JAI HIND COLLEGE

Basantsing Institute of Science & J. T. Lalvani College of Commerce
and Sheila Gopal Raheja College of Management.

Autonomous

Program Name: Bachelor of Arts (B.A. in English)

CO\PO	PO1 English language proficiency and competency	PO2 Develop communication skills	PO3 Professional communication skills	PO4 Public Speaking Skills	PO5 Understand the interplay between texts and contexts	PO6 Gain insight in the socio-cultural dimensions of literature	PO7 Develop sensitization	PO8 Inculcation of human values	PO9 Character analysis and application	PO10 Understanding historical relevance of literature	PO11 Understanding and application of conceptual knowledge	PO12 Understanding and application of theoretical knowledge	PO13 Research skills	PO14 Comparative analysis of literature	PO15 Creative abilities	NOSE LECTED	WEIGHTAGE
CO1: AENG101					✓	✓	✓	✓	✓	✓			✓	✓	✓	9	M
CO2: AENG201					✓	✓	✓	✓	✓	✓			✓	✓	✓	9	M
CO3: AECS101	✓	✓											✓	✓	✓	6	M
CO4: AECS201	✓	✓											✓	✓	✓	6	M
CO5: AENG301		✓	✓		✓	✓	✓		✓	✓	✓	✓		✓	✓	11	H
CO6: AENG302		✓	✓		✓	✓	✓		✓	✓	✓	✓		✓	✓	11	H
CO7: AENG401					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	H
CO8: AENG402	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		11	H
CO9: AENG3AC01		✓	✓	✓		✓	✓	✓	✓		✓				✓	9	M
CO10: AENG3AC2		✓	✓	✓		✓	✓	✓	✓		✓				✓	9	M
CO11: AENG31AC3	✓	✓	✓									✓	✓	✓	✓	7	M

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CO11: AENG31AC3	✓	✓	✓								✓	✓	✓		✓	7	M
CO12: AENG4AC1	✓	✓	✓								✓	✓	✓		✓	7	M
CO13: AENG4AC2		✓	✓						✓	✓	✓	✓		✓	✓	8	M
CO14: AENG4AC3		✓	✓						✓	✓	✓	✓		✓	✓	8	M
CO15: AENG501					✓	✓					✓	✓	✓	✓	✓	7	M
CO16: AENG502	✓	✓	✓		✓	✓			✓	✓	✓	✓	✓	✓		11	H
CO17: AENG503	✓	✓	✓		✓		✓		✓	✓	✓	✓	✓		✓	11	H
CO18: AENG504					✓	✓				✓	✓	✓	✓	✓	✓	8	M
CO19: AENG505		✓	✓	✓	✓	✓	✓	✓				✓			✓	9	M
CO20: AENG506		✓	✓	✓	✓	✓		✓			✓	✓	✓			8	M
CO21: AENG601					✓	✓				✓	✓		✓	✓	✓	7	M
CO22: AENG602	✓	✓	✓		✓				✓	✓	✓	✓	✓	✓		11	H
CO23: AENG603	✓	✓	✓		✓		✓		✓	✓	✓	✓		✓	✓	11	H

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Program Name: Bachelor of Arts (B.A. in English)

CO\PO	PO1 English language proficiency and competency	PO2 Develop communication skill s	PO3 Professional communication skills	PO4 Public Speaking Skills	PO5 Understand the interplay between texts and contexts	PO6 Gain insight in the socio-cultural dimensions of literature	PO 7 Develop sensitization	PO8 Inculcation of human values	PO 9 Character analysis and application	PO 10 Understanding historical relevance of literature	PO 11 Understanding and application of conceptual knowledge	PO 12 Understanding and application of theoretical knowledge	PO 13 Research skills	PO 14 (Comparative analysis of literature	PO 15 Creative abilities	NOS ELEC TED	WEIGHTAGE
CO24: AENG604					✓					✓	✓	✓	✓	✓	✓	7	M
CO25: AENG605		✓	✓	✓	✓	✓	✓	✓	✓			✓			✓	10	M
CO26: AENG606		✓	✓	✓	✓	✓		✓			✓	✓	✓			9	M

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Autonomous

Program Name: Bachelor of Arts (B.A in English)

PROGRAM OBJECTIVES

PO1: Inculcate knowledge of English language use, grammar, phonology, pronunciation, intonation, stress patterns and vocabulary

PO2: Enhance Communication Skills in Reading, Writing, Listening and Speaking

PO3: Impart knowledge of data interpretation, digital communication (such as emails, blogs and PPTs), netiquette, formal correspondence, report writing, editing, summarising, soft skills, and professional group communication

PO4: Develop their personality and self-confidence in interactions, interviews, debates, group discussions and public speaking and the ability to articulate and present ideas with clarity and precision

PO5: Make them understand of various social and personal contexts through a study of diverse literatures and be able to explore the interplay between texts and contexts

PO6: Train them into the politics of literature, popular culture, identity formation, gender, caste, language and other socio-cultural, socio-political and socio-economic dimensions

PO7: Sensitize an awareness of and be sensitive to the suffering, identity conflicts, societal problems and issues of people belonging to marginalized groups

PO8: Have an insight into universal humanitarian values such as inclusivity, tolerance, gender sensitivity, and social responsibility

PO9: Inculcate knowledge into human behaviour, human nature and personality, psychological motives, personality development and character evolution, and be able to analyse and delineate characters of different types

PO10: Train them to identify the influence of historical events, movements and thinkers on literature.

PO11: Impart knowledge of basic concepts and terminologies related to formal elements, genres, trends and movements in literature

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PO12: Train them with an understanding of various literary and cultural theories and their application.

PO13: Foster knowledge research ability, critical thinking and analytical skills through the study of various eras and cultures

PO14: Train between various kinds of literary and popular culture texts, as well as critically analyse and evaluate these

PO15: Sensitize them with creative abilities such as writing, acting, composition

COURSE OUTCOMES

CO1: Demonstrate basic language proficiency in reading, writing, listening and speaking skills and understand the lexical and functional aspects of language such as grammar and syntax, as well as phonology and stress marking

CO2: Demonstrate an enhanced vocabulary and language proficiency in reading, writing, listening, and speaking skills and Exhibit industry-oriented soft skills such as editing and summarizing.

CO3: Apply knowledge a wide range of literary genres prevalent and popular in nineteenth century England and Apply the contextual understanding of the era to specific literary texts

CO4: Display a comprehensive understanding of a wide range of texts in nineteenth century America and Demonstrate analytical and critical thinking skills through a close reading of texts.

CO5: apply the basics of oral and written communication in professional contexts and display leadership and team-building skills through effective use of communication

CO6: Understand the fundamental components of communication in the corporate world as seen through departments such as Advertising, PR and HR and Write cogent emails, business reports and letters, press-releases, and related business correspondence

CO7: Use writing, speaking and listening skills with appropriate use of grammar and vocabulary and Develop awareness of the theory and practice of communication skills in English

CO8: Develop awareness of the theory and practice of communication skills in English and Enhance writing, speaking and listening skills with appropriate use of grammar and vocabulary

CO9: Articulate the uniqueness of Indian Literature in English and the unique issues and contributions of this area of literature in colonial and postcolonial contexts and Understand, critically analyze and evaluate fiction in Indian Literature in English and academic essays in this area of literature

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CO10: Evaluate poetry, drama and academic essays in Indian Literature in English and Display an awareness of prominent Indian poets in English and their works

CO11: Use a wide range of literary genres prevalent in twentieth century America and Develop skills to analyse and critically respond to fiction and academic essays written in America in the Twentieth Century

CO12: Derive an understanding of various social, cultural, historical and political trends and the impact of these on literary texts and Understand a wide range of literary genres prevalent in twentieth century America

CO13: Gauge the history of advertising and grasp more recent developments in the field. And Have clarity of various concepts of advertising

CO14: Develop skills to create effective advertisements and become aware of the different creative strategies employed in advertising

CO15: Elucidate and show an understanding of the basic concepts of journalism, types of news, types of reporting, basics of reporting, and the qualities and aptitudes required for a reporter and demonstrate an understanding of the constitutional provisions and laws related to the freedom and censorship of the Press and issues related to violence against media persons.

CO16: Demonstrate an understanding of the fundamentals of editing and proofreading, editorial policy and the roles of the Editor, News Editor, Chief Sub-editor and Sub-editors and Refine their language, editing and writing skills.

CO17: Demonstrate an understanding of concepts such as sex and gender, patriarchy, and the process of gender construction and gender identity formation and Show a gender-sensitive approach to patriarchy and gender oppression, and an insight into the workings of patriarchy and its oppressive nature and influence.

CO18: Demonstrate analytical and critical thinking skills through learning about the historical, sociopolitical, digital and legal implications of gender and be empowered with a knowledge of women's rights and legal safeguards.

CO19: Summarize a wide range of literary genres prevalent in the Elizabethan and Jacobean age and Develop skills to analyse and critically respond to poetry and theatre of this period

CO20: Display knowledge of the socio-political context of the Restoration and Neo-Classical Period and Establish connectivity between the context and different literary texts written during the seventeenth and eighteenth centuries in England.

CO21: Explain important critical terms related to key theories and Outline and delineate the nature

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and functions of literature and criticism

CO22: Explain important critical terms related to key theories and critically analyse and interpret Modern Critical Essays

CO23: Articulate the nature and politics of Popular Culture and Identify a range of Popular Culture texts

CO24: Articulate the nature, influence and politics of globalization in Popular Culture and Identify and explain problematic areas and issues in various Popular Culture texts and media as well as critically analyse and evaluate texts of techno culture, virtual reality and games, interactive fiction, digital literature and fan-fiction

CO25: Display knowledge of the socio-historical background of the late eighteenth and early nineteenth century England and Apply the contextual nuances of Romantic era to specific literary texts written during the age

CO26: Display knowledge of film language and its use in filmmaking and Understand the prominent global film movements and the evolution of cinema

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Basantsing Institute of Science & J. T. Lalvani College of Commerce
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Autonomous

Program Name: Bachelor of Arts (B.A. in Economics)

CO\PO	PO1 Knowledge	PO2 Application	PO3 Research Aptitude	PO4 Problem Solving	PO5 Academic Writing	PO6 Current affairs	PO7 Quantitative Techniques	PO8 Environment Consciousness/social Issues	PO9 Analytical skills/Critical Evaluation	PO10 Life Long learning	Weightage	letter grade
CO1	✓	✓		✓		✓	✓		✓	✓	7	M
CO2	✓	✓	✓	✓	✓	✓	✓		✓	✓	9	H
CO3	✓	✓	✓	✓	✓	✓	✓		✓	✓	9	H
CO4	✓	✓	✓	✓	✓	✓		✓	✓	✓	9	H
CO5	✓	✓	✓	✓	✓	✓	✓		✓	✓	9	H
CO6	✓	✓	✓	✓	✓	✓		✓	✓	✓	9	H
CO7	✓	✓	✓	✓	✓	✓	✓		✓	✓	9	H
CO8	✓	✓	✓	✓	✓	✓		✓	✓	✓	9	H
CO9	✓	✓	✓	✓	✓	✓			✓	✓	8	H
CO10	✓	✓	✓	✓					✓	✓	7	M
CO11	✓	✓	✓	✓	✓	✓			✓	✓	8	H
CO12	✓	✓	✓	✓			✓		✓	✓	7	M
CO13	✓	✓	✓	✓	✓	✓	✓		✓	✓	9	H
CO14	✓	✓	✓	✓	✓	✓		✓	✓	✓	9	H
CO15	✓	✓	✓	✓	✓	✓			✓	✓	8	H
CO16	✓	✓	✓	✓			✓		✓	✓	7	M
CO17	✓	✓	✓	✓	✓	✓			✓	✓	8	H
CO18	✓	✓	✓	✓			✓		✓	✓	7	M

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Autonomous

Program Name: <mark>Bachelor of Arts (B.A in Economics)</mark>

PROGRAM OBJECTIVES

PO1: To gain knowledge regarding the subject matter

PO2: Train the students to apply their knowledge to practical aspects

PO3: Impart knowledge to the students to do research on the topic and related concepts/ issues

PO4: Make the students aware to possess problem solving skills

PO5: Train students about academic writing skills.

PO6: Inculcate knowledge to keep up to date of current affairs

PO7: Equip students with basic/ intermediate level quantitative techniques

PO8: Inculcate sensitivity towards social issues and sustainability and hence helps them become environment conscious

PO9: Train the students develop analytical and critical evaluation skills

PO10: Sensitize students to become lifelong learners

COURSE OUTCOMES

CO1: Discuss, analyse and apply basic microeconomics concepts to real life situations regarding consumer behaviour and solve simple theoretical problems using quantitative techniques

CO2: Relate/ translate current economic events to basic macroeconomic concepts and develop the skill to critically evaluate simple theoretical models through research and by using basic quantitative tools

CO3: Apply quantitative tools of microeconomics to classify and analyse observed producers' behaviour and different market structures

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CO4: Explain and critically evaluate the performance of different sectors of the Indian Economy; objectively examine economic policies and provide creative solutions

CO5: Examine the working of goods market and money market to illustrate how rate of interest and income level is determined; analyse the impact of macroeconomic policies and suggest policy solutions

CO6: Explain the working of the Indian financial sector and evaluate the reforms undertaken over the years; analyse and discuss the government budget, compare different fiscal policy instruments; examine the trends; composition and direction of India's international trade

CO7: Comprehend the working and interdependence between different economic agents; apply game theoretic approach and quantitative techniques to explain the behaviour of firms; examine the functioning of factor markets and consequences of asymmetric information

CO8: Discuss different theories of growth and development and apply to the Indian context with respect to/ in terms of the various measurable indices; examine social-economic issues such as poverty, inequality, rural-urban divide and evaluate government policies

CO9: Explain the different components of the financial markets and their evolution over the years in view of current monetary policy reforms in the financial sector

CO10: Apply calculus and linear algebra to evaluate theoretical economic models, find optimisation solutions and interpret results

CO11: Apply different theories of trade to analyse and evaluate the past and current trends in international trade, factor movement and trade policies

CO12: Apply various statistical tools such as regression, correlation, index number and time series to analyse economic relations and for forecasting; solve problems based on probability

CO13: Discuss, analyse and apply advanced macroeconomics concepts to real life situations regarding market failure, taxation principles, trade, inflation and unemployment and solve simple theoretical problems using quantitative techniques

CO14: Examining the nature of migration and urbanisation in developing countries and its impact on development; analyse population theory and recognise the role of human capital in development of nations

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CO15: Discuss the changing role of the regulatory bodies in the Indian financial sector focussing on Money market and capital market instruments

CO16: Apply basic econometric tools to understand simple experiments, formulate hypothesis and test it.

CO17: Examine the Balance of payment structure and comprehend determination of exchange rates, working of trade blocs and international trade bodies with the help of case studies

CO18: Use econometric tools for model specification, regression and estimation; analyse and estimate heteroskedasticity, auto correlation.

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Program Name: Bachelor of Arts (B.A. in History)

CO\PO	Code	PO1 Knowledge	PO2 Critical thinking	PO3 Perspectives on history	PO4 Problem Solving	PO5 Multidisciplinary approach	PO6 Analytical skills	PO7 Communication skills	PO8 Sensitize social issues	PO9 Awareness post-colonial trajectories	PO10 Employability skills	PO11 Commitment to Heritage	PO12 Research skills	PO13 Digital skills	PO14 Application	PO15 Writing skills	Total	Grade
CO1	AHIS101	✓	✓	✓		✓	✓	✓		✓					✓		8	M
CO2	AHIS201	✓	✓	✓	✓	✓	✓		✓	✓					✓		9	M
CO3	AHIS301	✓	✓	✓		✓	✓	✓		✓			✓	✓	✓		10	M
CO4	AHIS401	✓	✓	✓		✓	✓	✓		✓			✓		✓	✓	10	M
CO5	AHIS302	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓			✓	11	M
CO6	AHIS402	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓			✓	11	M
CO7	AHIS3AC1	✓				✓		✓			✓	✓		✓	✓	✓	8	M
CO8	AHIS4AC1	✓				✓		✓			✓	✓		✓	✓	✓	8	M
CO9	AHIS501	✓	✓	✓		✓	✓	✓			✓	✓	✓	✓		✓	11	H
CO10	AHIS601	✓	✓	✓		✓	✓	✓			✓	✓	✓	✓		✓	11	H
CO11	AHIS502	✓	✓	✓			✓	✓			✓	✓	✓	✓	✓	✓	11	H
CO12	AHIS602	✓	✓	✓		✓	✓	✓			✓	✓	✓	✓	✓	✓	12	H

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CO13	AHIS503	✓	✓			✓		✓			✓	✓	✓	✓	✓	✓	10	M
CO14	AHIS603	✓	✓			✓		✓			✓	✓	✓	✓	✓	✓	10	M
CO15	AHIS504	✓	✓		✓	✓	✓	✓					✓	✓	✓	✓	10	M
CO16	AHIS604	✓	✓		✓	✓	✓	✓					✓	✓	✓	✓	10	M
CO17	AHIS505	✓	✓	✓	✓		✓	✓		✓	✓		✓	✓	✓	✓	12	H
CO18	AHIS605	✓	✓	✓	✓		✓	✓		✓	✓		✓	✓	✓	✓	12	H
CO19	AHIS506	✓	✓		✓	✓	✓	✓			✓		✓	✓	✓	✓	11	H
CO20	AHIS606	✓	✓		✓	✓	✓	✓			✓		✓	✓	✓	✓	11	H

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Autonomous

Program Name: Bachelor of Arts (B.A in History)

PROGRAM OBJECTIVES

PO1: Impart knowledge a comprehensive understanding in the discipline of History pertaining to Early India, its political, economic and social history and historiography, on Medieval History and in regional history, History of Marathas in the social, political and economic aspects and on Modern India period, its historiographical approaches, on Contemporary India its political developments, economic policies, social movements and foreign policy of India

PO2: Build critical understanding on research and historiography with respect to different approaches to writing History and critical theories for historical analysis

PO3: Train a perspective on Contemporary World and developments in Asia-political developments and major human rights movements and trends in international politics

PO4: Make them aware about skills in in Archaeological methods, Museum and Archival sciences.

PO5: Build ability in critical historical reading, interpreting narratives and contextual analysis of historical events.

PO6: Foster analytical and critical thinking abilities and build a multidisciplinary approach for problem solving and decision making by giving due importance for lateral thinking

PO7: Develop communication and presentation skills, problem solving skills, team skills, organizational skills, and leadership skills.

PO8: Inculcate sensitized approach to existing gender and social inequalities and feminist writings and adopt a multicultural and inclusive approach

PO9: Sensitize awareness about Human Rights movements, subaltern and post-colonial historical trajectories.

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PO10: Train employability skills like building civil services competitive skills, research competencies, preservation techniques, Interpretation of scripts

PO11: Build awareness and encourage commitment on Heritage, Culture and on sustainability.

PO12: Train to use survey tools in research, literature review and research paper format

PO13. Impart knowledge on digital skills, data analysis and social media marketing skills and training in brochure designing, tour packaging and marketing for the travel sector and blogging in general.

PO14: Train with critical thinking skills, research skills and domain knowledge to various issues in the contemporary world and on any research assignments.

PO15: Train with blog writing skills on topics related to history/travel, art or heritage and prepare Travel brochures and travel itineraries.

COURSE OUTCOMES

CO1: Use / Apply interpretative skills to access various newspapers to assess the role of press in the Indian National movement.

CO2: Make a comparative study of the various colonial powers in India.

CO3: Apply the knowledge of Early Past of India to understanding the social and cultural legacies in current times and develop insights.

CO4: Apply the knowledge of History of Early India in questions in the competitive exams, NET exams, in research assignments and for further studies in Post-Graduation in History

CO5: Create research projects and blogs in the historical period under study by using recent interdisciplinary approaches on the past.

CO6: Apply knowledge of conducting literature review, surveys, and citation tools.

CO7: Apply the knowledge of post structural, post-colonial and subaltern methods of analysis.

CO8: Propose the measures for the Government to ensure the safety of the tourist at the destination.

CO9: Draw a plan for sustainable tourism in your state.

CLO10: Make a travel brochure; Travel Itinerary to a destination of your choice.

CLO11: Draw a plan for future discourse between nations based on the aims and objectives of the United Nations in ensuring peace and harmony.

CLO12: Analyze the economic policies of India and probes into the shifts and changes following the adoption of policies of liberalization.

CLO13: Formulate, sustain, and justify a historical argument.

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CLO14: Create a solutions-based thinking on the current social dynamics and economic and political challenges in the country.

CLO15: Examine the relevance of material culture beyond political history.

CLO16: Analyse a deeper understanding on theorization aspects and grassroots struggles in the areas of human rights in various parts of the world whether with respect to equality of race, nations or gender especially in the USA, South Africa and in international arena post-decolonization.

CLO17: Analyse and apply the knowledge of vulnerabilities in the International, challenges through Communication revolution and apply the principles of sustainability in everyday life.

CLO18: Appreciate India's rich heritage based on study of different period papers.

CLO19: Analyse the tenets and initiatives undertaken to in India's Foreign Policy, various leadership and diplomatic endeavours undertaken, India's trade relations and the role of media and soft power in leveraging the international presence of India.

CLO20: Create and bring solutions-based approach to current challenges.

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Basantsing Institute of Science & J. T. Lalvani College of Commerce
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Autonomous

Program Name: Bachelor of Arts (B.A. in Psychology)

CO/PO	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		
	Foundational concepts	OB Func/dys	Select tool	DSM	Design exp/report writing	HRs	OB	Professionals	Community proj	lifespan ofthe individual.	application	sensitization	Cognition	psychobiology	weightage	Letter grade
CO 1										✓		✓			2	L
CO 2	✓										✓				2	L
CO 3	✓										✓				2	L
CO 4	✓													✓	2	L
CO 5	✓				✓									✓	3	L
CO 6	✓										✓	✓			3	L
CO 7	✓									✓					2	L
CO 8	✓									✓		✓			3	L
CO 9	✓										✓				2	L
CO 10	✓										✓				2	L
CO 11	✓										✓				2	L
CO 12	✓								✓						2	L
CO 13	✓								✓						2	L
CO 14	✓								✓						2	L
CO 15	✓										✓				2	L
CO 16	✓										✓				2	L

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Basantsing Institute of Science & J. T. Lalvani College of Commerce
and Sheila Gopal Raheja College of Management.

