

Course Outcomes 2023-24

Department of Marathi

Class	Course	Outcomes
FYBA (G)	MAR – 111(A) Aadhunik Gadya va padya Vangamay prakar svarup vichar	<ul style="list-style-type: none"> • Develop Marathi reading & linguistic comprehension of students • Develop interest in literature fiction and story. • Inculcate moral and human values within themselves. • Understand the types of Marathi Short Story Writing.
(G)	MAR-121 (A) Aadhunik Gadya va padya Vangamay prakar svarup vichar	<ul style="list-style-type: none"> • Develop Reading, Writing & Communication skills of students • Develop attitude of literary forms Marathi Poetry. • Understand the basic forms of fiction and Poetry. • Students learn Values through literary works.
FYBCom (G)	MAR-102 (B) Optional Marathi- Pravas varnan	<ul style="list-style-type: none"> • The students develop interest in literature. • The students use their moral and social sense in life. • The students are able to make special use of language for their expression.
(G)	MAR-202 (B) Optional Marathi- Upyojit Marathi	<ul style="list-style-type: none"> • The students are able to make accurate use of Marathi language in their respective fields. • The students could communicate effectively in their various business situations. • The verbal and non-verbal skills of communication are developed.
SYBA (G2)	MAR-231 – Vaicharik Gadya	<ul style="list-style-type: none"> • Develop Attitude of Literary forms in Marathi Novel. • Information about the history of modern Marathi Literature. • Information about Literary Theory. • Develop the Novel reading skills.
(G2)	MAR-241 – Katha Rang	<ul style="list-style-type: none"> • Develop Attitude of Literary forms in Marathi Aatmkathan. • Get information well known writer in Marathi. • Get information about the autobiography.
(S-1)	MAR-232 – Madhyayugin Gadya Vangmay Prakaracha Abhyas	<ul style="list-style-type: none"> • Get information about Acidnyapattra. • Get information about Shivaji Maharaj. • Get information well known writer Ramchadra Pant Amatya. • Know the concept Gadya Vangamaya.

(S-1)	MAR-242 – Madhyayugin Padya Vangmay Prakaracha Abhyas	<ul style="list-style-type: none"> • Know the concept Padya Vangamaya. • Get information about Sant Poet & their literature. • Get information about Sant literature forms. • Get information well Known Poet Sant Chokhamela, Sant Janabai, Sant Narhari Sonar etc.
(S-2)	MAR-233 – Sahitya Swarup Vichar	<ul style="list-style-type: none"> • The students develop interest in literature • Information about the ancient Marathi Literature. • Know the concept and process of Literature. • Know Western Poetry Structure in ancient and modern era.
(S-2)	MAR-243 – Sahitya Swarup Vichar	<ul style="list-style-type: none"> • Information about the history of Marathi Literature. • Know the concept & process Literature. • Know the Indian Literature structure in ancient and modern era. • Increase vision regarding literary value.
(SEC)	MAR- 234- Lekhan Kaushalya Mudrit Shodhan	<ul style="list-style-type: none"> • Information about the proof reading • Know the concept and practice proof. • Career oriented guidance this syllabus.
(SEC)	MAR- 244- Lekhan Kaushalya Sarganshil lekhan	<ul style="list-style-type: none"> • Information about the proof reading • Know the concept and practice proof. • Career oriented guidance this syllabus.
MIL	MAR-236- Mudrit Madhymansathi lekhan	<ul style="list-style-type: none"> • Know the concept of creative writing. • The students learn and practices creative writing.
SYBSc (G)	MAR-231 – Kathasangrah (swarup ani Satya)	<ul style="list-style-type: none"> • Develop literary tendencies. • Understand the types of Marathi Short Story Writing, • Get information about the Khandekar Short Story. • Know the concept and process of literature.
(G)	MAR-231 – Natak (Premachya Gava Jave)	<ul style="list-style-type: none"> • Students get the knowledge of the theatre of the times. • The students learn the origin of drama and dramatics art. • The students learn the aspects and genres of drama. • Develop Attitude of literary forms.
TYBA (G3)	MAR-351 – Vangmay prakaracha Abhyas : Natak	<ul style="list-style-type: none"> • Know the concept of Drama. • The students learn the origin of drama as dramatics art. • Students are acquainted with the language, style, dialogue structure of the age to which it belongs.

		<ul style="list-style-type: none"> • Students learn value through literary works.
(G3)	MAR-361 – Vangmay prakaracha Abhyas : Lalit Gadya	<ul style="list-style-type: none"> • Introduce to the Minor genres such as one act play. • Use literature to develop their social and moral sense in life. • Develop attitude of literary forms.
(S3)	MAR-353 – Aadhunik Marathi Vangamayacha Itihas (1920 to 1960)	<ul style="list-style-type: none"> • Know the Types of Marathi Vagamaya. • Study the socio-cultural & Political background on from 1920 to 1960. • Know the brief literature in same period.
(S3)	MAR-363 – Aadhunik Marathi Vangamayacha Itihas (1920 to 1960)	<ul style="list-style-type: none"> • Study the socio-cultural & political background on from 1920 to 1960. • Know the brief literature in same period. • Know the various literary form in same period. • Know the importance of language.
(S4)	MAR-354 – Bhasha Vidnyan	<ul style="list-style-type: none"> • Know the importance of language in human life. • Know the various methods to the study of language. • Understand the communication process and method. • Develop Attitude of Marathi Linguistics & Grammer.
(S4)	MAR-364 – Bhasha Vidnyan	<ul style="list-style-type: none"> • Know the concept of Linguistics. • Know the importance of language in human life. • Know the various methods to the study of language. • Understand the communication process and method.
MA I (P-I)	DSC-1 MAR-411 – Marathi Vangamayacha Itihas (Prarambh to 1818)	<ul style="list-style-type: none"> • Understand Socio-Cultural & Political Impact on Madhyayugin Marathi Literature. • Get information about the history of Medieval Marathi Literature. • Get information about Medieval Marathi Literature forms. • Study social change effect on Medieval Marathi literature.
(P-I)	DSC-5 MAR-511 – Marathi Vangamayacha Itihas (1818 to 1920)	<ul style="list-style-type: none"> • Get information about Sant, Pant & Bakhar Vangmaya in Marathi Literature. • Get information well known poet Sant Tukaram & Ramdas. • Get information about Medieval Marathi Literature forms.
(P-II)	DSC-2 MAR-412 – Samikshashastra	<ul style="list-style-type: none"> • Increase vision regarding literary value. • Know the importance of criticism. • Know the concept and process of Literature.

(P-II)	DSC-6 MAR-512 – Aadhunik Bhashavidnyan	<ul style="list-style-type: none"> • Develop of critical approach about Art & Literature. • Know the research methodology & process. • Know the importance of research.
(P-III)	DSC-3 MAR-413 – Gramin Sahitya	<ul style="list-style-type: none"> • Know the literary contribution of the Writer. • Know the life value among the literatures. • Get introduction of Writer & Literature.
(P-III)	DSC-7 MAR-513 – Dalit Sahitya	<ul style="list-style-type: none"> • Know the story of Aasaram Lomate. • Study life and literary value of Lomate Story. • Study of Rajan Gavas Short Story.
(P-IV)	DSC-4 MAR-414 – Marathi Bhasha ani Kaushalye Vikas	<ul style="list-style-type: none"> • Introduce new trends in Marathi Literature. • Know the Characteristics of feminine Literature. • Know the importance of feminism.
(P-IV)	DSC-8 MAR-514 – Marathi Bhasha ani Kaushalye Vikas	<ul style="list-style-type: none"> • Know the history of the feminine movement of Maharashtra. • Get introduction of feminine agitation India. • Study of literature in feministic approach.
MA II (P-V)	DSE-1 MAR 415 (A) Vangmay Prakar-Charitra	<ul style="list-style-type: none"> • Know the brief literature in same period. • Know the various literary form in same period. • Study the Socio-Cultural & Political background of 1945 to 1960 periods.
(P-V)	DSE-1 MAR 415 (B) Aatma Kathan	<ul style="list-style-type: none"> • Study the Socio-Cultural & Political background of 1945 to 1960. • Know the brief literature in same period • Know the various literary form in same period.
(P-VI)	DSE-1 MAR 415 (C) Swayanm Course	<ul style="list-style-type: none"> • Know the importance of language in human life. • Know the various methods to the study of language. • Understand the communication process and method.
(P-VI)	DSE-2 MAR- 515 (A) Vangmay Prakar-Kadambari	<ul style="list-style-type: none"> • Know the importance of language in human life. • Know the various methods to the study of language. • Understand the communication process and method.
(P-VII)	DSE-1 MAR- 515 (B) Pravasvarnan	<ul style="list-style-type: none"> • Introduce the literary form after 1960. • Know the literary trend in Marathi literature after 1960.

		<ul style="list-style-type: none"> • Study the impact on literature of the Socio-Political and Cultural background of Maharashtra after 1960.
(P-VII)	DSE-1 MAR -515 (C) Swayanm Course	<ul style="list-style-type: none"> • Study the impact on literature of the socio political and cultural background of Maharashtra after 1960. • Know the literary trend in Marathi Literature 1960. • Introduce the literary form after 1960.
(P-VIII)	DSE-RM- MAR -516 Sanshodhanpadhati	<ul style="list-style-type: none"> • Students will be understood research and economic problems. • Students will be used data to construct economics arguments and understand the research problems associated with interpreting the results. • Students will be use varies methods along with the economic models to assess the validity of various economic and policy relevant arguments. • Students will be understand the role of sample selection/indignity in affecting results and how one might best correct for these issues.
(P-VIII)	DSE- OJT - MAR -516 Prakashan Vyavahar	<ul style="list-style-type: none"> • Know the concept of Khandeshi Loksahitya. • Know the tradition of folk literature in Khandesh region. • Know the co-relation between folk literature and other branches. • Know the new trends study of folk literature in new era.

Department of Hindi

Class	Course	Outcomes
FYBA	DSC HIN A-1 Hindi Kahani	<ul style="list-style-type: none"> • Develop Hindi reading & linguistic comprehension of students. • Develop interest in literature story. • Inculcate moral and human values within themselves. • Understand the types of Hindi Short Story Writing.
FYBA	DSC HIN A-2 Hindi Kavita	<ul style="list-style-type: none"> • Develop Reading, Writing & Communication skills. • Develop knowledge of literary forms Hindi poetry. • Understand the basic forms of Poetry. • Learn values through Hindi Poem.
FYBCom (G)	HIN-102 Optional Hindi	<ul style="list-style-type: none"> • Develop interest in literature. • Use their moral and social sense in life.

		<ul style="list-style-type: none"> • Make special use of language for their expression.
(G)	HIN - 202 Optional Hindi	<ul style="list-style-type: none"> • Make accurate use of Hindi language in their respective fields. • Communicate effectively in various business situations. • The verbal and non-verbal skills of communication are developed.
SYBA (MIL)	MIL-I HINDI- Lekhan Koushal: Media Evam Sahitya (Laghukatha)	<ul style="list-style-type: none"> • Develop knowledge of Literary forms in Hindi Short Story. • Obtained information about the history of modern Hindi Short Story. • Obtained information about Journalism, types of Journalism. • Develop the Media Writing skills.
(MIL)	MIL-II- HINDI- Lekhan Koushal: Media Evam Sahitya (Geet-Navgeet)	<ul style="list-style-type: none"> • Develop knowledge of Literary forms in Hindi Geet-Navgeet. • Get information about well-known lyricist in Hindi. • Get information about Media Writing ie. Print Media, Electronic Media, Social Media.
DSE-I-(A)	DSE-I A-HINDI – Kavyashashtra	<ul style="list-style-type: none"> • Know Indian Poetry structure in ancient and modern era. • Know the importance of criticism. • Increase vision regarding literary value. • Get information about Alankar in Hindi Literature.
DSE-I-(B)	DSE-I -B-HINDI – Kavyashashtra	<ul style="list-style-type: none"> • Know the concept types of Literature. • Get information about Gadya & Padya Vidha's. • Get information about Chhand in Hindi Literature. • Know the concept and process of literature. • Know Western Poetry Structure in ancient and modern era.
DSE-II-(B)	DSE-II -B-HINDI – Upanyas Vidha – Samay Saragam	<ul style="list-style-type: none"> • Develop interest in Novel. • Get information about the ancient Hindi Literature. • Know the concept and process of Literature. • Understand Novel forms and their types.
DSE-II-(B)	DSE-II -B-HINDI – Natak Vidha – Dharati Aba	<ul style="list-style-type: none"> • Know the concept of Drama. • Know the concept and process of dramatics. • Increase vision regarding literary value. • Learn the origin of drama as dramatic art.
DSC-I(C) A	DSC-I(C) A HINDI : Kathettar Gadya Vidhayen	<ul style="list-style-type: none"> • Know the concept of Hidi Kathettar Gadya. (non-scriptural prose compositions). • Get information about various literary forms. • Get information about various writer and their literature.

