 | 1 | 2 | X | 3 | 1 | 2 | 1 | 2 |
| MAT40 1C | CO1 | 3 | 1 | 2 | 3 | 1 | X | X | 1 | X | X | 2 | X | 3 | 1 | 2 |
| | CO2 | 3 | X | 3 | 3 | 2 | 1 | 2 | 3 | 2 | X | 2 | 2 | X | 1 | 3 |
| | CO3 | 2 | 1 | 2 | 2 | 2 | 1 | 3 | X | X | X | 2 | 1 | 1 | 2 | 3 |
| | CO4 | 3 | 1 | 3 | 3 | 1 | X | 2 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 |

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| | CO5 | 3 | 2 | 2 | 2 | X | X | 1 | X | X | X | 3 | 2 | 1 | 2 | 2 |
| CS401A | CO1 | X | X | X | X | X | X | X | X | X | 3 | X | X | X | X | X |
| | CO2 | X | X | X | X | X | X | X | X | X | 2 | X | X | X | X | X |
| | CO3 | X | X | X | X | X | 2 | X | X | X | 2 | X | X | X | X | X |
| | CO4 | X | X | X | X | X | X | X | X | X | 2 | X | X | X | X | X |
| | CO5 | X | X | X | X | X | X | X | X | X | 2 | X | X | X | 1 | X |
| | CO6 | X | X | X | X | X | X | X | X | X | 1 | X | X | X | X | X |
| CS401B | CO1 | X | X | X | X | X | X | X | X | X | 3 | X | X | X | X | X |
| | CO2 | X | X | X | X | X | X | X | X | X | 2 | X | X | X | X | X |
| | CO3 | X | X | X | X | X | 2 | X | X | X | 2 | X | X | X | X | X |
| | CO4 | X | X | X | X | X | X | X | X | X | 2 | X | X | X | X | X |
| | CO5 | X | X | X | X | X | X | X | X | X | 2 | X | X | X | 1 | X |
| | CO6 | X | X | X | X | X | X | X | X | X | 1 | X | X | X | X | X |
| MUV401 | CO1 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO2 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO3 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO4 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO5 | 3 | 1 | X | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO6 | 3 | 1 | 2 | X | 2 | 2 | 2 | 1 | 3 | 1 | 2 | 2 | 1 | 1 | 2 |
| Semester V | | | | | | | | | | | | | | | | |
| ENG501 | CO1 | 3 | 3 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | X | 1 | 3 | 2 | 1 | 2 |
| | CO2 | 3 | 3 | 2 | 2 | 1 | 3 | 3 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| | CO3 | 3 | 3 | 2 | 3 | 1 | 2 | 2 | 1 | 2 | X | 1 | 2 | 2 | 2 | 2 |
| | CO4 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 1 | 2 | 1 | 1 | 3 | 2 | 3 | 3 |

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| | CO5 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| | CO6 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | X | 1 | 2 | 2 | 2 | 12 |
| PBC501 | CO1 | 2 | 3 | 2 | 2 | 2 | 2 | 1 | X | 2 | 2 | 2 | 3 | 3 | 2 | 2 |
| | CO2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 |
| | CO3 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 |
| | CO4 | 2 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 2 |
| | CO5 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 |
| | | | | | | | | | | | | | | | | |
| HCP501 | CO1 | 2 | 1 | 1 | X | 1 | X | X | X | 2 | X | 2 | 2 | X | 1 | 1 |
| | CO2 | 2 | 1 | 1 | X | 1 | X | X | X | 2 | X | 2 | 2 | 1 | 1 | 1 |
| | CO3 | 2 | 1 | 1 | X | 1 | X | X | X | 2 | X | 2 | 2 | 1 | 1 | 1 |
| | CO4 | 2 | 1 | 1 | X | 1 | X | X | X | 2 | X | 2 | 2 | 1 | 1 | 1 |
| | CO5 | 2 | 1 | 1 | X | 1 | X | X | X | 2 | X | 2 | 2 | 1 | 1 | 1 |
| | CO6 | 2 | 1 | 1 | X | 1 | X | X | X | 2 | X | 2 | 2 | 1 | 1 | 1 |
| ENO501 | CO1 | 3 | 3 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | X | 1 | 3 | 2 | 1 | 2 |
| | CO2 | 3 | 3 | 2 | 2 | 1 | 3 | 3 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| | CO3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 1 | 2 | X | 1 | 2 | 2 | 2 | 2 |
| | CO4 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 1 | 2 | 1 | 1 | 3 | 2 | 3 | 3 |
| | CO5 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| | CO6 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | X | 1 | 2 | 2 | 2 | 2 |
| HIN501 | CO1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | X | 1 | 2 | 2 | 2 | 3 | 2 | 3 |
| | CO2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | X | 1 | 2 | 2 | 3 | 2 | 2 | 3 |
| | CO3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 3 |
| | CO4 | 1 | 3 | 1 | 1 | 1 | X | X | X | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | CO5 | 2 | 2 | 1 | X | X | X | 1 | X | 1 | 2 | 2 | 1 | 2 | 2 | 2 |

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|---------------|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CO6 | 3 | 2 | 2 | 1 | 1 | 1 | X | X | 1 | 2 | 2 | 2 | 1 | 1 | 2 |
| PBI501 | CO1 | 3 | 2 | 2 | 1 | 2 | 1 | 1 | X | 2 | 2 | 2 | 2 | 3 | 2 | 2 |
| | CO2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | X | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| | CO3 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 |
| | CO4 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | X | 2 | 2 | 2 | 1 | 1 | 1 | 2 |
| | CO5 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | X | 2 | 1 | 2 | 2 | 2 | 2 | 2 |
| HIS501 | CO1 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| | CO2 | 3 | 2 | 3 | 2 | 3 | 1 | 1 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 |
| | CO3 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| | CO4 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| | CO5 | 3 | 2 | 3 | 2 | 3 | 1 | 1 | 3 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| | CO6 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| ECO501 | CO1 | 1 | X | 1 | 1 | X | X | X | X | X | X | 1 | X | X | X | 2 |
| | CO2 | 1 | X | 2 | 3 | 2 | X | X | 1 | 1 | X | 1 | 1 | X | X | 1 |
| | CO3 | 2 | X | 1 | X | 1 | X | X | X | 2 | 1 | 2 | 1 | X | X | 2 |
| | CO4 | 2 | 1 | 3 | 2 | 1 | X | X | 1 | 1 | X | 1 | X | X | X | 2 |
| | CO5 | 1 | X | 1 | 1 | X | X | X | X | X | X | 1 | X | X | X | 2 |
| | CO6 | 1 | X | 2 | 3 | 2 | X | X | 1 | 1 | X | 1 | 1 | X | X | 1 |
| POL501 | CO1 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 2 | 1 | X | 2 | 2 | 2 | 2 | 2 |
| | CO2 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | 2 | X | 2 | 2 | 2 | 2 | 2 |
| | CO3 | 3 | 3 | 3 | 2 | 2 | 1 | 2 | 1 | 2 | X | 2 | 1 | 2 | 2 | 1 |
| | CO4 | 3 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 1 | X | 1 | X | 2 | 2 | 2 |
| | CO5 | 3 | 3 | 3 | 1 | 2 | 2 | 1 | 2 | 2 | X | 2 | 1 | 1 | 2 | 1 |

| | | | | | | | | | | | | | | | | |
|--------|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CO6 | 2 | 3 | 3 | 1 | 2 | 1 | 2 | X | 1 | X | 2 | X | 1 | 2 | 1 |
| ENC501 | CO1 | 2 | 2 | 1 | 3 | 3 | 3 | 2 | 3 | 1 | 3 | 1 | 2 | 3 | 1 | 2 |
| | CO2 | 3 | 2 | 2 | 2 | 1 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
| | CO3 | 2 | 3 | 3 | 2 | X | 3 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 3 |
| | CO4 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 |
| | CO5 | 3 | 3 | 3 | 3 | 2 | 2 | X | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 1 |
| | CO6 | 3 | X | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 1 | 3 | 1 |
| PED501 | CO1 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO2 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO3 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO4 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO5 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO6 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| HMS501 | CO1 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| | CO2 | 3 | 2 | 3 | 2 | 3 | 1 | 1 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 |
| | CO3 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| | CO4 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| | CO5 | 3 | 2 | 3 | 2 | 3 | 1 | 1 | 3 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| | CO6 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 |
| FNC501 | CO1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | X | 2 | 3 | 3 | 2 | 1 | 1 | 2 |
| | CO2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | X | 2 | 3 | 2 | 2 | 1 | 1 | 2 |
| | CO3 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | X | 2 | 3 | 2 | 2 | 1 | 1 | 2 |
| | CO4 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | X | 2 | 3 | 2 | 2 | 1 | 1 | 2 |
| | CO5 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | X | 2 | 3 | 2 | 2 | 1 | 1 | 2 |