Autonomous

Program Name: Bachelor of Arts (B.A. in Psychology)

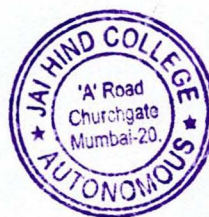| CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	Po 13	PO 14		
	Foundational concepts	OB Func/dys	Select tool	DSM	Design exp/report writing	HRs	OB	Professionals	Community proj	lifespan of the individual.	application	sensitization	Cognition	psychobiology	weightage	Letter grade
CO 17	✓		✓									✓			3	L
CO 18	✓		✓									✓			3	L
CO 19	✓											✓			2	L
CO 20	✓			✓								✓			3	
CO 21	✓				✓										2	L
CO 22	✓				✓						✓				3	L
CO 23	✓												✓	✓	3	L
CO 24	✓			✓							✓				3	L
CO 25	✓		✓								✓				3	L
CO 26	✓							✓			✓				3	L
CO 27	✓														1	L
CO 28	✓	✓													2	L
CO 29	✓										✓				2	L
CO 30	✓		✓								✓				3	L
CO 31	✓		✓								✓				3	L
CO 32	✓			✓							✓				3	L
CO 33	✓			✓							✓				3	L

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Basantsing Institute of Science & J. T. Lalvani College of Commerce
and Sheila Gopal Raheja College of Management.

Autonomous

Program Name: Bachelor of Arts (B.A. in Psychology)

CO/PO	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		
	Foundational concepts	OB Func/dys	Select tool	DSM	Design exp/report writing	HRs	OB	Professionals	Community proj	lifespan of the individual.	application	sensitization	Cognition	psychobiology	weightage	Letter grade
CO 34	✓						✓								2	L
CO 35	✓						✓				✓				3	L
CO 36	✓												✓	✓	3	L
CO 37	✓												✓	✓	3	L
CO 38	✓				✓						✓				3	L
CO 39	✓		✓		✓						✓				4	L
CO 40	✓											✓			2	L
CO 41	✓										✓	✓			3	L
CO 42	✓						✓								2	L
CO 43	✓						✓								2	L

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Basantsing Institute of Science & J. T. Lalvani College of Commerce.
and Sheila Gopal Raheja College of Management.

Autonomous

Program Name: Bachelor of Arts (B.A in Psychology)

PROGRAM OBJECTIVES

PO1: Train to understand review and analyse psychological concepts at individual level and societal level

PO2: Train to understand trends and research in biological aspects of psychology

PO3: Equipped with knowledge at an understanding & appreciation of growth, change at the physical, cognitive, social level and personality development- during the lifespan.

PO4: Train them to evaluate the DSM classification, causal factors, treatments for psychological disorders

PO5: Provide in depth understanding of the cognitive processes

PO6: Impart knowledge of testing and statistics

PO7: Train them the psychological theories to problems and issues sensitization
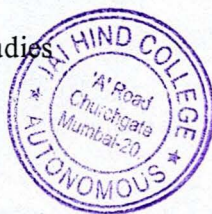
PO8: Make them aware about theories concept model intervention

PO9: Sensitize them theories concept model intervention

PO10: Sensitize them with projects for community

PO11: Encourage them for experimental studies

PO12: Selection of psychological tool

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PO13: Understanding professional roles

PO14: Understand functional/ dysfunctional OB

COURSE OUTCOMES

CO1: Describe issues and concepts of psychology

CO2: Describe neuron, brain behaviour, endocrine function

CO3: describe stressors, coping mechanisms and therapies

CO4: Describe and critique major personality theories

CO5: Explain the processes of social perception, cognition, and attitudes

CO6: Elaborate basic concepts and modern trends in Psychology of Adjustment

CO7: Discuss practical applications for improving mental health

CO8: Discuss aggression prejudice social influence and problems with groups and how they are overcome, prevented, and managed describe motivation and its biological links

CO9: Discuss cognition and biology link

CO10: Demonstrate in writing and identify in writing Physical and Cognitive development in the Preschool years (3 years – 6 years)

CO11: Discuss changes happening from Birth till Preschool years

CO12: Describe and discuss metamorphosis in Human Beings from a peak in Adolescence to a gradual slowdown till Early Adulthood

CO13: Elaborate and identify Physical, Cognitive, Social and Personality development

CO14: Describe the DSM classification, causal factors, treatments for psychological disorders students self-administer psychological tests and learn about the psychometric properties of the test

CO15: Select appropriate tests for personality, attitudes, interests, intelligence

CO16: Solve problems using basic statistical techniques

CO17: Calculate correlations and variability of data, calculation of reliability of test

CO18: Determine the appropriate test for personality

CO19: Conduct interventions for improving mental health and fight social stigma

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CO20: Use case studies to demonstrate application of clinical psychology

CO21: Apply career theories to create games and presentations

CO22: Perform experiments and write report in APA format

CO23: Make charts, group skits to demonstrate life skill

CO24: Learn personal qualities, professional qualities, and skills of a professionals in psychology through self-examination and interaction with role models, as also through

CO25: Inter-demonstrate sensitivity through group activities, sensitization sessions

CO26: Compare concepts of social psychology

CO27: Compare stages of development

CO28: Compare functional dysfunctional OB

CO29: Compare cognitive theories

CO30: Evaluate DSM

CO31: Evaluation of HR methods

CO32: Evaluate the appropriateness of HR function of job analysis, selection, training and performance appraisal

CO33: Evaluation of OB concepts and measures

CO34: Conduct exploratory research in industry

CO35: Use social work-based NGOs of choice, carry out interventions, make suggestions and present in class

CO36: Conduct interventions for improving mental health and fight social stigma

CO37: Demonstrate life skills and create games and role plays

CO38: Write a literature review on a topic of choice under the theme of SELF

CO39: Create experiments, literature review

CO40: Write and present papers in psychology

CO41: Apply career theories to create games and presentations

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CO42: Calculation of reliability of test

CO43: Describe effective and ineffective communication/ actions in organisations and their causes

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Basantsing Institute of Science & J. T. Lalvani College of Commerce and Sheila Gopal Raheja College of Management.

Autonomous

Program Name: Bachelor of Arts [(B.A. in Political Science) (Part Major)]

CO\PO	PO1 Knowledge	PO2 Analytical skills/Critical Evaluation	PO3 Effective Communication	PO4 Research Aptitude	PO5 Global Citizen	PO6 Civic Consciousness/civic engagement	PO7 Professional Ethics	PO8 Career	PO9 Life-Long learning	PO10 Application	PO11 Problem Solving	weightage	letter grade
CO1	✓				✓	✓		✓	✓			5	M
CO2	✓				✓	✓		✓	✓			5	M
CO3	✓					✓		✓	✓			4	M
CO4	✓					✓		✓	✓			4	M
CO5	✓					✓		✓	✓			4	M
CO6	✓					✓		✓	✓			4	M
CO7	✓	✓					✓	✓	✓	✓	✓	7	M
CO8	✓	✓	✓					✓	✓			5	M
CO9	✓	✓	✓					✓	✓			5	M
CO10	✓	✓	✓	✓				✓	✓			6	M
CO11	✓	✓	✓	✓	✓			✓	✓	✓		8	H
CO12	✓	✓	✓	✓	✓			✓	✓	✓		8	H

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Basantsing Institute of Science & J. T. Lalvani College of Commerce.
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Autonomous

Program Name: Bachelor of Arts [(B.A in Political Science (Part Major)]

PROGRAM OBJECTIVES

PO1: To equip the student with the core knowledge of the discipline of Political Science.

PO2: To develop critical thinking and analytical skills to reflect on national and international political issues and phenomena objectively.

PO3: To enhance effective communication and collaborative learning skills through group assignments, presentations, discussions, and debates.

PO4: To build a strong foundation for further study and the capability of utilizing research-oriented skills at various levels.

PO5: To cultivate them into an informed, reflective, active, and conscientious global citizen

PO6: To sensitize them about the civic engagements.

PO7: To inculcate professional ethics.

PO8: To prepare them for a variety of career-oriented programs.

PO9: To train the zest for lifelong learning.

PO10: To instill application skills.

PO11: To cultivate problem-solving skills.

COURSE OUTCOMES

CO1: Describe the brief history in the making of the Constitution.

-Critically assess the concepts and provisions pertaining to Citizenship, Fundamental Rights,

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Directive Principles of State Policy, Judicial Review, and Judicial activism.

CO2: Explain the ideology, structure, and programs of all the national and few regional political parties

-Examine the challenges facing the Indian political system, especially naxalism, terrorism, and criminalization of politics.

CO3: Explain the meaning of politics.

-Expound the concept of political obligation, grounds of political obligation, and different perspectives on right to resist.

CO4: Explain the different stages in the evolution of Public Administration

-Explain the concepts and theories on motivation and leadership. How can people in an organization be motivated towards their work and what kind of leadership skills are required in an organization?

CO5: Explain the concept of rights, distinguish between negative and positive rights, describe the evolution of rights and classification of rights, and evaluate various theories of rights.

-Reflect on conditions for the successful working of democracy and challenges to democracy

CO6: Explain how the Indian administration is a legacy of British rule?

-Reflect on the challenges to the Indian administration and the remedies

CO7: Explain the meaning, nature, and significance of public policy.

-Evaluate a public policy.

CO8: Examine why Machiavelli gave so much importance to pragmatism in statecraft.

-Critically assess Marxism.

CO9: Explain the scope and relevance of International Relations.

-Critically discuss different approaches to peace.

CO10: Analyse the movement for a separate State of Maharashtra.

-Comment on some of the contemporary social movements of Maharashtra.

CO11: Explain the key ideas of Ranade.

-Assess the rational views of Agarkar.

CO12: Critically analyze the determinants, principles, and objectives of India's foreign policy.

-Assess India's relations with the USA, Russia, and China.

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Basantsing Institute of Science & J. T. Lalvani College of Commerce
and Sheila Gopal Raheja College of Management.

Autonomous

Program Name: Bachelor of Arts [(B.A. Philosophy) (Part Major)]

CO\ PO	PO1 Apply Moral Reasoning	PO2 Reflect and Evaluate	PO3 Major Currents of Thought	PO4 Apply to Contemporary Issues	PO5 Analytical Skills to Solve Problems	PO6 Conceptual Competence	PO7 Read Primary Texts	PO8 Recognize and Respect Individuals and Cultures	PO9 Personal, Social, Civic and Environmental Responsibility	PO10 Apply to Real World Situations	PO11 Evaluating Valid and Sound Arguments	PO12 Questions on Nature of Being	PO13 Theories of Knowledge and Limits of Understanding	PO14 Examine Theories of Mind and Consciousness	PO15 Interdisciplinary	weightage	letter grade
CO1 APHI 101	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	15	H
CO2 APHI 201	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	15	H
CO3 APHI 301	√	√	√	√	√	√	√	√	√	√	√		√		√	13	H
CO4 APHI 302	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	15	H
CO5 APHI 401	√	√	√	√	√	√	√	√	√	√	√		√		√	13	H
CO6 APHI 402	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	15	H
CO7 APHI 501	√	√			√	√	√	√	√		√		√	√	√	12	H
CO8 APHI 502	√	√			√	√	√	√	√		√	√	√	√	√	12	H
CO9 APHI 503	√	√	√	√	√	√	√	√	√	√	√		√	√	√	14	H
CO 10 APHI 601	√	√	√	√	√	√	√	√	√		√	√	√	√	√	14	H

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Basantsing Institute of Science & J. T. Lalvani College of Commerce
and Sheila Gopal Raheja College of Management.

Autonomous

Program Name: Bachelor of Arts
[(B.A. Philosophy) (Part Major)]

CO\PO	PO1 Apply Moral Reasoning	PO2 Reflect and Evaluate	PO3 Major Currents of Thought	PO4 Apply to Contemporary Issues	PO5 Analytical Skills to Solve Problems	PO6 Conceptual Competence	PO7 Read Primary Texts	PO8 Recognize and Respect Individuals and Cultures	PO9 Personal, Civic and Environmental Responsibility	PO10 Apply to Real World Situations	PO11 Evaluating Valid and Sound Arguments	PO12 Questions on Nature of Being	PO13 Theories of Knowledge and Limits of Understanding	PO14 Examine Theories of Mind and Consciousness	PO15 Interdisciplinary	weightage	letter grade
CO11 APHI602	√	√	√	√	√	√	√	√	√		√	√	√	√	√	14	H
CO12 APHI603	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	15	H

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Basantsing Institute of Science & J. T. Lalvani College of Commerce.
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Autonomous

Program Name: Bachelor of Arts [(B.A in Philosophy (Part Major)]

PROGRAM OBJECTIVES

PO1: Train students about reasoning to contemporary ethical issues and moral problems.

PO2: Impart knowledge and evaluate their own ethical decisions, actions and practices, as well as on their obligations as morally responsible agents.

PO3: Make them aware about the major currents of thought in philosophy.

PO4: Sensitize them philosophical perspectives to contemporary issues.

PO5: Impart knowledge synthesize and evaluate ideas and apply analytical skills to solve problems.

PO6: Train them to develop conceptual competence, demonstrate vigor of logical inquiry, and produce clarity of expression.

PO7: Train to read, analyze and reflect on primary philosophical texts to formulate their own understanding.

PO8: Sensitize with respect of the beliefs, opinions and values of other individuals and cultures.

PO9: Make them aware of personal, social, civic, and environmental responsibility.

PO10: Sensitize them with values of many faiths as well as the connections between

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personal spirituality and global communities.

PO11: Inculcate knowledge about out of box thinking and interpretative skills.

PO12: Cultivate awareness towards values and ethics aiding a citizen for everyday life.

PO13: Train the global mindsets stressing on bridging theory to life experiences.

PO14: Construct and evaluate debates and arguments.

PO15: Inculcate knowledge on independent thinking.

COURSE OUTCOMES

CO1: Analyze the major moral philosophical schools of thought like Virtue Ethics, Deontological, and Utilitarianism and philosophers like Kant, Mill and Bentham.

CO2: Apply philosophical knowledge to real-world problems and contemporary issues.

CO3: Proficiency in critical thinking, including the ability to ask relevant questions, examine different sides of an issue, and recognize and evaluate arguments.

CO4: Implement concepts of social and political philosophy like society, community, family, gender, discriminations of caste and class.

CO5: Use theories regarding relation and responsibilities between individual and society, transitions of social change and progress.

CO6: Analyze philosophical debates around political themes. or write short expositional and critical essays in social and political thought.

CO7: Arguments for the existence and non-existence of God and the peculiarity of religious language.

CO8: Compare and contrast Eastern and Western approaches to religion and religious experience.

CO9: Examine the relationship between science and religion and evaluate the various challenges to religion.

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CO10: Define the , division, features of the Philosophy of Orthodox school and Heterodox Schools of Indian Philosophy.

CO11: Define the Epistemology, Metaphysics, Ethics and Logic of Classical Indian Schools of Thought.

CO12: Implement the role of interpretation of texts in deciding the position and key concepts, theories, and arguments of classical Indian philosophers and schools of thought.

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Basantsing Institute of Science & J. T. Lalvani College of Commerce
and Sheila Gopal Raheja College of Management.

Autonomous

Program Name: Bachelor of Commerce (B.Com in Accountancy)

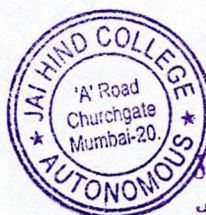| CO\PO	PO1 Knowledge	PO2 Application	PO3 Research Aptitude	PO4 Problem Solving	PO5 Academic Writing	PO6 Soft Skills	PO7 Prof Ethics	PO8 Environment Cons	PO9 Analytical skills /Cr	PO10 Life Long learning	TOTAL	Range
CO1 (FA1)	✓	✓		✓			✓		✓	✓	6	M
CO2 (FA1)	✓	✓	✓	✓			✓		✓	✓	7	M
CO3 (FA2)	✓	✓		✓			✓		✓	✓	6	M
CO4 (FA2)	✓	✓	✓	✓			✓		✓	✓	7	M
CO5 (FA3)	✓	✓		✓					✓	✓	5	M
CO6 (FA3)	✓	✓		✓					✓	✓	5	M
CO7 (MA)	✓	✓		✓					✓	✓	5	M
CO8 (MA)	✓	✓		✓					✓	✓	5	M
CO9 (FA4)	✓	✓		✓					✓	✓	5	M
CO10 (FA4)	✓	✓		✓					✓	✓	5	M
CO11 (AUDIT)	✓	✓		✓		✓	✓		✓	✓	7	M
CO12 (AUDIT)	✓	✓		✓		✓	✓		✓	✓	7	M
CO13 (FA5)	✓	✓	✓	✓			✓		✓	✓	7	M
CO14 (FA5)	✓	✓		✓			✓		✓	✓	6	M
CO15 (COST -	✓	✓		✓					✓	✓	5	M
CO16 (COST -	✓	✓		✓					✓	✓	5	M
CO17 (INCO	✓	✓		✓			✓		✓	✓	6	M
CO18(INCOM		✓		✓			✓		✓	✓	6	M
CO19 (BMA- I	✓	✓		✓					✓	✓	5	M
CO20 (BMA- I	✓	✓	✓	✓					✓	✓	0	M
CO21(FA6)	✓	✓		✓					✓	✓	5	M
CO22(FA6)	✓	✓		✓					✓	✓	5	M
CO23(COST - I	✓	✓		✓					✓	✓	5	M

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Basantsing Institute of Science & J. T. Lalvani College of Commerce
and Sheila Gopal Raheja College of Management.

Autonomous

Program Name: Bachelor of Commerce (B.Com in Accountancy)

CO\PO	PO1 Knowledge	PO2 Application	PO3 Research Aptitude	PO4 Problem Solving	PO5 Academic Writing	PO6 Soft Skills	PO7 Prof Ethics	PO8 Environment Cons	PO9 Analytical skills /Cr	PO12 Life Long learning	TOTAL	Range
CO24 (COST -	✓	✓		✓					✓	✓	5	M
CO25 (GST)	✓	✓		✓			✓		✓	✓	6	M
CO26 (GST)	✓	✓		✓					✓	✓	5	M
CO27 (BMA- I		✓	✓	✓					✓	✓	6	M
CO28 (BMA- I		✓		✓					✓	✓	5	M
CO29 (BK- I)	✓	✓		✓					✓	✓	5	M
CO30 (BK- I)	✓	✓		✓			✓		✓		5	M
CO31 (BK- II)	✓	✓		✓			✓		✓		5	M
CO32 (BK- II)	✓	✓		✓					✓		5	M

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Basantsing Institute of Science & J. T. Lalvani College of Commerce.
and Sheila Gopal Raheja College of Management.
Autonomous

Program Name: B.Com (Accountancy)

PROGRAMME OBJECTIVES:-

PO1. To train for reading books of accounts as per different accounting methods.

PO2. To inculcate knowledge to analyse the books of accounts of commercial organisations.

PO3. To make them aware about detecting errors and frauds in books of accounts.

PO4. To impart knowledge in describing and following the ethics in preparation of books of accounts at their workplace and in their own ventures.

PO5. To sensitize about compartmentalise incomes under different heads of income under Income Tax.

PO6. To impart knowledge on discussing the fall and rise of markets, economic conditions in research meets at the global level.

PO7. To sensitize society in a better manner.

PO8. To train about analyzing Accounting problems in a wide variety of areas.

PO9. To make students aware about rigorous accounting and ethical arguments.

PO10. To train to express themselves orally in an articulate, sound and well organised fashion.

Course outcome

CO1. Implement knowledge with the concept of Ledger & Trial Balance.

CO2. Discuss with the preparation of books of accounts of various commercial organisation.

CO3. Analyse Partnership Accounting with respect to Admission, Retirement and Death of a Partner.

CO4. Implement knowledge with Management accounting for business and logical flow of financial aspects.

CO5. Verify with the Vertical Format of Financial Statements.

CO6. use knowledge on Accounting Principles w.r.t. Translation of Foreign Currency; AS- 13: Investment Accounting; Preparation of Final Accounts of Companies and Ethical Behaviour for Accountants.

CO7. Evaluate with basic knowledge of cost accounting

CO8. Implement concepts of Material Cost, Labour Cost and Overhead Cost and their uses with respect to Different Cost Centres.

CO9. Analyse to the Income Tax Act, 1956 with its amendments till date.
CO10. Verify with various heads of Income of the Income Tax Act, 1956

CO11. Use knowledge about the advantages of vertical statements of accounts and how these help in decision making process at the Management level

CO12. Apply iknowledge in preparation of common size, comparative and trend statements and to develop analytical skill in interpretation of these.

CO13. Evaluate the basics of Book-Keeping & Accountancy.

CO14. Survey with the terms used in Company Accounts.

CO15. To get the students acquainted with the theoretical and practical aspects regarding redemption of preference shares.

CO16. Use knowledge on Mergers, its valuation in terms of Goodwill and Shares.

CO17. Compose theory with Process Costing, Marginal Costing Standard Costing and Contract Costing

CO18. Show and work on Goods and Service Tax (GST) structure in India.

CO19. Use the concept of capital budgeting and its importance in the decision making process.

CO20. Summerize with the need for offering credit in the operation of business enterprises and discuss and design various elements of credit policy.

CO21:To develop the skill of preparing annual reports.

CO22: Use knowledge on Accounting Principles w.r.t. Buyback of shares.

CO23: Preparation of Final Accounts of Companies and Ethical Behaviour for Accountants.

CO24: Use knowledge on Accounting Principles w.r.t. Process costing and marginal costing.

CO25: Use of knowledge w.r.t GST registration.

CO26: To understand the accounting oF GST for the entire country under a single tax regeim.

CO27: use knowledge on accounting principles and accounting standards related to managerial decisions.

CO28: to understand managerial, financial, operational data of companies performance to take quick and comprehensive decisions.

CO29. Implement knowledge with the concept of Ledger & Trial Balance in Bookkeeping.

CO30. Discuss with the preparation of books of accounts of various commercial organisation in Bookkeeping.
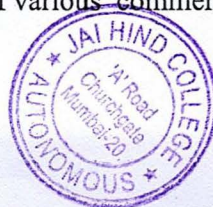
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CO31: To develop the skill of maintaining records.

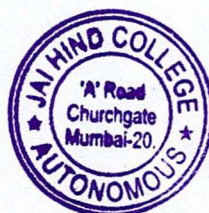CO32: To develop the mathematical skills.

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Program Name: Bachelor of Commerce (B.Com in Business Management)

CO\PO	PO1 Knowledge	PO2 Application	PO3 Research Aptitude	PO4 Problem Solving	PO5 Academic Writing	PO6 Soft Skills	PO7 Prof Ethics	PO8 Environment Consciousness/social Issues	PO9 Analytical skills/Critical Evaluation	PO10 Life Long learning	Weightage	Letter grade
CO1	✓	✓		✓				✓			4	M
CO2	✓	✓						✓	✓		4	M
CO3	✓			✓		✓	✓		✓		5	M
CO4	✓	✓	✓		✓		✓		✓		6	M
CO5	✓	✓		✓		✓		✓	✓		6	M
CO6	✓	✓							✓	✓	4	M
CO7	✓	✓	✓	✓	✓				✓		6	M
CO8	✓	✓	✓	✓	✓				✓		6	M
CO9	✓	✓	✓	✓			✓	✓	✓		7	M
CO10	✓	✓									2	L
CO11	✓	✓		✓			✓	✓	✓		6	M
CO12	✓	✓		✓					✓	✓	5	M
CO13	✓	✓		✓							3	L
CO14	✓	✓		✓		✓	✓		✓	✓	7	M
CO15	✓	✓		✓				✓		✓	5	M
CO16	✓	✓		✓				✓	✓		5	M
CO17	✓	✓		✓					✓		4	M
CO18	✓	✓	✓	✓				✓	✓		6	M
CO19	✓	✓		✓					✓		4	M
CO20	✓	✓	✓	✓					✓		5	M

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Basantsing Institute of Science & J. T. Lalvani College of Commerce.
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Autonomous

Program Name: B.COM (BUSINESS MANAGEMENT)

Program Objectives:

PO1: Provide students with a foundational understanding of the service sector, encompassing both conceptual knowledge and practical applications.