		<ul style="list-style-type: none"> • Tried to promote and preserve human values through Hindi Kathettar Gadya.
DSC-I(D) A	DSC-I(D) A HINDI : Shreshth Hindi Ekanki	<ul style="list-style-type: none"> • Historical introduction of hindi one act play form. • Obtained information about hindi one act play writer. • Tried to promote and preserve human values through Hindi Kathettar Gadya
SEC-1 HINDI	SEC-1 HINDI : Bhashik Sampreshan	<ul style="list-style-type: none"> • Get introduced to Linguistic form of Hindi language. • Obtained information about concept of linguistic communication. • Get introduced to verbal communication and non-verbal (written)communication.
SEC-II HINDI	SEC-II HINDI : Anuwad Vigyan	<ul style="list-style-type: none"> • Know the concept of Translation. • Obtained information about Literary Translation. • Obtained information about Literary Translation.
TYBA (G3)	HIN-351 – One Act Play,	<ul style="list-style-type: none"> • Get introduced to the Minor genres such as one act play. • Acquainted with the language, style, dialogue structure of the age to which it belongs. • Learn value through literary works.
(G3)	HIN - 361 – Essay and Hindi Grammer	<ul style="list-style-type: none"> • Get introduced to the Minor genres such as Essay. • Use literature to develop their social and moral sense in life. • Develop knowledge of literary forms.
(S3)	HIN - 353 – Hindi Sahitya Ka Itihas	<ul style="list-style-type: none"> • Hindi literature which acquainted them to the correct usage language. • Use the Literature to develop their social and moral sense in life. • Study the socio-cultural & political background of Adikal to Ritikal.
(S3)	HIN - 363 – Hindi Sahitya Ka Itihas	<ul style="list-style-type: none"> • Study the socio-cultural & political background from Adhunik Kal. • Know the brief literature in same period. • Know the various literary form in same period. • Know the importance of language.
(S4)	HIN-354 – Bhasha Vidnyan Evam Rashtrabhasha Hindi Andolan ka Itihas	<ul style="list-style-type: none"> • Know the importance of language in human life. • Know the various methods to the study of language. • Understand the communication process and method. • Develop knowledge of Hindi Linguistics & Grammar.
(S4)	HIN-364 – Bhasha Vidnyan	<ul style="list-style-type: none"> • Know the concept of Linguistics. • Know the importance of language in human life. • Know the various methods to the study of language.

		<ul style="list-style-type: none"> • Understand the communication process and method.
MA II (P-V)	HIN-2310 – Gen Level : Poetry	<ul style="list-style-type: none"> • Get acquainted with the language, poetic style, diction of the age to which it belongs. • Learn values through literary works.
(P-V)	HIN-2410 – Gen Level : Poetic Drama, New Poetry and Gazal	<ul style="list-style-type: none"> • Know the new trends, study of poetic Drama, New Poetry and Gazal literature in new era. • Learn Values through literary work. • Get acquainted with the poetic style, diction of the age to which it belongs.
(P-VI)	HIN-2320 – Bhasha Vigyan	<ul style="list-style-type: none"> • Understand the communication process and method. • Know the importance of language in human life. • Know various methods of the study of language.
(P-VI)	HIN-2420 – Bhashavidnyan	<ul style="list-style-type: none"> • Know the importance of language in human life. • Know various methods of the study of language. • Understand the communication process and method.
(P-VII)	HIN-2330 – Spl. Level : Hindi Sahitya Ka Itihas	<ul style="list-style-type: none"> • Study the Historical Development of Hindi Literature. • Know the brief literature in same period. • Know the various literary form in same period.
(P-VII)	HIN-2430 – Hindi Sahitya ka aadhunik Itihas	<ul style="list-style-type: none"> • Study the socio-cultural & political background from 1900 till date. • Know the brief literature in same period. • Know the various literary from in same period.
(P-VIII)	HIN-2340 – Spl. Level Opt. : Loksahitya	<ul style="list-style-type: none"> • Know the co-relation between folk literature and other branches. • Know the concept of folk literature. • Know the tradition of folk literature in India. • Know the new trends in the study of folk literature in new era.
(P-VIII)	HIN-2440 – Spl. Level Opt. : Prayojanmulak Hindi	<ul style="list-style-type: none"> • Understand the communication process and method. • Get introduced to the media writing. • Get introduced to the various aspects of Devanagari script.

Class	Course	Outcomes
F.Y. B. A.	Compulsory English	<ul style="list-style-type: none"> • Students will develop the ability to comprehend the written texts. • Moral and human values will be inculcated amongst the students. • Students will be aware of the aesthetic pleasure of literature. • Students will be proficient in speaking and writing English for different purposes. • Students will be aware of the importance of the communicative competence.
F.Y. B. A.	DSC1 A & B	<ul style="list-style-type: none"> • The course will introduce the basic forms of literature to the students. • The course will develop the liking of reading in the students. • The course will inspire students to develop their creative ability. • Consequently, the course will develop reading skill and creative and expressive ability of the students.
F.Y.B.Com.	Core Elective English for Business	<ul style="list-style-type: none"> • Students will be familiar with the basics of the communication theory. • Various skills of communication – L S R W skill, will be imbibed amongst the Students. • Students will have the ability to work in a team. • Other soft skills like problem – solving skills, Leadership Skills, Strong Work, ethics will have roots in the student’s personality. • Students will have linguistic competencies through various grammatical and vocabulary exercises.
F.Y.B.Com.	AEC I	<ul style="list-style-type: none"> • Students will know few famous entrepreneurs, inspiring them to know more celebrity – biographies from the world of commerce, trade & Industry. • Students will develop English reading and linguistic comprehension. • Students will Improve professional and entrepreneurial attitude. 4. Students will be acquainted with special challenges of starting new ventures. • Students will be introduced with the qualities of the successful entrepreneurs.
F. Y. B. Sc.	AEC-A	<ul style="list-style-type: none"> • Students will be able to develop writing and reading skill • Students will be able to use of English language through different means. • Students will be able to make creative use of English language
F. Y. B. Voc.	VOC. 101 & 201 & Linguistic Proficiency (I & II) (English)	<ul style="list-style-type: none"> • Expression power and Comm. Skills of the students in English will prove. • Students will be able to identify the necessities of behavioural & expressive attitudes, as per situations. • Students will be able to write formal letters. • Presentation skills of students will improve. • Students will be able to face interviews.
S.Y.B.A.	Compulsory English CENG- 101 & 201	<ul style="list-style-type: none"> • Students will understand the written text. • Some human and moral values will be inculcated amongst students.

		<ul style="list-style-type: none"> • Communicative competence of students will be developed, with special reference to SMS, E-Mail, Net Lingo etc. • Students will learn to communicate through Situational • Dialogues, News Writing, Information Transfer: Non-verbal, Verbal • Students will get acquainted with formal and informal styles in using English. • Students will be able to make and use new words.
S.Y.B.A.	DSC 1 C & D	<ul style="list-style-type: none"> • Students will develop interest in reading/understanding novel and drama. • Students will be acquainted with Novel and Drama as genres of literature. • Students' competence to study, understand, analyse and interpret novel and drama will be developed. • Students will understand key terms useful in the study of novel and drama. • Students will understand major types of novel and drama.
S.Y.B.A.	DSE 1A & B	<ul style="list-style-type: none"> • Students will be acquainted with the major literary trends and tendencies and prominent writers of the 16th and 17th Century • English Literature. • Students will be aware of the literary history, salient features and sociocultural background of the period. • Students will be able to grasp the content and critically appreciate the prescribed texts. • Liking for the Elizabethan and Post Shakespearean literature will be inculcated amongst students.
S.Y.B.A.	DSE 2 A & B	<ul style="list-style-type: none"> • Students' will understand basic ideas about the 18th and 19th • Century English Literature with special reference to Poetry and Novel. • Students will be aware of the literary history, salient features, socio-political and cultural background of the Romantic and Victorian age. • Students will be able to grasp the content and critically appreciate the prescribed Texts. • Liking for the Romantic and Victorian literature will be inculcated amongst students.
S.Y.B.A.	SEC-I	<ul style="list-style-type: none"> • Students will be able to prepare for the competitive exams of various kinds especially meant for testing ability in English language. • Students will be introduced with the common question types asked in competitive examinations concerning English- grammar, vocabulary, comprehension, and other significant topics. • Students will be motivated to to appear and prepare for the competitive exams. • Students will be able to overcome the fear about English as a compulsory subject in various competitive exams.
S. Y. B. sc.	AEC-B	<ul style="list-style-type: none"> • Development of research aptitude among students will further boost their confidence for research. • Students will be introduced to basics of research. • Communication skills of students will be improved.

		<ul style="list-style-type: none"> • Student will be motivated to participate in research conventions like Avishkar, Indradhanushya. Anveshan etc.,
S. Y. B. Voc.	VOC- 301 Linguistic Proficiency III (English)	<ul style="list-style-type: none"> • Students will become good English communicators. • Students can successfully present themselves in seminars, oral presentations, interviews etc.
T.Y.B.A.	Compulsory English CENG- 351 & 361	<ul style="list-style-type: none"> • Students will master the skills of reading, writing, listening and speaking. • Students will be proficient in communication skills. • Students will develop into morally and ethically strong human beings. • Students will acquire conversational skills in daily life.
T.Y.B.A.	General Paper III ENG- 351 & ENG- 361	<ul style="list-style-type: none"> • Students will know the origin, history, and development of English drama. • Students will develop the ability to critically appreciate dramas. • Students will gain knowledge of the socio-cultural milieu of the various phases of development of English drama. • Students will gain knowledge about various trends and movements in English drama during different literary periods.
T.Y.B.A.	Special Paper - III Eng. 352 & 362	<ul style="list-style-type: none"> • Students will be acquainted with the growth of Indian Drama and Novel in English during the 20th Century. • Students will be able enough to evaluate, analyze, appreciate and criticize the prescribed Novel and Drama. • The socio-political, cultural background along with the literary movements of the country will be known to students. • Students will understand the developments in American Poetry and Novel.
T.Y.B.A.	Special Paper – IV Eng. 353 & 363	<ul style="list-style-type: none"> • Students will be introduced with the properties and functions of language. • Phonological competence will be inculcated amongst the students. • Students will have better understanding of the English grammatical forms and functions. • Students will get an acquaintance with morphological concepts and processes. • Students will have an introductory information of the basic concepts from syntax and semantics.

Department of Economics

Class	Course	Outcomes
F.Y.B.A	Fundamental Economics	<ul style="list-style-type: none"> • Describe the Nature of scope and subject matter of Economics • Understanding The compete circular flows of Economic Activities • present the Law of Diminishing Marginal Utility

		<ul style="list-style-type: none"> • Identify of the Price Elasticity of Demand • Introduce the Concept of Revenue. • Identify of the Law of Supply. • Classify of the Market. • Understanding the Demand supply and Equilibrium Perfect competition market
F.Y.B.A	Fundamental Economics	<ul style="list-style-type: none"> • Classify of the Economic development and Economic Growth. • Identify of the Indicators of Economic Development. • Describe the Exchange system. • Present the Role of Banking. • Introduce of the Differences International and internal Trade. • Classify of the Differences Between BOT and BOP. • Understanding the Government expenditure • Introduce of the Government budget and types of budget.
S.Y.B.A	Indian Economy Since 1980-I	<ul style="list-style-type: none"> • Introduce of Developing Economy • Identify of Mixed Economy • Describe of LPG and structural changes in economy • Introduce of Indicators of Human Development • Identify of Problems of High Population • Describe the Recent National Population Policy • Understanding the Energy: Importance • Present of Transport: Road, Railway, Air a Types • Introduce of Irrigation: Sources and Problem • Describe the Agricultural Finance • Classify of the Agricultural Marketing • Understanding the Problem of farmers suicide : Causes and Measures

S.Y.B.A	Indian Economy Since 1980-II	<ul style="list-style-type: none"> • Introduce of Role of Industrialization in Economy • Identify of small scale Industries • Introduce of New Industrial Policy • Introduce of Co-operative Banking • Describe the Co-operative Sugar Industries • Defects in co-operative system • Present of Strategies of Planning • Classify of the Achievements and Failures • In Classify of the SEZ • Understanding the Disinvestment policy • Introduce of Direct Cash Transfer Schemetroduce of XIIth Five Year Plan : Objectives
S.Y.B.A	DSE ECO 232 A - Agricultural Economics-I	<ul style="list-style-type: none"> • Understand of the Agricultural Economics: Definition and meaning; nature scope and Importance. • Introduce of Agriculture sector in Economic Development. (Special Reference to Indian Economy) • Understanding of Dependency between Agriculture and Industry. • Classify of the Types of land holding (Basic holding optimum holding, family holding, operating holding, marginal and small size holding, medium and large size holding) • Identify of The Size, productivity and efficiency of land holding. • Describe of Farm organization: peasant/ farming, capitalist farming, state farming, collective farming, cooperative farming, group farming, contract farming, organic farming. • Understand of the Most suitable farm organization for Indian Agriculture • Identify of the Differences between risk and uncertainty, types of uncertainty, measures to deal with uncertainty • Classify of the Instability of agriculture: Types of instability in agriculture (Price instability, income instability) • Classify of the Types of fluctuation and their causes (Long term movement, cyclical fluctuation, seasonal fluctuation, annual fluctuation, irregular fluctuations.)
S.Y.B.A	DSE ECO 242 B - Agricultural Economics- II	<ul style="list-style-type: none"> • Identify of the Objectives of agricultural price policy • Understand of the Bases of price fixation • Describe of Price policy for agricultural inputs. • Classify of the Consumer protection and agricultural price policy. • Introduce of the Agricultural price policy in India: Agricultural price policy before 1965, positive Agricultural price policy after 1965 (Agricultural prices commission, objectives of Agricultural price policy in India, Important constituents of Agricultural price policy in India, fixation of minimum support prices, distinction between support prices and procurement prices) • Identify of the Recent price policy of India (Reforms period) • Identify of the Importance of an efficient system of agricultural marketing.