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|-------------|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CO6 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | X | 2 | 3 | 2 | 2 | 1 | 1 | 2 |
| MAT50 1A | CO1 | 3 | X | 3 | 3 | 2 | X | 1 | X | 1 | 1 | 2 | 2 | 2 | 3 | 2 |
| | CO2 | 3 | X | 3 | 3 | 2 | X | 1 | X | 1 | 1 | 2 | 2 | 2 | 3 | 2 |
| | CO3 | 2 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | 3 | 3 | 3 |
| | CO4 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 3 | 3 | 2 | 1 | 2 | 3 | 2 |
| | CO5 | 3 | 1 | 3 | 3 | 2 | 1 | 3 | X | 2 | 1 | 3 | X | 3 | 2 | 1 |
| | CO6 | 3 | 1 | 2 | 3 | 1 | X | 2 | X | 1 | X | 2 | X | X | 2 | 3 |
| MAT50 1B | CO1 | 3 | 1 | 3 | 3 | 2 | X | 1 | X | 1 | 1 | 2 | 2 | 2 | 2 | 3 |
| | CO2 | 3 | 1 | 3 | 3 | 2 | X | 1 | 1 | 2 | 3 | 2 | 1 | 1 | 2 | 3 |
| | CO3 | 2 | X | 2 | 3 | 3 | 1 | 1 | X | 1 | 2 | 3 | X | 3 | 2 | 2 |
| | CO4 | 3 | X | 3 | 3 | 3 | 1 | 1 | X | 1 | 3 | 3 | X | 3 | 2 | 3 |
| | CO5 | 3 | 1 | 2 | 3 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 3 | 3 | 3 | 3 |
| | CO6 | 3 | 1 | 3 | 3 | 2 | X | 1 | X | 1 | 1 | 2 | 2 | 2 | 2 | 3 |
| MAT50 1C | CO1 | 3 | 1 | 2 | 3 | 2 | 1 | 2 | 1 | 3 | X | 2 | 1 | X | 2 | 2 |
| | CO2 | 3 | 1 | 2 | 3 | 2 | 2 | 1 | 2 | 2 | X | 1 | 1 | X | 1 | 2 |
| | CO3 | 3 | 1 | 2 | 3 | 3 | 3 | 1 | 2 | 2 | X | 2 | 1 | X | 1 | 2 |
| | CO4 | 3 | 1 | 2 | 3 | 3 | 3 | 1 | 2 | 2 | X | 2 | 1 | X | 1 | 2 |
| | CO5 | 3 | 1 | 1 | 3 | 2 | 2 | 1 | 2 | 1 | X | 1 | 1 | X | 1 | 2 |
| CS501A | CO1 | 2 | 2 | 1 | X | 1 | X | 1 | X | X | 2 | 1 | 1 | 1 | X | X |
| | CO2 | X | 2 | 1 | X | X | X | X | X | X | 1 | 1 | X | X | X | X |
| | CO3 | X | 2 | X | X | X | X | X | X | 2 | 2 | X | X | 1 | X | X |
| | CO4 | X | 2 | X | 2 | X | X | X | X | 1 | 1 | 1 | X | X | 1 | X |
| | CO5 | X | X | X | X | X | X | X | 2 | X | 1 | 1 | X | X | X | X |
| | CO6 | X | X | X | X | X | X | X | 2 | 2 | 1 | 1 | X | X | 1 | X |

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|---------------|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CS501B | CO1 | 1 | X | X | X | 1 | X | 1 | X | X | X | X | X | X | X | X |
| | CO2 | 1 | X | 1 | X | X | X | X | X | X | X | X | X | X | X | X |
| | CO3 | 1 | X | 1 | X | X | X | X | X | 1 | X | X | X | X | X | X |
| | CO4 | 1 | X | 1 | 2 | X | X | X | X | 1 | 1 | 1 | X | X | 1 | X |
| | CO5 | 1 | X | 1 | X | X | X | X | X | X | 1 | 1 | X | X | X | X |
| | CO6 | 1 | X | 1 | X | X | X | X | X | X | X | X | X | X | 1 | X |
| MUV501 | CO1 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO2 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO3 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO4 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO5 | 3 | 1 | X | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO6 | 3 | 1 | 2 | X | 2 | 2 | 2 | 1 | 3 | 1 | 2 | 2 | 1 | 1 | 2 |
| Semester VI | | | | | | | | | | | | | | | | |
| ENG601 | CO1 | 3 | 3 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | X | 1 | 3 | 2 | 1 | 2 |
| | CO2 | 3 | 3 | 2 | 2 | 1 | 3 | 3 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| | CO3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 1 | 2 | X | X | 2 | 2 | 2 | 2 |
| | CO4 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 1 | 2 | 1 | 1 | 3 | 2 | 3 | 3 |
| | CO5 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| | CO6 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | X | 1 | 2 | 2 | 1 | 1 |
| PBC601 | CO1 | 2 | 2 | 2 | 1 | 2 | 1 | X | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 |
| | CO2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 |
| | CO3 | 2 | 2 | 1 | X | 2 | X | X | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 |
| | CO4 | 1 | 1 | 2 | X | 2 | X | X | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 |
| | CO5 | 2 | 1 | 2 | 1 | 1 | 1 | X | 1 | 2 | X | 1 | 1 | 2 | 1 | 1 |

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|--------|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CO6 | 2 | 2 | 1 | X | 2 | X | X | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 |
| HCP601 | CO1 | 2 | 1 | 1 | X | 2 | X | X | X | 2 | X | 2 | 2 | X | 1 | 1 |
| | CO2 | 2 | 1 | 1 | X | 1 | X | X | X | 2 | X | 2 | 2 | 1 | 1 | 1 |
| | CO3 | 2 | 1 | 1 | X | 1 | X | X | X | 2 | X | 2 | 2 | 1 | 1 | 1 |
| | CO4 | 2 | 1 | 1 | X | 1 | X | X | X | 2 | X | 2 | 2 | 1 | 1 | 1 |
| | CO5 | 2 | 1 | 1 | X | 1 | X | X | X | 2 | X | 2 | 2 | 1 | 1 | 1 |
| | CO6 | 2 | 1 | 1 | X | 1 | X | X | X | 2 | X | 2 | 2 | 1 | 1 | 1 |
| ENO601 | CO1 | 3 | 3 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | X | 1 | 3 | 2 | 1 | 2 |
| | CO2 | 3 | 3 | 2 | 2 | 1 | 3 | 3 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| | CO3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | X | 1 | 2 | 3 | 2 | 2 |
| | CO4 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 1 | 2 | 1 | 1 | 3 | 2 | 3 | 3 |
| | CO5 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| | CO6 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | X | 1 | 2 | 2 | 2 | 2 |
| HIN601 | CO1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | X | 1 | 2 | 2 | 2 | 3 | 2 | 3 |
| | CO2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | X | 1 | 2 | 2 | 3 | 2 | 2 | 3 |
| | CO3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 3 |
| | CO4 | 1 | 3 | 1 | 1 | 1 | X | X | X | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | CO5 | 2 | 2 | 1 | X | X | X | 1 | X | 1 | 2 | 2 | 1 | 2 | 2 | 2 |
| | CO6 | 3 | 2 | 2 | 1 | 1 | 1 | X | X | 1 | 2 | 2 | 2 | 1 | 1 | 2 |
| PBI601 | CO1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | X | 1 | 1 | 2 | 2 | 2 | 1 | 2 |
| | CO2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 |
| | CO3 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | X | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| | CO4 | 3 | 1 | 2 | 1 | 1 | 1 | 1 | X | 1 | 1 | 1 | 2 | 2 | 1 | 2 |
| | CO5 | 3 | 1 | 2 | 1 | 1 | 1 | 1 | X | 1 | 1 | 1 | 2 | 2 | 1 | 2 |