PO2: Foster the development of employability skills to prepare students for entry-level positions in diverse professional settings.

PO3: Equip students with a comprehensive understanding of business organizations, including their objectives, structures, and emerging trends.

PO4: Cultivate entrepreneurial skills to empower students in pursuing and managing their own ventures in the future.

PO5: Enhance students' project planning skills, emphasizing the ability to initiate and manage start-ups successfully.

PO6: Instill foundational knowledge in finance and quality management, preparing students for roles in these domains.

PO7: Strengthen employability skills specific to financial positions, ensuring readiness for diverse roles in the financial sector.

PO8: Increase students' awareness of nuances in finance, including the objectives and emerging trends shaping the industry.

PO9: Foster a deep understanding of practical methods for quality management, enabling students to contribute effectively in quality-focused roles.

PO10: Develop competencies required for employment in finance-related positions, ensuring readiness for the dynamic demands of the finance industry.

Course Outcomes:

CO1: use basic conceptual and applicative knowledge of the service sector.

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CO2: Develop employability skills essential for entry-level positions.

CO3: Acquire an understanding of business organizations, their objectives, and emerging trends.

CO4: Cultivate entrepreneurial skills for future ventures.

CO5: Enhance project planning skills, with a focus on start-ups.

CO6: Attain foundational knowledge in finance and quality management.

CO7: Strengthen employability skills relevant to financial roles.

CO8: sensitize awareness of nuances in finance, including objectives and emerging trends.

CO9: Foster a grasp of practical methods for quality management.

CO10: Develop competencies required for employment in finance-related positions.

CO11: Obtain a comprehensive understanding of human resource management concepts and applications.

CO12: Improve employability skills through specialized HRM training.

CO13: Develop a unique teaching and learning methodology for industry-relevant skill acquisition.

CO14: Gain practical experience and technical proficiency in HRM.

CO15: Acquire industry-level skill sets through a combination of theoretical and hands-on learning.

CO16: Analysing GreenHR practices and implementing the same in the dynamic business environment

CO17:Understanding HR needs of employees and taking breakthrough initiatives to fulfill them

CO18: Analysing importance for job enrichment and actively taking measures for increasing one's job enrichment

CO19 Understanding importance of Team work and acquiring the team building skills

CO20 Inculcating Research Aptitude to understand emerging HR concepts and helping employees to implement them
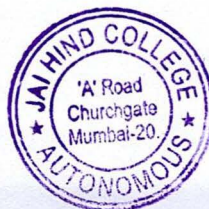
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Basantsing Institute of Science & J. T. Lalvani College of Commerce
and Sheila Gopal Raheja College of Management.

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Program Name: Bachelor of Commerce (B.Com Accounting and Finance)

CO\PO	PO1 Knowledge	PO2 Application	PO3 Research Aptitude	PO4 Problem Solving	PO5 Understanding	PO6 Soft Skills	PO7 Prof Ethics	PO8 Awareness	PO9 Analytical skills/Critical Evaluation	PO10 Entrepreneurial Skills	Weightage	Letter grade
CO1	✓	✓				✓		✓			4	M
CO2	✓	✓			✓	✓	✓	✓			6	M
CO3	✓	✓	✓	✓	✓			✓	✓	✓	8	H
CO4	✓	✓		✓	✓			✓			5	M
CO5	✓	✓		✓	✓			✓	✓	✓	7	H
CO6	✓	✓		✓	✓			✓	✓		6	M
CO7	✓	✓			✓		✓	✓	✓	✓	7	H
CO8	✓	✓		✓	✓	✓			✓	✓	8	H
CO9	✓	✓			✓			✓		✓	5	M
CO10	✓			✓	✓	✓		✓	✓	✓	9	H
CO11	✓	✓		✓	✓						4	M
CO12	✓	✓		✓	✓			✓	✓	✓	7	H
CO13	✓	✓		✓	✓			✓	✓		6	M
CO14	✓	✓		✓	✓			✓	✓	✓	7	H

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and Sheila Gopal Raheja College of Management.

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Program Name: Bachelor of Commerce (B.Com Accounting and Finance)

CO\PO	PO1 Knowledge	PO2 Application	PO3 Research Aptitude	PO4 Problem Solving	PO5 Understanding	PO6 Soft Skills	PO7 Prof Ethics	PO8 Awareness	PO9 Analytical skills/Critical Evaluation	PO10 Entrepreneurial Skills	Weightage	Letter grade
CO15	✓	✓		✓	✓			✓	✓	✓	7	H
CO16	✓	✓		✓			✓		✓		7	H
CO17	✓	✓		✓	✓		✓		✓	✓	8	H
CO18	✓	✓		✓	✓		✓		✓	✓	8	H
CO19	✓	✓		✓	✓		✓	✓	✓		7	H
CO20	✓	✓	✓	✓	✓		✓	✓	✓	✓	9	H
CO21	✓	✓	✓	✓	✓		✓	✓	✓	✓	9	H
CO22	✓	✓	✓	✓	✓			✓	✓		7	H
CO23	✓	✓		✓	✓			✓	✓	✓	7	H
CO24	✓	✓		✓	✓	✓		✓	✓		7	H
CO25	✓	✓		✓	✓			✓	✓	✓	7	H
CO26	✓	✓	✓	✓	✓			✓	✓		7	H
CO27	✓	✓		✓	✓			✓	✓		6	M
CO28	✓	✓	✓	✓	✓			✓	✓		6	M

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Basantsing Institute of Science & J. T. Lalvani College of Commerce
and Sheila Gopal Raheja College of Management.

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Program Name: Bachelor of Commerce (B.Com Accounting and Finance)

CO\PO	PO1 Knowledge	PO2 Application	PO3 Research Aptitude	PO4 Problem Solving	PO5 Understanding	PO6 Soft Skills	PO7 Prof Ethics	PO8 Awareness	PO9 Analytical skills/Critical Evaluation	PO10 Entrepreneurial Skills	Weightage	Leiter grade
CO29	✓	✓		✓	✓			✓	✓		6	M
CO30	✓	✓		✓	✓		✓	✓	✓	✓	8	H
CO31	✓	✓		✓	✓			✓	✓		6	M
CO32	✓	✓	✓	✓	✓		✓	✓	✓	✓	9	H
CO33	✓	✓		✓	✓		✓	✓	✓	✓	8	H
CO34	✓	✓		✓	✓		✓	✓	✓	✓	8	H
CO35	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	H
CO36	✓	✓		✓	✓			✓	✓		6	M
CO37	✓	✓		✓	✓		✓	✓	✓		7	H
CO38	✓	✓	✓	✓	✓			✓	✓	✓	8	H
CO39	✓	✓	✓	✓	✓		✓	✓	✓	✓	9	H
CO40	✓	✓		✓	✓			✓	✓	✓	7	H
CO41	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	H

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Basantsing Institute of Science & J. T. Lalvani College of Commerce.
and Sheila Gopal Raheja College of Management.
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Program name: Bachelor in Accounting and Finance

PROGRAM OBJECTIVES

PO1: Make students aware about various branches of accounting. Providing them with in-depth knowledge about Financial Accounting, Cost Accounting and Management Accounting. The course aims to enhance the familiarity of accounting treatment right from recording of transactions to preparation of final accounts.

PO2: Making students aware of how organizations acquire funds and use techniques to make sound decisions consequently making optimum financial decisions for the application of resources. Additionally, determine the valuation and returns on various investments and study methods to understand how companies reward their stakeholders.

PO3: Empower them with skill to have and thus the program has a designated subject so that the students understand the theoretical aspect of writing research papers and applying it practically. By covering an extensive project in their final year, the students not only use their research skills but also learn about interdisciplinary topics.

PO4: Familiarize students with the concepts relating to GDP and the Fiscal Policies of Indian Economy and the driving factors that affect the same. Giving the students an overview about the basics of statistics which are widely used in the business and finance sector. Further delving to develop quantitative skills and numerical abilities enhancing their logical reasoning and cognitive skills.

PO5: Acquaint students with the accounting procedures that are carried out by companies while raising capital as well as redemption of the same. Additionally, the course helps students understand the financial reporting of several financial and non-financial institutions.

PO6: Building the students' interpersonal and soft skills leading to an overall personality development with an efficiency in written and oral communication. Moreover, inculcate social awareness with respect to multicultural dimensions and shape their emotional intelligence. Students are prepared to handle the real-life situations that they would face in the corporate world.

PO7: Train students about the basics of auditing and develop an ethical sense while performing business operations. Further, the students will be introduced to an amateur level of business law which would enhance their legal knowledge.

PO8: Impart knowledge to enhance the students' awareness about the functioning of financial markets.

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Moreover, the students will be able to state the numerous instruments and securities that are traded in the Indian Markets.

PO9: prepare students to formulate strategies for organizations so as to give them an edge in the competitive market.

PO10: Train students' entrepreneurial spirit, ability and thought process leading them to come up innovative business ideas as well as helping them enhance their organizational skills giving them a clear perspective on the management and operational aspect of business. Furthermore, provide a practical approach of various management theories.

COURSE OUTCOMES

CO1: use knowledge on the importance of etiquettes in modern-day scenarios.

CO2: analyse socio-historical and contemporary power dynamics underpinning group relations, social institutions, and systems of representation.

CO3: To enhance entrepreneurial characteristics and develop the ability of analyzing and comprehending the business environment in which entrepreneurs' act.

CO4: To analyze multiple univariate and bivariate analyses like deviations, regression, and correlation.

CO5: Use knowledge among the students about principles, conventions and concepts of accounting. The subject would provide an introduction to certain fundamental Indian Accounting Standards.

CO6: Implement concept of a Cost Sheet and determine the categorization of numerous costs under suitable heads.

CO7: analyze the complex structure of a Capital Market while keeping in mind the regulations laid by SEBI for all Stock Exchanges in India.

CO8: frame flowwork on the process of a Group Discussion and the skills associated with it. CO9: To help

students understand organisational culture, building of the culture and maintaining them.

CO10: Use skills to check methods of Organising along with efficiently hiring and directing the right workforce to achieve organizational goals.

CO11: To perform algebraic functions, derivatives, and their application.

CO12: To classify the transactions involved in a consignment using the appropriate accounting treatment.

CO13: To use techniques of Marginal Costing in order to take efficient managerial decisions which would help attain the break-even point and aim for profits.

CO14 :To identify long term implications of an investment and ascertain the profitability of the same.

CO15: present with the essential laws governing various sectors of our economy starting with the Indian Contract Act 1872.

CO16: create a foundation of Information Technology by explaining how Networking through different Topologies takes place.

CO17: use knowledge in the understanding of contemporary trends in e-commerce with emphasis on evolution from traditional marketing to digital marketing.

CO18: To evaluate accounting treatment of conversion from a Partnership firm into a Company.

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CO19: recognize and classify items under different Schedules along with the list of exemptions.

CO20: frame different concepts of the Primary Market and numerous ways to raise funds.

CO21: analyse concepts of Cost of Capital and Capital Structure Decisions.

CO22: To identify the nature, scope and significance of research and research methodologies.

CO23: aware of Management Information System (MIS) and its importance.

CO24: To garner knowledge about the fundamentals of ethics and its importance in all kinds of organization.

CO25: To introduce the significance of management accounting for decision-making in a business.

CO26: differentiate various categories of stock and the factors that influence their prices in the markets.

CO27: To frame problems with the accounting procedures of Redemption of Preference Shares.

CO28: identify with the concepts of Inflation and measures to control the supply of Money in the economy.

CO29: use knowledge for the meaning of Underwriting and explains the legal provisions and the accounting process pertaining to it.

CO30: To compute the total taxable income of individuals.

CO31: To calculate how Insurance Companies manage their accounts while dealing with different types of Insurance

CO 32: To use the knowledge to understand processes related to the Portfolio Management along with the calculation of multiple Performance Indices, Risk and Return.

CO33: To provide an overview of the marketing function with an emphasis on creating value through marketing.

CO34: evaluate basic terminologies related to Human Resources, its objectives and importance.

CO35: To analyze and apply basics of research in research project.

C036: To frame Underwriting and, explain the legal provisions and the accounting process pertaining to it.

CO37: define on the various terms that are used in direct taxation.

CO38: To introduce the students to the International Financial Reporting Standards.

CO39: frame the terminologies and processes related to the Portfolio Management along with the calculation of multiple Performance Indices, Risk and Return.

CO40: To analyze marketing trends and perform marketing analytics using various methods

CO41: To analyze and apply basics of research in research project
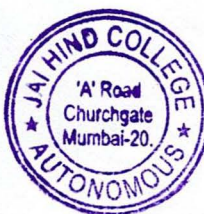
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Program Name: Bachelor of Commerce (B Com Banking and Insurance)

CO\PO	PO1 Knowledge	PO2 Application	PO3 Research Aptitude	PO4 Problem Solving	PO5 Understanding	PO6 Soft Skills	PO7 Prof Ethics	PO8 Awareness	PO9 Analytical skills/ Critical Evaluation	PO10 Entrepreneurial Skills	**	***
CO1	✓	✓				✓		✓			4	M
CO2	✓	✓			✓		✓	✓			5	M
CO3	✓	✓		✓	✓			✓	✓	✓	7	H
CO4	✓	✓		✓	✓			✓			5	M
CO5	✓	✓		✓	✓			✓			5	M
CO6	✓	✓		✓	✓			✓			5	M
CO7	✓	✓			✓			✓			4	M
CO8	✓	✓		✓	✓	✓		✓	✓	✓	8	H
CO9	✓	✓			✓			✓		✓	5	M
CO10	✓	✓		✓	✓	✓	✓	✓	✓		9	H
CO11	✓	✓		✓	✓			✓			5	M
CO12	✓	✓		✓	✓			✓	✓		6	M
CO13	✓	✓		✓	✓				✓		5	M
CO14	✓	✓		✓	✓			✓	✓	✓	7	H
CO15	✓	✓		✓	✓			✓	✓	✓	7	H
CO16	✓	✓		✓	✓		✓	✓	✓		7	H
CO17	✓	✓		✓	✓		✓	✓	✓	✓	8	H
CO18	✓	✓		✓	✓		✓	✓	✓	✓	8	H
CO19	✓	✓		✓	✓		✓	✓	✓		7	H
CO20	✓	✓		✓	✓			✓			5	M
CO21	✓	✓	✓	✓	✓			✓	✓		7	H
CO22	✓	✓	✓	✓	✓			✓	✓		7	H
CO23	✓	✓		✓	✓			✓	✓	✓	7	H
CO24	✓	✓		✓	✓		✓	✓	✓		7	H
CO25	✓	✓		✓	✓			✓			5	M
CO26	✓	✓		✓	✓			✓			5	M
CO27	✓	✓	✓	✓				✓	✓	✓	7	H
CO28	✓	✓		✓	✓			✓	✓		6	M
CO29	✓	✓		✓	✓			✓			5	M
CO30	✓	✓		✓	✓			✓	✓		6	M

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Basantsing Institute of Science & J. T. Lalvani College of Commerce
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Program Name: Bachelor of Commerce (B Com Banking and Insurance)

CO\PO	PO1 Knowledge	PO2 Application	PO3 Research Aptitude	PO4 Problem Solving	PO5 Understanding	PO6 Soft Skills	PO7 Prof Ethics	PO8 Awareness	PO9 Analytical skills/ Critical Evaluation	PO10 Entrepreneurial Skills	**	***
CO1	✓	✓				✓		✓			4	M
CO31	✓	✓		✓	✓			✓	✓		6	M
CO32	✓	✓	✓	✓	✓		✓	✓	✓	✓	9	H
CO33	✓	✓		✓	✓		✓	✓	✓	✓	8	H
CO34	✓	✓		✓	✓		✓	✓	✓	✓	8	H
CO35	✓	✓		✓	✓		✓	✓	✓	✓	8	H
CO36	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	H
CO37	✓	✓		✓	✓			✓	✓		6	M
CO38	✓	✓		✓	✓			✓			5	M
CO39	✓	✓		✓	✓			✓	✓		6	M
CO40	✓	✓	✓	✓	✓		✓	✓	✓	✓	9	H
CO41	✓	✓		✓	✓			✓	✓	✓	7	H
CO42	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	H

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==**Program Name: Bachelor in Baking and Insurance**==

==**PROGRAM OBJECTIVES**==

PO1: To inculcate knowledge among the students and equip them with the skills with which modern banking is run. Adequate exposure to the operational environment in the field of banking will be provided.

PO2: To train students with core concepts related to various branches of accounting including financial accounting, management accounting, and corporate accounting. Students will be familiarized with key topics such as cash flow analysis, bank reconciliation statement and balance sheet to make them proficient in all aspects related to the course.

PO3: To impart knowledge in understanding the theoretical aspects of writing research papers and to apply them effectively. Students apply their research skills and also learn about multidisciplinary issues by presenting a project in their final year.

PO4: To provide an insight into how governments of a developing economy handle various crises while ensuring progress, it also focuses on giving a better understanding of the functioning of various economic concepts and their real-life application. Moreover, it acquaints the students with an overview of the fundamentals of statistics, which are commonly employed in business and finance. Developing mathematical skills and numerical abilities, as well as logical reasoning and cognitive talents are an essential part of the program .

PO5: To instill a holistic understanding of today's society and develop an adaptable mindset by enhancing their core principles of ethics and empathy. In addition, the program underlines the development of critical thinking, professional writing skills, and effective oral communication. Enhance their team-building capabilities. Further structure their interpersonal and soft skills which will prepare them to tackle real-life situations in the corporate world.

PO6: To teach about human resource management in banking & insurance is to integrate the understanding of the human resources management framework with the management best practices, tools, and models.

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PO7: To impart knowledge on fundamentals of auditing and quality legal aspects of commerce & business. Moreover, they develop an ethical sense while doing business operations.

PO8: To train students about the Indian taxation system, as well as international tax legislation, is required. Complete knowledge of the Goods and Services Tax (GST) and its ramifications when conducting business. They will be well-versed in income tax, which they will be able to apply in the real world. Students will also have access to important information on international taxation.

PO9: To make them aware on developing trainees' analytical skills to identify risks and take reasonably diverse actions to manage them. Additionally, prepares students to strategize for organizations to give them an edge in a competitive market.

PO10: To train about instil entrepreneurship, skills, and thought processes to lead them to innovative business ideas as well as help them improve their organizational skills, helping them to have a clear vision of the world of management and operational aspects of the business. In addition, provides a practical approach to various management theories.

COURSE OUTCOMES

CO1: To implement knowledge on the importance of etiquettes in modern-day scenarios.

CO2: To analyse socio-historical and contemporary power dynamics underpinning group relations, social institutions, and systems of representation.

CO3: To develop the basic knowledge among the students about principles, conventions and concepts of accounting. The subject would provide an introduction to certain fundamental Indian Accounting Standards.

CO4: To establish an understanding of multiple univariate and bivariate analyses like deviations, regression, and co-relation.

CO5: To create a basic level understanding among students of the evolution, scope, and principles of the banking sector.

CO6: To implement the evolution of insurance and the act that all insurance companies need to comply with.

CO7: To use their knowledge with the production and cost structure under different stages of production.

CO8: To analyse the process of a Group Discussion and the skills associated with it.

CO9: To help students understand organisational culture, building of the culture and maintaining them.

CO10: To differentiate the importance and methods of Organising along with efficiently hiring and directing the right workforce to achieve organizational goals.

CO11: To create awareness among students about the role of important banking entities in India.

CO12: To differentiate how different types of life insurance policies cater to the different needs of individuals.

CO13: To perform algebraic functions, derivatives, and their application.

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CO14: To identify the functioning of Foreign Trade and Investments and, Balance of Payments.

CO15: To make the students familiar with the essential laws governing various sectors of our economy starting with the Indian Contract Act 1872.

CO16: To create a foundation of Information Technology by explaining how Networking through different Topologies takes place.

CO17: To apply higher level of knowledge in the understanding of contemporary trends in e-commerce with emphasis on evolution from traditional marketing to digital marketing.

CO18: To create awareness about the importance of liability insurance and public liability insurance in the everyday lives of individuals.

CO19: To infer the importance of customer relationship management in banks and its impact on the business.

CO20: To apply knowledge on awareness of the basic fundamentals of a financial market like its structure, intermediaries, and functions.

CO21: To define the significance of management accounting for decision-making in a business.

CO22 : To identify the nature, scope and significance of research and research methodologies.

CO23: To describe Management Information System (MIS) and its importance.

CO24: To use knowledge about the fundamentals of ethics and its importance in all kinds of organization.

CO25: To provide an overview on the various health insurance policies that are available in the market and how each of them caters to different needs of individuals.

CO26: To provide information on how the Indian rural banking industry works by telling them all about the financing techniques.

CO27: To impart knowledge about the various types of Private Equity and Placements that assist in raising capital.

CO28: To define procedure of buyback of shares and redemption of preference shares.

CO29: To implement about the important role NBFC's play in nation-building and help them pursue it as a lucrative field in the banking sector.

CO30: To use information on the Indian Microfinance sector by explaining the working of all MFIs from their sources of capital to the regulations they face.

CO31: To analyse International Financial Environment which includes Forex Markets and Financial markets.

CO 32: To define the terminologies and processes related to the Portfolio Management along with the calculation of multiple Performance Indices, Risk and Return.

CO33: To summrize overview of the marketing function with an emphasis on creating value through marketing.

CO34: To collate the basic terminologies related to Human Resources, its objectives and importance.

CO35: To compute the total taxable income of individuals.
CO36: To analyze and apply basics of research in research project.

C037: To give an in-depth explanation of the functions of Banking in the USA and the London Money Market.

CO38: To explain the working of the Reinsurance market in India.

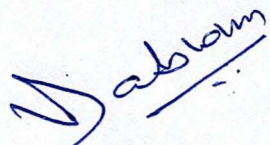CO39: To summerize how Insurance Companies manage their accounts while dealing with different types of
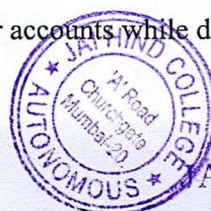
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Insurances.

CO40: To introduce the concept of risk management to students along with its process and impact on organizations.