		<ul style="list-style-type: none"> • Describe of the Efficiency criteria for agricultural marketing. • Classify of the Efficiency of the Indian agricultural marketing • Introduce of the Mechanization in agriculture, meaning, Desirability of mechanization of Indian agriculture, arguments for and against. • Describe of Meaning of Agricultural labour, classification of Agricultural labour. • Identify of Growth in the number of Agricultural labours in India and its causes • Understanding of the problems Minimum wages of Agricultural labour. • Describe of the Migration of Agricultural labours. • Solving of the Problems and difficulties of Agricultural labours, suggestion to solve the problems of Agricultural labours.
S.Y.B.A	Advanced Macro Economics-I	<ul style="list-style-type: none"> • Introduce of Macro Economics. • Introduce of the Scope of Macro Economics. • Describe of the Importance • Introduce of the National Income. • Understanding of the Gross National Product (GNP) • Understanding of the Gross Domestic Product (GDP) • Describe of the Says Law of market. • Describe of the Theory of Employment. • Classify of the effective demand • Describe of the consumption function • Analysis of the Investment function. • Describe of the accelerator principle.
S.Y.B.A	Advanced Macro Economics II	<ul style="list-style-type: none"> • Understand of the money supply. • Introduce of the Commercial Banks. • Analysis of the Quantitative and Qualitative credit controls • Describe of the Concept of Money • Analysis of the Cambridge approach • Analysis of the Fishers approach • Describe of the Trade cycle • Analysis of the pull and cost push inflation • Describe of the Stagflation. • Analysis of the Macro Economic Policies. • Understand of the Phillips Curve. • Analysis of the Supply side economics

S.Y.B.A	SEC ECO 234-Research Methodology for Economics-I	<ul style="list-style-type: none"> • Introduce of research • Classify the Types of Research • Describe of Economics Research • Introduce of Nature of Economics Research • Importance and Limitation of Economics Research • Understanding of Research Design • Describe of the Characteristics of Good Necessary of Research Design • Classify the type of Research Design • Introduce of Research Hypothesis • Classify the Type of Data Collection • Introduce by the Questionnaire. • Understanding the Observation- Meaning, Types, Merits and demerits of each type, Process of observation, precaution of take for observation.
S.Y.B.A	SEC ECO 244-Research Methodology For Economics-II	<ul style="list-style-type: none"> • Introduce of Secondary data collection • Classify of the Types of secondary data • Describe of the Merits and demerits of secondary data • Understanding the Case study • Introduce Historical method • Understanding of Sampling • Classify the Types of sampling
T.Y.B.A	Indian Economy Since-1980	<ul style="list-style-type: none"> • Introduce of The structure of Indian Financial system • Identify of the Functions of SEBI. • Classify of the Progress of Banking since Nationalization. • Identify the Function of RBI. • Introduce of the compositions of India s foreign Trade. • Describe of the import substitution. • Introduce the concept of LPG. • Classify of the Effects of Globalization on Indian Economy.
T.Y.B.A	Indian Economy Since- 1980	<ul style="list-style-type: none"> • Identify of the Functions of Finance and planning commission. • Classify of the Financial conflict Between centre and state. • Describe of the Tax Revenue and State Government. • Introduce of the problem of black money in India. • Classify of the Trends in central and state Government expenditure. • Identify of the Effects of public expenditure. • Describe of the sources of public Debt.

		<ul style="list-style-type: none"> • Classify of the Effects of Deficit finance
T.Y.B.A	Public Finance And Polices	<ul style="list-style-type: none"> • Describe of the Meaning Nature and scope Public finance. • Classify of the Role of public finance and development Economy. • Identify of the Kind of Tax Direct and indirect Tax Service Tax and VAT MOD VAT. • Introduce The Benefit Approach. • Understand of the Ability to Pay Approach. • Understanding of the Needs of Government Intervention. • Classify of the Tools of Government Intervention.
T.Y.B.A	Public finance And Policies	<ul style="list-style-type: none"> • Describe of the Meaning Principal of public expenditure. • Introduce of the Revenue and capital expenditure. • Present the Burdern of public Debt. • Classify of the Role of public debt in Development Economies. • Introduce the Instrument of Fiscal policy. • Classify of the Role of Fiscal policy in developing countries. • Describe of the Deficit financing. • Identify of the Role of Budgetary policy In Economic development
T.Y.B.A	International Trade And Practices-I	<ul style="list-style-type: none"> • Introduce the International Trade and Economic development. • Describe of the Theories of international Trade. • Classify of the Trade policy and Free trade and protection policy. • Introduce of the Tariffs Meaning and Classification. • Classify of the Balance of trade and Balance of payment. • Classify of the Equilibrium and Disequilibrium of Balance of payment. • Describe of the Foreign exchange Rate • Classify of the Methods of Exchange Control.
T.Y.B.A	International Trade And Practices-I -II	<ul style="list-style-type: none"> • Describe of the International Capital Movement. • Introduce of the portfolio Investment. • Identify of the Role of MNCs in developing countries. • Introduce the International Monetary fund. • Identify of the World Trade Organization Functions. • Introduce of the BRICS Thought and Origin. • Describe of the Devaluation meaning and Objectives. • Classify of the Convertibility of Rupee Partial and Full convertibility. • Identify of the General Features of Eurocurrency Market.

		<ul style="list-style-type: none"> • Introduce of the New Currency of European Union.
T.Y.B.A	Modern Banking & Indian Financial Market	<ul style="list-style-type: none"> • Introduce of Banking- Evolution and Development of Banking, meaning and Definition of Banking • Understand the Process of account opening, operating and closing of Account. • Classify of the Relation between bankers and Consumers • Identify the Know your Customer (KYC) • Identify the Customer Credit Assessment • Understanding of Role, functions of Technology in Banking and Computerization in Banking • Understanding of Electronic fund Transfer, Electronic clearing service, Real time Gross Settlement system, National Electronic fund Transfer, National Settlement System, E- parches / E-money, fund Transfer at point of sale. • Understanding of Automatic machine in Banking Services- Automatic Teller Machine, Cash Deposit Machine, Cheque Deposit Machine, Passbook Printing Machine, Note and Coin Counting Machine. • Identify of the Payment Cards – Debit Card, Credit Card, Virtual Card • Identify of the Modern Banking Services - Tele Banking, Internet Banking, Mobile Banking, Core Banking, Virtual Banking, Insurance, Demat account. • Classify of the Banking Code and Security- IFSC code, MICR code, PIN, OTP, CVV, Fund Transfer App (BHIM and Other) • Identify of Precaution in using Technology in Banking.
T.Y.B.A	Sec -4 Eco-364 Indian Financial Market	<ul style="list-style-type: none"> • Understand of Functions of Financial system in India. • Introduce of the Progress of Commercial Banking in India. • Describe of Development Banking & Financial Institution, Non-Banking Financial Institution in India. • Identify of Banking sector Reform in India. • Describe of the Money market – Meaning, features, Objectives, Importance and Defects of Money Market • Understand of the Constituents of Money Market. • Introduce of Capital market- Meaning, Features, Objectives, Role & Defects of Capital Market. • Identify of the Mutual funds and discount and finance house of India (DHFI) • Introduce of Security Market • Understand of the Participatory Notes (PNs) and Short Selling • Identify the Financial regulation and security Exchange Board of India (SEBI).
T.Y.B.A	GE 1 (A) Eco-355 Indian Economic Environment- I	<ul style="list-style-type: none"> • Describe of the Business- Meaning, Nature, Classification, Features, Objectives and limitations of Business • Understanding the Environment – Meaning, Steps of Environmental Analysis • Classify the Types of Business Environment. • Identify the Economic role of Government in Economic Environment of Business, Role of a Business Economist. • Identify of the Business Environment in India

		<ul style="list-style-type: none"> • Introduce the Role of Agriculture in Economic Development (Reference to Indian Economy). • Describe of the Business Directly Dependent on Agriculture – The Agro- based Industry • Identify the Indian Agricultural Policy - An Overview.. • Understand of Infrastructure – Meaning, Characteristics, Importance for Business • Introduce the Transport and Communication Services • Identify the Role of Industry in India’s Economic Development • Identify of Some Problem of Industrial development in India • Introduce of New Industrial Policy- .1991 • Describe of the Privatization and Disinvestment – Meaning, and Rationale of Privatization, Evaluation of Privatization policy in India, Disinvestment in India • Introduce the Mergers and Acquisitions- Meaning, Types of objectives of merger and takeover
T.Y.B.A		<ul style="list-style-type: none"> • Describe the Characteristics of Indian Labour and Employment, Working conditions of Labour... • Classify the Social Security in Indian and Trade Union. • Identify of Industrial Dispute - Meaning, causes, Dispute in India, Measures Solve Industrial Dispute • Understand the Industrial Sickness - Meaning, size, causes, Consequences, Remedial Measures • Introduce the Provision of Companies act -2013, Revival and Rehabilitation of sick Companies • Introduce of the Insolvency and Bankruptcy code 2016 • Understand of the consequences of intuition, Anti- inflationary policy of the Government. Characteristics of Money Market • Classify of the Money Market – Unorganized and Organized sector in Indian Money Market, • Identify of Capital Market – Meaning, Structure and in Role of Capital market in Indian Economy. Growth of Capital Market in India, Reforms in Capital market • Identify the Stock Market – Definition, Functions, SEBI • Describe and classify the Foreign Capital – Needs and components of foreign Capital, Foreign Investment (Meaning, Types, advantage and disadvantage, Inflow and policy of Government) • Identify the Globalization and WTO • Understanding of Fiscal Policy – Objectives, The fiscal imbalance and new fiscal Approach, fiscal Responsibility • Introduce the Tax Structure – Direct and Indirect Taxes (GST) • Introduce of Exim Policy – (Recent) • Describe the Monetary Policy- Credit control by BI, Recent Monetary policy of RBI. • Identify of the National Manufacturing policy, make in India. • Classify of FERA- and FEMA
M.A.I	ECO- 411: Advanced Microeconomic Analysis-I & II	<ul style="list-style-type: none"> • Students will be able to identify and explain economic concepts and theories related to the behaviour of economic agents, markets, and industry structures.

		<ul style="list-style-type: none"> • Students will be able to integrate theoretical knowledge in order to explain past economic events and to formulate predictions on future ones. • Students will evaluate the consequences of economic activities and institutions for individual and social welfare. • Students will be able to identify the scientific nature of the problems in the economic field.
M.A.I	DSC-2 ECO- 412: Public Finance- I	<ul style="list-style-type: none"> • Student will understand social welfare expenditure schemes, the growth and economic development. • Student will understand and will be able to discuss on various theories related to tax, public expenditure. • Students will be able to understand changes in Tax system. • Students will understand functional relation between central government and states.
M.A.I	DSC-3 ECO- 413: Agricultural Economics-I	<ul style="list-style-type: none"> • Students will be able to understand Indian Agricultural Sector. • Students will be able to discuss on various issues related to Indian Agriculture. • Students will understand agriculture price in India, Impact of price on agricultural activities. • Students will understand relation between price and marketing strategies.
M.A.I	DSC-4 ECO- 414: Statistics-I	<ul style="list-style-type: none"> • Students will be familiar with nature of statistics and central tendency • Students will have concrete knowledge of dispersion and skewness. • Students will be competent to construct index number • Students' understanding for uses of time series will be developed
M.A.I	DSE-1-A ECO- 415 A: Industrial Economics-I	<ul style="list-style-type: none"> • Student will be able to understand relation between finance and Industrial development. • Student will be able to understand knowledge regarding industrial productivity and efficiency. • Students will be able to understand theory of industrial location. • Student will be able to understand basic knowledge of Industrial Economics.
M.A.I	DSE-1-B ECO- 415 B: Environment Economics-I	<ul style="list-style-type: none"> • Student will be able to understand basic knowledge of Environmental Economics. • Students will be able to understand theory of population and environment. • Student will be able to understand knowledge regarding Environment Degradation Control Policies & Measures. • Students will be able to understand Pollution Control Policy on Global & Local Levels.
M.A.I	DSE-1-C ECO- 415 C: Rural Development	<ul style="list-style-type: none"> • Students will be able to understand Rural Economy. • Students will be able to understand dimensions of Rural Development. • Will understand relation between Poverty and Unemployment. • Will acquire knowledge on Recent Rural Problems and Recent Programmes of Rural Development.
M.A.I	RM ECO- 416: Research Methodology for Economics	<ul style="list-style-type: none"> • Students will be able to understand research and economic problems.