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|--------|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CO6 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 |
| HIS601 | CO1 | 3 | 2 | 3 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | X | 2 | 2 |
| | CO2 | 3 | 2 | 3 | 2 | 3 | 1 | 1 | 3 | 2 | 1 | 2 | 2 | X | 2 | 2 |
| | CO3 | 3 | 2 | 3 | 2 | 3 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | X | 2 | 2 |
| | CO4 | 3 | 2 | 3 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | X | 2 | 2 |
| | CO5 | 3 | 2 | 3 | 2 | 2 | 1 | 1 | 3 | 2 | 1 | 2 | 2 | X | 2 | 2 |
| | CO6 | 3 | 2 | 3 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | X | 2 | 2 |
| ECO601 | CO1 | 1 | X | 1 | 1 | X | X | X | X | X | X | 1 | X | X | X | 2 |
| | CO2 | 1 | X | 2 | 3 | 2 | X | X | 1 | 1 | X | 1 | 1 | X | X | 1 |
| | CO3 | 2 | X | 1 | X | 1 | X | X | X | 2 | 1 | 2 | 1 | X | X | 2 |
| | CO4 | 2 | 1 | 3 | 2 | 1 | X | X | 1 | 1 | X | 1 | X | X | X | 2 |
| POL601 | CO1 | 3 | 3 | 3 | 2 | 1 | 1 | 1 | 2 | X | X | 1 | 2 | 2 | 1 | 2 |
| | CO2 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | X | X | 1 | 3 | 2 | 1 | 2 |
| | CO3 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | X | 2 | 3 | 2 | 1 | 2 |
| | CO4 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | X | X | 1 | 2 | 1 | 1 | 2 |
| | CO5 | 3 | 3 | 3 | 1 | 2 | 1 | 2 | 2 | X | X | 1 | 2 | 1 | 1 | 2 |
| | CO6 | 2 | 3 | 3 | 1 | 2 | 1 | 2 | 2 | 1 | X | X | 1 | 2 | 1 | 1 |
| ENC601 | CO1 | 3 | 2 | 1 | 3 | 2 | 3 | 2 | 1 | 1 | 3 | 1 | 2 | 3 | 1 | 2 |
| | CO2 | 1 | 2 | 2 | 2 | 1 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 |
| | CO3 | 2 | 3 | 3 | 2 | 2 | 3 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 3 |
| | CO4 | 1 | 2 | 1 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 |
| | CO5 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 1 |
| | CO6 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 2 |
| PED601 | CO1 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |

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|---------------------|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CO2 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO3 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO4 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO5 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| | CO6 | 3 | X | 2 | X | X | X | 3 | X | X | X | 3 | 3 | 3 | X | 3 |
| HMS60 1 | CO1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 |
| | CO2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 |
| | CO3 | 2 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 |
| | CO4 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 |
| | CO5 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 |
| FNC601 | CO1 | 2 | 3 | 2 | 1 | 2 | X | 1 | X | 2 | 2 | 2 | x | 1 | 1 | 2 |
| | CO2 | 2 | 3 | 2 | 1 | 2 | X | 1 | X | 2 | 2 | 2 | 2 | 1 | 1 | 2 |
| | CO3 | 2 | 3 | 2 | 1 | 2 | X | 1 | X | 2 | 2 | 2 | 2 | 1 | 1 | 2 |
| | CO4 | 2 | 3 | 2 | 1 | 2 | X | 1 | X | 2 | 2 | 2 | 2 | 1 | 1 | 2 |
| | CO5 | 2 | 3 | 3 | 1 | 2 | X | 1 | X | 2 | 2 | 2 | 2 | 1 | 1 | 2 |
| | CO6 | 2 | 3 | 2 | 1 | 2 | X | 1 | X | 2 | 2 | 2 | 2 | 1 | 1 | 2 |
| MAT60 1A | CO1 | 3 | X | 3 | 3 | 3 | 1 | 1 | X | 1 | 3 | 3 | X | 3 | 2 | 2 |
| | CO2 | 2 | X | 2 | 3 | 3 | 1 | 1 | X | 1 | 2 | 3 | X | 3 | 2 | 2 |
| | CO3 | 3 | 1 | 3 | 3 | 2 | X | 1 | 1 | 2 | 3 | 2 | 1 | 1 | 2 | 2 |
| | CO4 | 3 | 1 | 3 | 3 | 2 | X | 1 | X | 1 | 1 | 2 | 2 | 2 | 3 | 2 |
| | CO5 | 3 | 1 | 2 | 3 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 3 | 3 | 3 | 3 |
| MAT60 1B | CO1 | 3 | 1 | 2 | 2 | X | 1 | 3 | 1 | 2 | X | 1 | 1 | 2 | 1 | 1 |
| | CO2 | 3 | X | 2 | 3 | 1 | X | 1 | 1 | X | X | 3 | 1 | 2 | 1 | 2 |
| | CO3 | 3 | 2 | 2 | 3 | 1 | X | 2 | 1 | 2 | 1 | 3 | X | 2 | 2 | 2 |

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|---------------------|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CO4 | 2 | 1 | 3 | 3 | 2 | 2 | 2 | X | 1 | 1 | 2 | X | 2 | 1 | 2 |
| | CO5 | 3 | X | 3 | 2 | 2 | 1 | 2 | 1 | 2 | 3 | 3 | X | 2 | 2 | 3 |
| MAT60 1C | CO1 | 3 | 1 | 2 | 2 | 1 | 2 | 1 | 3 | 1 | 2 | X | X | X | 1 | 3 |
| | CO2 | 3 | 1 | 2 | 2 | 2 | 3 | 1 | 3 | 1 | 2 | X | 1 | X | 1 | 3 |
| | CO3 | 3 | 1 | 2 | 1 | X | 2 | 1 | 3 | 1 | 2 | X | X | X | X | 3 |
| | CO4 | 3 | 1 | 2 | 2 | 1 | 1 | 1 | 3 | 1 | 2 | X | X | X | X | 3 |
| | CO5 | 3 | 1 | 2 | 3 | 2 | 3 | 1 | 3 | 1 | 2 | X | 1 | X | 1 | 3 |
| CS601A | CO1 | 1 | X | X | 1 | X | X | 1 | X | X | 1 | X | X | X | X | X |
| | CO2 | 1 | X | X | 1 | X | X | X | X | X | 1 | X | X | X | X | X |
| | CO3 | 1 | X | X | 1 | X | X | X | X | 1 | 1 | X | X | X | X | X |
| | CO4 | 1 | X | X | 1 | X | X | X | X | 1 | 1 | X | X | X | X | X |
| | CO5 | 1 | X | X | 1 | X | X | X | X | X | 1 | X | X | X | X | X |
| CS601B | CO6 | 1 | X | X | 1 | X | X | X | X | X | 1 | X | X | X | X | X |
| | CO1 | 1 | X | X | 1 | X | X | 1 | X | X | 1 | X | X | X | X | X |
| | CO2 | 1 | X | X | 1 | X | X | X | X | X | 1 | X | X | X | X | X |
| | CO3 | 1 | X | X | 1 | X | X | X | X | 1 | 1 | X | X | X | X | X |
| | CO4 | 1 | X | X | 1 | X | X | X | X | 1 | 1 | X | X | X | X | X |
| MUV60 1 | CO5 | 1 | X | X | 1 | X | X | X | X | X | 1 | X | X | X | X | X |
| | CO6 | 1 | X | X | 1 | X | X | X | X | X | 1 | X | X | X | X | X |
| | CO1 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO2 | 3 | 3 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO3 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO4 | 3 | 1 | 1 | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |
| | CO5 | 3 | 1 | X | X | X | 1 | 1 | X | 2 | 1 | 2 | 2 | 1 | 1 | 2 |

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|--|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CO6 | 3 | 1 | 2 | X | 2 | 2 | 2 | 1 | 3 | 1 | 2 | 2 | 1 | 1 | 2 |
|--|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Mapping of Course Outcomes (CO) with Programme Specific Outcomes (PSO)

| College code | Course Out-comes | PSO 1 | PSO 2 | PSO 3 | PSO 4 | PSO 5 |
|---------------------|-------------------------|------------------|------------------|------------------|------------------|------------------|
| ENG101 | CO1 | 3 | 3 | 3 | 3 | 3 |
| | CO2 | 3 | 3 | 3 | 3 | 3 |
| | CO3 | 3 | 3 | 2 | 3 | 3 |
| | CO4 | 3 | 3 | 3 | 3 | 3 |
| | CO5 | 3 | 3 | 3 | X | 2 |
| | CO6 | 3 | 3 | 3 | 3 | 3 |
| PBC101 | CO1 | 3 | 3 | 3 | 2 | 2 |
| | CO2 | 3 | 3 | 2 | 3 | 2 |
| | CO3 | 2 | 3 | 3 | 2 | 2 |
| | CO4 | 1 | 1 | 3 | 1 | 2 |
| | CO5 | 1 | 1 | 2 | 1 | X |
| HCP101 | CO1 | 3 | 3 | 3 | 1 | 2 |
| | CO2 | 3 | 3 | 3 | 1 | 2 |
| | CO3 | 3 | 3 | 3 | 1 | 2 |
| | CO4 | 3 | 3 | 3 | 1 | 2 |
| | CO5 | 3 | 3 | 3 | 1 | 2 |
| | CO6 | 3 | 3 | 3 | 1 | 2 |
| ENO101 | CO1 | 2 | 1 | 1 | 1 | 1 |
| | CO2 | 1 | 1 | 1 | X | 1 |
| | CO3 | 1 | X | 2 | 1 | 1 |