CO41: To analyze marketing trends and perform marketing analytics using various methods

 CO42: To analyze and apply basics of research in research project.

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Program Name: Bachelor of Commerce (B Com Financial Markets)

CO\PO	PO1 Knowledge	PO2 Application	PO3 Research Aptitude	PO4 Problem Solving	PO5 Understanding	PO6 Soft Skills	PO7 Prof Ethics	PO8 Awareness	PO9 Analytical skills/ Critical Evaluation	PO10 Entrepreneurial Skills	WEIGHTAGE	LETTER GRADE
CO1	✓	✓				✓		✓			4	M
CO2	✓	✓			✓		✓	✓			5	M
CO3	✓	✓		✓	✓			✓	✓		6	M
CO4	✓	✓		✓	✓			✓	✓		5	M
CO5	✓	✓		✓	✓			✓	✓		6	M
CO6	✓	✓		✓	✓	✓	✓	✓		✓	9	H
CO7	✓	✓		✓	✓			✓			6	M
CO8	✓	✓		✓	✓	✓		✓	✓	✓	8	H
CO9	✓	✓			✓			✓		✓	5	M
CO10	✓	✓		✓				✓			5	M
CO11	✓	✓		✓	✓			✓			5	M
CO12	✓	✓		✓	✓			✓	✓		6	M
CO13	✓	✓		✓	✓			✓	✓	✓	7	H
CO14	✓	✓		✓	✓			✓	✓		6	M
CO15	✓	✓		✓	✓			✓	✓	✓	7	H
CO16	✓	✓		✓	✓		✓	✓	✓		7	H
CO17	✓	✓		✓	✓		✓	✓	✓	✓	8	H
CO18	✓	✓	✓	✓	✓			✓	✓	✓	8	H
CO19	✓	✓		✓	✓			✓	✓		6	M
CO20	✓	✓		✓	✓			✓	✓		6	M
CO21	✓	✓		✓	✓			✓	✓		6	M
CO22	✓	✓	✓	✓	✓			✓	✓		7	H
CO23	✓	✓		✓	✓			✓	✓	✓	7	H
CO24	✓	✓		✓	✓		✓	✓	✓		7	H
CO25	✓	✓	✓	✓	✓			✓	✓		7	H
CO26	✓	✓		✓	✓			✓			5	M
CO27	✓	✓		✓	✓			✓			5	M
CO28	✓	✓		✓	✓			✓	✓	✓	7	H
CO29	✓	✓		✓	✓			✓	✓		6	M
CO30	✓	✓	✓	✓				✓	✓	✓	8	H

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Basantsing Institute of Science & J. T. Lalvani College of Commerce
and Sheila Gopal Raheja College of Management.

Autonomous

Program Name: Bachelor of Commerce (B Com Financial Markets)

CO\PO	PO1 Knowledge	PO2 Application	PO3 Research Aptitude	PO4 Problem Solving	PO5 Understanding	PO6 Soft Skills	PO7 Prof Ethics	PO8 Awareness	PO9 Analytical skills/ Critical Evaluation	PO10 Entrepreneurial Skills	WEIGHTAGE	LETTER GRADE
CO01	✓	✓				✓		✓			4	M
CO31	✓	✓	✓	✓	✓			✓	✓		7	H
CO32	✓	✓	✓	✓	✓		✓	✓	✓	✓	9	H
CO33	✓	✓		✓	✓		✓	✓	✓	✓	8	H
CO34	✓	✓		✓	✓		✓	✓	✓	✓	8	H
CO35	✓	✓			✓		✓	✓	✓	✓	8	H
CO36	✓		✓		✓	✓	✓	✓	✓	✓	10	H
CO37	✓	✓	✓	✓	✓			✓	✓		7	H
CO38	✓	✓		✓	✓			✓	✓		6	M
CO39	✓	✓		✓	✓			✓	✓		6	M
CO40	✓	✓	✓	✓			✓	✓	✓	✓	9	H
CO41	✓	✓		✓	✓			✓	✓	✓	7	H
CO42	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	H

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Basantsing Institute of Science & J. T. Lalvani College of Commerce.
and Sheila Gopal Raheja College of Management.

Autonomous

Program Name: Bachelor in Financial Markets

PROGRAM OBJECTIVES

PO1: To inculcate knowledge with a detailed knowledge of subjects like financial markets, financial management, global economics, business etc.

PO2: To train students businesses and governments on how to meet their financial challenges. To provide students with the necessary theoretical and conceptual tools used in investment banking.

PO3: To train students to the basics of curating academically sound research papers and provide a practical viewpoint into making sound business decisions backed by seamlessly researched data.

PO4: To sensitize comprehensive insights into the practical application of various research analytical techniques to be able to make sound financial, business & social decisions backed by meticulously researched data.

PO5: To make them aware about the functioning of various segments of the capital markets and the role of the regulatory framework for the valuation of various investment avenues.

PO6: To train students to learn to be a team player and develop effective communication skills through reflective thinking and team management skills.

PO7: To make them aware about competency with a discerning knowledge of the legal aspects of commerce & business to be at par with the existing business standards.

PO8: To sensitize awareness about ethical and sustainable practices in the field of commerce and entrepreneurship.

PO9: To impart knowledge analytical and critical thinking and problem-solving skills by utilizing relevant accounting and financial data to solve complex business problems.

PO10: To implement knowledge and skills amongst students with reference to effective risk management strategies and techniques that can be employed in making significant business and investment decisions.

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COURSE OUTCOMES

CO1 To provide knowledge on the importance of etiquettes in modern-day scenarios.

CO2 To analyze socio-historical and contemporary power dynamics underpinning group relations, social institutions, and systems of representation.

CO3 To establish an understanding of multiple univariate and bivariate analyses like deviations, regression, and correlation.

CO4 To develop the basic knowledge among the students about principles, conventions and concepts of accounting. The subject would provide an introduction to certain fundamental Indian Accounting Standards.

CO5 To enhance entrepreneurial characteristics and develop the ability of analysing and comprehending the business environment in which entrepreneurs' act.

CO6 To define the theoretical and applied tools of the general principles of economics.

CO7 To provide an in-depth insight and conceptual understanding of the structure, organisation, and working of the financial system in India.

CO8 To summerize the process of a Group Discussion and the skills associated with it.

CO9 To help students understand organisational culture, building of the culture and maintaining them.

CO10 To create and disseminate knowledge to the students about the environment, sustainable energy, its protection and pollution control.

CO11 To perform algebraic functions, derivatives, and their application.

CO12 To implement rules with the regulations and features governing the various types of instruments available for trading in the secondary markets.

CO13 To define with the vital knowledge of the nature and importance of management; it's meaning, functions, level, importance, managerial roles and skills.

CO14 To use comprehensive understanding of all aspects relating to the presentation of financial statements of companies.

CO15 To analyse the essential laws governing various sectors of our economy starting with the Indian Contract Act 1872.

CO16 To create a foundation of Information Technology by explaining how Networking through different Topologies takes place.

CO17 To implrement a higher level of knowledge in the understanding of contemporary trends in e-commerce with emphasis on evolution from traditional marketing to digital marketing.

CO18 To introduce functions of personal finance by providing information that can be used to develop an overall financial plan and an understanding of critical areas where decisions should be made.

CO19 To make known the regulators and their frameworks for functioning in the money market..

CO20 To create an opportunity for students to acquire a high level of expertise in central areas of financial management of firms by increasing their familiarity with the practical applications of financial management.

CO21To provide comprehensive understanding of all aspects relating to the presentation of financial statements of companies

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CO22 To identify the nature, scope and significance of research and research methodologies.

CO23 To use Management Information System (MIS) and its importance.

CO24 To summerize about the fundamentals of ethics and its importance in all kinds of organization.

CO25 To convey the necessity of balance sheet ratios, revenue statement ratios, and combined ratios while trying to ascertain the current position of a business.

CO26 To analyze and interpret the profound impact of the commodities market and its participants on the smooth functioning of the Indian economy.

CO27 To use knowledge regarding the various classes of fixed income securities and their perks when raising long term debt.
CO28 To create awareness amongst students regarding vital mutual fund pricing strategies and investment management techniques.

CO29 To provide adequate knowledge about the practical aspects of trading and settlement of Futures and Options.

CO30 To summerize by giving an introduction and general understanding of investment banking activities and the mechanics and financial analysis required to value, negotiate and successfully close transactions.

CO31 To use knowlegde with the fundamentals of technical analysis; it's basic assumptions, strengths, weaknesses, different chart types and theories.

CO32 To evaluate with the three categories of alternative investment funds in India and the SEBI regulations governing them.

CO33 To use concepts of market segmentation, targeting, differentiation & positioning and the Marketing Mix

CO34 To define the basic terminologies related to Human Resources, its objectives and importance.

CO35 To compute the total taxable income of individuals.

CO36 To analyze and apply basics of research in research project.

C037 To identify the stock market indices that supplement traders and investors in their financial decisions.

CO38 To identify the market behaviours to ensure competent management of client portfolios in times of turmoil.

CO39 To gain insight into the drafting of financial statements for banking companies and accounting for transactions in foreign currency.

CO40 To Introduce to Efficient Market Theories, Arbitrage Pricing Theory (APT) and Capital Asset Pricing Model (CAPM).

CO41 To analyze marketing trends and perform marketing analytics using various methods

CO42 To analyze and apply the basics of research in a research project.

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Basantsing Institute of Science & J. T. Lalvani College of Commerce
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Autonomous

Program Name: Bachelor of Science (B.Sc. in Chemistry)

CO\PO	PO1 Knowledge	PO2 Concepts	PO3 Critical thinking and problem solving	PO4 Analytical Skills	PO5 Scientific skills	PO6 Life Long learning	PO7 Applications	PO8 Research apptitude	PO9 Safety	PO10 Methodologies and Techno-identification	PO11 Green Chemistry	PO12 Professional Ethics	PO13 Global Competences	PO14 Vocational Skills	PO15 Problem Solving	weightage	letter grade
CO1	✓	✓	✓	✓	✓	✓			✓				✓			8	M
CO2	✓	✓	✓			✓		✓	✓		✓		✓	✓	✓	11	H
CO3	✓	✓	✓	✓	✓	✓		✓	✓		✓		✓	✓	✓	12	H
CO4	✓	✓	✓	✓	✓		✓		✓			✓	✓			9	M
CO5	✓	✓	✓		✓	✓	✓			✓			✓	✓		8	M
CO6	✓	✓	✓	✓		✓	✓	✓		✓	✓		✓	✓	✓	12	H
CO7	✓	✓	✓	✓	✓	✓				✓		✓	✓			9	M
CO8	✓	✓	✓	✓	✓								✓	✓		7	M
CO9	✓	✓	✓		✓	✓		✓		✓						8	M
CO10	✓	✓	✓	✓	✓	✓		✓	✓		✓		✓	✓	✓	12	H
CO11	✓	✓	✓	✓	✓	✓				✓			✓	✓		11	M
CO12	✓	✓	✓		✓	✓	✓			✓			✓			10	M
CO13	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓			11	H
CO14	✓	✓	✓	✓	✓	✓	✓			✓			✓	✓	✓	13	H
CO15	✓	✓	✓	✓	✓	✓	✓			✓		✓	✓	✓	✓	13	H
CO16	✓	✓	✓	✓	✓	✓				✓		✓	✓			10	M
CO17	✓	✓	✓	✓	✓	✓			✓	✓	✓		✓			11	H
CO18	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	15	H
CO19	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	15	H
CO20	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	15	H
CO21	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓		14	H
CO22	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		✓	14	H
CO23	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓		13	H
CO24	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		14	H
CO25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	15	H
CO26	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		14	H
CO27	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓		13	H
CO28	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	15	H
CO29	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	14	H
CO30	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	15	H

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Basantsing Institute of Science & J. T. Lalvani College of Commerce.
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Autonomous

Program Name: Bachelor of Science (B.Sc in Chemistry)

PROGRAM OBJECTIVES:

PO1: To make students aware about fundamental concepts in various branches of chemistry.

PO2: To inculcate the core concepts involved in chemistry.

PO3: To train them to develop critical thinking & problem-solving skills in core areas of chemistry.

PO4: To enhance analytical skills and apply for enhancement of employability.

PO5: To enhance students in scientific and communication skills by involving in different activities such as Discussion Clubs, Scientific writing, Projects etc.

PO6: To train them about the importance of chemical science and its application related to environmental and social context as a pursuit of lifelong learning.

PO7: To develop the ability to design experiments to solve problems related to chemistry and other multidisciplinary areas.

PO8: To inculcate the research aptitude, scientific thinking and ethical sensibilities.

PO9: To implement standard safety procedures & techniques commonly used in laboratories.

PO10: To enhance knowledge suitable methodologies in order to conduct chemical synthesis, analysis, characterization or other chemical investigation.

PO11: To aware students with the principles of green chemistry as a good laboratory practice for the betterment of society.

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PO12: To sensitize them about modern technologies and instrumentations involved in recent developments in research and industries.

PO13: To inculcate knowledge appropriate chemical techniques relevant to academic, industrial, generic skills and global competencies.

PO14: To make them aware of laboratory skills in all major laboratory techniques and principles including instrumentation, synthesis, purification, analysis.

PO15: To train them to identify problems and generate hypotheses through various laboratory techniques & implement experimental methods to test hypotheses, and interpret the resulting data.

COURSE OUTCOMES:

CO1: Recall and discuss the fundamentals of thermodynamics.

CO2: Describe and illustrate the derivations to understand the spontaneity of reaction and predict the direction of movement of reaction based on the chemical potential.

CO3: Explain and appraise the concept of conducting solutions and the factors affecting conductivity.

CO4: Examine and solve the numericals based on thermodynamics and conductivity.

CO5: Classify and sketch the types of Electrochemical cells, Electrodes, cell notation and electrode potential.

CO6: Solve numericals based on EMF, Cell potential and feasibility of galvanic cells.

CO7: Define Laws of Photochemistry and quantum yield.

CO8: Identify the different types of reactions and processes involved in photochemistry.

CO9: Define basic terminology and fundamentals of spectrometry.

CO10: Distinguish between principles involved in various analytical instruments based on interactions.

CO11: Solve and Judge the Beer- Lambert's law and its deviations.

CO12: Construct block diagrams for instrumentation of single and double beam Colorimeters and Spectrophotometers.

CO13: Illustrate the various states of matter, the theoretical principles governing each state, determination of physical parameters and their practical applications.

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CO14: Determine different physical parameters and their practical applications.

CO15: Explain the theory of acids and bases and sparingly soluble salts.

CO16: Apply the theory of ionic equilibria for electrolytes.

CO17: Choose an appropriate experimentation method to determine the Surface tension and viscosity.

CO18: Differentiate between strong acids/bases and weak acids/bases in terms of ionization behaviour.

CO19: Create models of atoms, writing and balancing of chemical equations.

CO20: Explain the formation of chemical bonds, rules governing them, their types and the spatial arrangements leading to various molecular symmetries.

CO21: Explain the fundamentals of directional and non-directional bonding.

CO22: Evaluate the lattice energy using Born-haber cycle, Born-Lande's equation and Kapustinski equation.

CO23: Distinguish between various types of hybridization using valence bond theory.

CO24: Recognise wave mechanical treatment, LCAO-MO approach and interaction between two hydrogen atoms.

CO25: Construct Molecular orbital diagrams for Homo & Hetro diatomic species. 26. Recall trends in periodic properties of p-block chemistry.

CO27: Discuss and Examine trends in chemical reactivity such as acidic/basic behaviour of some representative oxides, hydroxides, halides and oxoacids of p-block.

CO28: State structure, bonding and properties of hydrides, oxides, oxoacids and halides of p block elements.

CO29: Describe synthesis of ammonia using Haber's process and sulphuric acid using Contact process.

CO30: Describe List terminology, types and tools used for titrimetric method of analysis.

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Basantsing Institute of Science & J. T. Lalvani College of Commerce.
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Autonomous

Program Name: Bachelor of Science (B.Sc. in Botany)

MAPPING OF PROGRAM OBJECTIVES WITH COURSE OUTCOMES

CO\PO	PO1 Knowledge	PO2 Application	PO3 Research Aptitude	PO4 Problem Solving	PO5 Academic Writing	PO6 Soft Skills	PO7 Prof Ethics	PO8 Environment Consciousness/social Issues	PO9 Analytical skills/Critical Evaluation	PO10 Life Long learning	weightage	letter grade
CO1	✔	✔	✔			✔	✔	✔		✔	7	M
CO2	✔	✔	✔	✔		✔	✔	✔		✔	8	H
CO3	✔	✔	✔		✔	✔	✔	✔		✔	8	H
CO4	✔	✔	✔	✔	✔	✔	✔	✔		✔	9	H
CO5	✔	✔	✔		✔	✔	✔	✔		✔	8	H
CO6	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	10	H
CO7	✔	✔	✔		✔	✔	✔	✔	✔	✔	9	H
CO8	✔	✔	✔		✔	✔	✔	✔		✔	7	H
CO9	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	10	H
CO10	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	10	H
CO11	✔	✔	✔	✔	✔	✔	✔	✔		✔	9	H
CO12	✔	✔	✔	✔	✔	✔	✔	✔		✔	9	H
CO13	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	10	H
CO14	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	10	H
CO15	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	10	H
CO16	✔	✔	✔		✔	✔	✔	✔		✔	8	H
CO17	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	10	H
CO18	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	10	H
CO19	✔	✔	✔	✔	✔	✔	✔	✔		✔	10	H
CO20	✔	✔	✔		✔	✔	✔	✔		✔	8	H

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Program Name: Bachelor of Science (B.Sc in Botany)

PROGRAM OBJECTIVES:

PO1: To develop knowledge in Botany

PO2: To inculcate their knowledge into Application

PO3: To empower students with Research aptitude

PO4: To train students with Problem Solving skills

PO5: To train with the concept of Academic Writing

PO6: To polish their Soft Skills in the form of Presentations, video making etc.

PO7: To sensitize students about the importance of Professional Ethics

PO8: To sensitize students for Environment Consciousness/social Issues

PO9: To make them understand and improve Analytical skills and Critically Evaluate scientific data

PO10: To help them in Life Long learning

COURSE OUTCOMES:

CO1: Differentiate between different divisions of Algae, Fungi and Bryophyta and make them useful economically.

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CO2: Evaluate, analyze the environmental problems and apply solutions along with adaptive plants in respective areas

CO3: Apply the knowledge of identification of toxic plants and their products in various fields.

CO4: Design various experiments to prove the efficacy of ethnobotanical data.

CO5: Differentiate and compare between different classes of algae, fungi, Bryophyta and understand their life-cycles as well as analyze and comment upon their medicinal and economic importance. They will understand their knowledge of Fossils in the evolution as well as fossilization process.

CO6: Differentiate between different instruments such as Spectrophotometer/Colorimeter as well as apply their knowledge of centrifugation in separation of pigments. They will also be able to predict genetic disorder through karyotyping and aberration studies.

CO7: Apply the knowledge to differentiate regions into different types of forests and their relevance to nature and mankind and also the economic aspects of the forest products and industrial and economic aspects of different plant-based products.

CO8: Classify plants according to the floral morphology and adaptations exhibited by the plants and economic importance of plant families

CO9: Implement the basic concepts in ecology of soil formation and its related factors and they will understand the concept of community ecology and be sensitized about the types of pollution and their impact on environment. with the help of case studies.

CO10: Analyse the strategies involved in gene cloning using different types of vectors as well as the role played by some important enzymes involved in recombinant DNA technology, sterilization and culturing techniques. This will have enhanced their research skills with the aid of projects.

CO11: Identifying and culturing techniques of microbes and apply in identify beneficial and pathogenic microbes. They will also be able to Understand different classes of bryophytes and also understand its evolutionary aspect and apply knowledge for its ecological significance.

CO12: Apply the knowledge of morphology in identification of plants as well as differentiate amongst various anomalies. they will also be able to apply their knowledge in pollen morphology in allergies as well as hybridization.

CO13: Summarize process of protein synthesis (transcription and translation) in both prokaryotes and eukaryotes and apply their physiological role in mechanism in secondary metabolites. They will also understand and comment on different methods of bioremediation and apply the knowledge to combat the major current day problem i.e. pollution.

CO14: Implement knowledge of column chromatography and apply the same for the separation of

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specific plant metabolites depending on its properties and also the knowledge of biotechnology and bioinformatics to understand current research articles on most recent developments in recombinant DNA technology. They will also understand its applications in the field of evolutionary studies, medicine and forensic science the significance and construction of genomic, chromosomal and c- DNA libraries and will be able to differentiate between these.

CO15: Manage and operate nurseries as well as fruit and vegetable gardens in a profitable way and comment on different methods of quick and economical propagation of commercial crops with the help of production of new hybrid varieties for better. They will also understand the commercial and market demand of the composition of various manures and fertilizers, thus solve the common problems encountered with soil fertility by optimum use of environment friendly fertilizers and suggest control measures for pests and diseases.
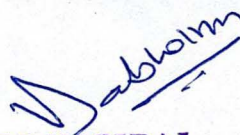
CO16: Differentiate and compare between different classes of Pteridophytes, Gymnosperms and angiosperms as well comment on their morphological and anatomical characteristics.

CO17: Correlate, compare and differentiate between different types of processes, hormones and genetic mutations and aberrations. Also, they will able to understand the threats and conserve biodiversity and combat environmental crisis through various methods.

CO18: Apply nanotechnology in various fields and also understand the properties and methods of extracting essential oils.

CO19: Suggest solutions in various intellectual property issues as well as adulteration. And also differentiate between nucleic acids and protein databases with various tools such as Bioinformatics

CO20: Implement entrepreneurial skills due to in-depth knowledge about crop cultivation & food preservation technology. The topic on landscape gardening will enlighten students about the importance of the need of space gardening and basic techniques involved in construction of different types of gardens.
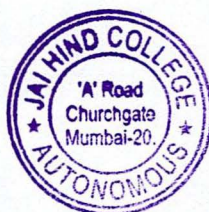
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Basantsing Institute of Science & J. T. Lalvani College of Commerce
and Sheila Gopal Raheja College of Management.