		<ul style="list-style-type: none"> • Students will be used data to construct economics arguments and understand the research problems associated with interpreting the results. • Students will be use varies methods along with the economic models to assess the validity of various economic and policy relevant arguments. • Students will be understand the role of sample selection/indignity in affecting results and how one might best correct for these issues.
M.A. II	DSC-6 ECO- 422: Public Finance- II	<ul style="list-style-type: none"> • Students will understand knowledge regarding Government Budgeting. • To understanding Government Budget and Deficit Financing. • Discuss on Trends of Public finance in India. • To understand fiscal policy and federal finance.
M.A.II	DSC-7 ECO- 423: Agricultural Economics –II	<ul style="list-style-type: none"> • Students will able to understand Economics of Agricultural Production. • Students will find out some solutions on varies issues related to Indian Agriculture labour and technology. • Students will able to understand relation between WTO and Indian Agricultural. • Students will able to understand labour productivity and production.
M.A. II	DSE-2-A ECO- 425 A: Industrial Economics-II	<ul style="list-style-type: none"> • Student will able to understand basic knowledge of Industrial Economics. • Students will able understanding of theory of industrial location. • Student will able to understand knowledge regarding industrial productivity and efficiency. • Student will able to understand the advanced knowledge of Industrial Decisions- Market structure, Investment and Pricing decisions.
M.A. II	DSE-2-B ECO- 425 B: Environment Economics-II	<ul style="list-style-type: none"> • Student will able to understand basic knowledge of Environmental Economics. • Students will able understanding of theory of population and environment. • Student will able to understand knowledge regarding Environment Degradation Control Policies & Measures. • Students will able understanding Pollution Control Policy on Global & Local Levels.
M.A. II	DSE-2-C ECO- 425 C: Demographic Economics	<ul style="list-style-type: none"> • Students will able to understand dimensions of Demographic Economics. • Will understand relation population and economic development. • Will acquire knowledge on Recent Trends in India’s population and World Population. • Will acquire knowledge regarding understand concept of Quality of Population.

Department of Geography

Class	Course	Outcomes
F.Y.B.A	Physical Geography -Part I	<ul style="list-style-type: none"> • Write down the effect of rotation of revolution the Earth • Describe of the interior structure of the earth • Write down the importance of longitudes & latitudes International Date line and Standard time • Which are Theory regarding of Origin of Continents and oceans • Describe the formation of Rocks Understand the work of internal and external forces and their associated landforms.
F.Y.B.A	Physical Geography -Part II	<ul style="list-style-type: none"> • Write down the importance of Atmosphere • Describe the composition of atmosphere • Write down how to measure of Atmospheric Pressure and formation of Pressure Belts • Identify the types of winds
S.Y.B.A	Practical Geography Study of Scales, Projections and Surveying (with the help of plane Table and G.P.S.) (S2)	<ul style="list-style-type: none"> • Identify the different surveying techniques. • Write down the information about preparation of layout. • Describe the socio economic condition of the villages. • Acquire knowledge of preparation of drawing of profile with the help of Dumpy level.
F.Y.B.sc	Paper- I Physical Geography (Lithosphere)	<ul style="list-style-type: none"> • Describe the fundamentals of Physical Geography. • Write down the latitudes, longitudes and international dead line. • Describe the origin of various landforms. • Identify the formation of rocks there types and uses. • Write down the work of internal forces.
F.Y.B.sc	Paper - I Physical Geography (Lithosphere -II)	<ul style="list-style-type: none"> • Write down the external forces. • Classify the landforms and process. • Identify denudation processes
S.Y.B.A	Economic Geography(G2)	<ul style="list-style-type: none"> • Describe the economic activity with characteristics • Write down the problem and prospect about agriculture, trade and transport. • Describe the need of conservation and Protection of natural resources. • Describe the distribution of minerals & power resources
S.Y.B.A	Human Geography(G2)	<ul style="list-style-type: none"> • Describe the relationship of man and environment • Studies of races of man kinds

		<ul style="list-style-type: none"> • Write down information modes of life of Santhal, gonad, Bhil And nagas.
F.Y.B.sc	Paper- II Physical Geography (Atmosphere)	<ul style="list-style-type: none"> • Describe the structure, composition of Atmosphere • Identify the weather phenomena winds, humidity and precipitation. • Write down the heat balance. • Describe the forecasting methods
F.Y.B.sc	Paper- II Physical Geography (Hydrosphere)	<ul style="list-style-type: none"> • Describe the concept, structure and composition of Hydrosphere. • Identify the salinity of ocean water and Isohalines. • Write down the information of ocean currents • Describe the types of Ocean tide
S.Y.B.sc	Paper II: Physical Geography of India	<ul style="list-style-type: none"> • Write the basic geographical Personality of India. • Describe the variability of Physiographic division, climate in India. • Identify the problems of soil erosion and their conservation methods. • Classify the forests in India.
S.Y.B.sc	Paper III: Topographical maps, weather instruments, maps and images	<ul style="list-style-type: none"> • Identify the characteristics of ISO top sheet and IMD weather map. • Write down the mechanism function of topographical maps. • Describe the interpretation of weather images. • Describe the interpretation of Top sheets. • Describe the interpretation of IMD Weather Map.
S.Y.B.sc	Paper III Surveying, Leveling and Excursion/ Village Survey Report	<ul style="list-style-type: none"> • Write down the different surveying techniques. • Prepare layout of agricultural land. • Survey with the help of Dumpy level • Describe how to draw profile with the help of Dumpy level. • Solve the examples to calculate the height by using the Dumpy level and Indian Clinometers
T.Y.B.A	Environmental Geography (S3)	<ul style="list-style-type: none"> • Write down the definition and nature and scope of environmental geography. • Describe the concept and structure of ecosystem & Nutrient cycling. • Write down the problems of environmental pollution. • Identify the conservation resources. • Identify the about environmental hazards and management. • Write down the various environmental protection acts.
T.Y.B.A	Remote Sensing & GIS (S3)	<ul style="list-style-type: none"> • Describe the History of Remote Sensing • Identify the Arial Photographs and Satellite Imageries • Acquire Knowledge about Indian Remote sensing.

		<ul style="list-style-type: none"> • Which are the components and function of GIS • Use of GIS in various fields. • Make use GIS & GPS software.
S.Y.B.Sc	Paper I: Environmental Geography – I	<ul style="list-style-type: none"> • Write down the definition, Nature and scope of environmental geography • Definition and structure of ecosystem and nutrient cycling, energy flow. • Write down the concept and types of biodiversity and threats of biodiversity. • Identify the value of Resource.
S.Y.B.Sc	Paper I Environmental Geography – II	<ul style="list-style-type: none"> • Write down the problems of environmental pollution. • Describe the environmental hazards and management. • Essay on the conservation of resources. • Write down the various environmental protection acts. • Essay on the Global environmental issues.
S.Y.B.A	Physical Geography of Maharashtra (S1)	<ul style="list-style-type: none"> • Identify the characteristics of geographical Personality of Maharashtra • Describe the major river in Maharashtra • Describe the climatic characteristics of Maharashtra • Classify the climatic zones in Maharashtra • Identify the characteristics of forests in Maharashtra.
S.Y.B.A	Economic Geography of Maharashtra (S1)	<ul style="list-style-type: none"> • Describe the significance of agriculture, trade and transport in Maharashtra. • Write down the factor affecting the distribution of population in Maharashtra • Write down the significance of various types of resources in Maharashtra • Classify the industrial zone in Maharashtra
T.Y.B.A	Population Geography (G3)	<ul style="list-style-type: none"> • Write down the history of population in world • Classify the population data • Describe distribution and density of population. • Identify the characteristics population theories Malthus theory and Demographical transition theory. • Investigate Current Issues and Problems in India
T.Y.B.A	Political Geography (G3)	<ul style="list-style-type: none"> • Describe the history, nature and scope of Political Geography. • Essay on Evolution of states & nations. • Describe Geopolitical theories. • Investigate Problems and disputes in India

Department of History

Class	Course	Outcomes
F.Y.B.A	History Of India (1857-1950)	<ul style="list-style-type: none"> • Evaluate Consolidation of English Power in India. • Analyse Social Religious Consciousness in India. • To Introduce Various Perspective of the Indian Freedom Movement. • To Develop the Spirit of Nationalism among Student. • To Bring an awareness among the student as Responsible Citizens.
F.Y.B.A	History Of India (1857-1950)	<ul style="list-style-type: none"> • Understand the Ideology of Lokmanya Tilak & Mahatma Gandhi. • To Develop the Spirit of Nationalism among Student. • Understand the process of Negotiations for Independence and Partition of India. • Understand the making of the constitution. • To Bring an awareness among the student as Responsible Citizens.
S.Y.B.A.	History of the Marathas (A.D.1605-1750 A.D.)	<ul style="list-style-type: none"> • Understand the concept of swarajya in Maratha History. • Explain the responsible factors for the establishment of swarajya. • Evaluate the relation between Chh. Shivaji Maharaj and Adilshahi and Mughals. • Get knowledge about the importance of coronation & Administration of Chh. Shivaji Maharaj. • Create and enhance interest about regional History among the students
S.Y.B.A.	History of the Marathas (A.D.1605- A.D.1750)	<ul style="list-style-type: none"> • Understand the achievements of Chhatrapati Sambhaji • Explain the significance of Marathas War of Independence • Evaluate the relation between Maratha Power and Foreign Powers. • Explain the responsible factors for the Rise of Peshwas. • Understand the work of Peshwa Bajirao - I & Peshwa Balaji Bajirao
T.Y.B.A.	History Of Modern World (1789-1900)	<ul style="list-style-type: none"> • Learn about the causes and Effects of the French revolution. • Understand the Napoleons internal reforms. • Understand the factors responsible for the end of monarchy in France. • Describe the various phase of nationalism in Europe • Explain the causes and Effects of industrial revolution. • Understand the process of Modernization of Japan.
T.Y.B.A.	History Of Modern World (1901-1945)	<ul style="list-style-type: none"> • Understand the importance Balkan Nationalism in Modern World. • Evaluate the work of Dr. SUN-YET-SEN in China. • Evaluate the causes and Effects Russian revolution. • Evaluate the work of The League of Nation.

		<ul style="list-style-type: none"> • Understand the fascism, Nazism and the rise of dictatorship in Europe. • Explain the aftermaths of the World War Second.
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Department of Defense and Strategic Studies

Class	Course	Outcomes
FYBA	Def-101. Indian Art of War	<ul style="list-style-type: none"> • Students understood the concept of war. • Students understood the meaning and types of strategies. • Students were aware about the ancient and modern war history • Students understood the war planning, military strength, weapons, effects and military lessons of various wars fought on the Indian Territory.
SYBA	G201- India's Internal Security	<ul style="list-style-type: none"> • The students understood the meaning and concept of national security. • Students were aware of various security challenges to India's national security. • Students understood the various internal security challenges like regionalism, Communalism, Social problems, etc in India. • Students were aware of major challenges like Terrorism, Naxalism, Insurgency to the security of India.
TYBA	G301- Global Security	<ul style="list-style-type: none"> • Students understood the meaning and concept of Globalization and Global security. • Students were aware of meaning, concept, causes and effects of new world order after cold war. • Students were aware about the aims, objectives, functioning and relevance of various regional organisations in world. • Students understood the problems due to WMD, NMD and proliferation of small arms to International peace and security. • Students were aware about various global issues like environmental security, organized crime, technology and security, global crisis, human health.

Department of Political Science

Class	Course	Outcomes
F.Y.B.A	POL-G-101-Introduction to Indian Constitution.	<ul style="list-style-type: none"> • To know Indian Political process in India. • To know the citizens rights and duties. • Understand basic structure of Indian Constitution. • Understand basic features of Indian Constitution.

		<ul style="list-style-type: none"> ● Understand Indian Federal system.
F.Y.B.A	POL-G-201-A-Introduction to Indian Constitution.	<ul style="list-style-type: none"> ● To know the Executive system in India. ● To know the Legislative system in India. ● To know the Judicial system in India. ● To understand the emerging challenges before Indian Democracy. ● To understand the concept of National Integrations.
S.Y.B.A	- DSC-1C-Introduction to Administration of Maharashtra .	<ul style="list-style-type: none"> ● Students understand Maharashtra's Historical, Geographical, Social, Political background. ● Understand Administration system in of Maharashtra. ● Get Knowledge about Panchayati Raj system in Mahatrastra. ● To know District Administration of Maharashtra. ● To know the various wings of secretariate.
S.Y.B.A	DSC-1D-Introduction to local and Administration of Maharashtra.	<ul style="list-style-type: none"> ● Understand Historical Background of Rural and Urban Administration of Maharashtra. ● Students understand Rule of law. ● To know Adivasi Vikas Mandal in Maharashtra. ● To know Marathawada Vaidhanic Mandal of Maharashtra. ● To know Minority Development board in Maharashtra.
T.Y.B.A	POL-351-(A-G-3)- Introduction to Personnel Administration and Management	<ul style="list-style-type: none"> ● To know the Policy formation in India. ● To know the characteristics of Civil services. ● Understand Methods of Recruitment of Civil services in India. ● To know the Functions of civil services. ● To know the methods of Determining Qualifications of civil services.
T.Y.B.A	POL-361-(A-G-3)-Introduction of Personnel Administration and Management.	<ul style="list-style-type: none"> ● Understands the meaning and types of Management. ● To understand the importance of leadership. ● To know the policy formation and co-ordination in organization. ● To know the importance of co-ordination. ● Understand new trends in Management.