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|---------------|------------|---|---|---|---|---|
| | C04 | 1 | X | 2 | X | X |
| | C05 | 1 | X | 2 | X | X |
| | C06 | 1 | X | 2 | X | X |
| HIN101 | C01 | 2 | 2 | 2 | 1 | 1 |
| | C02 | 2 | 3 | 2 | 2 | 2 |
| | C03 | 2 | 3 | 2 | 2 | 2 |
| | C04 | 1 | 1 | 2 | X | 1 |
| | C05 | 2 | 2 | 2 | 2 | 2 |
| | C06 | 2 | 2 | 2 | 2 | 2 |
| PBI101 | C01 | 2 | 2 | 1 | 2 | 2 |
| | C02 | 2 | 2 | 1 | 2 | 2 |
| | C03 | 1 | 1 | X | 1 | 1 |
| | C04 | 2 | 2 | 1 | 2 | 2 |
| | C05 | 2 | 2 | 1 | 2 | 2 |
| HIS101 | C01 | 3 | 3 | 3 | 3 | 2 |
| | C02 | 3 | 3 | 3 | 3 | 2 |
| | C03 | 3 | 3 | 3 | 1 | 2 |
| | C04 | 3 | 3 | 3 | 1 | 2 |
| | C05 | 3 | 3 | 3 | 2 | 2 |
| | C06 | 3 | 3 | 3 | 2 | 2 |
| ECO101 | C01 | 3 | 3 | 3 | 2 | X |
| | C02 | 3 | 3 | 2 | 1 | X |
| | C03 | 3 | 3 | 3 | 2 | X |
| | C04 | 3 | 3 | 3 | 3 | X |
| | C05 | 3 | 2 | 2 | 3 | X |
| | C06 | 3 | 2 | 2 | 2 | X |
| POL101 | C01 | 3 | 3 | 2 | 3 | 2 |

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|---------------|------------|---|---|---|---|---|
| | C02 | 3 | 3 | 2 | 3 | 2 |
| | C03 | 3 | 3 | 3 | 3 | 2 |
| | C04 | 3 | 3 | 2 | 3 | 2 |
| | C05 | 3 | 2 | 2 | 2 | 2 |
| | C06 | 3 | 2 | 3 | 3 | 2 |
| ENC101 | C01 | 3 | X | 1 | 2 | 3 |
| | C02 | 2 | X | 2 | 1 | 3 |
| | C03 | 1 | 1 | 2 | 1 | 1 |
| | C04 | 1 | 1 | 3 | 1 | 1 |
| | C05 | 3 | 1 | 2 | 1 | 1 |
| | C06 | 1 | 1 | 2 | 1 | 2 |
| PED101 | C01 | 3 | 2 | X | 3 | X |
| | C02 | 3 | 2 | X | 3 | X |
| | C03 | 3 | 2 | X | 3 | X |
| | C04 | 3 | 2 | X | 3 | X |
| | C05 | 3 | 2 | X | 3 | X |
| | C06 | 3 | 2 | X | 3 | X |
| HMS101 | C01 | 1 | X | 2 | 3 | X |
| | C02 | X | X | 2 | 2 | X |
| | C03 | X | X | 1 | 1 | X |
| | C04 | X | X | 1 | 1 | X |
| | C05 | X | X | X | 1 | X |
| FNC101 | C01 | 3 | X | 2 | 2 | 1 |
| | C02 | 2 | X | 2 | 2 | 1 |
| | C03 | 2 | X | 2 | 2 | 1 |
| | C04 | 2 | X | 2 | 2 | 1 |
| | C05 | 2 | X | 2 | 2 | 1 |

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|----------------|------------|---|---|---|---|---|
| | C06 | 2 | X | 2 | 2 | 1 |
| MAT101A | C01 | 3 | 2 | 3 | 2 | 1 |
| | C02 | 2 | 2 | 2 | 1 | 3 |
| | C03 | 2 | 3 | 1 | 2 | 2 |
| | C04 | 1 | 2 | 1 | 3 | X |
| | C05 | 2 | 1 | X | 2 | X |
| MAT101B | C01 | 2 | 1 | 2 | X | 2 |
| | C02 | 1 | 2 | 2 | 1 | 2 |
| | C03 | 1 | 2 | 1 | X | 2 |
| | C04 | 3 | 3 | 2 | 2 | 2 |
| | C05 | 3 | 2 | 2 | 1 | 1 |
| MAT101C | C01 | 3 | 2 | 2 | X | 2 |
| | C02 | 3 | 3 | 2 | 1 | X |
| | C03 | 3 | 2 | 2 | 1 | X |
| | C04 | 3 | 3 | 2 | 1 | 1 |
| | C05 | 3 | 3 | 2 | 2 | X |
| CS101A | C01 | 1 | X | 2 | X | 1 |
| | C02 | 1 | X | 2 | X | 1 |
| | C03 | 1 | X | 2 | X | 1 |
| | C04 | 1 | X | 1 | X | 1 |
| | C05 | 1 | X | X | X | 1 |
| | C06 | 1 | X | 2 | X | 1 |
| CS101B | C01 | 1 | X | 2 | X | 1 |
| | C02 | 1 | X | 2 | X | 1 |
| | C03 | 1 | X | 2 | X | 1 |
| | C04 | 1 | X | 1 | X | 1 |
| | C05 | 1 | X | X | X | 1 |
| | C06 | 1 | X | 2 | X | 1 |
| MUV101 | C01 | 1 | 1 | 1 | 1 | X |

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|---------------|------------|---|---|---|---|---|
| | C02 | 1 | 1 | 1 | 1 | X |
| | C03 | 3 | 1 | 1 | 1 | X |
| | C04 | 1 | 1 | 1 | 1 | X |
| | C05 | 1 | 1 | 1 | 1 | X |
| | C06 | 3 | 1 | 3 | 1 | 2 |
| ENG201 | C01 | 3 | 3 | 3 | 3 | 3 |
| | C02 | 3 | 3 | 3 | 3 | 3 |
| | C03 | 3 | 3 | 2 | 3 | 3 |
| | C04 | 3 | 3 | 3 | 3 | 3 |
| | C05 | 3 | 3 | 3 | X | 2 |
| | C06 | 3 | 3 | 3 | 3 | 3 |
| PBC201 | C01 | 3 | 3 | 3 | 3 | 2 |
| | C02 | 2 | 3 | 2 | 3 | 1 |
| | C03 | X | 1 | 2 | X | X |
| | C04 | 2 | 3 | 3 | 2 | 2 |
| | C05 | 2 | 3 | 2 | 2 | 2 |
| HCP201 | C01 | 3 | 3 | 3 | 1 | 2 |
| | C02 | 3 | 3 | 3 | 1 | 2 |
| | C03 | 3 | 3 | 3 | 1 | 2 |
| | C04 | 3 | 3 | 3 | 1 | 2 |
| | C05 | 3 | 3 | 3 | 1 | 2 |
| | C06 | 3 | 3 | 3 | 1 | 2 |
| ENO201 | C01 | 2 | 1 | 1 | 1 | 1 |
| | C02 | 1 | 1 | 1 | X | 1 |
| | C03 | 1 | X | 2 | 1 | 1 |
| | C04 | 1 | X | 2 | X | X |
| | C05 | 1 | X | 2 | X | X |