Autonomous

Program Name: Bachelor of Science (B.Sc. in Microbiology)

CO\PO	PO1 Know ledge	PO2 Applicati on	PO3 Research Aptitude	PO4 Problem Solving	PO5 Academic Writing	PO6 Soft Skills	PO7 Prof Ethics	PO8 Environment Consciousne ss/social Issues	PO9 Analytical skills/Critical Evaluation	PO10 Life Long learning	weight age	letter grade
CO1 (FYP 1)	✔	✔		✔			✔	✔			5	M
CO2 (FYP 2)	✔	✔		✔				✔		✔	5	M
CO3 (FY PR)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	10	H
CO4 (SY 1)	✔	✔	✔	✔		✔	✔		✔	✔	8	H
CO5 (SY 2)	✔	✔	✔	✔	✔	✔	✔		✔	✔	9	H
CO6 (SY 3)	✔	✔		✔	✔	✔	✔	✔		✔	8	H
CO7 (SY PR)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	10	H
CO8 (TYP 1)	✔	✔	✔	✔	✔	✔	✔	✔	✔		9	H
CO9 (TYP 2)	✔	✔	✔	✔		✔	✔	✔	✔	✔	9	H
CO10 (TYP 3)	✔	✔	✔	✔		✔		✔	✔	✔	9	H
CO11 (TYP 4)	✔	✔	✔	✔		✔	✔	✔	✔	✔	9	H
CO12 (TY AC)	✔	✔	✔	✔		✔		✔	✔	✔	9	H
CO13 (TY PR1)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	10	H
CO14 (TY PR2)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	10	H
CO15 (TY PR AC)	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	10	H

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Basantsing Institute of Science & J. T. Lalvani College of Commerce.
and Sheila Gopal Raheja College of Management.

Autonomous

Program Name: Bachelor of Science (B.Sc in Microbiology)

PROGRAM OBJECTIVES:

PO1: To acquire, retain and apply knowledge relevant to the diverse areas in Microbiology.

PO2: To train them in thinking rationally, communicate scientific concepts and demonstrate competency in Microbiology techniques.

PO3: To Develop skills of observation and draw logical conclusions from experiments.

PO4: Imbibe ethical and moral values to become good global citizens.

PO5: To Develop curiosity about various aspects in Microbiology and explore the subject to creatively solve problems.

PO6: To Nurture capability and confidence in students so they can be future leaders.

PO7: To Engage in the varied disciplines of Microbiology through research and internship activities.

PO8: To make students aware of verbal or non-verbal methods and tools of communication to present/convey scientific ideas and opinions.

PO9: To sensitize them in developing social consciousness and environmental awareness.

PO10: To help them in understanding the importance of lifelong learning and inculcate soft skills which will help them to achieve it.

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COURSE OUTCOMES:

CO1: To interrelate the different groups of microorganisms and their importance. Analyze and apply the importance of staining methods to visualize microorganisms and its significance. Evaluate the effective methods for microbial control and its importance.

CO2: To design Outline general properties, structure, biological and economic importance various groups of microorganisms and describe various culturing and preservation methods of microorganisms. Enlist the different methods of sterilization and their applications.

CO3: To analyze microbial diversity and their roles in various environments. Connect theoretical knowledge of microbiology with practical applications and an understanding the relevance of microbiological techniques in various scientific and industrial contexts.

CO4: To differentiate Understanding the principles of inheritance of genetic traits and solve problems based on Mendelian genetics, and ability to carry out pedigree analysis for genetic traits, cell metabolism and the molecular mechanism involved in it.

CO5: To revise their knowledge of various bioanalytical techniques and their applications in Microbiology. Interpretation of Research papers, improved ability to search, understand and interpret research data and understanding of use biostatistics in research.

CO6: To Comprehend the relation of microbes with the environment and their influence. Deeper understanding of principles of food spoilage and its impact on human health. Learn and apply bioprocessing techniques for large-scale cultivation of microorganisms in industrial fermenters.

CO7: To Evaluate wastewater quality and its acceptable standards. Practical knowledge of determination of various parameters important for microbial control and preservation in foods. Analysis and presentation of scientific data using Biostatistics.

CO8: To implement Knowledge of cellular structure and organization in eukaryotes. Learn and apply bioprocessing techniques for large-scale cultivation of microorganisms in industrial fermenters. Utilize bioinformatics tools for the analysis of microbial genomes. Interpret genomic data to gain insights into microbial genetics.

CO9: To analyze principles of microbial pathogenesis, including the mechanisms by which bacteria, viruses, fungi, and parasites cause diseases in humans. Comprehend the basic principles of immunology, including the structure and function of the immune system. Understand the cellular and molecular components of innate and adaptive immunity.

CO10: To apply fundamental biochemical principles and concepts applicable to microorganisms. Investigate the biosynthesis of cellular components, including nucleic acids, proteins, lipids, and cell wall components. Understand the regulatory mechanisms controlling biosynthetic pathways.

CO11: Gain proficiency in the principles and practices of fermentation technology for the production of various industrial products, including antibiotics, enzymes, biofuels, and organic acids. Acquire
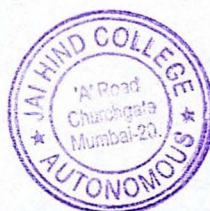
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knowledge of downstream processing techniques for the isolation, purification, and recovery of microbial products from fermentation broths and understand the safety and ethical aspects involved in fermentation technology.

CO12: To monitor the chemical composition of food components, including proteins, lipids, carbohydrates, vitamins, and minerals. Comprehend the reactions and changes that occur during food processing. Explore and understand various food processing methods, such as thermal processing, drying, freezing, and fermentation.

CO13: To judge the effect of gene mutations and its detection techniques. Understanding of detection and diagnosis of infectious diseases and demonstrating the ability to interpret results. Enhanced ability to analyze clinical case studies, interpret laboratory findings, and prepare comprehensive reports, enhancing their ability to communicate scientific information.

CO14: To analyze metabolic pathways, enzyme kinetics and assays. Practical application of microbial strain improvement experiments, applying mutagenesis or genetic
engineering to enhance microbial strains for improved fermentation performance and better ability in troubleshooting common issues in fermentation technology.

CO15: To Demonstrate skills in culturing microorganisms for specific food production purposes, such as the production of yogurt or cheese. Understand and apply various packaging techniques to ensure the safety and shelf life of food products. age in fermentation processes for the production of fermented foods, including monitoring microbial activity and controlling fermentation conditions.

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Autonomous

Program Name: Bachelor of Science (B.Sc. in Mathematics)

CO\PO	PO1 Knowledge	PO2 Application	PO3 Research Aptitude	PO4 Problem Solving	PO5 Academic Writing	PO6 Soft Skills	PO7 Prof Ethics	PO8 Environment Consciousness/social Issues	PO9 Analytical skills/Critical Evaluation	PO10 Life Long learning	weightage	letter grade
CO1	√	√		√					√	√	5	M
CO2	√	√		√					√	√	5	M
CO3	√	√		√					√	√	5	M
CO4	√	√		√					√	√	5	M
CO5	√	√		√					√	√	5	M
CO6	√	√		√					√	√	5	M
CO7	√	√		√					√	√	5	M
CO8	√	√		√					√	√	5	M
CO9	√	√		√					√	√	5	M
CO10	√	√		√					√	√	5	M
CO11	√	√		√					√	√	5	M
CO12	√	√		√					√	√	5	M
CO13	√	√		√					√	√	5	M
CO14	√	√		√					√	√	5	M
CO15	√	√		√					√	√	5	M
CO16	√	√		√					√	√	5	M
CO17	√	√		√					√	√	5	M
CO18	√	√		√		√			√	√	6	M
CO19	√	√		√		√			√	√	6	M
CO20	√	√		√					√	√	5	M
CO21	√	√		√					√	√	5	M
CO22	√	√		√		√			√	√	6	M
CO23	√	√		√					√	√	5	M
CO24	√	√		√					√	√	5	M
CO25	√	√		√					√	√	5	M
CO26	√	√		√		√			√	√	6	M
CO27	√	√		√		√			√	√	6	M
CO28	√	√		√					√	√	5	M
CO29	√	√		√					√	√	5	M
CO30	√	√		√		√			√	√	6	M

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PROGRAM OBJECTIVES:

PO1: To Inculcate interest in learning Mathematics.

PO2: To Create a strong mathematical background.

PO3: To Demonstrate the fundamental abstract topics.

PO4: To make them familiar with key concepts and ideas.

PO5: To Introduce the notions of rigor and proof.

PO6: To Develop critical thinking.

PO7: To Develop analytical reasoning

PO8: To enhance their ability to recognize the patterns.

PO9: To generate the ability to solve problems.

PO10: To help students gain self-awareness and spirituality by spending more time with nature.

PO11: To make them skill to apply mathematical methods and procedures in the Mathematical related fields.

PO12: To embark knowledge of software to aid in problem solving.

PO13: To Motivation towards higher studies and research.

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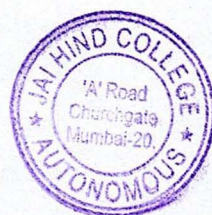
PO14: To Enhance the scope of employability.

PO15: To make them awareness towards professional ethics and responsibility.

COURSE OUTCOMES:

CO1: Describe different properties of the real line. Analyze convergent and Cauchy sequences.

CO2: Identify the functions which are injective, surjective, or bijective. Apply the modular arithmetic to solve problems. Use Fundamental theorem of Arithmetic to find GCD and LCM.

CO3: Recall and apply the concepts. Identify the patterns in the given problems. Analyze the problems.

CO4: Apply the concepts of continuous and differentiable functions and their properties in solving problems.

CO5: To solve system of equations and polynomials and their roots.

CO6. Apply the concepts and identify the patterns in the given problems. Analyze the problems.

CO7: Apply different tests to find convergence or divergence of a series. Distinguish the conceptual variations while advancing from one variable to several variables.

CO8: Evaluate vector spaces and their properties and Relate matrices and linear transformations.

CO9: Summarize the basic terms of statistics such as measures of central tendency and dispersion. Recall the concept of probability and study probability distributions.

CO10: Apply the concepts and identify the patterns in the given problems. Analyze the problems.

CO11: Identify Riemann Integrable functions and their properties. Apply the fundamental theorems of integration.

CO12: To implement properties of inner product spaces and Compute Eigenvalues and Eigenvectors of linear transformations.

CO13: To Hypothesis Testing and Apply central limit theorem. Understand supervised and unsupervised machine learning.

CO14: Identify the patterns in the given problems. Analyze the problems.

CO15: Calculate line integral, surface integral, volume integral. Identify the importance of Green, Gauss and Stokes' theorem in problem solving.

CO16: Recognize and implement the mathematical objects called Groups. Learn the notions of
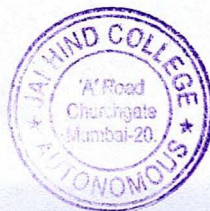
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cosets, normal subgroups, and factor groups. Analyze consequences of Lagrange's theorem.

CO17: Describe several concepts of metric spaces and their properties. Understand the concepts such as open and closed set, interior, closure, and boundary.

CO18: Understanding Data Warehousing, Data mining. Apply various algorithms in supervised and unsupervised machine learning to real world problems.

CO19: Understand basic structures of the python and R-programming. Develop concise programs.

CO20: Apply the concepts of the concepts of theorem

CO21: Organize and relate similar problems

CO22: Judge the problems and find the solution

CO23: Summarize the basic concepts of complex analysis like analytic functions and harmonic functions.

CO24: Describe rings, ideals, integral domains, fields

CO25: Develop idea about compactness and connectedness of metric spaces.

CO26: Compose the image processing through Convolution Neural Networks.

CO27: Extract and import packages for developing python programming.

CO28: Implement the problems in real world objects using the concept of OOPS.

CO29: Use continuous functions to describe the structure of metric spaces.

CO30: Determine integrals using Cauchy's Integral formula.

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Autonomous

Program Name: Bachelor of Science (B.Sc. in Physics)

CO\PO	PO1 Know ledge	PO2 Applicati on	PO3 Research Aptitude	PO4 Problem Solving	PO5 Academic Writing	PO6 Soft Skills	PO7 Prof Ethics	PO8 Environment Consciousne ss/social Issues	PO9 Analytical skills/Critical Evaluation	PO10 Life Long learning	weightag e	letter grad e
CO1	√	√		√					√	√	4	M
CO2	√	√		√					√	√	4	M
CO3	√	√		√	√	√	√	√		√	8	H
CO4	√	√		√					√	√	4	M
CO5	√	√		√						√	3	M
CO6	√	√		√	√	√	√	√		√	8	H
CO7	√	√		√						√	3	M
CO8	√	√		√					√	√	4	M
CO9	√	√	√	√	√	√	√	√		√	9	H
CO10	√	√	√	√	√	√	√	√		√	9	H
CO11	√	√		√					√	√	4	M
CO12	√	√		√						√	3	M
CO13	√	√	√	√	√	√	√	√		√	9	H
CO14	√	√	√	√	√	√	√	√		√	9	H
CO15	√	√		√					√	√	4	M
CO16	√	√		√		√			√	√	5	M
CO17	√	√	√	√						√	4	M
CO18	√	√		√					√	√	4	M
CO19	√	√		√	√	√	√	√		√	8	H
CO20	√	√		√	√	√	√	√		√	8	H
CO21	√	√		√	√	√	√	√		√	8	H
CO22	√	√		√	√	√	√	√		√	8	H
CO23	√	√		√					√	√	4	M
CO24	√	√	√	√						√	4	M
CO25	√	√		√				√		√	4	M
CO26	√	√		√					√	√	4	M
CO27	√	√		√	√	√	√	√		√	8	H
CO28	√	√		√	√	√	√	√		√	8	H
CO29	√	√		√	√	√	√	√		√	8	H
CO30	√	√		√	√	√	√	√		√	8	H

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Basantsing Institute of Science & J. T. Lalvani College of Commerce.
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Autonomous

PROGRAM OBJECTIVES:

PO1: To inculcate various scientific and research problems.

PO2: To train and manage research work and design of experimental setups / electronic circuits / theoretical problems.

PO3: To develop ideas on Compare/ differentiate between the formulation/ applications of the laws of Classical as well as Quantum Physics through scientific reasoning.

PO4: To inculcate knowledge in physics principles to explain natural and physical phenomena.

PO5: To prepare students for professional ethics and norms of scientific development.

PO6: To train students to Communicate effectively in both verbal and written forms.

PO7: To make them aware about Function individually and in teamwork.

PO8: To engage students for practice of lifelong learning of physics.

PO9: To train students to modern ICT tools and software / simulators, and programming languages.

PO10: To sensitize students for applying the physics knowledge in competitive exams at national/international levels.

COURSE OUTCOMES:

CO1: Apply Newton's laws, write the balance of force and solve the equation of force and first law of

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thermodynamics to physical situation and study the effect.

CO2: Use of fluid dynamics Enhance problem forming and problem-solving skills

CO3: Differentiate between scalar and vector fields. and Apply divergence and curl of vector fields to physical situations and capable to and describe the properties of nuclei.

CO4: Analyze basic electrical network theorems and basic electronic components and use them to design simple electronic circuits 3.

CO5: Draw input output characteristics of CB, CE, CC mode also Recognizes half-wave, full-wave and bridge rectifier circuits and explains the operation of these circuits

CO6: Apply list applications of optical fibre and Describe properties of laser beam

CO7: Comprehend the concepts of diffraction, polarization and digital circuits. and

CO8: Apply them in their observations/experiments.

CO9: Analyze research problems involved in optics and binary arithmetic.

CO10: Interpret applications of quantum mechanics in atomic physics and Construct space quantization, energy spectrum and energy level diagrams and differentiate between rotational, electronic, Raman and microwave spectroscopy.

CO10: Implement special techniques to solve problems in electrostatics such as Gauss law, Laplace's equations, Method of images

CO11: Analyze the effect of electromagnetic fields in material medium and Understand Ampere's Law for magnetized materials, Maxwell's equations, displacement current and magnetization

CO12: Apply Maxwell's equations to obtain electromagnetic wave equation, energy and momentum.

CO13: Describe the properties of magnetic materials

CO14: Calculate the magnetic fields and magnetization of magnetized materials.

CO15: Apply to the basic mathematical concepts.

CO16: Apply differential equations for physical situations and recognize and use a mathematical oscillator equation and wave equation

CO17: Comprehend the principle of superposition of waves.

CO18: Describe several phenomena which we observe every day that can be explained using wave phenomena

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CO19: Differentiate between various types of waves and Construct Lissajous figures

CO20: Develop problem solving skills for competitive examinations

CO21: Comprehend the basic concepts in vector differentiation, vector calculus, spherical and cylindrical coordinates.

CO22: Apply these concepts in various problems in Physics and Understand the methods of transistor biasing and types of amplifiers and oscillators and feedback.

CO23: Characterize the properties of OP-AMPS and distinguish the different types of amplifiers, oscillators and OP-AMP configurations.

CO24: Practice the concepts learned in the laboratory as well as real-life situations

CO25: Explain nuclear structure.

CO26: Derive the properties of nucleus from various nuclear models Formulate theory of alpha, beta and gamma decay

CO27: Develop basic knowledge of elementary particles and quark model.

CO28: Differentiate between fusion and fission

CO29: Construct decay schemes

CO30: Compare particle accelerators

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Basantsing Institute of Science & J. T. Lalvani College of Commerce
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Autonomous

Program Name: Bachelor of Science (B.Sc. in Life Sciences)

CO\PO	PO1 Knowledge	PO2 Application	PO3 Research Aptitude	PO4 Problem Solving	PO5 Academic Writing	PO6 Soft Skills	PO7 Prof Ethics	PO8 Environment Consciousness/social Issues	PO9 Analytical skills/Critical Evaluation	PO10 Life Long learning	weightage	letter grade
CO1 (FY Paper 1)	✓	✓		✓		✓	✓		✓	✓	7	M
CO2 (FY Paper 2)	✓	✓	✓	✓		✓	✓		✓	✓	8	H
CO3 (FY Practials)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	H
CO4 (SY Paper 1)	✓	✓		✓		✓	✓		✓	✓	7	M
CO5 (SY Paper 2)	✓	✓	✓	✓	✓	✓	✓		✓	✓	9	H
CO6 (SY Paper 3)	✓	✓	✓	✓	✓				✓	✓	7	M
CO7 (SY Practical)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	H
CO8 (TY Paper 1)	✓	✓	✓	✓		✓	✓	✓	✓		8	H
CO9 (TY Paper 2)	✓	✓	✓	✓		✓	✓		✓	✓	8	H
CO10 (TY Paper 3)	✓	✓		✓	✓	✓	✓	✓	✓		8	H

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and Sheila Gopal Raheja College of Management.

Autonomous

Program Name: Bachelor of Science (B.Sc. in Life Sciences)

CO\PO	PO1 Knowledge	PO2 Application	PO3 Research Aptitude	PO4 Problem Solving	PO5 Academic Writing	PO6 Soft Skills	PO7 Prof Ethics	PO8 Environment Consciousness/social Issues	PO9 Analytical skills/Critical Evaluation	PO10 Life Long learning	weightage	letter grade
CO11 (TY Paper 4)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	H
CO12(TY Practical Paper 1 & 2)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	H
CO13 (TY Paper 3 and 4)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	H

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Basantsing Institute of Science & J. T. Lalvani College of Commerce.
and Sheila Gopal Raheja College of Management.

Autonomous

Program Name: <u>Bachelor of Science (B.Sc in Life Sciences)</u>

<u>PROGRAM OBJECTIVES:</u>

PO1: To equip the students with the knowledge of key processes during development of an organism both at cellular and molecular levels.

PO2: To Develop an interdisciplinary program focused on applying advanced life science principles, including genomics, bioinformatics, and biotechnology to address real-world challenges in health, agriculture, and environmental sustainability.

PO3: To cultivate and enhance research aptitude in Life Sciences by providing a structured program that integrates theoretical knowledge with hands-on practical experience.

PO4: To engage participants in complex social issues in biological research to develop a framework that develops problem-solving skills and enables critical thinking diversity, rigorous research and innovative thinking to tackle different problems across different fields.

PO5: To develop academic writing skills specially designed for biology, so that participants can present scientific concepts, research findings, and experimental methods.

PO6: To prepare the student to meet professional challenges.

PO7: To nurture students into responsible citizens who are socially and environmentally sensitive and aware of most basic domain-independent knowledge.

PO8: To nurture students into responsible citizens who are socially and environmentally sensitive and aware of most basic domain-independent knowledge.

PO9: To develop critical thinking, logical reasoning, research ethics among the students and inculcate

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research-oriented thinking.

PO10: To help students gain self-awareness and spirituality by spending more time with nature.

COURSE OUTCOMES:

CO1: Differentiate between prokaryotic and eukaryotic cells and apply techniques to study their biomolecules.

CO2: Analyze the different physiological systems and of the human body.

CO3: Develop practical hands-on skills in Life Sciences at Molecular and cellular levels

CO4: Develop in depth knowledge of cell signalling and behavioural adaptations found in animals and plants and apply it in varying fields.

CO5: Summerize the basics of biochemical pathways and mechanisms of metabolism.

CO6. Identify major evolutionary changes over time, apply different biostatistics tools in research and basics of Bioinformatics.

CO7: Develop practical hands-on skills in Evolution, Biostatistics and Bioinformatics.

CO8: Implement the knowledge of the organization of genome and conceptualize the basics mechanisms of immunology.

CO9: Describe model organisms and landmark discoveries in research related to developmental biology and to Perceive concepts concerning the parts of the nervous system.

CO10: Understand the various concepts of fermentation and Apply strategies of cloning, screening, and selection methods.

CO11: Articulate the interdisciplinary context of environmental issues, and toxicology management and to Understand the perspectives and concerns related to safety and health hazards.

CO12: Integrate practical hands-on skills in Genetics, Immunology and Developmental Biology and Neurobiology.

CO13: Develop practical hands-on skills in Genetic Engineering, Fermentation and Environmental Biology.

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Basantsing Institute of Science & J. T. Lalvani College of Commerce
and Sheila Gopal Raheja College of Management.

Autonomous

Program Name: Bachelor of Science (B.Sc. Biotechnology)

CO\PO	PO1 Knowledge	PO2 Application	PO3 Research Aptitude	PO4 Problem Solving	PO5 Academic Writing	PO6 Soft Skills	PO7 Prof Ethics	PO8 Environment Consciousness/social Issues	PO9 Analytical skills/Critical Evaluation	PO10 Life Long learning	weightage	letter grade
CO1	✓		✓	✓		✓		✓	✓	✓	7	H
CO2	✓	✓		✓					✓	✓	5	M
CO3	✓	✓	✓	✓				✓		✓	6	M
CO4	✓	✓	✓	✓	✓		✓	✓			7	H
CO5	✓	✓	✓	✓			✓	✓	✓	✓	8	H
CO6	✓	✓	✓	✓					✓		5	M
CO7	✓	✓	✓	✓	✓				✓	✓	7	H
CO8	✓	✓	✓	✓	✓				✓		6	M
CO9	✓	✓	✓	✓	✓				✓	✓	7	H
CO10	✓	✓	✓	✓				✓		✓	6	M
CO11	✓	✓	✓	✓				✓	✓	✓	7	H
CO12	✓	✓		✓	✓			✓	✓	✓	7	H
CO13	✓	✓	✓	✓		✓		✓	✓	✓	8	H
CO14	✓		✓	✓					✓	✓	5	M
CO15	✓	✓	✓	✓				✓	✓	✓	7	H
CO16	✓	✓	✓	✓		✓			✓	✓	7	H
CO17	✓	✓	✓	✓		✓		✓		✓	7	H
CO18	✓	✓	✓	✓	✓		✓	✓	✓		8	H
CO19	✓	✓	✓	✓						✓	5	M
CO20	✓	✓						✓	✓	✓	5	M
CO21	✓	✓	✓	✓	✓			✓	✓	✓	8	H
CO22	✓	✓	✓	✓				✓	✓		6	M
CO23	✓	✓	✓		✓	✓	✓		✓	✓	8	H
CO24	✓	✓		✓					✓	✓	5	M
CO25	✓	✓	✓	✓	✓	✓			✓		7	H
CO26	✓	✓	✓	✓	✓	✓			✓	✓	8	H
CO27	✓	✓	✓	✓	✓					✓	6	M
CO28	✓	✓	✓	✓	✓		✓				6	M
CO29	✓	✓	✓	✓				✓	✓	✓	7	H
CO30	✓	✓	✓		✓	✓	✓		✓	✓	8	H
CO31	✓	✓		✓					✓	✓	5	M
CO32	✓	✓	✓	✓	✓	✓			✓		7	H
CO33	✓	✓	✓	✓	✓	✓			✓	✓	8	H
CO35	✓	✓	✓	✓	✓				✓	✓	7	H

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Basantsing Institute of Science & J. T. Lalvani College of Commerce
and Sheila Gopal Raheja College of Management.