Department of Psychology

Class	Course	Outcomes
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F.Y.B.A	Foundations of Psychology PSY-101& Introduction to social psychology PSY-201	<ul style="list-style-type: none"> • Impart knowledge of the basic concepts and modern trends in Psychology. • Relate the fundamental principles of psychology in everyday life. • Make the students aware of the applications of psychological concepts in various fields. • Understands the basics of social psychology and to understand the individual in the social world. • Make the students aware of the applications of the various concepts in social psychology in the Indian context.
S.Y.B.A	Advanced social Psychology PSY-231-A & Social Psychology Process PSY-241-A(G2)	<ul style="list-style-type: none"> • Describe basic concepts, methodology, theories and modern trends in social psychology. • Analyze causes, types and consequences of social behavior. • Identify various fields of social psychology for research. • Identify social problems and able to find out its solution. • Apply various concepts in social psychology in Indian social context.
S.Y.B.A	Psychodiagnosics PSY-232 &Psychopathology PSY-242 (Special 1)	<ul style="list-style-type: none"> • Define abnormal behavior and explain the rationale behind it. • Discuss procedures used to evaluate and diagnose abnormal behavior. • Explain general causes of abnormalities. • Compare and integrate biological, Psychological and socio-cultural explanation of abnormal behavior. • Identify treatments for mental disorders and compare their efficacy in treating such disorders.
S.Y.B.A	Counseling Content and Process PSY-233-A & Counseling Therapy and Application PSY-243-A (special 2)	<ul style="list-style-type: none"> • Explain nature, process, theories and techniques of counseling. • State applications of counselling for day-to-day problems. • Explain use of psychological tests to understand the clients. • Familiarizes the students with counseling therapy. • Develop knowledge in students about how to follow up the behavioral problems and solve through with the help of therapy. • Students should know the application of the counseling therapy.
T.Y.B.A	Modern Applied Psychology PSY-351-A &Applied Psychology and Human Life PSY-361-A(G3)	<ul style="list-style-type: none"> • Describe applied fields of psychology. • Identify importance of personal control, community relationship and decision making. • State importance of relationship between environment and human being. • Explain importance of relationship between theoretical and practical psychological principles. • Function effectively and confidently in wide range of society.
T.Y.B.A	Research Methodology in Behavioral Science PSY-352-A & Experimental Psychology and Test Measurement PSY-362-A(S3)	<ul style="list-style-type: none"> • Perform scientific research in psychology • Describe general and special abilities with respect to psychological testing.

M.A II	Health Issues and Wellbeing & Health Issues and Modern Life	<ul style="list-style-type: none"> • Acquaint the students with the psychological aspect of health. • Familiarize the students with the nature and need of health psychology
M.A II	Research Methodology in Psychology & Dissertation	<ul style="list-style-type: none"> • Understand the basic research concepts • Acquaint students the steps in research process • Familiarize the students with basic terminology of advanced research techniques
M.A II	Psychological disorder and Abnormal Psychology	<ul style="list-style-type: none"> • Acquaint students with various manifestations of psychopathology. • Familiarizing students with various assessment approaches and tools used in clinical psychology domains. • Introduce students to the different perspectives and models regarding the causation of mental illness and dysfunctional behaviour and to highlight the contribution of these approaches to the pathogenesis of a wide range of mental and behavioural disorders. • Impart knowledge and skills required for diagnosis of psychopathological conditions. • Acquaint students to select, administer, score and interpret various types of psychological tools. • Understanding the advances and applications of assessment
M.A II	Psycho-diagnostics & Psycho-diagnostic theory and Therapies	<ul style="list-style-type: none"> • Understand the Psycho-diagnostic procedures • Know the personality theories essential for understanding Psychopathology and Psychotherapies • Familiarize the various Psychotherapeutic procedures • Acquaints students to select, administer, score and interpret various types of psychological tests • Equip students with generic skills for counseling and psychotherapy. Psycho-diagnostic procedures • Impart skills through workshops, case discussions, role plays, observations • Acquaints students for planning and conducting interventions for variety of mental health problems, particular therapies and special conditions

Department of Sociology

Class	Course	Outcomes
FYBA	SOC.G: Introduction To Sociology	<ul style="list-style-type: none"> • To understand origin and development sociology • To introduce students about social institutions and its utility • To understand the students various societal processes such as competitions, cooperation and conflicts • To Introduce students about family importance
SYBA	SOCG2: Indian society : Issues and challenges	<ul style="list-style-type: none"> • To introduce students about the various social problems • To aware students about modern age challenges and issues • To raise the competency and values among students about humanity • To ensure the personal development of students

TYBA	SOCG3: Indian society Structure and change	<ul style="list-style-type: none"> • To study Indian unity and diversity • To introduce students about tribal society • To introduce the comparative study about rural and urban society • To introduce indigenous traditions, knowledge and culture to students
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Department of Commerce

Class	Course	Outcomes (Students will be able to)
FY BCOM SEM - I	Computing Skills	<ul style="list-style-type: none"> • Acquaint to Microsoft office 2013 word, PowerPoint • Understanding the Microsoft office 2013 –excel • Using the Tally- Computerized Accounting • Understood introduce to tally ERP 9 Release 5 • Understanding of the voucher entry • How to Maintain trial balance and final account
	Modern Office Management	<ul style="list-style-type: none"> • Acquaint to Modern Office Management • Understand the Concept of Traditional & Modern Concept of Office & Changing Office View Past Present & Future • Effective Impact of Management Techniques • Selection of Office Layout • Understanding of the Concept System & Procedure, Describe the Flow of Work • How to Maintain Paperless Office • Understanding the Importance of Office Environment & Safety Remedies
	Computing Management	<ul style="list-style-type: none"> • Student learn Accounting using tally ERP 9 • Student understanding creation of stock items • Students learn how to make bill wise details • Understanding the key elements • Understanding the hoe to use reporting and Printing • Understanding the concept key Activities
	Retail Management	<ul style="list-style-type: none"> • Acquaint to Retail Management • Student Introduce to Retail & Retailing • Understanding to Retail Framework • Identify of the Trends of retailers scenario of Indian and global • Understanding of the Concept of traditional and non-traditional retail format

		<ul style="list-style-type: none"> • Describe the economics of retailing ,the MRP Regime in India
	Marketing & Advertising	<ul style="list-style-type: none"> • Student understanding create awareness about marketing • Student acquaint basis concept of marketing • Student know establish link between business & marketing • Student know relevance of marketing on modern competitive worlds • Student develop an analytical to plan for various marketing strategy
FY BCOM SEM - II	Retail Management	<ul style="list-style-type: none"> • Understanding the role of marketing mix ,retail communication mix • Identified the retile Merchandising • Describe the Mall management ,reasons for failure of some malls in India • Classify the types of franchising • Describe the Application of information technology, future trends, smart cards and E-cash • Understanding retail Consumers
	Modern Office Management	<ul style="list-style-type: none"> • Understanding of the Duties & Responsibilities of Manager in Organization • Identified the Office Services • Describe of the Different type of Appliances & Machines Use in Office • How to Use Stationary in the Office • Understanding of the Secretarial Procedure Qualities , Qualification of Secretary • Classified of the Types of Office
	Marketing & Advertising	<ul style="list-style-type: none"> • Student Know the create awareness about advertising • Student understand basic concept & nature of advertising • Student know the relevance of advertising on modern competitive worlds • Students understanding the develop an analytical ability to plan for various advertising strategies
SY BCOM SEM - III	Business Entrepreneurship	<ul style="list-style-type: none"> • Student understand the concept of entrepreneurship • Student know the qualities of entrepreneurship • Student know about role of entrepreneurship inducement measure
	Business Management	<ul style="list-style-type: none"> • Student understanding The concept of Management& scope of Management • Student acquaint with modern mgt practices • Student know latest trends in Management
	Business Tax & Law	<ul style="list-style-type: none"> • Student learn the Indian contract act 1872 • Student understanding the Indian sales of goods act 1930 • Students learn crossing and negotiable instrument act ,1881 • Understanding the Indian trade union act ,1926 • Understanding the information technology act -2000 • Understanding the patent act 2002

SY BCOM SEM - IV	Business Management	<ul style="list-style-type: none"> • Student Know the develop leadership skills & communication skills • Student understand various functions of Management
	Business Tax & Law	<ul style="list-style-type: none"> • Student understanding the Indian partnership act, 1932 • Student understanding the industrial dispute act, 1947 • Student understanding the factories act ,1948 • Student understanding the consumer protection act ,1986 • Environment protection act,1986 • Understood the goods & service tax act (GST), 2017
TY BCOM SEM - V	Human Resource Management	<ul style="list-style-type: none"> • Student understanding the concept of HRM ,human resource planning,& job analysis & designing • Student understanding the recruitment ,selection, placement & induction
TY BCOM SEM - VI	Human Resource Management	<ul style="list-style-type: none"> • Student understanding the employee training, grievances, management development • Student understanding the employee discipline, performance appraisal • Student know the resent trends in HRM
FY MCOM SEM - I	Strategic Management	<ul style="list-style-type: none"> • Familiarize with the Strategic Management Overview. • Understand the concept of environmental appraisal • Learn the SWOT Technique and factors analysis • Understand the strategy implementation concept. • Learn the Strategy evaluation and control technique.
	Research Methodology in Commerce & Management	<ul style="list-style-type: none"> • Get the knowledge about research • All concept of research methodology is helpful for decision making in business • Understand the methodology of research and research report • Acquaint about sampling and testing of hypothesis
	Human Resource Management	<ul style="list-style-type: none"> • Understand the importance of HRM and its environment. • Learn the role of ethics in HRM • Learn the theories of social science disciplines to work place issues • Acquiring the basic knowledge of HRM • Understand the importance of training and morale
	E- Commerce	<ul style="list-style-type: none"> • Acquaint to e-commerce basics • Classify e-commerce and e-business model with the relationship of transaction parties • Familiarize to e-enterprise and Understanding the governments support for cashless payments • Compare and Analyze the different monetary transactions. Awareness about digital transaction and security • Knowledgeable about e-business communication and its model • Analyzing website structure and webpage design

	Advance Accountancy	<ul style="list-style-type: none"> • Understand the advance aspects of accounting relating to company liquidation holding company and hire purchase • Understand the accounting procedure for goods of small value under hire purchase transactions • Get the knowledge about the concept of value added accounting with the help of practical problems • Understand the method of presenting financial statement by insurance companies
FY MCOM SEM - II	Strategic Management	<ul style="list-style-type: none"> • Acquainting the comprehensive cases on various strategic situations based on application of strategic management. • Understand all the cases of strategic management for future technique
	Modern Management Practices	<ul style="list-style-type: none"> • Get the Overall knowledge about management practices • Understand the fundamental concept of management • Understand the principals, roles and decisions of management • Familiarize with the planning and Decision making techniques • Learn the concept of leadership and controlling process.
	Human Resource Management	<ul style="list-style-type: none"> • Understand the importance of HRM and its environment • Learn the role of ethics in HRM • Learn the theories of social science disciplines to work place issues • Acquiring the basic knowledge of HRM. • Understand the importance of training and morale
	E- Commerce	<ul style="list-style-type: none"> • Introducing to e-banking transactions • How to manage the electronic customer relationship management and understanding the needs for electronic CRM • Understanding the role of e-security in online transaction • Get the overall internet marketing technique • Understanding the e-supply chain management process • Learning the technique of mobile commerce
SY MCOM SEM - III	Human Resource Management	<ul style="list-style-type: none"> • Develop industrial relations • Understand the value and importance of HRM • Get the knowledge of laws & how law affects the industry and labor. • Familize with the Mechanisms of industrial disputes and interventions to deal with employee & employer problems
	Entrepreneurship Project Management	<ul style="list-style-type: none"> • The students with the challenge to start a new venture • Highlight the support system for entrepreneurship development

		<ul style="list-style-type: none"> • Inspiring to become an entrepreneur • Encouraging to become successful entrepreneur • Get the knowledge about Project appraisal and reporting
	Management Accounting	<ul style="list-style-type: none"> • Understand the concept, tools & techniques of management accounting • Analyze the financial statements of management accounting • CO3 – Understand ratio analysis and budget & budgetary control by solving practical Problems • Understand the applications of marginal costing and standard costing and variances with the help of practical problems
	Organization Behavior	<ul style="list-style-type: none"> • Understand the concept and operational skill relating to organization behavior • Get the knowledge about individual behavior in the organization • Develop the interest in group and group behavior • Acquiring the basic knowledge of motivation and leadership with the help of theories • Understand the power politics and conflict in the organization
	Advance Accountancy	<ul style="list-style-type: none"> • Knowledgeable about the auditing concept and other disciplines • Understand the advance aspect of accounting relating to audit • Acquaint the auditing in EDP environment • Understand the auditing and assurance standards • Getting the knowledge about human resource development audit
SY MCOM SEM - IV	Modern Retail Management	<ul style="list-style-type: none"> • Acquaint with the various concepts and theoretical aspect of retail management • Understand the retail market strategy and planning • Empowering with the most modern techniques and practices of retailing for employment opportunity • Familize with merchandise management and application of information technology in retail
	Human Resource Management	<ul style="list-style-type: none"> • Develop industrial relations • Understand the value and importance of HRM • Get the knowledge of laws & how law affects the industry and labor • Familize with the Mechanisms of industrial disputes and interventions to deal with employee-employer problems.
	Corporate Social Responsibility	<ul style="list-style-type: none"> • Understand the social issues at various concept • Acquaint with the Business Ethics concepts and self Dev. • Acquaint with the theoretical aspect of corporate social responsibility

	Information System for Business	<ul style="list-style-type: none"> • Familiarize with the theoretical aspect of information system • Understand transaction processing system in business areas. • Knowledgeable about the business risk and information system risk
	Advance Accountancy	<ul style="list-style-type: none"> • Acquaint the concept of tax audit and government audit • Understand the advance aspect of internal audit and bank audit • Knowledgeable about the audit of co-operative societies • Understand the audit of specialized units

Department of BCA

Class	Course	Outcomes
FYBCA	BCA101- Fundamentals of Accounting	<ul style="list-style-type: none"> • To understand fundamental concepts of financial accounting. • To understand the basics of cost accounting. • To maintain and record financial transactions in books of accounts. • To prepare final accounts of sole proprietary business. • To prepare Cost Sheet and record the transactions of materials.
	BCA102 – Fundamentals of Computer	<ul style="list-style-type: none"> • Acquire the knowledge of fundamentals of Computer and Operating System. • Develop problem solving skill through algorithms and flowcharts. • Understand the basics of computer networking and internet.
	BCA 103 - Programming in C – I	<ul style="list-style-type: none"> • Understand the basic concepts of C Programming for problem-solving and Illustrate the C data types, syntax and constructs. • Illustrate C for decision making, branching and looping statements • Understand the concept of Array and Strings to solve different problems.
	BCA 104 - Web Design – I	<ul style="list-style-type: none"> • Acquainted with elements, Tags and basic structure of HTML files. • Up skills the knowledge of basic and advanced web designing. • Students were implement effective use of List and Tables. • Students were implement effective web page navigation. • Students were capable to design web page layout • Students were understood and implement use of style sheet.