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|---------------|------------|---|---|---|---|---|
| | C06 | 1 | X | 2 | X | X |
| HIN201 | C01 | 2 | 3 | 3 | 2 | 2 |
| | C02 | 2 | 3 | 1 | 2 | 2 |
| | C03 | 1 | 1 | 1 | 1 | 2 |
| | C04 | 1 | 2 | 2 | X | X |
| | C05 | 2 | 3 | 1 | 2 | 2 |
| | C06 | 2 | 3 | 1 | 2 | 2 |
| PBI201 | C01 | 2 | 2 | 1 | 2 | 2 |
| | C02 | 2 | 2 | 1 | 2 | 2 |
| | C03 | 2 | 2 | 1 | 2 | 2 |
| | C04 | 2 | 2 | 1 | 2 | 2 |
| | C05 | 2 | 2 | 1 | 2 | 2 |
| HIS201 | C01 | 3 | 3 | 3 | 2 | 2 |
| | C02 | 3 | 3 | 3 | 2 | 2 |
| | C03 | 3 | 3 | 3 | 2 | 2 |
| | C04 | 3 | 3 | 3 | 1 | 2 |
| | C05 | 3 | 3 | 3 | 3 | 2 |
| | C06 | 3 | 3 | 3 | X | X |
| ECO201 | C01 | 3 | 1 | 2 | 1 | X |
| | C02 | 3 | 1 | 2 | 1 | X |
| | C03 | 3 | 1 | 2 | 1 | X |
| | C04 | 3 | 1 | 2 | 1 | X |
| | C05 | 3 | 1 | 2 | 1 | X |
| | C06 | 3 | 1 | 2 | 1 | X |
| POL201 | C01 | 2 | 2 | 3 | 3 | 2 |
| | C02 | 3 | 3 | 2 | 2 | 2 |
| | C03 | 2 | 2 | 3 | 3 | 3 |

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|----------------|------------|---|---|---|---|---|
| | C04 | 2 | 3 | 2 | 2 | 3 |
| | C05 | 3 | 3 | 3 | 2 | 3 |
| | C06 | 2 | 2 | 2 | 2 | 2 |
| ENC201 | C01 | 2 | 2 | 1 | 2 | 3 |
| | C02 | 2 | 2 | 2 | 1 | 3 |
| | C03 | 1 | 1 | 2 | 1 | 1 |
| | C04 | 3 | 1 | 3 | 1 | 1 |
| | C05 | 3 | 1 | 2 | 1 | 1 |
| | C06 | 1 | 1 | 2 | 1 | 2 |
| PED201 | C01 | 3 | 2 | X | 3 | X |
| | C02 | 3 | 2 | X | 3 | X |
| | C03 | 3 | 2 | X | 3 | X |
| | C04 | 3 | 2 | X | 3 | X |
| | C05 | 3 | 2 | X | 3 | X |
| | C06 | 3 | 2 | X | 3 | X |
| HMS201 | C01 | 1 | X | 2 | 2 | X |
| | C02 | 1 | X | 2 | 3 | X |
| | C03 | 1 | X | 2 | 2 | X |
| | C04 | 1 | X | 3 | 1 | X |
| | C05 | 1 | X | 2 | 2 | X |
| FNC201 | C01 | 2 | X | 2 | 1 | 1 |
| | C02 | 2 | X | 2 | 1 | 1 |
| | C03 | 2 | X | 2 | 1 | 1 |
| | C04 | 2 | X | 2 | 1 | 1 |
| | C05 | 2 | X | 2 | 1 | 1 |
| | C06 | 2 | X | 2 | 1 | 1 |
| MAT201A | C01 | 2 | 1 | 2 | X | 2 |

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|----------------|------------|---|---|---|---|---|
| | C02 | 1 | 2 | 2 | 1 | 2 |
| | C03 | 1 | 2 | 1 | X | 2 |
| | C04 | 3 | 3 | 2 | 2 | 2 |
| | C05 | 3 | 2 | 2 | 1 | 1 |
| MAT201B | C01 | 3 | 1 | 2 | X | X |
| | C02 | 3 | 1 | 2 | 1 | X |
| | C03 | 3 | 1 | 2 | 1 | X |
| | C04 | 3 | 1 | 2 | X | X |
| | C05 | 3 | 1 | 2 | 1 | X |
| | C06 | 3 | X | 2 | X | X |
| MAT201C | C01 | 3 | 1 | 2 | x | x |
| | C02 | 3 | 1 | 2 | 1 | x |
| | C03 | 3 | 1 | 2 | 1 | x |
| | C04 | 3 | 1 | 2 | x | x |
| | C05 | 3 | 1 | 2 | 1 | x |
| | C06 | 3 | x | 2 | x | x |
| CS201A | C01 | 1 | X | 2 | X | 1 |
| | C02 | 1 | X | 2 | X | 1 |
| | C03 | 1 | X | 2 | X | 1 |
| | C04 | 1 | X | 1 | X | 1 |
| | C05 | 1 | X | X | X | 1 |
| | C06 | 1 | X | 2 | X | 1 |
| CS201B | C01 | 1 | X | 2 | X | 1 |
| | C02 | 1 | X | 2 | X | 1 |
| | C03 | 1 | X | 2 | X | 1 |
| | C04 | 1 | X | 1 | X | 1 |
| | C05 | 1 | X | X | X | 1 |
| | C06 | 1 | X | 2 | X | 1 |

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|---------------|------------|---|---|---|---|---|
| MUV201 | C01 | 1 | 1 | 1 | 1 | X |
| | C02 | 1 | 1 | 1 | 1 | X |
| | C03 | 3 | 1 | 1 | 1 | X |
| | C04 | 1 | 1 | 1 | 1 | X |
| | C05 | 1 | 1 | 1 | 1 | X |
| | C06 | 3 | 1 | 3 | 1 | 2 |
| ENG301 | C01 | 2 | 1 | 2 | 2 | 3 |
| | C02 | 2 | 1 | 2 | 2 | 3 |
| | C03 | 2 | X | 2 | 1 | 2 |
| | C04 | 2 | 2 | 2 | 1 | 2 |
| | C05 | 2 | 1 | 2 | 1 | 2 |
| | C06 | 2 | X | 2 | 1 | 1 |
| PBC301 | C01 | 2 | 3 | 3 | 2 | 2 |
| | C02 | 2 | 3 | 1 | 2 | 2 |
| | C03 | 1 | 1 | 1 | 1 | 2 |
| | C04 | 1 | 2 | 2 | X | X |
| | C05 | 2 | 3 | 1 | 2 | 2 |
| HCP301 | C01 | 3 | 3 | 3 | 1 | 2 |
| | C02 | 3 | 3 | 3 | 1 | 2 |
| | C03 | 3 | 3 | 3 | 1 | 2 |
| | C04 | 3 | 3 | 3 | 1 | 2 |
| | C05 | 3 | 3 | 3 | 1 | 2 |
| | C06 | 3 | 3 | 3 | 1 | 2 |
| ENO301 | C01 | 3 | 3 | 3 | 3 | 3 |
| | C02 | 3 | 3 | 3 | 3 | 3 |
| | C03 | 3 | 3 | 2 | 3 | 3 |
| | C04 | 3 | 3 | 3 | 3 | 3 |
| | C05 | 3 | 3 | 3 | X | 2 |
| | C06 | 3 | 3 | 3 | 3 | 3 |

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|---------------|-------------|---|---|---|---|---|
| HIN301 | C01 | 3 | 3 | 2 | 2 | 2 |
| | C02 | 3 | 3 | 1 | 2 | 2 |
| | C03 | 2 | 2 | 2 | 2 | 2 |
| | C04 | 2 | 2 | 1 | 2 | 2 |
| | C05 | 2 | 2 | 2 | 3 | 2 |
| | C06 | 1 | 1 | 2 | 1 | 1 |
| PBI301 | C01 | 1 | 3 | 2 | 1 | 3 |
| | C02 | 2 | 1 | 1 | 3 | 1 |
| | C03 | 3 | 2 | 3 | 2 | 2 |
| | C04 | 2 | 3 | 2 | 3 | 3 |
| | C05 | 3 | 1 | 1 | 2 | 1 |
| | C0 6 | 1 | 2 | 3 | 1 | 2 |
| HIS301 | C01 | 3 | 3 | 3 | 1 | 2 |
| | C02 | 3 | 3 | 3 | 1 | 2 |
| | C03 | 3 | 3 | 3 | 3 | 2 |
| | C04 | 3 | 3 | 3 | 1 | 2 |
| | C05 | 3 | 3 | 3 | 1 | 2 |
| | C06 | 3 | 3 | 3 | 2 | 2 |
| ECO301 | C01 | 3 | 3 | 3 | 2 | X |
| | C02 | 2 | 2 | 2 | 1 | X |
| | C03 | 2 | 2 | 3 | 2 | X |
| | C04 | 1 | 3 | 3 | 3 | X |
| | C05 | 3 | 2 | 2 | 3 | X |
| | C06 | 1 | 1 | 1 | 1 | X |
| POL301 | C01 | 1 | 2 | 3 | 2 | 3 |
| | C02 | 3 | 3 | 2 | 3 | 2 |
| | C03 | 3 | 2 | 3 | 2 | 3 |
| | C04 | 3 | 2 | 2 | 3 | 2 |
| | C05 | 2 | 3 | 3 | 2 | 3 |
| | C06 | 2 | 3 | 2 | 3 | 3 |