Autonomous

Program Name: Bachelor of Science (B.Sc. Biotechnology)

CO\PO	PO1 Knowledge	PO2 Application	PO3 Research Aptitude	PO4 Problem Solving	PO5 Academic Writing	PO6 Soft Skills	PO7 Prof Ethics	PO8 Environment Consciousness/social Issues	PO9 Analytical skills/Critical Evaluation	PO10 Life Long learning	weightage	letter grade
CO36	✓	✓	✓	✓				✓	✓		6	M
CO37	✓	✓	✓	✓				✓		✓	6	M
CO38	✓	✓	✓		✓	✓	✓			✓	7	H
CO39	✓	✓		✓		✓				✓	5	M
CO40	✓	✓	✓	✓	✓	✓					6	M
CO41	✓		✓	✓	✓	✓			✓	✓	7	H
CO41	✓	✓	✓	✓	✓		✓			✓	7	H
CO43	✓	✓	✓	✓				✓	✓		6	M
CO44	✓	✓	✓		✓	✓	✓		✓	✓	8	H
CO45	✓	✓		✓			✓		✓	✓	6	M
CO46a	✓	✓	✓		✓	✓			✓		6	M
CO46b	✓	✓	✓		✓	✓			✓	✓	7	H
CO47	✓		✓	✓	✓		✓			✓	6	M
CO48	✓			✓	✓				✓	✓	5	M
CO49	✓		✓	✓	✓	✓			✓	✓	7	H
CO50	✓	✓	✓		✓	✓			✓	✓	7	H
CO51	✓	✓	✓	✓	✓				✓	✓	7	M
CO52	✓	✓	✓	✓	✓		✓	✓		✓	8	H

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Basantsing Institute of Science & J. T. Lalvani College of Commerce.
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Autonomous

Program Name: Bachelor of Science (B.Sc in Biotechnology)

PROGRAM OBJECTIVES:

PO1: To develop knowledgeable and skilled Biotechnologists who have an in-depth understanding of the latest developments in the field.

PO2: To equip the student with the ability to apply skills learnt into practice.

PO3: To instill and nurture research aptitude, ability to read and understand Scientific literature amongst young graduates.

PO4: To inculcate entrepreneurial interests, innovative thinking and problem-solving aptitude such that more employment opportunities are generated in the field of Biotechnology and allied fields.

PO5: To empower students with soft skills like written and academic write up

PO6: To empower students with verbal communication.

PO7: To help students towards being ethically responsible citizens.

PO8: To sensitize students on Environmental issues like types of pollution, Conservation of natural resources, Bioremediation, Sustainable Development, Respect for Biotic as well as Abiotic factors.

PO9: To inculcate entrepreneurial interests, innovative thinking and problem-solving aptitude such that more employment opportunities are generated in the field of Biotechnology and allied fields.

PO10: To enable students to live a healthy lifestyle by making informed decisions regarding choices towards health and implement lifelong learning.

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CO1: Develop conceptual knowledge and problem solving regarding different products and provide a detailed insight about the recent research so that knowledge can be used to write research paper.

CO2: Implement concepts of Homozygosity, heterozygous, Allele, and Learn the concept of karyotype analysis and identification of genetic abnormalities.

CO3: Explain the concept of genetic, species and ecosystem biodiversity and identify the experimental models based on prokaryotic and eukaryotic systems.

CO4: Explain the methodology of pure culture techniques and the principle, working and application of bright-field microscopy, dark-field microscopy and phase contrast microscopy.

CO5: Identify and classify elements based on the periodic table and atomic details and refer to examples of biological samples and their bonds.

CO6: Explain the concept of entropy and apply it for different types of chemical processes and articulate it diagrammatically, representation of cis, trans, erythro, meso-isomers

CO7: Make students apply theories of fermentation as well as chemical oxidation-reduction reactions to practical/real life scenarios and calculate and predict genotypes and phenotypes of various Mendelian Genetics crosses.

CO8: Differentiate eukaryotic as well as prokaryotic cells using different objectives, viz., low power, high power and oil immersion objectives and use an enrichment medium to cultivate algae in the laboratory using pond water.

CO9: Calculate the strength of weak acid using incomplete titration methods and analyse and differentiate different types of organic salts.

CO10: Illustrate the detailed structure and function of the various cell organelles of the microorganisms and provide the significance and application of the cell organelle.

CO11: Describe the role of various enzymes and proteins in the process of DNA replication, and calculate allelic frequencies for populations that are in Hardy-Weinberg equilibrium.

CO12: Elucidate the mechanism of enzyme activity and associate the vitamin deficiency disorders with their solubility and biochemical functions

CO13: Describe the importance of plant and animal cell culture and be able to connect with green

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biotechnology and Solve problems related to measures of central tendency and dispersion.

CO14: Analyze structures and classification of standard amino acids, carbohydrates and gain knowledge about diversity in lipids, their structure and biological function.

CO15: Determine the oxidation number of various compounds and differentiate between oxidation number and valency, and determine the order of the reaction using: integration method, graphical method, Ostwald's isolation method and half-time method and discuss different techniques used for separation of precipitates.

CO16: Explain students stepwise, pour plate technique and calculate number of cell present, understand the principles of staining techniques

CO17: Detect the activity of Amylase using Starch agar and *Bacillus* cultures and Represent data using biostatistics the appropriate method viz. frequency polygon, histogram, bar diagram.

CO18: Understand the need of standardization of commercial products and Separate and characterize different amino acids using paper chromatography.

CO19: Classify and identify the different biomolecules that constitute the cell membrane and State role of Macrophages in phagocytosis

CO20: Elucidate the concept of the central dogma and its significance in molecular biology.

CO21: Differentiate between traditional and modern Biotechnology and Discuss advantages and ethical issues surrounding genetically modified foods.

CO22: Describe not only the techniques involved in purification of water but also assessment methods to check quality of potable water and Explain Bioremediation and also distinguish between phytoremediation and microbial remediation.

CO23: Describe transport and activation of fatty acids in the human body and describe and justify effect of pH, temperature, enzyme concentration and substrate concentration on enzyme activity
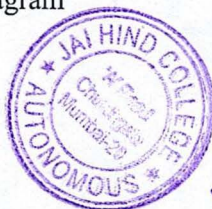
CO24: Describe basic principle of spectroscopy and types of spectrometers, centrifugation and and they will be able to differentiate sample for instruments and understand various factors affecting migration of charged particle under electrophoretic field

CO25: Select the experimental model for an experiment. and summarize the scientific methods and processes by using software.

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CO26: Explain the principle and significance of pasteurization of milk, types of process

CO27: Summarize Composition of gel matrix, Sample Buffer, Tank Buffer, and composition of staining and Destaining solution for PAGE

CO28: Analyze wastewater treatment by evaluating the organic and inorganic parameters

CO29: Compare and contrast the structure and organization of the microtubules, microfilaments and intermediate filaments.

CO30: Explain the role of plasmids as cloning vectors and discuss the fate of partially diploid E. Coli cell with LacOc mutation in the presence and absence of glucose using a diagram

CO31: Classify diseases on the basis of mode of transmission, state of host, severity of the disease, frequency of occurrence, describe pathogenicity or progression of diseases caused by the mentioned pathogens in different tracts or parts or organs of the human body.

CO32: Demonstrate the concept of meiosis and will be able to illustrate the stages of cell division using diagrammatic representation and distinguish between parametric and non-parametric tests and Solve problems related to hypothesis testing

CO33: Differentiate general reactions of amino acids such as transamination, deamination and decarboxylation and understand different analytical techniques and also be able to interpret the result obtained after the experiment using these techniques.

CO34: Summerize the concept of radioactivity and isotopes and differentiate the naturally derived and chemically synthesized polymers and Justify significance and limitations of green chemistry

CO35: Signify the motivational factors and barriers in the journey of an entrepreneur and describe the steps of Business planning procedure (Preliminary investigation, Marketing Plan, Operational /Production Plan, Organizational Plan and Financial Plan).

CO36: Demonstrate antibacterial activity of lysozyme from suitable body fluid sample

CO37: Study the technique of cloning a fragment of DNA following insertion into a suitable vector.

CO38: Synthesize nanoparticles and characterize their properties using spectroscopic methods

CO39: Discuss Structure of Chemokine and its role in cellular communication and Illustrate Monocyte/ Neutrophil Extravasation using a suitable diagram

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CO40: Interpret the significance of developmental biology, mammalian physiology and endocrine system.

CO41: Explain Complete Biochemical pathway for Conversion of Galactose to Glucose using Biochemical reactions with structures.

CO42: Make Outline of general steps involved in gene cloning and interpret the cell:volume ratio and be able to analyze the concept of cryopreservation.

CO43: Identify and categorize BMI values according to reference charts and describe different methods of body composition evaluation.

CO44: Calculate and report Total RBC count of the sample and interpret

CO45: Determine whether the patient is suffering from any glucose homeostasis related abnormalities at home using suitable method

CO46: Determine sugar content in table sugar, sugar syrups, etc. by performing biochemical assays

CO47: Calculate BMR for a given coordinates (weight and height)

CO48: Justify Immune activation is required for CMI and Explain stepwise CTL mediated killing of target cells and explain the terms: Tolerance, Autoimmunity, central and Peripheral Tolerance, Ag Sequestration.

CO49: Explain the terms commonly encountered in Pharmacology such as, drug, pharmacodynamics and summarize the hormones related to GI tract and their function.

CO50: Elucidate the four stages in the formation of cholesterol from acetyl coA and summarize the usefulness of the ENCODE project.

CO51: Describe the various types of PCR commonly used in research and medical diagnosis

CO52: Determine Blood group of the sample provided using Reverse typing method and Determination of TDP for enteric bacteria. Set up an extensive experiment to determine sterility of any given injectable along with use of appropriate negative and positive controls and write a research proposal in an area of active interest and also plan in detail the experiments. Write an abstract and refer to published papers for literature survey and discussion of their own work done.

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Program Name: Bachelor of Science (Information Technology) (B.Sc. IT)

CO\PO	Course code	PO1 Adaptability of new technologies	PO2 Logical and analytical thinking	PO3 Data analysis and security awareness	PO4 Research skills	PO5 Implementing computing based solution	PO6 Experiential learning and business knowledge	PO7 Organizational standards	PO8 Placement and internship	PO9 Communication skills	PO10 Environment and sustainability	PO11 Understand the basic embedded system components	PO12 Project management	PO13 Design and develop computer programs	PO14 Use writing, financial/statistical, presentation	PO15 Understand a wide variety of learning algorithms	Total	Grade
CO1	SBIT101	√			√	√	√	√	√								6	M
CO2	SBIT102	√	√		√	√							√				5	M
CO3	SBIT103	√		√	√	√	√	√	√				√	√			9	M
CO4	SBIT104	√	√	√	√	√	√	√	√	√				√	√	√	12	H
CO5	SBIT105	√						√		√					√		4	L
CO6	SBIT201	√	√	√	√	√	√	√	√				√				9	M
CO7	SBIT202	√											√				3	L
CO8	SBIT203	√		√	√	√	√	√	√					√	√		9	M
CO9	SBIT204		√		√										√	√	4	L
CO10	SBIT205	√	√	√	√	√	√	√		√	√		√		√		11	H
CO11	SBIT301	√	√	√		√	√	√	√	√		√		√	√		12	H
CO12	SBIT302	√	√		√	√	√		√					√			7	M
CO13	SBIT303	√	√	√	√		√					√		√			7	M
CO14	SBIT304	√			√	√			√				√	√			7	M
CO15	SBIT305	√	√			√	√	√	√			√	√	√	√	√	11	H
CO16	SBIT401	√	√	√		√	√	√					√	√			8	M
CO17	SBIT402	√			√		√	√	√			√					6	M
CO18	SBIT403	√	√	√	√	√			√					√	√	√	9	M
CO19	SBIT404		√		√							√		√			4	L

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Autonomous

Program Name: Bachelor of Science (Information Technology) (B.Sc. IT)

CO/PO	Course code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	Total	Grade
CO20	SBIT405	√	√	√		√	√	√					√	√			8	M
CO21	SBIT501			√	√				√			√			√	√	6	M
CO22	SBIT502	√		√	√			√	√			√					6	M
CO23	SBIT503	√	√	√	√	√	√	√	√	√	√		√	√			12	H
CO24	SBIT504	√	√	√	√	√	√		√	√				√		√	10	M
CO25	SBIT505	√	√	√	√	√		√	√		√	√			√		10	M
CO26	SBIT601	√	√		√	√	√	√	√	√	√		√	√	√	√	13	H
CO27	SBIT602	√		√	√	√	√		√								6	M
CO28	SBIT603	√	√	√	√	√	√		√	√				√	√	√	11	H
CO29	SBIT604	√	√	√													3	L
CO30	SBIT605	√	√	√	√	√		√	√		√	√			√		10	M

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Program Name: Bachelor of Science (B.Sc in Information Technology)

PROGRAM OBJECTIVES:

PO1: To develop adaptability of new technologies like use of Modern tools, resources and software and apply possessed knowledge of fundamental subjects which will enable students to be 'Future technology ready'.

PO2: To develop logical and analytical thinking in-order to solve Complex scientific problems by using mathematical and statistical tools and techniques.

PO3: To inculcate techniques for data analysis and security awareness by examining data sets with appropriate consideration to security and privacy.
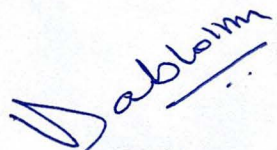
PO4: To empower students in implementing computing-based solution.

PO5: To inculcate entrepreneurial interests through experiential learning and business knowledge and function individually and in teamwork by various live project assignments.

PO6: To enable students to acquire desired competency levels, transit to the job market and, at an opportune time, return for acquiring additional skills to further upgrade competencies, as well as, find opportunities to work not only in India but also abroad.

PO7: To recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change

PO8: To empower students to communicate effectively with the society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

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PO9: To understand the impact of the professional software engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO10: To recognize the applicability of computing and evaluate its impact on individuals, organizations, and global society.

PO11: To empower students to demonstrate knowledge understanding of the scientific and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: To enable students with capabilities for designing and developing computer programs/computer - based systems in the areas related to networking and web design.

PO13. To enable students to use writing, financial/statistical, presentation and data collecting/ organization tools for academic research and communication.

PO14: To apply a wide variety of learning algorithms and develop capabilities to design and develop formulations for computing models and identify its applications in diverse areas.

PO15: Understand how to evaluate models generated from data. Apply the algorithms to a real problem, optimize the models learned and report on the expected accuracy that can be achieved by applying the models.

COURSE OUTCOMES:

PO1: Design and develop applications in modular programming.

PO2: Design and demonstrate synchronous and asynchronous sequential circuits using flip-flops.

PO3: Describe computing and resource management of the computer organization and operating systems.

PO4: Demonstrate the application of discrete structures in different fields of computer science.

PO5: Interpret technology-based communication.

PO6: Demonstrate the use of file handling, exception handling which can be practiced extensively in the hands-on labs.

PO7: Memorize and employ a basic concept of digital fundamentals to Microprocessor based personal computer system.

PO8: Design valid, well-formed, scalable, and meaningful pages using various web technologies.

PO9: Demonstrate a solid understanding of rigorous mathematical proof. Students will be able to write

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clear well-organized and logical mathematical arguments.

PO10: Recognize concepts about energy efficiency, ethical IT assets disposal, carbon footprint estimation.

PO11: Design, illustrate, judge, compare and document own programs.

PO12: Solve problem involving graphs, trees and heaps.

PO13: Identify the different types of network topologies and protocols.

PO14: Describe and construct Relational Algebra and Relational Calculus queries.

PO15: Discuss Java EE Concepts with JSP.

PO16: Employ backend using LINQ and query databases.

PO17: Design and demonstrate microcontroller based embedded systems.

PO18: Sketch flowchart and illustrate pseudocode logic for problem solving.

PO19: Demonstrate the knowledge, techniques, and skills in the development of a software product.

PO20: Design and recognize appropriate security technologies and policies to protect computers and digital information.

PO21: Identify and discuss the concepts and procedures of sampling, data collection, analysis and reporting.

PO22: Identify the communication protocols for IoT.

PO23: Demonstrate their ability to debug programs running on mobile devices.

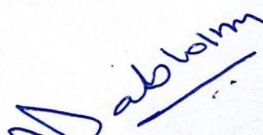PO24: Select an appropriate pattern analysis tool for analyzing data in a given feature space.

PO25: Develop enterprise applications using Java Beans concepts for the given problem with persistence.

PO26: Classify basic use of Enterprise software, and its role in integrating business functions.

PO27: Recognize the importance of virtualization in distributed computing and how this has enabled the development of Cloud Computing.

PO28: Design, create and illustrate novel AI techniques based on emerging real-world requirements.

PO29. Implement Cassandra and MongoDB.

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PO30: Identify the techniques and tools used in system hacking.
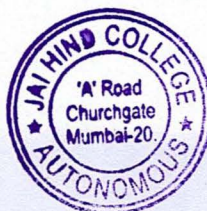
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Basantsing Institute of Science & J. T. Lalvani College of Commerce
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Autonomous

Program Name: Bachelor of Commerce (BBA in Business Administration)

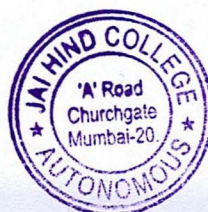| CO\PO	Po1 Demonstrate understanding	Po2 Applicability and appropriate	Po3 Diverse knowledge	Po4 Competencies in Entrepreneurship	Po5 Skills and knowledge	Po6 Sustainable development	Po7 Proficiency and self-actualization	Po8 Modern and Complex	Po9 Analytical skills and critical	Po10 Lifelong learning	Weightage	Letter grade
CO1 Financial Accounting	√	√	√	√	√		√	√	√	√	9	H
CO2 Business Law	√	√	√	√	√	√	√	√	√	√	10	H
CO3 Business Statistic	√	√	√	√	√		√	√	√	√	9	H
CO4 Business Communication	√		√	√	√	√	√	√		√	8	H
CO5 Foundation Course	√	√	√	√	√	√	√	√	√	√	10	H
CO6 Principles of Management	√	√	√	√	√	√	√	√	√	√	10	H
CO7 Principles of Marketing	√	√	√	√	√	√	√	√	√	√	10	H
CO8 Business Maths	√	√	√	√	√		√	√	√	√	9	H
CO9 Business Environment	√	√	√	√	√	√	√	√	√	√	10	H
CO10 Industrial Law	√	√	√	√	√	√		√	√	√	9	H
CO11 Business Economics I	√	√	√	√	√	√	√	√	√		9	H

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Autonomous

Program Name: Bachelor of Commerce (BBA in Business Administration)

CO\PO	Po1 Demonstrate understanding	Po2 Applicability and appropriate	Po3 Diverse knowledge	Po4 Competencies in Entrepreneurship	Po5 Skills and knowledge	Po6 Sustainable development	Po7 Proficiency and self-actualization	Po8 Modern and Complex	Po9 Analytical skills and critical	Po10 Lifelong learning	Weightage	Letter grade
CO12 Cost Accounting	√	√		√	√	√	√	√	√	√	9	H
CO13 Information Technology	√		√	√	√	√	√	√	√	√	9	H
CO14 Environmental Science	√	√	√	√		√	√	√	√	√	9	H
CO15 Entrepreneurship	√	√	√	√	√	√	√	√	√	√	10	H
CO16 Business Economics II	√	√		√	√	√		√	√	√	8	H
CO17 Digital Marketing & E Commerce	√	√	√	√	√	√	√	√	√	√	10	H
CO18 Finance and Accounting for BPS	√	√	√	√	√		√	√	√		8	H
CO19 Retail & Market Research	√	√	√	√	√	√	√	√		√	9	H
CO20 Insurance for BPS	√	√	√		√	√	√		√	√	8	H
CO21 Corporate Finance	√	√	√	√	√		√	√	√	√	9	H

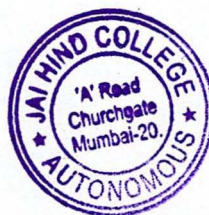PRINCIPAL
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Autonomous

Program Name: Bachelor of Commerce (BBA in Business Administration)

CO\PO	Po1 Demonstrate understanding	Po2 Applicability and appropriate	Po3 Diverse knowledge	Po4 Competencies in Entrepreneurship	Po5 Skills and knowledge	Po6 Sustainable development	Po7 Proficiency and self-actualization	Po8 Modern and Complex	Po9 Analytical skills and critical	Po10 Lifelong learning	Weightage	Letter grade
CO22 Brand Management	√	√	√	√	√	√	√	√	√	√	10	H
CO23 Strategic Management	√	√	√	√	√	√		√	√	√	9	H
CO24 Managing Business Process	√	√	√	√	√		√	√	√	√	9	H
CO25 Capital Markets	√	√	√	√	√	√	√	√	√	√	10	H
CO26 Taxation-I	√	√	√	√	√	√	√	√	√	√	10	H
CO27 Banking for BPS	√	√	√		√	√	√		√	√	8	H
CO28 Strategic Cost Management	√	√	√	√	√	√		√	√	√	9	H

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Program name: BBA

PROGRAM OBJECTIVES

PO1: To train students about understanding every dimension of business and analyze the character of the future business environment.

PO2: To inculcate knowledge to appropriate decisions in all areas of business management, including finance, marketing, and operation.

PO3: To sensitize diverse knowledge of business and corporate laws and their applicability in business, finance, and audit.

PO4: To make them aware about the competencies and creativity required to undertake entrepreneurship as a desirable and feasible career option.

PO5: To Train the broad-based business skills and knowledge; develop general and specific capabilities to meet the current and future expectations of the business, industry, and economy at the national and global level.