	BCA 105 - Lab on Computer Fundamental	<ul style="list-style-type: none"> • Students can able to understand the installation of operating system. • Students can understand basic DOS command, and different browser. • Student understand different platforms, Internet, mails, tables • Students can learn text formatting and table formatting. • Students capable to design power point presentation, tables, shapes, smart arts and charts
	BCA 106 - Practical on Web Design – I	<ul style="list-style-type: none"> • Students were able to design consistent look and feel web pages. • Students were capable to use multimedia in web page. • Students were implement effective web page navigation. • Students were capable to design web page layout • Students were implement use of style sheet.
	BCA 107 – Lab on C Programming	<ul style="list-style-type: none"> • Students understand the input output functions. • Students can understand the use of various operator. • Students can understand the use of control statements. • Students can design the various expressions in C • Students can understand the array and its type.
	BCA 201 –Professional Communication	<ul style="list-style-type: none"> • To develop his verbal and non verbal communication ability • To communicate with people effectively and confidently. • To draft effective business correspondence documents. • To make and present well designed and informative presentations
	BCA 202–Database Management System	<ul style="list-style-type: none"> • Introduction to the basic concepts of database management systems. • Learning to design databases using ER modeling. • Learning to apply integrity constraints. • To understand and demonstrate database schema. • Understand and demonstrate Relational databases, SQL
	BCA 203–Programming in C – II	<ul style="list-style-type: none"> • Apply the concepts of Function modules, its usage • Apply the concepts of memory allocation using Pointers • Understand the concepts of structures and unions: declaration, initialization and implementation. • Learn to draw different graphics objects. • Learn to store and apply the data using files.
	BCA 204–Web Design – II	<ul style="list-style-type: none"> • Student were able to embed JavaScript in web page

		<ul style="list-style-type: none"> • Students successfully added interactivity in web page • Students were applied validation on web form • Students were implemented different events. • Students were familiar with bootstrap framework.Understand structured variables classes and objects
	BCA 205 - Lab on DBMS	<ul style="list-style-type: none"> • Students can able to create the database. • Students can understand basic database commands. • Students can understand constraint. • Students capable to design SQL using different clause.
	BCA 206 – Lab On C Programming – II	<ul style="list-style-type: none"> • Student were able to understand the concept of Function techniques • Students were able to understand the storage classes • Students were able to understand pointer and its uses. • Students were able to design the basic graphics objects • Students were understand the operations on file and command line argument.
	BCA 207 – Lab on OnWeb Design – II	<ul style="list-style-type: none"> • Student were able to develop web page using JavaScript • Students successfully added interactivity features in web page • Students were implemented validation on web form • Students were implemented different events. • Students were familiar with bootstrap framework.
S.Y.BCA	BCA 301 -Fundamental Mathematics and Statistics	<ul style="list-style-type: none"> • Understanding of all terms related to mathematical logic. • Ability to know the types of sets, method of representation, operations, and laws related to it. • Ability to solve problems related to matrices. • Understand the basic concepts of Statistics. • Analyze statistical data using measures of central tendency. • Performing mathematical and statistical functions using MS-Excel.
	BCA 302 -Operating System	<ul style="list-style-type: none"> • To get aware of the main components, computer organization interface, and system calls of OS. • Ability to apply process management and threading. • To make understand the features of Linux OS • To learn the basic Linux command
	BCA 303 Programming in C++	<ul style="list-style-type: none"> • To Understand OOPs Concept • To understand the concept to implements Functions, Pointer Array in C++ . • To understand to implements Class, Object, Inheritance and polymorphism • To understand the concepts of Exception handling and File management

	BCA 304(C) Python Programming	<ul style="list-style-type: none"> • Explain basic principles of Python programming language • Construct and apply various filters for a specific task. • Apply the best features of mathematics, engineering and natural sciences to program real life problems.
	BCA 305 Labs on Operating System	<ul style="list-style-type: none"> • Apply Linux operating system commands. • Understand different Linux shell scripts and execute various shell programs.
	BCA 306 Labs on C++ Programming	<ul style="list-style-type: none"> • Solve real time problems and isolate and fix common errors in C++ programs. • Understand the object-oriented approach for the program development and make use of the OOP concepts (data abstraction, encapsulation, polymorphism, overloading, and inheritance) of C++ appropriately in problem solving.
	BCA 307(C) – Lab on Python Programming	<ul style="list-style-type: none"> • To understand basics of python programming. • To implement different applications using python.
	BCA 401 Software Engineering	<ul style="list-style-type: none"> • To design and develop a software in learned language. • To prepare software requirement specification. • Estimate the size and cost of software product. • Get knowledge of different types of software testing.
	BCA 402 Data Structure	<ul style="list-style-type: none"> • To analyses algorithms and algorithm correctness. • To summarize searching and sorting techniques. • To describe stack, queue and linked list operation. • To have knowledge of tree and graphs concepts.
	BCA 403 Java Programming	<ul style="list-style-type: none"> • To apply object oriented programming features and concepts for solving given problem. • Develop reusable programs using the concepts of inheritance, polymorphism, interfaces and packages. • To develop simple interactive applications.
	BCA 404 (C) Artificial Intelligence	<ul style="list-style-type: none"> • Gain a historical perspective of AI and its foundations. • Study the concepts of Artificial Intelligence. • Investigate applications of AI techniques in intelligent agents • Learn the methods of solving problems using Artificial Intelligence. • Learn various peculiar search strategies for AI.
	BCA 405 Lab on Data Structure	<ul style="list-style-type: none"> • Be capable to identify the appropriate data structure for given problem.

		<ul style="list-style-type: none"> • Have practical knowledge on the applications of data structures. • Analyses the various sorting and searching algorithms. • Apply the different linear data structures like stack, queue and link list to various computing problems.
	BCA 406 Lab on Java Programming	<ul style="list-style-type: none"> • To understand basics of Java Programming. • Implement different applications using Java.
	BCA 407(C) Lab on Artificial Intelligence	<ul style="list-style-type: none"> • Implement different applications in Artificial Intelligence.
TYBCA	BCA51 Entrepreneurship Development	<ul style="list-style-type: none"> • Have the ability to discern distinct entrepreneurial traits • Know the parameters to assess opportunities and constraints for new business ideas • Understand the systematic process to select and screen a business idea • Design strategies for successful implementation of ideas 5. write a business plan
	BCA52 Soft Skills Development	<ul style="list-style-type: none"> • Understand their strengths and weaknesses, type of personality, work preferences, style of Communications; Understand and apply knowledge of individual differences and personality type peculiarities in • Communication process and at interaction with other people at learning/working context; Define and analyze a writing or speaking situation, and develop a logical, clear response to that
	BCA53 Linux Operating System	<ul style="list-style-type: none"> • To learn to develop software for Linux/UNIX systems. • Develop shell programs in vi/vim editor. • Understanding the basic set of commands and utilities in Linux/UNIX systems. • To control the behavior of OS by writing Shell scripts • To understand the inner workings of UNIX-like operating systems
	BCA54 Internet Programming with ASP.NET	<ul style="list-style-type: none"> • Successful students will able to design web applications using ASP.NET • Successful students will be able to use ASP.NET controls in web applications. • Successful students will be able to debug and deploy ASP.NET web applications • Successful students will be able to create database driven ASP.NET web applications and web services
	BCA55 Practical on Soft Skills Development	<ul style="list-style-type: none"> • Apply the principles of effective communications in learning/working situations; • Apply the principles and knowledge of effective time-, stress-, conflict management in Learning/working situations; Develop or improve skills for working effectively in a team, including negotiating and setting • Goals, meeting deadlines and giving and receiving feedback; Use the self and peer evaluation to measure and improve the level of development of their soft

	BCA56 Practical on ASP.net & Linux O.S.	<ul style="list-style-type: none"> • ASP.net • Create a Web form with server controls. • Separate page code from content by using code-behind pages, page controls, and components. • Display dynamic data from a data source by using Microsoft ADO.NET and data binding. • Debug ASP.NET pages by using trace. • Linux O.S • Choose appropriate UNIX/Linux operating system commands to make effective use of the environment to solve problems • Write efficient, effective scripts with documentation • Research the Internet for information and resources utilizing new commands
	BCA57 Field Work	<ul style="list-style-type: none"> • Develop and understand field work concept • Students will learn in teams to complete a Group Field Work, Individual Field Work ,
	BCA61 Introduction to ERP and SAP	<ul style="list-style-type: none"> • To comprehend the technical aspects of ERP systems; • To understand concepts of reengineering and* how they relate to ERP system implementations; • To be able to map business processes using process mapping techniques & identify and describe typical* functionality in an ERP system; • To understand the steps and activities in the* ERP life cycle; • To obtain practical hands-on experience with* one of the COTS ERP Software e.g. SAP, Oracle
	BCA62 System Analysis And Design	<ul style="list-style-type: none"> • Develop the software projects or prototypes by understanding the requirements. • Meet the project deadlines along with the number of resources and type of tasks to be carried out
	BCA63 Server Side Scripting using PHP	<ul style="list-style-type: none"> • Students should be able to create database using PHP and MYSQL • Program for different applications using arrays, functions and strings. • Aware about different web techniques used in PHP. • Integrate PHP with MYSQL
	BCA64 Introduction to Information System Audit	<ul style="list-style-type: none"> • Identifying business risks, strengths, and opportunities for improvement. • Evaluating employees' awareness of, and compliance with, University policies and procedures and applicable laws and regulations • 3.Facilitating discussions with department employees to develop solutions to problems and promote operational efficiency, including the automation of procedures and the elimination of redundant or burdensome controls • Identifying deviations from management's standards and expectations

		<ul style="list-style-type: none"> Assessing whether resources are used adequately and efficiently.
	BCA65 Practical on PHP	<ul style="list-style-type: none"> Understand how PHP works with lexical structure of it. Program for different applications using arrays, functions and strings. Aware about different web techniques used in PHP. Integrate PHP with MYSQL.
	BCA66 Practical on CASE Tool with MS VISIO	<ul style="list-style-type: none"> Utilize Visio to plan, design, create, save, and print the following types of diagrams: Flow charts, organization charts, project schedule diagrams including timelines and Gantt charts, network and telecommunications diagrams, office space diagrams, building plans. Apply the following Visio features to create diagrams and charts: Templates and stencils; shapes, lines, connectors, text blocks; backgrounds, borders, titles; page setup, preview, and printing options; custom shape properties. Use the Request for Proposal (RFP) process by responding to an actual technical RFP in a case study approach using both technical and cost estimation concepts.
	BCA67 Project	<ul style="list-style-type: none"> Develop and understand project concept. Students will learn how to work in teams to complete a Group Project, Individual Project, Advanced Project.

Department of Botany

Class	Course	Outcomes
F.Y.B.Sc.	Paper-I Bot. 101: Diversity of Lower Cryptogams	<ul style="list-style-type: none"> Provide identification technique of microbes, Viruses, Bacteria, Algae and Fungi. Understand the systems of classification of Microbes, Viruses, Bacteria, Algae and Fungi, and its interdisciplinary approaches. Provide lab-based training in writing short species descriptions and illustration. Recognize members of the major microbes, Viruses, Bacteria, Algae, Fungi and their medicinal, economic importance for human welfare.
	Paper II Bot. 102: Morphology of Angiosperms	<ul style="list-style-type: none"> Students will be able to understand ground plant of angiospermic plant. Students will be aware about vegetative characters of angiospermic plant. Students will be aware about reproductive characters of angiospermic plant. Students will be able to understand the modifications and functions of plant parts.
	Paper I Bot. 201: Paper I Diversity of Higher Cryptogams	<ul style="list-style-type: none"> Student will be able to understand the basic knowledge of the subject. To understand the basic structure and study the comparative characteristics of Bryophytes and Pteridophytes.