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|----------------|------------|---|---|---|---|---|
| ENC301 | C01 | 3 | 3 | 1 | 2 | 3 |
| | C02 | 2 | 2 | 2 | 1 | 3 |
| | C03 | 2 | 3 | 2 | 2 | 1 |
| | C04 | 2 | 3 | 2 | 1 | 1 |
| | C05 | 3 | 3 | 2 | 3 | 1 |
| | C06 | 3 | 3 | 2 | 1 | 2 |
| PED301 | C01 | 3 | 2 | X | 3 | X |
| | C02 | 3 | 2 | X | 3 | X |
| | C03 | 3 | 2 | X | 3 | X |
| | C04 | 3 | 2 | X | 3 | X |
| | C05 | 3 | 2 | X | 3 | X |
| | C06 | 3 | 2 | X | 3 | X |
| HMS301 | C01 | X | X | 2 | 1 | X |
| | C02 | 1 | X | 3 | 2 | X |
| | C03 | 1 | X | 2 | 2 | X |
| | C04 | 1 | X | 2 | 1 | X |
| | C05 | 1 | X | 2 | 2 | X |
| FNC301 | C01 | 3 | X | 2 | 2 | 1 |
| | C02 | 2 | X | 2 | 2 | 1 |
| | C03 | 2 | X | 2 | 2 | 1 |
| | C04 | 2 | X | 2 | 2 | 1 |
| | C05 | 2 | X | 2 | 2 | 1 |
| | C06 | 2 | X | 2 | 2 | 1 |
| MAT301A | C01 | 3 | 2 | 3 | 1 | 2 |
| | C02 | 3 | 3 | 2 | 3 | 2 |
| | C03 | 2 | 1 | 2 | 1 | 3 |
| | C04 | 3 | 2 | 2 | 2 | 1 |
| | C05 | 1 | 2 | 1 | X | 2 |
| MAT301B | C01 | 3 | 3 | 3 | 1 | 3 |

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|----------------|------------|---|---|---|---|---|
| | C02 | 3 | 2 | 2 | 1 | 2 |
| | C03 | 3 | 2 | 3 | 2 | 1 |
| | C04 | 2 | 3 | 3 | 3 | 3 |
| | C05 | 2 | 2 | 2 | 3 | 2 |
| MAT301C | C01 | 3 | 3 | 3 | 1 | 3 |
| | C02 | 3 | 2 | 2 | 1 | 2 |
| | C03 | 3 | 2 | 3 | 2 | 1 |
| | C04 | 2 | 3 | 3 | 3 | 3 |
| | C05 | 2 | 2 | 2 | 3 | 2 |
| CS301A | C01 | X | X | X | X | X |
| | C02 | X | X | X | X | X |
| | C03 | X | X | X | X | X |
| | C04 | X | X | X | X | X |
| | C05 | X | X | X | X | X |
| | C06 | X | X | X | X | X |
| CS301B | C01 | X | X | X | X | X |
| | C02 | X | X | X | X | X |
| | C03 | X | X | X | 1 | X |
| | C04 | X | X | X | 2 | X |
| | C05 | X | X | X | X | X |
| | C06 | X | X | X | X | X |
| MUV301 | C01 | 1 | 1 | 1 | 1 | X |
| | C02 | 1 | 1 | 1 | 1 | X |
| | C03 | 3 | 1 | 1 | 1 | X |
| | C04 | 1 | 1 | 1 | 1 | X |
| | C05 | 1 | 1 | 1 | 1 | X |
| | C06 | 3 | 1 | 3 | 1 | 2 |
| ENG401 | C01 | 2 | 1 | 2 | 2 | 3 |
| | C02 | 2 | 1 | 2 | 2 | 3 |

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|---------------|------------|---|---|---|---|---|
| | C03 | 2 | X | 2 | 1 | 2 |
| | C04 | 2 | X | 2 | 1 | 2 |
| | C05 | 2 | 1 | 2 | 1 | 2 |
| | C06 | 2 | X | 2 | 1 | 2 |
| PBC401 | C01 | 3 | 3 | 2 | 2 | 2 |
| | C02 | X | 1 | 1 | 1 | 1 |
| | C03 | 2 | 2 | 2 | 1 | 2 |
| | C04 | X | 1 | 1 | X | X |
| | C05 | 2 | 1 | 1 | X | 1 |
| HCP401 | C01 | 3 | 3 | 3 | 1 | 2 |
| | C02 | 3 | 3 | 3 | 1 | 2 |
| | C03 | 3 | 3 | 3 | 1 | 2 |
| | C04 | 3 | 3 | 3 | 1 | 2 |
| | C05 | 3 | 3 | 3 | 1 | 2 |
| | C06 | 3 | 3 | 3 | 1 | 2 |
| ENO401 | C01 | 3 | 3 | 3 | 3 | 3 |
| | C02 | 3 | 3 | 3 | 3 | 3 |
| | C03 | 3 | 3 | 2 | 3 | 3 |
| | C04 | 3 | 3 | 3 | 3 | 3 |
| | C05 | 3 | 3 | 3 | X | 2 |
| | C06 | 3 | 3 | 3 | 3 | 3 |
| HIN401 | C01 | 3 | 3 | 2 | 2 | 2 |
| | C02 | 3 | 3 | 1 | 2 | 2 |
| | C03 | 2 | 2 | 2 | 2 | 2 |
| | C04 | 2 | 2 | 1 | 2 | 2 |
| | C05 | 2 | 2 | 2 | 3 | 2 |
| | C06 | 1 | 1 | 2 | 1 | 1 |
| PBI401 | C01 | 3 | 2 | 1 | 3 | 2 |
| | C02 | 1 | 1 | 3 | 2 | 1 |

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|---------------|------------|---|---|---|---|---|
| | C03 | 2 | 3 | 2 | 1 | 3 |
| | C04 | 3 | 1 | 3 | 2 | 1 |
| | C05 | 1 | 2 | 1 | 3 | 2 |
| | C06 | 2 | 3 | 2 | 1 | 3 |
| HIS401 | C01 | 3 | 3 | 3 | 3 | 2 |
| | C02 | 3 | 3 | 3 | 2 | 2 |
| | C03 | 3 | 3 | 3 | 1 | 2 |
| | C04 | 3 | 3 | 3 | 1 | 2 |
| | C05 | 3 | 3 | 3 | 1 | 2 |
| | C06 | 3 | 3 | 3 | 1 | 2 |
| ECO401 | C01 | 3 | 1 | 2 | 1 | X |
| | C02 | 3 | 1 | 2 | 1 | X |
| | C03 | 3 | 1 | 2 | 1 | X |
| | C04 | 3 | 1 | 2 | 1 | X |
| | C05 | 3 | 1 | 2 | 1 | X |
| | C06 | 3 | 1 | 2 | 1 | X |
| POL401 | C01 | 3 | 2 | 2 | 2 | 3 |
| | C02 | 3 | 2 | 2 | 3 | 2 |
| | C03 | 3 | 2 | 2 | 2 | 3 |
| | C04 | 2 | 3 | 3 | 3 | 2 |
| | C05 | 2 | 3 | 3 | 2 | 2 |
| | C06 | 3 | 3 | 3 | 2 | 2 |
| ENC401 | C01 | 2 | 3 | 1 | 2 | 3 |
| | C02 | 2 | 2 | 2 | 1 | 3 |
| | C03 | 3 | 3 | 2 | 2 | 1 |
| | C04 | 2 | 1 | 2 | 1 | 1 |
| | C05 | 3 | 3 | 2 | 3 | 1 |
| | C06 | 3 | 1 | 2 | 1 | 2 |
| PED401 | C01 | 3 | 2 | X | 3 | X |
| | C02 | 3 | 2 | X | 3 | X |