PO6: To sensitize for the significance of sustainable development.

PO7: To make them aware about Achieveing higher levels of proficiency and self-actualization through the pursuit of life-long learning.

PO8 Make them aware for selecting, and applying appropriate techniques,resources, and modern management to complex management activities with an understanding of the limitations.

PO9: To Train the competencies required to undertake business process management as a viable career option.

PO10: To sensitize a commitment to lifelong learning, foster adaptability and continuous skill development, and ensure graduates remain agile in evolving professional landscapes and

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contribute meaningfully to their respective industries.

COURSE OUTCOMES

CO1: Demonstrate the applicability of the concept of accounting to understand managerial decisions and financial statements.

CO2: Solve consumer disputes under the consumer protection act by applying the law to the venture and business processes.

CO3: Select the appropriate test of hypothesis and tools for analysis in accordance with the type of case.
CO4: how to conduct all business activities related to the workplace with technical efficiency.

CO5: Demonstrate knowledge of personal beliefs and values and a commitment to continuing personal reflection and reassessment while learning to balance confidence with humility.

CO6: Illustrate the range of motivation theories and methods of coordination available for management practices in organizations and startups.

CO7: Learn the vital role of marketing within a firm and the necessary relationships between marketing and the other functional areas of business.

CO8: Develop proficiency in the application to solve business math problems and use the results of mathematical calculations to help evaluate various options in reaching financial decisions.

CO9: To implement about business and its integration and synthesis of various functions within complex environmental settings and developing analytical skills.

CO10: To slove and emphasizing the practical aspects and uses of industrial law by the organization.

CO11: To use knowledge about the general economic environment within which businesses and other organizations operate.

CO12: Apply appropriate judgment derived from knowledge of accounting theory to financial analysis and decision-making.

CO13: Provide expertise in the quantitative and technological aspects of management for solving business problems and making managerial decisions.

CO14: Implement the knowledge of natural and social systems that can be applied to environmental and natural resource problem solving in a management context.

CO15: Develop the ability to analyze various aspects of entrepreneurship to contribute to their entrepreneurial and managerial potentials.

CO16: Analyse the modern tools of macro-economic analysis and policy framework, that is relevant to the real

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world with real-world.

CO17: apply the latest trends and practices in e-commerce and digital marketing, along with their challenges and opportunities for an organization.

CO18: Develop understanding and skills with reference to various accounting terms and processes used to acquaint students with the emerging trends in F&A technologies.

CO19: Learn about market research and how it helps manufacturers and retailers know what consumers buy and what they see.

CO20: Implement life insurance concepts, annuity concepts, group insurance concepts, property, casualty insurance concepts, non-life insurance concepts, healthcare insurance concepts and retirement services in the USA and UK.

CO21: Develop a conceptual framework of finance function and acquainting the participants with the tools, techniques, and processes of financial management in the realm of financial decision-making.

CO22: design the meaning and significance of brand management and know how to build, sustain, and grow brands.

CO23: Synthesize the factors in complex strategy and provide a professional framework for case analysis while taking them through the generation of strategic alternatives and implementation.

CO24: Demonstrate an understanding of business processes, the BPS industry, process mapping techniques, customer needs and expectations, and an overview of quality management, QCVsQA, the need for first-pass yield, and components of the cost of quality.

CO25: Demonstrate understanding of how capital markets work and the various participants in capital markets, investment from a BPS perspective, mutual funds, hedge funds, private equity funds, and calculation of NAVs, along with an understanding of risk management in capital markets.

CO26: Educate students on how to calculate their income and application of fundamental tax principles.

CO27: Develop an understanding of cash management, fund transfers, loan structure, underwriting, trade finance, and handling of international trade transactions.

CO28: Develop skills of analysis, evaluation, and synthesis in cost and management accounting while covering the complex modern industrial organizations.

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Program Name: Bachelor of Management Studies (BMS)

CO\PO	PO1 Fundamental	PO2 Problem	PO3 Ethics	PO4 Decision-making	PO5 Interpersonal	PO6 Shared	PO7 Research	PO8 Experiential	PO9 Critical	PO 10 IT Tools and concept	PO 11 Ethical issues and conducts	PO12 Information	PO13 Entrepreneurship	PO14 Sustainable	PO15 Analyze	Total Attainment (No. of Ticks)	Range of Mapping
CO1	√	√	√	√	√			√	√			√	√		√	12	H
CO2	√	√	√	√	√	√	√	√	√		√			√	√	13	H
CO3	√	√	√	√			√	√	√	√		√			√	11	H
CO4	√	√	√	√	√	√		√	√			√	√		√	13	H
CO5	√	√	√	√	√	√	√	√	√			√	√	√	√	15	H
CO6	√	√	√	√	√	√	√	√	√				√	√	√	14	H
CO7	√	√	√	√		√	√	√	√		√	√	√	√	√	14	H
CO8	√	√	√	√	√	√	√	√	√			√	√	√	√	15	H
CO9	√	√	√	√	√	√	√	√	√	√		√	√	√	√	15	H
CO10	√	√	√	√	√	√	√	√	√		√			√	√	13	H
CO11	√	√	√	√			√	√	√			√		√	√	12	H
CO12	√	√	√	√	√			√	√			√	√	√	√	13	H
CO13	√	√	√	√	√	√	√	√	√		√	√	√	√	√	15	H
CO14	√	√	√	√	√	√	√	√	√			√	√	√	√	15	H
CO15	√	√	√	√	√		√	√	√			√	√	√	√	14	H
CO16	√	√	√	√		√	√	√	√			√	√	√	√	14	H
CO17	√	√	√	√			√	√	√	√		√	√	√		13	H
CO18	√	√	√	√	√			√	√	√		√	√		√	12	H
CO19	√	√	√	√	√	√	√	√	√			√	√	√	√	15	H
CO20	√	√	√	√		√	√	√	√				√	√	√	14	H
CO21	√	√	√	√	√			√	√			√	√		√	12	H
CO22	√	√	√	√	√	√	√	√	√		√		√	√	√	14	H
CO23	√	√	√	√	√	√	√	√	√				√	√	√	14	H
CO24	√	√	√	√	√			√	√		√	√	√		√	12	H
CO25	√	√	√	√			√	√	√	√		√	√	√	√	13	H
CO26	√	√	√	√	√	√	√	√	√			√	√	√	√	15	H
CO27	√	√	√	√	√	√	√	√	√				√	√	√	14	H
CO28	√	√	√	√	√			√	√			√	√		√	12	H
CO29	√	√	√	√	√	√	√	√	√	√		√	√	√	√	15	H
CO30	√	√	√	√	√	√	√	√	√			√	√	√	√	15	H
CO31	√	√	√	√	√	√	√	√	√			√			√	13	H
CO32	√	√	√	√	√	√	√	√	√			√			√	13	H
CO33	√	√	√	√	√	√	√	√	√			√	√		√	14	H

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Basantsing Institute of Science & J. T. Lalvani College of Commerce
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Autonomous

Program Name: Bachelor of Management Studies (BMS)

CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO12	PO13	PO14	PO15	Total Attainment(No. of Ticks)	Range of Mapping
CO34	√	√	√	√	√	√	√	√	√			√			√	13	H
CO41	√	√	√	√	√	√	√	√	√			√	√		√	14	H
CO42	√	√	√	√	√	√	√	√	√			√			√	13	H
CO43	√	√	√	√	√	√	√	√	√			√			√	13	H
CO44	√	√	√	√	√	√	√	√	√			√	√		√	14	H
CO35	√	√	√	√	√	√	√	√	√			√	√	√	√	15	H
CO36	√	√	√	√	√	√	√	√	√			√	√	√	√	15	H
CO37	√	√	√	√	√	√	√	√	√			√	√	√	√	15	H
CO38	√	√	√	√	√	√	√	√	√			√	√	√	√	15	H
CO39	√	√	√	√	√	√	√	√	√			√	√	√	√	15	H
CO40	√	√	√	√	√	√	√	√	√			√	√	√	√	15	H
CO45	√	√	√	√	√	√	√	√	√			√	√	√	√	15	H
CO46	√	√	√	√	√	√	√	√	√			√	√	√	√	15	H
CO47	√	√	√	√	√	√	√	√	√			√	√	√	√	15	H
CO48	√	√	√	√	√	√	√	√	√			√	√	√	√	15	H

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Autonomous

**Program Name:** Bachelor in Management Studies

PROGRAM OBJECTIVES

PO1: train fundamental knowledge in core functional areas of business.

PO2: train evidence-based solutions to business problems or opportunities.

PO3: sensitize the ethical implications of business practices.

PO4: Inculcate knowledge problem solving, decision making and critical thinking skills to provide viable solutions for business problems.

PO5: train effective and collaborative interpersonal skills in a team setting.

PO6: Understand the dynamics, benefits, and challenges of diversity and inclusion within teams or organizations.

PO7: Impart business research skills to consolidate, synthesise, and analyse business information.

PO8: train ability to apply conceptual and practical knowledge.

PO9: Facilitate the use of research and information from all mediums for the purpose of promoting critical thinking as it is applied to learning complex business concepts

PO10: impart knowledge of fundamental information technology tools and concepts.

PO11: Make them aware about, explain and illustrate the importance of ethical conduct and resolve ethical issues in business.

PO12 Train to apply the competencies and creativity required to undertake Business Management as a desirable and feasible career option.

PO13: Train to apply the competencies and creativity required to undertake entrepreneurship as a desirable and feasible career option

PO14: Sensitize them to Appreciate the significance of sustainable development

PO15: Impart knowledge on understanding of every dimension of business & to analyse the character of the future business environment.

COURSE OUTCOMES

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CO1: impliment proficiency in basic accounting concepts, conventions and understanding of the accounting process.

CO2: Negotiate, resolve and advance a cultural-sensitive and legally-appropriate solution to business problems.

CO3: Apply various statistical techniques using MS Excel which is widely used in many different industries and also hands on experience of Data Analysis tool in MS Excel.

CO4: Implement knowledge on the elements, dynamics and mechanics of personal and professional communication.

CO5: Apply research skills into negotiations and conflict management problems and the application of these in the assembling and analysis of facts and situations.

CO6: Demonstrate leadership competence, motivating teams, managing diversity and fostering Innovation.

CO7: Analyse the linkages between economic theory and real-life business problems.

CO8: Design and develop integrated marketing strategies for products for organizational and societal benefits.

CO9: definethe role of innovation and technology in shaping the business landscape.

CO10: use knowledge of the legal principles and statutes that regulate employment and industrial relations.

C011: Appreciate the significance and the value of the application of the principles of Business Mathematics in the use of scientific methodology of management.

CO12: Use knowledge students to conceptualize various methods and techniques of cost accounting and its application.

CO13: Develop a comprehensive expertise in Corporate Communication and Public Relations, integrating ethical considerations, legal frameworks, and contemporary practices, while mastering the functions and impact of emerging technologies in these domains.

CO14: Describe various ways people react to a change & Offer techniques for preparing for change.

CO15: Develop spirit of entrepreneurship among the student participants.

CO16: summerize how different sectors interact in macroeconomics.

CO17: Understand application of Word, Excel & PowerPoint.

CO18: Plan, design and formulate practical activities using techniques and procedures appropriate to managerial accounting.

CO19: develop business models within social impact strategy and social entrepreneurship, including key concepts, an overview of the field, and tools to get started as a change-maker.

CO20: Identify and explain factors which influence consumer behaviour.

CO21: Develop the skills to manage financial resources of a company.

CO22: Develop a comprehensive understanding of the multifaceted impact of ethical practices in business, spanning functional areas such as marketing, finance, and human resource management, while recognizing the integral role these practices play in contributing to the overall progress of a business.

CO23: Explore participants to various perspectives and concepts in the field of Strategic Management.

CO24: Prepare a sample research proposal responsibly and with due consideration of various ethical principles of research.

CO25: apply the skills necessary for organisation, visualisation and automation data using charts, tables, and pivot tables.

CO26: applyGain the perspective of an income tax practitioner.

CO27: Recommend suitable product, price, promotion and Distribution strategies for rural markets.

CO28: Assessing strategic performance of a firm.

CO29: Assess, monitor and maintain quality systems in logistics through the effective use of information technology, human resources and accounting processes.
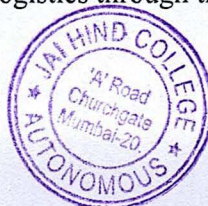
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CO30: Understand the challenges and opportunities associated with integrating Design Thinking into organizational processes.

CO31: Apply investment management models to value various assets classes and portfolios.

CO32: Use financial derivative instruments for managing and hedging portfolio risk.

CO33: Construct a financial plan.

CO34: Explain and analyse how psychological factors influence both individual investors and markets.

CO35: Specify, analyse and select markets for specific service products.

CO36: Develop knowledge of the cyber world and scope of cyber laws in E-commerce.

CO37: Demonstrate the strategic importance of Sales and Distribution Management and knowledge of the planning process for selling products and services.

CO38: Formulate and assess strategic, operational and tactical CRM decisions.

CO39: Development of analytical thought process to help develop modelling.

CO40: Enhance critical thinking skills by evaluating existing research and identifying gaps.

CO41: Identify and analyse the procedural aspects under different applicable statutes related to indirect taxation.

CO42: Interpret data relevant to managing international finance and trade – including currency, fixed income and balance of payment data.

CO43: Use knowledge in Acquainting about financial service market and its constituents.

CO44: Recognize the current market scenario and upgrade the skills and knowledge of long-term sustainability.

CO45: Appreciate brand structures and its role in developing, maintaining and growing brands.

CO46: summerize the contribution of retailers to the product value chain

CO47: Produce a comprehensive international marketing plan.

CO48: Apply relevant theories and models for the development of a media strategy-driven plan that includes advanced media planning tactics.

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Autonomous

Program Name: Bachelor In Multimedia and Mass Communication (BAMMC)

CO\PO	PO1 Knowledge	PO2 Application	PO3 Research Aptitude	PO4 Problem Solving	PO5 Academic Writing	PO6 Soft Skills	PO7 Prof Ethics	PO8 Environment Consciousness/ social Issues	PO9 Analytical skills/ Critical Evaluation	PO10 Life Long learning	weightage	letter grade
CO1	✓	✓			✓	✓			✓	✓	6	M
CO2	✓	✓	✓	✓			✓		✓		6	M
CO3	✓	✓		✓					✓		4	M
CO4	✓	✓			✓	✓	✓		✓	✓	7	M
CO5	✓		✓				✓	✓	✓		5	M
CO6	✓	✓					✓	✓	✓		5	M
CO7	✓	✓			✓	✓			✓	✓	6	M
CO8	✓	✓		✓					✓		4	M
CO9	✓	✓		✓			✓	✓	✓		6	M
CO10	✓	✓		✓	✓				✓		5	M
CO11	✓						✓	✓	✓	✓	5	M
CO12	✓	✓		✓			✓	✓	✓		6	M
CO13	✓	✓		✓			✓	✓	✓		6	M
CO14	✓	✓		✓			✓	✓	✓		6	M
CO15	✓	✓		✓	.		✓	✓	✓		6	M
CO16	✓	✓		✓					✓	✓	5	M
CO17	✓	✓			✓	✓			✓		5	M
CO18	✓	✓		✓			✓		✓		5	M

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Program Name: Bachelor In Multimedia and Mass Communication (BAMMC)

CO\PO	PO1 Knowledge	PO2 Application	PO3 Research Aptitude	PO4 Problem Solving	PO5 Academic Writing	PO6 Soft Skills	PO7 Prof Ethics	PO8 Environment Consciousness/ social Issues	PO9 Analytical skills/ Critical Evaluation	PO10 Life Long learning	weightage	letter grade
CO19	✓	✓		✓			✓	✓	✓		6	M
CO20	✓	✓		✓			✓	✓	✓		6	M
CO21	✓	✓		✓			✓	✓	✓		6	M
CO22	✓	✓	✓	✓			✓	✓	✓		7	M
CO23	✓	✓		✓			✓		✓		5	M
CO24	✓	✓		✓		✓	✓	✓	✓		7	M
CO25	✓	✓	✓	✓			✓	✓	✓		7	M
CO26	✓	✓		✓				✓	✓		5	M
CO27	✓	✓	✓	✓			✓	✓	✓		7	M
CO28	✓	✓	✓	✓		✓	✓		✓		7	M
CO29	✓	✓		✓		✓		✓	✓		6	M
CO30	✓	✓		✓			✓	✓	✓		6	M
CO31	✓	✓	✓	✓			✓	✓	✓		7	M
CO32	✓	✓	✓	✓			✓	✓	✓		7	M
CO33	✓	✓		✓			✓		✓		5	M
CO34	✓	✓		✓			✓		✓		5	M
CO35	✓	✓	✓	✓			✓		✓		6	M
CO36	✓	✓	✓	✓				✓	✓		7	M
CO37	✓	✓	✓			✓			✓		5	M
CO38	✓	✓	✓	✓			✓	✓	✓		7	M

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Program Name: Bachelor In Multimedia and Mass Communication (BAMMC)

CO\PO	PO1 Knowledge	PO2 Application	PO3 Research Aptitude	PO4 Problem Solving	PO5 Academic Writing	PO6 Soft Skills	PO7 Prof Ethics	PO8 Environment Consciousness/ social Issues	PO9 Analytical skills/ Critical Evaluation	PO10 Life Long learning	weightage	letter grade
CO39	✓	✓	✓	✓		✓	✓		✓		7	M
CO40	✓	✓				✓			✓		4	M
CO41	✓		✓	✓		✓			✓		5	M
CO42	✓	✓	✓	✓		✓			✓		6	M
CO43	✓	✓	✓	✓		✓			✓		6	M
CO44	✓	✓	✓	✓			✓	✓	✓		7	M
CO45	✓	✓	✓			✓			✓		5	M
CO46	✓	✓		✓			✓		✓		5	M
CO47	✓	✓	✓	✓		✓			✓		6	M
CO48	✓	✓		✓					✓		4	M
CO49	✓	✓				✓	✓				4	M
CO50	✓	✓	✓	✓				✓	✓		6	M

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Basantsing Institute of Science & J. T. Lalvani College of Commerce.
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Autonomous

Program Name: B.A in Multimedia and Mass Communication (BAMMC)

PROGRAM OBJECTIVES

PO1: Train students for industry-ready proficiency, equipped with the skills and knowledge necessary to excel in diverse roles within the media sector, meeting the demands of the job market effectively.

PO2: Make them skills to critically analyze various media-related research and communication problems, taking into account historical, cultural, and societal contexts

PO3: Inculcate knowledge on foundational knowledge learnt in fundamental subjects to examine diverse media-related challenges and formulate solutions.

PO4: Train students to effective media strategies that consider safety, ethics, audience engagement, and societal impact while effectively utilising modern tools and technologies.

PO5: Sensitize the value of practice of lifelong learning, consistently evaluating and updating their knowledge and skills in response to evolving trends and technologies in mass media

PO6: Make them aware about complex media problems through scientific reasoning and data analysis in the fields of advertising, journalism, and media management.

PO7: Train the students about modern media tools, resources, and softwares relevant to the fields of mass communication and media studies.

PO8: Make them aware Locate societal and ethical concerns by understanding civic responsibilities in societal and environmental contexts, applying principles and norms of media development while producing and disseminating content.

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PO9: Sensitize them with professional ethics and norms in the fields of journalism, advertising, and media management, maintaining high standards of integrity and accuracy in their work.

PO10: Graduates will employ their skills effectively, whether working individually or within diverse teamwork settings, exemplifying the collaborative essence of media production and management.

COURSE OUTCOMES

CO1: CO1 Develop various aspects of oral communication by nurturing skills in various streams of communication like presentation, anchoring, viva voce, interview, public speaking, skits/plays, panel discussions, voice over, elocution, debates & group discussion and Construct and develop the ability to write from formal, informal and creative requirements and brief.

CO2: Analyse various scopes, concepts, laws & functions of economics and identify its application in modern day economy.

CO3: Demonstrate the various basic workings of a computing system and its various programmes and software.

CO4: Identify various models, functions and barriers of mass communication and its

CO5: To implementl various historical events at global, national, regional level and the role of media in these events.

CO6: Define sociology and describe various sociological perspectives along with its essence.

CO7: Describe the practical aspects of the various methods of communication and its application.

CO8: Describe and illustrate the usage of various pillars of online marketing.

CO9: To describe various branches of psychology and have a comprehensive understanding of human psychology and its interrelation in media.

CO10: State various forms of literature and examine its essence in communication.

CO11: Explain different approaches to politics in the media and design fresh political campaigns from a promotional perspective.

CO12: Describe various concepts, trends, models, environment, strategies, and theories of marketing.

CO13: To summerize the essence of PR as a practical discipline within the organisation; be aware of its functions, strategies and particular techniques.

CO14: Identify, analyse, and address the specific structural location of cultural issues and debates, and propose creative and effective interventions.

CO15: To apply the complex relationship between communication/media theories and a diverse set of individual, social, and professional practices.

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CO16 To understand film exposure, print development and print presentation.

CO17: To identify, analyse, and use the elements of literary craft appropriate for their chosen writing genre.

CO18: To describe the primary functions of management and the roles of managers.

CO19: To solve problems related to the fundamentals of creative communications & marketing research.

CO20 apply Knowledge about the real-time in regional, national & international news media industries.

CO21 Analyse the integration of two broad broadcast mediums & its functions. CO22 Exercise the practice of research in producing and managing media products.

CO23 Exhibit professional ethics and behaviour to meet the prerequisite standards of the multi-national media industry.

CO24 Analyses creative communication in various forms of cinema.

CO25 Develop a strong understanding of news reporting fundamentals, including news values, accuracy, balance, objectivity, and verification.

CO26: Develop comprehensive editing skills, including rewriting, language improvement, and error identification, suitable for print and digital media.

CO27: Frame theories on key media and their influence on public opinion formation.

CO28: Distinguish between various types of news content, including 'hard' news, 'soft' news, and features, and understand how these distinctions are evolving.

CO29: Gain an in-depth understanding of the historical development and significance of regional journalism in India, including its role in the freedom movement and social reforms.

CO30 Gain proficiency in formatting and structuring newspaper and magazine content, including the use of relevant software tools.

CO31 Develop a strong foundation in press law and ethics, enabling them to make informed and ethical decisions in their journalism and media careers.

CO32: Understand the impact of global communication theories on contemporary media landscapes.

CO33 Develop proficient skills in content creation for radio and television, encompassing scriptwriting and production techniques.

CO34 Acquire a comprehensive understanding of business journalism, including financial systems, regulatory institutions, and the role of modern technology in the banking sector.

CO35 Understand the inner workings of news media organisations, including their structures, ideologies, and management practices.

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CO36: Gain a deep understanding of contemporary socio-economic and cultural issues that shape global and Indian society, fostering awareness and grounding in these complex topics.

CO37: Gain a comprehensive understanding of digital media, covering its principles, key concepts, and marketing objectives.