		<ul style="list-style-type: none"> • Also, to understand the structural similarities and differences among both the groups. • Student will be able to aware developmental stages of life cycle of higher cryptogamic plants. • To facilitate students for taking up and shaping a successful career in botany.
	Paper-II Bot. 202: Taxonomy of Angiosperms	<ul style="list-style-type: none"> • Students will understand angiospermic plants, causes of phenomenal succession and alternation of generation. • Understand the systems of classification of angiosperms, nomenclature and interdisciplinary approaches. <p>Provide lab-based training in writing short species descriptions and illustration.</p> <ul style="list-style-type: none"> • Recognize members of the major angiosperm families by identifying their diagnostic features, economic and medicinal importance. • Understand botanical gardens and herbarium technique
S.Y.B.Sc.	Paper-I BOT. - 301: Plant Anatomy	<ul style="list-style-type: none"> • Student will know scope and importance of plant anatomy • Students will study various tissue systems • Students will know primary structure of dicot and monocot plants • Students will study normal secondary growth in plants and their causes • Students will study protective tissue system
	Paper – II BOT.302: Plant Physiology	<ul style="list-style-type: none"> • Students will know importance and scope of plant physiology. • Students will study plant and plant cell in relation to water. • Students will study different process in relation with structure of organism and its environment. • Students will understand mechanism of absorption of water, gases and solutes. • Students will understand growth at various level.
	Paper – IV Skill Enhancement Course (SEC) BOT. 304: Mushroom Culture Technology	<ul style="list-style-type: none"> • Students will learn the history, scope and importance of mushroom technology • Students will understand nutritional and medicinal values of edible mushrooms • Students will know about the storage, marketing and various food preparations of mushrooms. • Students will understand the economics of mushroom cultivation.
	Paper- I BOT. - 401: Plant Embryology	<ul style="list-style-type: none"> • Students will know the scope and Importance of Embryology • Students will study structure of micro and megasporangium. • Students will study pollination, fertilization, Endosperm and Embryogeny. • Students will give exposure of techniques in embryology
	Paper- II BOT.-: 402 Plant Metabolism	<ul style="list-style-type: none"> • Students will know the scope and importance of plant metabolism. • Students will study the properties, mechanism and classification of enzymes. • Students will study the process of photosynthesis in higher plants, C3, C4 and CAM pathways.

		<ul style="list-style-type: none"> • Students will study respiration in higher plants.
T.Y.B.Sc.	BOT. 501, Paper – I Cryptogams	<ul style="list-style-type: none"> • Students will study salient features of Cryptogamic plants. • Students will make students aware of the status of cryptogams as a group in plant kingdom • Students will study the life cycles of selected genera. • Students will study economic and ecological importance of Cryptogamic plants.
	BOT.502, Paper-II Morphology and Systematics of Angiosperm	<ul style="list-style-type: none"> • Students will study status of angiosperms in plant kingdom • Students will study origin of Angiosperms with respect to time, place, origin and probable ancestors. • Students will study vegetative and floral morphology of angiospermic plants. • Students will know various angiosperm families emphasizing their morphology, distinctive features and biology. • Students will know the role of anatomy and embryology in Taxonomy.
	BOT. 503, Paper- III Cell Biology and Genetics	<ul style="list-style-type: none"> • Students will introduce with “Cell Biology and Genetics”. • Students will study the Prokaryotic and eukaryotic cell. • Students will know about the cell cycle. • Students will study “Science of Heredity”. • Students will know about the scope and importance of cell biology. • Students will study linkage and crossing over.
	BOT. 504, Paper-IV Plant Physiology and Biochemistry	<ul style="list-style-type: none"> • Students will learn and understand about growth pattern in plants. • Students will study the different types of movements in plants. • Students will know the phenomenon of photoperiodism and effect of phytochrome on flowering. • Students will study the process of translocation of organic solutes in plants. • Students will study the vernalization process. • Students will study the biomolecules in plants. • Students will study secondary metabolites and their role in plants.
	BOT.505, Paper-V- Biofertilizers	<ul style="list-style-type: none"> • Students will know the importance of biofertilizers. • Students will introduce application of Biofertilizer technology in Agriculture. • Students will familiarize with microbes used as biofertilizers. • Students will demonstrate the low cost media preparation and cultural practices in biofertilizers. • Students will aware about benefits of applications of biofertilizers. • Students will know about self employment opportunities.
	BOT. 506 Paper -VI Horticulture	<ul style="list-style-type: none"> • Students will know about horticulture, its scope, disciplines and importance. • Students will understand different horticultural practices and their methods . • Students will study importance, principles and types of Bahar treatment.

		<ul style="list-style-type: none"> • Students will learn the role played by green and poly houses in horticulture. • Students will understand methods of preservations and preparations of preserved products. prevailing especially in this part of the state.
	BOT. 601 Paper – I Higher Cryptogams	<ul style="list-style-type: none"> • Students will study salient features of cryptogamic plants. • Students will make aware about the status of cryptogams as a group in plant kingdom. • Students will learn the life cycles of selected genera. • Students will learn economic importance of cryptogamic plants.
	BOT. 602: Paper-II Gymnosperms & Paleobotany	<ul style="list-style-type: none"> • Students will study Gymnosperms with respect to distinguishing characters, comparison with Angiosperms, economic importance and classification. • Students will study the life cycles of <i>Pinus</i> and <i>Gnetum</i>. • Students will learn about the scope of Paleobotany, types of fossils and geological time scale. • Students will study the various fossil genera representing different fossil groups.
	BOT : 603 Paper - III Molecular Biology	<ul style="list-style-type: none"> • Students will study molecular biology in relation to genetic material, its inheritance, modification, and replication. • Student will get information about the mitochondria and chloroplast DNA. • Students know about transcription, translation post translation modification of protein. • Students will learn gene regulation in prokaryotes and eukaryotes.
	BOT- 604 Paper- IV Economic Botany	<ul style="list-style-type: none"> • Students will know about useful bio resources of prime importance to mankind. • Students will acknowledge about various groups of plants of the world as well of India. • Students will know about botanical, chemical and nutritional values and value additions of food grains, legumes, sugars, vegetable, fruits, spices, etc. • Students will reveal new vis-a-vis forgotten food sources and their current practices. • Students will know the general account and uses of rubber, fiber and Timber..
	605 BOT Paper – V Floriculture	<ul style="list-style-type: none"> • Students will know about floriculture, its scope and importance. • Students will know the commercial floriculture. • Students will study the different features of garden. • Students will study methods of propagation. • Students will get information diseases and pests of ornamental Plants.
	606 (B) BOT Paper – VI Plant Breeding	<ul style="list-style-type: none"> • Students will introduce with the science of plant breeding. • Students will introduce with the branch of plant breeding for the survival of human being from starvation. • Students will learn the different methods of crop improvement.

		<ul style="list-style-type: none"> Students will study the techniques of production of new superior crop varieties. know Scope and importance of Plant Protection .
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DEPARTMENT OF CHEMISTRY

Class	Course	Outcomes
F.Y. B.Sc.	CH- 101: Physical and Inorganic Chemistry	<ul style="list-style-type: none"> To understand specific and equivalent conductance with their inter relationship. To understand cell constant and use of it to obtain specific and equivalent conductance. To know Kohlrausch's law and application of it. To understand the term Adsorption, its types like physical and chemical adsorption, Freundlich Adsorption Isotherm and Langmuir Adsorption Isotherm. To understand atomic radius, ionic radius, covalent radius and Van der Waal radius. Variation of atomic size along the period and group. Explanation of some properties like Ionization Energy, Electron Affinity, Electronegativity To understand of s- block Elements of alkali metals and Alkaline earth metals.
	CH-102: Organic and Inorganic Chemistry	<ul style="list-style-type: none"> Learn the general properties of organic compounds, applications of organic compounds. Gain the Knowledge of Common and IUPAC nomenclature of various type of organic compound. Learn the alkane, alkene and alkyne by many organic reaction. To learn haloalkanes and haloarenes. To gain the Knowledge of preparations, reactions and properties of Alcohol, Ether and Epoxide. Understand ionic product of water, Buffer solutions. To understand VSEPR theory and shapes of covalent molecules.
	CH-103: Chemistry Practical	<ul style="list-style-type: none"> To calibrate the apparatus like volumetric flask, pipette and burette. To understand the determination of heat of solution, equivalent weight, surface tension etc. To carry out qualitative analysis of acidic and basic radicals. To learn the applications of types of titrations for various estimations To learn to carry out quantitative analysis by gravimetric method To learn carry out quantitative analysis by volumetric method
	CH-201: Physical and Inorganic Chemistry	<ul style="list-style-type: none"> To understand various gas laws, Kinetic theory of gases, Chemical bonding or molecular geometry based on accepted models. To learn to convert scientific equation in straight line to get physical parameter for slope and intercept. To understand deviation of real gas from ideal behavior using compressibility factor. To understand critical constant, Van der Waal's constant and relation between them.

		<ul style="list-style-type: none"> • To learn about spontaneous and non spontaneous process, Entropy concept and its significance. • To learn about metals and metallurgy, steps involved in extraction of metals. • To understand the Electronic structures, size of atoms and ions, ionization energy, metallic and nonmetallic of p block elements.
	CH-202: Organic and Inorganic Chemistry	<ul style="list-style-type: none"> • To gain the Knowledge of preparations, reactions and properties aldehydes and ketones • To gain the Knowledge of preparations and reactions of carbonyl group. • To gain the Knowledge of preparation of carboxylic acids. • To learn volumetric analysis • To learn about chemical bonding, theories of bonding, types of overlap.
	CH-203: Chemistry Practical	<ul style="list-style-type: none"> • To handle viscometer to determine the viscosity and relative viscosity of liquids. • To carry out quantitative analysis by instrumental method using Conductometer. • To estimate of aniline / phenol. • To perform qualitative analysis of organic compounds. • To carry out quantitative analysis by volumetric method and gravimetric methods
SY B.Sc.	CH 301: Physical and Inorganic chemistry	<ul style="list-style-type: none"> • Understand the Electronic structures, size of atoms and ions, ionization energy, metallic properties and non-metallic properties of d block elements. • Understand concept of Helmolthz free energy • Understand numerical calculations of Gibbs free energy. • Understand concept of vapor pressure of liquids. • Understand the concept of physical properties of metals • Learn methods of purification of ores.
		<ul style="list-style-type: none"> • Study of stereoisomerism • Study of amines their formation reactivity. • Study of reactivity, preparation and reactions of organo Li, Cu, Zn compounds. • Understand the importance of analytical chemistry in analysis of compounds by titrimetric, gravimetric and instrumental methods. • Gain the Knowledge of sampling methods and ways of interpretation of results of analysis. • Determine the causes of errors and their minimization during analysis • Learn the application of types of titrations for quantitative analysis of the samples.
	CH 303: Chemistry Practical:	<ul style="list-style-type: none"> • To know the various techniques chromatography for separation of components in the mixture. • Understand recrystallization for purification of organic compounds. • Prepare various inorganic complexes. • Analysis of compounds by titrimetric, gravimetric and instrumental methods.

		<ul style="list-style-type: none"> • Understand to determine thermodynamic parameter.
	CH-304 Basic Analytical Chemistry (SEC I)	<ul style="list-style-type: none"> • Understand Basics of Analytical Chemistry • Study the Techniques to perform Acid-Base Precipitation titrations • Understand the Chromatography and Chromatographic techniques
	CH 401 Physical and inorganic chemistry	<ul style="list-style-type: none"> • Understand colligative properties and its application calculation of molecular weight of solutes • Understand concept of electromotive force and its measurement • Understand about properties of Lanthanides and actinides. • Understand concept of s-s, s-p, p-p, p-d & d-d combination of orbitals. • Understand about classification of electrodes.
	CH 402: Organic and Analytical chemistry	<ul style="list-style-type: none"> • Learn the synthesis and reaction of 5, 6 member and condensed heterocyclic systems. • Understand the synthesis of synthetic reagents and their synthetic utility. • To know the mechanism and stereochemistry of E1, E2 reaction. • Understand the concept of quantitative analysis by gravimetric methods. • Gain the Knowledge of concept for separation of analytes in samples by thin layer, paper and column chromatographic methods.
	CH 403: Chemistry Practical:	<ul style="list-style-type: none"> • Carry out qualitative analysis of organic compounds. • Determine molecular weight by depression of freezing point method. • Handle Landsbergers apparatus for determination of molecular weight. • Estimation of Nickel and Barium gravimetrically. • Make use of potentiometer for determination of standard electrode potential
	CH-404 Advanced Analytical Chemistry (SEC II)	<ul style="list-style-type: none"> • Understand Basics of Advance Analytical Chemistry • Study the Techniques to perform Redox and Complexometric titrations • Understand the Chromatography and Chromatographic techniques

T.Y. B.Sc	CH 351: Physical Chemistry	<ul style="list-style-type: none"> • Learn the concept of Radioactivity and its application in various field • Understand the importance of salt bridge in electrochemical cell. • Gain knowledge of Phase rule and its application to water and sulphur system • Understand the concept electrochemical cell and determination of potential of cell • Understand the laws of photochemistry (Grothus Draper Law and Stark Einstein law) • Understand the concept quantum yield and fluoresce and phosphorescence from Jablonski diagram. • Understand the various devices to measure the radiation from radioactive sample.
	CH-352: Inorganic Chemistry	<ul style="list-style-type: none"> • Learn the basic concept of the co-ordination compound, and identify the types of given ligand, chelates. • Understand the different physical method for the study of complexes and main points of Werner theory and isomerism in coordination compounds. • Understand Effective atomic number (EAN) and how to calculate EAN for any given complexes. • Understand the modern theories of metal-ligand bond related to valence bond theory. • Application of CFT related to different geometry e. Square planer, tetrahedral, Octahedral. • Understand the basic concept about CFT e. Spin magnetic moment, crystal field stabilization energy related to weak and strong field, limitation of theory. • Understand assumption and applications of V. B.T., C.F.T. and M.O.T.
	CH-353: Organic Chemistry	<ul style="list-style-type: none"> • Study structural effects • Study concept of aromatic electrophilic and nucleophilic aromatic substitutions • To study electrophilic aromatic addition to c=c • Learn rearrangement reactions.
	CH-354: Analytical Chemistry	<ul style="list-style-type: none"> • Understand procedure of extraction of metal ions using Solvent Extraction process.