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|----------------|------------|---|---|---|---|---|
| | C03 | 3 | 2 | X | 3 | X |
| | C04 | 3 | 2 | X | 3 | X |
| | C05 | 3 | 2 | X | 3 | X |
| | C06 | 3 | 2 | X | 3 | X |
| HMS401 | C01 | 1 | X | 1 | 1 | X |
| | C02 | 1 | X | 2 | 1 | X |
| | C03 | 1 | X | 1 | 2 | X |
| | C04 | X | X | 2 | 1 | X |
| | C05 | X | X | 1 | 1 | X |
| FNC401 | C01 | 2 | X | 2 | 2 | 1 |
| | C02 | 2 | X | 2 | 2 | 2 |
| | C03 | 2 | X | 2 | 2 | 1 |
| | C04 | 2 | X | 2 | 2 | 1 |
| | C05 | 2 | X | 2 | 2 | 1 |
| | C06 | 2 | X | 2 | 2 | 1 |
| MAT401A | C01 | 3 | 2 | 2 | X | 2 |
| | C02 | 2 | 2 | 3 | 1 | 2 |
| | C03 | 3 | 2 | 2 | X | 2 |
| | C04 | 2 | 2 | 2 | 1 | 3 |
| | C05 | 3 | 3 | 2 | 2 | 1 |
| MAT401B | C01 | 3 | 2 | 2 | X | 2 |
| | C02 | 2 | 2 | 3 | 1 | 2 |
| | C03 | 3 | 2 | 2 | X | 2 |
| | C04 | 2 | 2 | 2 | 1 | 3 |
| | C05 | 3 | 3 | 2 | 2 | 1 |
| MAT401C | C01 | 3 | 2 | 2 | X | 2 |
| | C02 | 2 | 2 | 3 | 1 | 2 |
| | C03 | 3 | 2 | 2 | X | 2 |

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|---------------|------------|---|---|---|---|---|
| | C04 | 2 | 2 | 2 | 1 | 3 |
| | C05 | 3 | 3 | 2 | 2 | 1 |
| CS401A | C01 | X | X | X | X | X |
| | C02 | X | X | X | X | X |
| | C03 | X | X | X | 1 | X |
| | C04 | X | X | X | 2 | X |
| | C05 | X | X | X | X | X |
| | C06 | X | X | X | X | X |
| CS401B | C01 | X | X | X | X | X |
| | C02 | X | X | X | X | X |
| | C03 | X | X | X | 1 | X |
| | C04 | X | X | X | 2 | X |
| | C05 | X | X | X | X | X |
| | C06 | X | X | X | X | X |
| MUV401 | C01 | 1 | 1 | 1 | 1 | X |
| | C02 | 1 | 1 | 1 | 1 | X |
| | C03 | 3 | 1 | 1 | 1 | X |
| | C04 | 1 | 1 | 1 | 1 | X |
| | C05 | 1 | 1 | 1 | 1 | X |
| | C06 | 3 | 1 | 3 | 1 | 2 |
| ENG501 | C01 | 3 | 3 | 3 | 3 | 3 |
| | C02 | 3 | 3 | 3 | 3 | 3 |
| | C03 | 3 | 3 | 2 | 3 | 3 |
| | C04 | 3 | 3 | 3 | 3 | 3 |
| | C05 | 3 | 3 | 3 | X | 2 |
| | C06 | 3 | 3 | 3 | 3 | 3 |
| PBC501 | C01 | 3 | 3 | 1 | 2 | 2 |
| | C02 | 1 | 1 | 2 | 1 | 1 |
| | C03 | X | 2 | 2 | 1 | 1 |
| | C04 | 1 | 1 | 1 | 2 | 1 |

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|---------------|------------|---|---|---|---|---|
| | C05 | X | 2 | 2 | 1 | 1 |
| HCP501 | C01 | 3 | 3 | 3 | 1 | 2 |
| | C02 | 3 | 3 | 3 | 1 | 2 |
| | C03 | 3 | 3 | 3 | 1 | 2 |
| | C04 | 3 | 3 | 3 | 1 | 2 |
| | C05 | 3 | 3 | 3 | 1 | 2 |
| | C06 | 3 | 3 | 3 | 1 | 2 |
| ENO501 | C01 | 3 | 3 | 3 | 3 | 3 |
| | C02 | 3 | 3 | 3 | 3 | 3 |
| | C03 | 3 | 3 | 2 | 3 | 3 |
| | C04 | 3 | 3 | 3 | 3 | 3 |
| | C05 | 3 | 3 | 3 | x | 2 |
| | C06 | 3 | 3 | 3 | 3 | 3 |
| HIN501 | C01 | 3 | 3 | 2 | 2 | 2 |
| | C02 | 2 | 2 | 2 | 2 | 2 |
| | C03 | 2 | 2 | 1 | 2 | 2 |
| | C04 | 1 | 1 | 2 | 1 | 1 |
| | C05 | 1 | 1 | 2 | 1 | 1 |
| | C06 | X | X | 1 | X | X |
| PBI501 | C01 | 2 | 2 | 1 | 2 | 2 |
| | C02 | 2 | 2 | 1 | 2 | 2 |
| | C03 | 1 | 1 | 1 | 2 | 2 |
| | C04 | 1 | 1 | X | 1 | 1 |
| | C05 | 2 | 2 | 1 | 2 | 2 |
| | C06 | 2 | 2 | 1 | 2 | 2 |
| HIS501 | C01 | 3 | 3 | 3 | 1 | 2 |
| | C02 | 3 | 3 | 3 | 1 | 2 |
| | C03 | 3 | 3 | 3 | 1 | 2 |
| | C04 | 3 | 3 | 3 | 1 | 2 |

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|---------------|------------|---|---|---|---|---|
| | C05 | 3 | 3 | 3 | 1 | 2 |
| | C06 | 3 | 3 | 3 | 1 | 2 |
| ECO501 | C01 | 1 | 1 | X | X | X |
| | C02 | 1 | 1 | 2 | 3 | 2 |
| | C03 | 1 | 2 | 1 | X | X |
| | C04 | X | 1 | 1 | 1 | 2 |
| | C05 | 1 | 1 | X | X | X |
| | C06 | 1 | 1 | 2 | 3 | X |
| POL501 | C01 | 3 | 3 | 2 | 2 | 2 |
| | C02 | 3 | 2 | 2 | 3 | 2 |
| | C03 | 3 | 3 | 3 | 2 | 3 |
| | C04 | 2 | 2 | 3 | 3 | 2 |
| | C05 | 3 | 3 | 2 | 3 | 3 |
| | C06 | 3 | 2 | 2 | 2 | 3 |
| ENC501 | C01 | 1 | 2 | 3 | 2 | 3 |
| | C02 | 2 | 2 | 2 | 1 | 3 |
| | C03 | 3 | 2 | 3 | 2 | 2 |
| | C04 | 2 | 2 | 2 | 2 | 1 |
| | C05 | 2 | 2 | 2 | 3 | 2 |
| | C06 | 1 | 1 | 2 | 1 | 2 |
| PED501 | C01 | 3 | 2 | X | 3 | X |
| | C02 | 3 | 2 | X | 3 | X |
| | C03 | 3 | 2 | X | 3 | X |
| | C04 | 3 | 2 | X | 3 | X |
| | C05 | 3 | 2 | X | 3 | X |
| | C06 | 3 | 2 | X | 3 | X |
| HMS501 | C01 | 1 | X | 1 | 1 | X |
| | C02 | 1 | X | 2 | 2 | X |
| | C03 | 1 | 1 | 1 | 1 | X |
| | C04 | 1 | X | 1 | 1 | X |

| | | | | | | |
|----------------|-------------|---|---|---|---|---|
| | C05 | 1 | X | 1 | 1 | X |
| FNC501 | C01 | 3 | X | 2 | 2 | 1 |
| | C02 | 2 | X | 2 | 2 | 1 |
| | C03 | 2 | X | 2 | 2 | 1 |
| | C04 | 2 | X | 2 | 2 | 1 |
| | C05 | 2 | X | 2 | 2 | 1 |
| | C06 | 2 | X | 2 | 2 | 1 |
| MAT501A | C01 | 3 | 3 | 2 | X | 3 |
| | C02 | 3 | 1 | 2 | 2 | 1 |
| | C03 | 2 | 2 | 1 | 1 | 2 |
| | C04 | 3 | 2 | 1 | 1 | 2 |
| | C05 | 2 | 2 | 2 | 2 | 2 |
| | C0 6 | 3 | 3 | 2 | 1 | 1 |
| MAT501B | C01 | 2 | 3 | 2 | 2 | 2 |
| | C02 | 2 | 2 | 3 | 1 | 2 |
| | C03 | 3 | 2 | 3 | 2 | 3 |
| | C04 | 3 | 3 | 3 | 2 | 3 |
| | C05 | 2 | 2 | 2 | 2 | 2 |
| MAT501C | C01 | 3 | 2 | 2 | 2 | X |
| | C02 | 3 | 2 | 3 | 1 | X |
| | C03 | 3 | 2 | 3 | 1 | X |
| | C04 | 3 | 2 | 3 | 1 | X |
| | C05 | 2 | 1 | 2 | X | X |
| CS501A | C01 | X | X | X | X | X |
| | C02 | X | X | X | X | 1 |
| | C03 | X | X | X | X | 1 |