CO38: Solve complex marketing communication problems by designing effective layouts of advertising.

CO39: Apply possessed knowledge of research fundamentals to improve marketing communication.

CO40 Demonstrate an understanding of the vast scope of brand building and its functions.

CO41 Demonstrate the diverse knowledge of the correlation between sociology and creative marketing campaigns.

CO42: Demonstrate the understanding of the demographic & psychographic of various target groups.

CO43 Exhibit creativity and communication skills to produce impeccable advertising copies.

CO44: Gain a deep understanding of contemporary socio-economic and cultural issues that shape global and Indian society, fostering awareness and grounding in these complex topics.

CO45: Gain a comprehensive understanding of digital media, covering its principles, key concepts, and marketing objectives.

CO46: Exhibit the understanding of marketing objectives and market trends.

CO47: Demonstrate an understanding of every dimension of the agency and the business environment of the industry.

CO48: Exhibit the professional ethics and understanding of the business environment of the marketing industry.

CO49: Demonstrate an understanding of every dimension of the legal environment of the advertising agencies.

CO50: Demonstrate an understanding of finance and the dynamics of the media industry.

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Autonomous

Program Name: B. Voc in Travel and Tourism Management

| COS	Course Code	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	weightage	letter grade
CO1	CBTT 101		√	√	√	√		√			√	√	√	√	√	√	11	H
CO2	CBTT 102	√	√	√	√			√					√	√		√	8	M
CO3	CBTT 103	√	√	√	√		√					√		√	√		8	M
CO4	CBTT 104	√	√	√	√	√		√			√		√	√	√	√	11	H
CO5	CBTT 105	√	√	√	√	√		√			√	√	√	√	√		11	H
CO6	CBTT 106	√	√	√	√	√	√				√		√	√		√	11	H
CO7	CBTT107	√	√		√	√	√	√		√	√		√	√	√		11	H
CO8	CBTT201		√	√	√	√		√	√		√		√		√	√	9	M
CO9	CBTT202	√	√	√	√	√					√	√	√	√	√	√	11	H
CO10	CBTT203		√	√	√	√	√				√	√	√	√	√	√	11	H
CO11	CBTT204	√	√		√		√	√		√	√	√	√	√	√	√	11	H
CO12	CBTT205	√	√	√	√	√		√			√	√	√	√	√	√	12	H
CO13	CBTT206	√	√	√	√	√	√	√		√	√	√	√	√	√	√	14	H
CO14	CBTT207	√	√	√	√		√	√		√	√	√	√	√	√	√	13	H

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Program Name: B, Voc in Travel and Tourism Management

CO15	CBTT301	√	√	√	√	√	√	√			√	√	√	√			11	H
CO16	CBTT302		√	√	√		√				√	√		√	√		8	M
CO17	CBTT303		√	√	√		√			√	√	√	√	√	√	√	11	H
CO18	CBTT304	√	√	√	√	√	√	√			√		√	√	√	√	12	H
CO19	CBTT305	√	√	√	√	√	√	√			√	√		√		√	12	H
CO20	CBTT306	√	√	√	√	√	√					√		√	√		9	M
CO21	CBTT307	√	√	√	√	√	√	√			√			√	√	√	11	H
CO22	CBTT401	√	√	√	√	√	√				√	√		√	√	√	11	H
CO23	CBTT402	√	√	√	√	√	√				√	√	√	√	√	√	12	H
CO24	CBTT403	√	√	√	√	√	√	√			√	√	√		√		11	H
CO25	CBTT404	√	√	√	√	√	√				√	√	√		√	√	11	H
CO26	CBTT405	√	√	√	√	√	√	√			√	√	√	√	√	√	13	H
CO27	CBTT406	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	15	H
CO28	CBTT501	√	√	√		√		√			√	√	√		√	√	11	H
CO29	CBTT502		√	√	√	√	√	√			√	√	√	√	√	√	12	H
CO30	CBTT503		√	√	√	√	√	√			√	√	√	√		√	11	H

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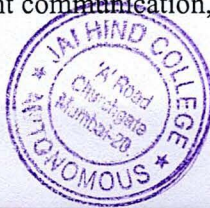
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Program Name: B. Voc in Travel and Tourism Management

CO31	CBTT504	√	√	√	√	√	√	√			√	√	√	√	√	√	13	H
CO32	CBTT505	√	√	√	√	√	√	√			√			√	√	√	12	H
CO33	CBTT506	√	√	√		√	√	√			√	√	√		√		11	H
CO34	CBTT507		√	√	√	√	√	√			√	√	√		√	√	11	H
CO35	CBTT508	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	15	H
CO36	CBTT601		√	√	√	√	√	√			√	√	√	√		√	11	H
CO37	CBTT602		√	√	√		√				√	√		√	√	√	10	M
CO38	CBTT603	√	√		√						√	√			√	√	7	M
CO39	CBTT604	√	√	√	√	√	√	√		√	√			√	√	√	12	H
CO40	CBTT605	√	√	√	√	√		√		√	√	√	√	√	√	√	13	H
CO41	CBTT606	√	√		√	√	√				√	√	√	√	√	√	11	H
CO42	CBTT607	√	√	√	√	√	√	√		√	√	√	√	√	√	√	14	H
CO43	CBTT608	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	15	H
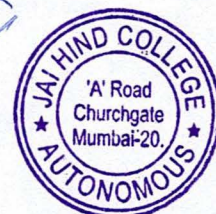
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Program Name: BVoc in Travel & Tourism Management

Program Objectives

PO1. To Sensitize awareness on pertinent issues and challenges in the areas of global tourism, domestic tourism, regulations, heritage, culture and niche tourism sectors through value added courses, destination trainings and exposure to career opportunities

PO2. To inculcate in the students' business ethics, gender sensitization, awareness on environmental issues, sustainability, respect towards diversity and cross-cultural awareness

PO3. To train students in one foreign language, ticketing software, multimedia skills and technology required for working in the travel industry

PO4. To provide generic and sector specific skills for Travel and Tourism industry job profiles

PO5. To provide Qualification Pack based curriculum and Certifications by Tourism and Hospitality Council on job profiles such as Travel consultant, Meeting, Events and Conference Planner, Guest Relations Manager, Tour Manager, Duty Manager and Team Leader

PO6. To encourage students to innovate and develop travel tech knowledge and skills towards building travel startups

PO7. Prepare students for entrepreneurship by motivating, creating awareness and support systems available for entrepreneurship in India

PO8. To train additional employability skills pertaining to Photography, App making, Video making, Blogging and Travel writing

PO9. To impart knowledge research competence in students for market research, surveys and data analytics through curriculum, research training and seminar

PO10. To train students in excellent communication, soft skills for the service sector

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etiquettes and customer orientation

PO11.To sensitize them and make them awareness for service industry values such as integrity, quality management in services and accountability Program Learning Outcomes

PO12. To build skills among students in niche tourism sectors like Adventure Tourism, Eco Tourism and Sports Tourism by practical learnings and field visits based outcome building

PO13.To equip students about the regulatory framework of tourism and hospitality in India and at the global level.

PO14. Train students in national policy in Tourism and about the Airport, Rail and transport and Hospitality network.

PO15. Train students in learning about travel circuits national and international and build ability to do SWOT analysis and conceptualise new circuits and marketing strategies

Course Outcomes

CO1: Apply the fundamentals of communication and use various channels of communication for effective communication in social and professional spheres

CO2:Express him/herself effectively in simple French and construct simple sentences in French using correct grammar and demonstrate elementary knowledge about French Language through speaking and writing

CO3: Develop proficiency MS office applications like Word, Excel, Power point, Outlook and Publisher. and Execute the proficiency in MS office computer applications, which will give students an upper edge while working in any firm.

CO4: Define the main features of Indian Culture and History and Evaluate the economic, social and political conditions of Vedic Period and also differentiate between the conditions of early Vedic period and later Vedic period also Analyse the emergence of territorial states in India

CO5: Define the concept of Heritage and identify its types and Evaluate the role of different organizations in Heritage management also Describe the Indian cultural heritage

CO6: Use knowledge the evolution of Tourism Industry globally and Differentiate between the types of tourists also Classify the various tourism products and attractions

CO7:Understand the various geographical regions and Appraise the topography, culture and political geography of various regions throughout the globe also Enlist the countries in each continent and evaluate their geographical features

CO8: Analyse the behaviour of individuals and groups in the organizations in terms of the key

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traits, attitudes and perceptions and Assess the potential effects of organizational level factors (such as structure, culture and change) at workplace

CO9: Define the domain and essential aspects of Marketing and Differentiate between marketing and sales and Appraise the various important functions of marketing

CO10: Understand the layers of Open Systems Interconnection (OSI) communication and TCP/IP and Understand the applications of networks and be able to determine which type of network it belongs to. Also Demonstrate the use of hardware and software requirements for a network.

CO11: Appraise physical and cultural geography of India and Apply knowledge, compare and analyse Tourism Products and its types and Understand the natural and man -made destinations

CO12 Summarize the Global Tourism Industry and Appreciate the growth and trends in the global Tourism sector also Analyse the tourist behaviour and its effect on tourism

CO13:Understand about Travel Agency Operations and Understand Tour Packaging and Itineraries also Evaluate tour operations and different types of packaged tours

CO14:Explain the various booking modes for different means of travel (Air, Railways, Cruise) and Classify the different types of accommodations and booking of those accommodations and Understand and compare rules related to travel like baggage rules, travel rules and restrictions.

CO15: Implement Strategic communication model, critical thinking to identify objectives and analyze audience and Choose the most effective structure and style for delivering written and spoken messages also Design and deliver a persuasive presentation that convinces the audience of the topic's relevance and overcomes resistance
CO16: Acquire the knowledge and skills needed to do research in this space. and Applying Green *Computing parameters towards* Sustainability

CO17: Use the concept of Digital Marketing and evaluate the scope of it and Design the content and choose various digital marketing channels

CO18: Implement the Tour designing process and Use tour costing methods, evaluate the procedure of costing of group tour, independent tours and business tours

CO19:Explain the concept of Sustainable Development, its evolution, principles and importance in the world and Gain the global perspective on the Sustainable Development Goals by studying the various conferences that were held to spread awareness about the importance of Sustainable Development

CO20: Describe the Tourism Business Economic concept and appraise the Global and Indian Tourism contribution to the economy and Assess the Tourism Economic Impact using various measuring techniques

CO21: Interpret various art forms and use them for job roles in tourism industry and Evaluate the different forms of architectural styles that exist worldwide and Compare the architecture of
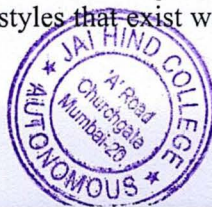
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different places and understand their details. They will be able to explain this to the others.

CO22: Report on the fundamentals of Book Keeping and Identify various financial services and the various types of insurances available

CO23: Apply the importance of Research and Understand the domain of research and various important terminologies in the field of Research alsoSelect the correct research problem and frame research questions

CO24: Appreciate the role and function of an HR Manager and incorporate in their professional life and Decide on correct training tools and aids and evaluate the training results

CO25: Understand the job design and responsibilities of a Guest Relations Manager and Carry out customer feedback analysis and develop idea on leadership skills and service culture

CO26: Apply knowledge Tourism Development process and Build the unique proposals for Destination and Analysis of product development with various components of Marketing Mix and how to Manage Existing Tourism Destination.

CO27: Develop critical thinking approach by understanding concepts in Strategic Management and Get to understand strategy formulation, implementation, monitoring and evaluation

CO28: Define what it means to be an entrepreneur and Develop an entrepreneurial mindset and Appraise the role of innovation in busines

CO29:Define and explain the fundamental principles and concepts of multimedia design.and Demonstrate proficiency in using industry-standard multimedia design tools and software and Create multimedia content using software such as Adobe Creative Suite (Photoshop, Illustrator, Premiere Pro) or equivalent.

CO30:: Summarize what is International Tourism and evaluate the factors that affect tourism industry globally and Examine the effect of tourist behavior on tourism and Value the tourism policies and the role that various organizations play in International Tourism market.

CO31: Interpret market trends and match and design or redesign Niche Tourism Products appropriate to a particular destination and Understand Niche Segments in Tourism and value their significance

CO32: Design jobs and responsibilities of a Team Leader and Analyse key areas and responsibilities through industry interaction and develop leadership skills and etiquettes of a service culture

CO33: Evaluate the issues and Human Resource needs in Event Management and Build leadership and other essential skills required to be a good event planner and Apply the skills required for specialized events

CO34: Demonstrate proficiency in using industry-standard multimedia design tools and software and Design and produce static graphics, logos, and illustrations for multimedia

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applications. and Edit and produce videos, incorporating appropriate transitions, effects, and audio enhancements.

CO35: Develop Reasoning and Data Interpretation Skills and Learn Problem Solving and Comprehension techniques and Apply placement orientation and undertake mock test and resume testing

CO36:Learn how to convert and analyse raw data into useful information to facilitate strategic decisions at work and Acquire the knowledge on statistical techniques, regression analysis, Forecasting and Data Mining Techniques and Learn how to make a decision tree

CO37: Demonstrate improvement in tourist experience and provide good service to the customers and Appreciate the parameters and benchmarked practices in TQM and Implement quality management strategies in tourism destinations development through case studies

CO38: Define various aspects of Adventure tourism as niche segment in tourism and Appreciate the knowledge necessary to target niche markets in a more effective manner, according to the needs of business as well as market development

CO39: Depict relevant Laws, Codes and regulations relating to the tourism sector for providing professional assistance and advice to tourists and Exhibit knowledge about Company and contract laws and Apply the knowledge pertaining to the Indian Forest Act, The Wildlife Protection Act The Forest Conservation Act, The Air Prevention and Control of Pollution Act, The Environment Act, The National Environment Tribunal Act and Coastal Zone Regulations

CO40. Students will demonstrate practical skills in planning, organizing, and executing field visits and practical exercises in Adventure Tourism, Eco Tourism, and Sports Tourism.

CO41. Students will analyze and evaluate the regulatory frameworks governing tourism and hospitality in India and globally, demonstrating comprehension of key legal and regulatory principles.

CO 42. Students will develop a comprehensive understanding of national policies impacting the tourism industry, including those related to Airport, Rail, and Transport networks, and Hospitality infrastructure.

CO 43. Students will acquire the ability to analyze travel circuits at national and international levels, conduct SWOT analyses, and formulate innovative marketing strategies for new travel circuits, demonstrating strategic thinking and creativity.

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Basantsing Institute of Science & J. T. Lalvani College of Commerce
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Autonomous

Program Name: B Voc in Software Development

CO\PO	Course code	PO1 Adaptability of new technologies	PO2 Logical and analytical thinking	PO3 Data analysis and security awareness	PO4 Research skills	PO5 Implementing computing-based solution	PO6 Experiential learning and business knowledge	PO7 Organizational standards	PO8 Placement and internship	PO9 Communication skills	PO10 Environment and sustainability	PO11 Project management	PO12 Design and develop computer programs	PO13 Writing Skill	PO14 Understand a wide variety of learning algorithms	PO15 Develop formulations for computing models	Weightage	letter grade
CO1	SBSD101									√	√				√		3	L
CO2	SBSD102									√		√					2	L
CO3	SBSD103	√	√	√			√	√		√		√	√		√		9	M
CO4	SBSD104	√	√				√							√			4	L
CO5	SBSD105	√	√	√	√	√			√					√			7	M
CO6	SBSD106	√	√	√	√	√	√	√	√		√		√		√	√	12	H
CO7	SBSD107	√	√			√								√		√	5	M
CO8	SBSD201						√			√		√					3	L
CO9	SBSD202						√										1	L
CO10	SBSD203	√				√		√	√			√		√			6	M
CO11	SBSD204	√	√	√	√			√	√			√					7	M
CO12	SBSD205	√	√	√		√							√		√	√	7	M
CO13	SBSD206	√	√	√		√	√	√	√			√	√				9	M
CO14	SBSD207	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	15	H
CO15	SBSD301	√						√		√					√		4	L
CO16	SBSD302	√				√					√		√	√			5	M
CO17	SBSD303	√	√			√		√		√	√	√	√				8	M
CO18	SBSD304	√	√				√							√			4	L
CO19	SBSD305	√	√	√	√	√	√		√	√		√	√	√	√		13	H
CO20	SBSD306	√	√	√	√				√			√		√			7	M

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Autonomous

Program Name: B Voc in Software Development

CO/PO	Course code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	Weightage	letter grade
CO21	SBSD307	√	√				√	√	√		√			√	√			8	M
CO22	SBSD401		√					√	√	√			√				5	M
CO23	SBSD402			√	√				√			√			√	√	6	M
CO24	SBSD403							√									1	L
CO25	SBSD404	√	√	√	√	√	√	√	√	√	√		√	√			12	H
CO26	SBSD405	√			√			√	√	√							5	M
CO27	SBSD406	√	√	√	√	√		√	√						√		8	M
CO28	SBSD407	√	√	√	√	√	√	√	√			√	√	√			11	H
CO29	SBSD501							√									1	L
CO30	SBSD502	√							√	√							3	L
CO31	SBSD503	√															1	L
CO32	SBSD504	√	√	√	√	√	√	√	√	√		√	√		√		12	H
CO33	SBSD505	√	√	√	√	√	√	√	√	√			√				10	M
CO34	SBSD506	√	√		√				√								4	L
CO35	SBSD507	√	√		√	√										√	5	M
CO36	SBSD601	√															1	L
CO37	SBSD602		√							√							2	L
CO38	SBSD603		√	√													2	L
CO39	SBSD604	√	√	√	√	√		√	√	√					√	√	10	M
CO40	SBSD605	√		√	√			√	√			√					6	M
CO41	SBSD606	√		√		√	√	√			√		√	√			8	M
CO42	SBSD607	√	√			√	√	√	√	√			√	√	√		10	M

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Basantsing Institute of Science & J. T. Lalvani College of Commerce.
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Program Name: Bachelor of Vocation (B.Voc in Software Development)

PROGRAM OBJECTIVES:

PO1: To develop adaptability of new technologies like use of Modern tools, resources and software and apply possessed knowledge of fundamental subjects which will enable students to be 'Future technology ready'.

PO2: To develop logical and analytical thinking in-order to solve Complex scientific problems by using mathematical and statistical tools and techniques.

PO3: To inculcate techniques for data analysis and security awareness by examining data sets with appropriate consideration to security and privacy.

PO4: To instill and nurture research aptitude and analyze various research and scientific problems in the field of IT, exhibit professional ethics and norms of software development

PO5: To empower students in implementing computing-based solution.

PO6: To inculcate entrepreneurial interests through experiential learning and business knowledge and function individually and in teamwork by various live project assignments.

PO7: To enable students to acquire desired competency levels, transit to the job market and, at an opportune time, return for acquiring additional skills to further upgrade competencies, as well as, find opportunities to work not only in India but also abroad.

PO8: To recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change

PO9: To empower students to communicate effectively with the society at large, such as, being able to

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comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO10: To understand the impact of the professional software engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO11: To recognize the applicability of computing and evaluate its impact on individuals, organizations, and global society.

PO12: To empower students to demonstrate knowledge understanding of the scientific and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO13: To enable students with capabilities for designing and developing computer programs/computer - based systems in the areas related to networking and web design.

PO14: To enable students to use writing, financial/statistical, presentation and data collecting/organization tools for academic research and communication.

PO15: To apply a wide variety of learning algorithms and develop capabilities to design and develop formulations for computing models and identify its applications in diverse areas. Understand how to evaluate models generated from data. Apply the algorithms to a real problem, optimize the models learned and report on the expected accuracy that can be achieved by applying the models.

COURSE OUTCOMES:

CO1: Apply the Socio-Cultural Sensitization on Soft Skills development.

CO2: Analyze Situational Communication in French and Role Play

CO3: Use MS Office tools for professional documentation preparation and analysis

CO4: Apply critical thinking and problem-solving skills required to successfully design and implement a web site.

CO5: Identify established techniques for automated reasoning and the algorithms involved

CO6: Constructs Software engineering testing and risk strategies, and develops their appropriate applications.

CO7: Interpret the concepts of Object-Oriented Programming and data structures

CO8: Define cultural negotiations, global leadership & motivational issues – cultural difference in ethics & decision making.

CO9: Summerize Societal marketing concept, Impacts of marketing concepts and its applicability

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CO10: Understand the basic protocols of computer networks, and how they can be used to assist in network design and implementation

CO11: Demonstrate the software structure like abstraction, modularity, interface vs. implementation, layers

CO12: Recognize the principal concepts of calculus.

CO13: Implement the database connectivity and advanced java programming skills

CO14: Design ER-models to represent simple database application scenarios

CO15: Understand the principles underlying cryptographic concepts and technologies available today, including symmetric and asymmetric encryption, hashing, and digital signatures.

CO16: Evaluate workplace to determine the existence of occupational safety and health hazards

CO17: Understand social media marketing, search engine optimization, Freelancer affiliate Marketing, Google Adwords, create advertising campaigns on google

CO18: Develop software in the java programming language.

CO19: Demonstrate various techniques of web development and design also develop a complete website.

CO20: Discuss different routing protocols.

CO21: Design SQA activities, SQA strategy, formal technical review report for software quality control and assurance.

CO22: Identify various financial services and the various types of insurances available 23. Identify and discuss the concepts and procedures of sampling, data collection, analysis and reporting.

CO24: Discuss current Issues and trends in HRM

CO25: Develop software with reasonable complexity on mobile platform 26. Implement MVC based web applications using ASP.NET

CO27: Design and implement appropriate security technologies and policies to protect computers and digital information

CO28: Enhance the knowledge and understanding of Database analysis and design. 29. Implement strategy formulation.

CO30: Develop unconventional talents and skills

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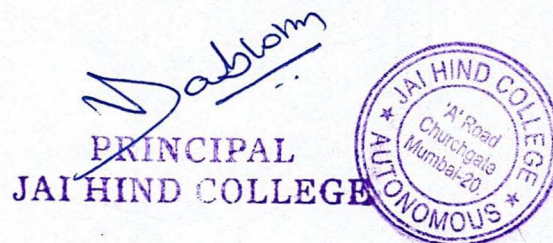
CO31: Recognize layout designs, digital illustration, color theory, typography, image manipulation, branding, packaging and advertising

CO32: Demonstrate forensic tools and case studies

CO33: Design, code, review, test, debug and document own programs.

CO34: Summarize big Data and Hadoop ecosystem

CO35: Demonstrate theory of computation and computational models including decidability and intractability

CO36: Understand masking techniques in Flash

CO37: Implement comprehension & technical writing

CO38: Demonstrate the power of data analytics using case studies

CO39: Identify the basic concepts in Neural Networks and applications

CO40: Describe raspberry Pi Components and interface and its installation.

CO41: Evaluate NoSQL database development tools and programming languages.

CO42: Implement the Concept of optimization and classification of optimization problems.

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