| | | | | | | |
|---------------|------------|---|---|---|---|---|
| | C04 | 1 | 1 | 1 | 1 | 1 |
| | C05 | X | X | X | 2 | X |
| | C06 | 1 | 1 | X | X | X |
| CS501B | C01 | X | X | X | X | X |
| | C02 | X | X | X | X | 1 |
| | C03 | X | X | X | X | 1 |
| | C04 | 1 | 1 | 1 | 1 | 1 |
| | C05 | X | X | X | 2 | X |
| | C06 | 1 | 1 | X | X | X |
| MUV501 | C01 | 1 | 1 | 1 | 1 | X |
| | C02 | 1 | 1 | 1 | 1 | X |
| | C03 | 3 | 1 | 1 | 1 | X |
| | C04 | 1 | 1 | 1 | 1 | X |
| | C05 | 1 | 1 | 1 | 1 | X |
| | C06 | 3 | 1 | 3 | 1 | 2 |
| ENG601 | C01 | 3 | 3 | 3 | 3 | 3 |
| | C02 | 3 | 3 | 3 | 3 | 3 |
| | C03 | 3 | 3 | 2 | 3 | 3 |
| | C04 | 3 | 3 | 3 | 3 | 3 |
| | C05 | 3 | 3 | 3 | X | 2 |
| | C06 | 3 | 3 | 3 | 3 | 3 |
| PBC601 | C01 | 2 | 3 | 1 | 2 | 2 |
| | C02 | X | 2 | 3 | 1 | 1 |
| | C03 | X | X | 2 | X | 2 |
| | C04 | X | X | 1 | X | 2 |

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|---------------|------------|---|---|---|---|---|
| | C05 | 1 | 1 | 2 | 1 | 2 |
| | C06 | X | X | 1 | 1 | 1 |
| HCP601 | C01 | 3 | 3 | 3 | 1 | 2 |
| | C02 | 3 | 3 | 3 | 1 | 2 |
| | C03 | 3 | 3 | 3 | 1 | 2 |
| | C04 | 3 | 3 | 3 | 1 | 2 |
| | C05 | 3 | 3 | 3 | 1 | 2 |
| | C06 | 3 | 3 | 3 | 1 | 2 |
| ENO601 | C01 | 3 | 3 | 3 | 3 | 3 |
| | C02 | 3 | 3 | 3 | 3 | 3 |
| | C03 | 3 | 3 | 2 | 3 | 3 |
| | C04 | 3 | 3 | 3 | 3 | 3 |
| | C05 | 3 | 3 | 3 | X | 2 |
| | C06 | 3 | 3 | 3 | 3 | 3 |
| HIN601 | C01 | 3 | 3 | 2 | 2 | 2 |
| | C02 | 2 | 2 | 2 | 2 | 2 |
| | C03 | 2 | 2 | 1 | 2 | 2 |
| | C04 | 1 | 1 | 2 | 1 | 1 |
| | C05 | 1 | 1 | 2 | 1 | 1 |
| | C06 | X | X | 1 | X | X |
| PBI601 | C01 | 2 | 2 | 1 | 2 | 2 |
| | C02 | 1 | 1 | 1 | 1 | 1 |
| | C03 | 1 | 2 | 1 | 2 | 2 |
| | C04 | X | X | X | 1 | 1 |
| | C05 | 1 | 1 | X | 1 | 1 |
| | C06 | 1 | 1 | 2 | 1 | X |
| HIS601 | C01 | 3 | 3 | 3 | 1 | 2 |
| | C02 | 3 | 3 | 3 | 1 | 2 |
| | C03 | 3 | 3 | 3 | 1 | 2 |
| | C04 | 3 | 3 | 3 | 1 | 2 |

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|---------------|------------|---|---|---|---|---|
| | C05 | 3 | 3 | 3 | 1 | 2 |
| | C06 | 3 | 3 | 3 | 1 | 2 |
| ECO601 | C01 | 1 | 1 | X | X | X |
| | C02 | 1 | 1 | 2 | 3 | 1 |
| | C03 | 1 | 2 | 1 | X | X |
| | C04 | X | 1 | 1 | 1 | X |
| POL601 | C01 | 3 | 2 | 2 | 3 | 3 |
| | C02 | 3 | 2 | 3 | 2 | 2 |
| | C03 | 2 | 2 | 3 | 2 | 3 |
| | C04 | 3 | 3 | 2 | 3 | 3 |
| | C05 | 2 | 3 | 3 | 3 | 3 |
| | C06 | 2 | 3 | 2 | 3 | 2 |
| ENC601 | C01 | 2 | 2 | | 2 | 3 |
| | C02 | 2 | 2 | 3 | 1 | 3 |
| | C03 | 2 | 2 | 3 | 2 | 2 |
| | C04 | 2 | 2 | 1 | 2 | 2 |
| | C05 | 2 | 2 | 2 | 3 | 2 |
| | C06 | 1 | 1 | 2 | 1 | 2 |
| PED601 | C01 | 3 | 2 | X | 3 | X |
| | C02 | 3 | 2 | X | 3 | X |
| | C03 | 3 | 2 | X | 3 | X |
| | C04 | 3 | 2 | X | 3 | X |
| | C05 | 3 | 2 | X | 3 | X |
| | C06 | 3 | 2 | X | 3 | X |
| HMS601 | C01 | 1 | X | 1 | 1 | X |
| | C02 | 1 | X | 2 | 2 | X |
| | C03 | 1 | 1 | 1 | 1 | X |
| | C04 | 1 | X | 1 | 1 | X |
| | C05 | 1 | X | 1 | 1 | X |
| FNC601 | C01 | 2 | X | 2 | 2 | 1 |

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|----------------|------------|---|---|---|---|---|
| | C02 | 2 | X | 2 | 2 | 2 |
| | C03 | 2 | X | 2 | 2 | 1 |
| | C04 | 2 | X | 2 | 2 | 1 |
| | C05 | 2 | X | 2 | 2 | 1 |
| | C06 | 2 | X | 2 | 2 | 1 |
| MAT601A | C01 | 3 | 3 | 3 | 2 | 3 |
| | C02 | 3 | 2 | 3 | 2 | 3 |
| | C03 | 2 | 2 | 3 | 1 | 2 |
| | C04 | 2 | 3 | 2 | 2 | 2 |
| | C05 | 2 | 2 | 2 | 2 | 2 |
| MAT601B | C01 | 2 | 2 | 2 | 3 | 2 |
| | C02 | 3 | 3 | 3 | 1 | 3 |
| | C03 | 3 | 2 | 2 | 1 | 2 |
| | C04 | 2 | 3 | 3 | 3 | 3 |
| | C05 | 3 | 2 | 3 | 2 | 1 |
| MAT601C | C01 | 2 | 1 | 3 | 1 | X |
| | C02 | 2 | 1 | 3 | 1 | X |
| | C03 | 2 | 1 | 3 | 1 | X |
| | C04 | 2 | 1 | 3 | 1 | X |
| | C05 | 2 | 1 | 3 | 1 | X |
| CS601A | C01 | 1 | X | X | 1 | X |
| | C02 | 1 | X | X | 1 | X |
| | C03 | 1 | X | X | 1 | X |
| | C04 | 1 | X | X | 1 | X |
| | C05 | 1 | X | X | 1 | X |

| | | | | | | |
|---------------|------------|---|---|---|---|---|
| | C06 | 1 | X | X | 1 | X |
| CS601B | C01 | 1 | X | X | 1 | X |
| | C02 | 1 | X | X | 1 | X |
| | C03 | 1 | X | X | 1 | X |
| | C04 | 1 | X | X | 1 | X |
| | C05 | 1 | X | X | 1 | X |
| | C06 | 1 | X | X | 1 | X |
| MUV601 | C01 | 1 | 1 | 1 | 1 | X |
| | C02 | 1 | 1 | 1 | 1 | X |
| | C03 | 3 | 1 | 1 | 1 | X |
| | C04 | 1 | 1 | 1 | 1 | X |
| | C05 | 1 | 1 | 1 | 1 | X |
| | C06 | 3 | 1 | 3 | 1 | 2 |