		<ul style="list-style-type: none"> • Understand the application of Ion Exchange Chromatography method for the separation of cations and anions using different types of resins. • Understand applications of Size Exclusion Chromatography for the separation of analytes based on their size and shapes. • Understand the working of Gas Chromatographic unit and apply the knowledge to separate volatile compounds in sample. • Understand Principle, choice of column materials for HPLC and its application. • Understand Principles of Electrophoresis and choice of techniques of electrophoresis for various applications
	CH-355: Industrial Chemistry	<ul style="list-style-type: none"> • Understand general concept of Industrial chemistry. • Understand manufacturing of sugarcane. • Understand general idea of differ physical methods used in manufacturing. • Understands various types of fertilizer. • Understand manufacturing of Beer and spirit. • Understand the aspects of small scale industry.
	CH 356: A Biochemistry	<ul style="list-style-type: none"> • Learn the classification of carbohydrates and their reactions. • To gain the basic concept of amino acid and Proteins • Understand the classification of Enzymes • Understand the concept and classification of Lipids and their uses • Gain knowledge of nucleic acids DNA and RNA • Study of energy rich compounds • Study of carbohydrate, amino acid and lipid metabolism

	CH-357,367: Physical Chemistry Practical	<ul style="list-style-type: none"> • Prepare molar and normal solutions of various concentrations. • Determine concentration of unknown solutions by Spectrophotometric method. • Measure the pH, pKa and Ka of various acids by potentiometry. • Measure refractive index, molar refraction and unknown concentration of various solvents. • Determine the molecular weight of a given polymer by turbidimetry. • Investigate the reaction rate.
	CH 358,368: Inorganic Practical	<ul style="list-style-type: none"> • Estimate ores and alloy by gravimetric and volumetric method. • Separate and analyze binary mixtures by qualitative method • Prepare and determine percent purity of various inorganic complexes. • Perform chromatographic technique (paper chromatography). • Estimate Lead, Iron by gravimetric method. • Estimate Titanium and Iron by Spectrophotometric method.
	CH 359,369: Organic practical:	<ul style="list-style-type: none"> • Separate and analyze binary water insoluble mixture • Separate and analyze binary water soluble mixture • Learn how to estimate –sap value of oil, acetamide, glycine and glucose by volumetric method • Learn how to estimate basicity of various acids. • Learn how to synthesis various organic compounds. • Learn technique of recrystallisation.
T.Y. B.Sc	CH-361: Physical Chemistry.	<ul style="list-style-type: none"> • Understand the types of spectra, Rotational, Vibration and Electronic energy levels. • Difference between order and Molecularity • Understand the first, second and third order reaction. • Understand the concept anisotropic, isotropic, etch figure, polymorphism, Bragg relation

		<ul style="list-style-type: none"> • Learn concept Photoelectric effect, Compton Effect and Heisenberg s uncertainty principals. • Understand the concept of X- ray analysis.
	CH-362: Inorganic Chemistry	<ul style="list-style-type: none"> • Understand the electronic structure, Extraction uses, oxidation states biological role of Cu. • Know about the all basic theory of Acid and bases. • Understand the concept of Hard and Soft acid bases concept theories, application and limitations. • Know the different types and theories of Corrosion and how to protect Metal from corrosion.
	CH-363: Organic Chemistry	<ul style="list-style-type: none"> • Understands common terms in spectroscopy. • Learn Physical methods of structure determination which includes IR, UV and NMR. • Solve the problems based on IR, UV and NMR. • Study of retro synthesis. • Study the Natural products viz. alkaloid and terpenoid.
	CH-364 Analytical Chemistry	<ul style="list-style-type: none"> • Perform the analysis of samples using instrumental methods • Understand the concepts of spectrometry, know the principles of instruments and their applications • Understand principle, working and applications of Flame and Plasma Emission Spectrometry. • Understand principle, Instrumentation and application of Atomic Absorption Spectrophotometry • Understand principle, Instrumentation and applications of Turbidimetry and Nephelometry. • Understand principle, Instrumentation and applications of thermogravimetric methods like TGA, DTA and DSC.
	CH-365: Industrial Chemistry	<ul style="list-style-type: none"> • Understand the process of manufacturing of petrol and gasoline. • Understand the process of manufacturing of methanol. • Understand the process of manufacturing of soap. • Understand the process of manufacturing of detergents.

		<ul style="list-style-type: none"> • Understand classification of dyes and paints. • Understand properties of drugs.
	CH 366: Polymer Chemistry	<ul style="list-style-type: none"> • Understand the basic concepts of polymerization. • Understand the different methods of polymerization. • Understand various techniques of polymerization. • Understand the preparation, properties and applications of PE, PVC, Polystyrene, polyacrylonitrile, • Understand the concept Glass transition temperature
M.Sc. I:	CH-110: Physical Chemistry I	<ul style="list-style-type: none"> • Understand the terms eigen function, eigen value, operator and postulates of Quantum mechanics. • Learn parent –daughter relationship, application of radioactivity, NAA, IDA. Effect of radiation and units of radiation. • Learn the Fricke and ceric sulphate dosimeter. • Understand the terms and principles of chemical bonding. • To learn and understand the concepts behind electrochemical processes.
	CH-130: Inorganic Chemistry Paper I	<ul style="list-style-type: none"> • To understand the molecular orbitals and its orientation of transition metals. • Understand about geometry and shape of the molecule • Learn and find out bond order and dipole moments of the inorganic molecule. • Learn 18 electron rule and application. • Determine the point group of inorganic molecules. • Understand preparation and properties of transition metal carbonyls. • Understand concept of symmetry elements in molecules.
	CH-150 : Organic Chemistry I	<ul style="list-style-type: none"> • Understand and study the basics of reaction mechanism. • Understand SN^1, SN^2 and SN^i mechanism and stereochemistry.

		<ul style="list-style-type: none"> • Understand NGP by pi and sigma bonds, classical and non-classical carbocations. • Understand alkylation and acylation reaction. • Compare the difference between types of addition, elimination and substitution reaction. • Study of reactions and characteristics of reactive intermediates.
	CH-190: Industrial Safety and GLP	<ul style="list-style-type: none"> • To study and understand various hazards in laboratory. • To create awareness regarding laboratory safety. • Understand handling of chemicals and hazard safety. • Learn about the use of Personal Protective Equipments. • Understand lab certifications and GLP.
	CH-210: Physical Chemistry II	<ul style="list-style-type: none"> • Understand the thermodynamic description of mixtures state function, exact, inexact differential. • Understand Maxwell relations, Gibbs-Duhem equation and Gibbs free energy. • Understand the statistical thermodynamics and various partition functions. • Understand the consecutive elementary reactions, rate determining steps, steady state approximation, pre-equilibria, Michaelis-Menten mechanism, Lindemann-Hinshelwood mechanism, chain reactions. • Understand the molecular spectroscopy: Rayleigh, Raman, electronic and Mossbauer and its application
	CH-230 -Inorganic Chemistry Paper II	<ul style="list-style-type: none"> • Learn mechanism in transition metal complexes. • Learn radius ratio rule and calculation of limiting radius ratio • Understand catalysis, types and properties of a catalyst. • Understand about classification and use of catalyst. • Understand about structure of atom, Hund's rule, Term symbol, calculation of microstates, orbital selection rule. • Know metal complexes involved in biological systems. Vitamin-B12, Chlorophyll, Hemoglobin.

	CH-250 Name Reactions, Synthetic Organic Chemistry & Spectroscopy	<ul style="list-style-type: none"> • Learn various name reaction with example. • Use synthetic reagents of oxidation and reduction for solving the example. • Understand mechanism of rearrangements reaction. • Learns the basic principles and applications of Spectroscopy: IR, UV, NMR, CMR and Mass Spectrometry. • Solve problems of UV, IR and NMR.
	CH-290-General Chemistry	<ul style="list-style-type: none"> • Solve the problems on Chemometrics Mean and Standard deviation. • Learn theory of electro-gravimetric analysis, Electrolytic separation and determination of metals. • Know Instrumentation, of Voltammetry and its detectors. • Learn principle, and techniques of ultrapurity and trace analysis. • Learn Volta-metric Electrodes, Detectors, Amperometric Sensors, Amperometric Titrations. • Understand chemical Aspects of Nanomaterials.
	CH-P-1 : Physical Chemistry Practical	<ul style="list-style-type: none"> • Prepare molar and normal solutions of various concentrations. • Learn Electrodes and Titrations. • Determine concentration of unknown solutions and degree of hydrolysis and hydrolysis constant by conductometry. • Determine stability constant of a complex ion and standard free energy change ΔG and equilibrium constant by potentiometry. • Investigate the rate constant for depolymerization , energy of activation and order of the reaction • Calculate Hammett constant and amount of aspirin in the given tablet by pH measurement. • Determine specific rotation and percentage of two optically active substances by polarimetrically.
	CH: I-1: Practical course Inorganic Chemistry:	<ul style="list-style-type: none"> • Perform gravimetric and volumetric analysis ores. • Analyze binary mixtures by gravimetric and volumetric method.

		<ul style="list-style-type: none"> • Prepare various inorganic complexes and determination of its Percent purity. • Analyze iron from given drug sample and calcium in milk sample. • Perform paper chromatographic technique.
	CH –O- 1 Organic Chemistry practical	<ul style="list-style-type: none"> • Know uses of chemistry software s like ISI draw, Chem Draw, Chem sketch. • Draw the different structure of organic compound. • Perform Thin layer chromatography technique for completion of reaction. • Perform single and two stage preparation. • Apply knowledge of Green principle for organic synthesis • Make use of soxhlet extractor and steam distillation assembly for Purification of organic compound.
M.Sc. II	Organic CH 350: Organic Reaction Mechanism	<ul style="list-style-type: none"> • Compare the major and minor product of variety of organic reaction. • Understand accepted mechanism of organic reaction including all intermediates • Solve the problems on Taft and Hammett constant. • Understand Concave upward and downward deviation. • Learn the types hydrolysis of ester. • Solve problems on Anionic assisted reaction. • Understand and solve reactions based on free radical and photochemical mechanism. • To Study the principles of photochemistry and free radicals
	CH-351: Spectroscopic Methods in Structure Determination	<ul style="list-style-type: none"> • Understand principle and instrumentation of ^1H NMR, ^{13}C NMR and Mass spectroscopy. • Investigate structures on these techniques. • Resolve structure of organic compounds by 2D NMR techniques. • Analyze reaction sequences by using spectroscopic technique
	CH-352 (Organic stereochemistry)	<ul style="list-style-type: none"> • Understand the basic concepts of stereo chemistry

		<ul style="list-style-type: none"> • Assign structure of organic molecules. • Learn Three dimensional structure of cyclic and acyclic compounds • Use selectivity of reagents for chemical reactions. • Compare the major and minor product of asymmetric synthesis.
	CH-353(A): Heterocyclic Chemistry	<ul style="list-style-type: none"> • Understand basic Pharmacokinetics of drugs, anti Microbial drugs, Antifungal, Antibacterial, antiviral, antiprotozoals. • Understand Important Terms –Receptor, therapeutic index, bioavailability, Drug assay and Drug Potency used in medicinal Chemistry..
	CH-450: Chemistry of Natural Products	<ul style="list-style-type: none"> • Know concept of biogenesis of natural products. • Classify sources of various vitamins. • Learn biological importance of vitamins B1, B2, B6, folic acid, B12, C, D1, E, K1, and K • Understand and apply the role of enzyme in reactions. • Synthesize natural organic compounds by chemical methods. • Learn the stereochemistry of natural product.
	CH-451: Synthetic Methods in Organic Chemistry	<ul style="list-style-type: none"> • Understand Transition metal complexes in organic synthesis, Grubb s catalyst, Ziegler Natta catalyst • Design the organic compounds by use of synthetic reagents • Understanding role of Umpolung in organic synthesis. • Understanding Protection and deprotection in the synthesis of polypeptide and polynucleotide. • Know basic principles of green chemistry and design green synthesis. • Use ecofriendly green reagents, solvents, catalysts and reaction conditions. • Know the main synthetic routes and reactivity for variety of heterocyclic compounds and applications.
	CH-452: Heterocyclic Chemistry, Chiron approach, Chiral drugs and Medicinal Chemistry.	<ul style="list-style-type: none"> • Understand Important Terms –Receptor, therapeutic index, bioavailability, Drug assay and Drug

		<p>Potency used in medicinal Chemistry.</p> <ul style="list-style-type: none"> • Study the synthesis and reactions of various heterocyclic compounds. • Understand drug discovery and importance of heterocycles in drug. • Understand importance and uses of heterocycles in industry and technology.
	CH-450: Chemistry of Natural Products	<ul style="list-style-type: none"> • Know concept of biogenesis of natural products. • Classify sources of various vitamins. • Learn biological importance of vitamins B1, B2, B6, folic acid, B12, C, D1, E, K1, and K • Understand and apply the role of enzyme in reactions. • Synthesize natural organic compounds by chemical methods. • Learn the concept of secondary metabolites, mevalonate and shikimate pathway
	CH-O-2 (Organic Chemistry Practical- II)	<ul style="list-style-type: none"> • Separate organic compounds in different phases. • Perform qualitative test to analyze functional group of organic compounds. • Learn distillation technique. • Detect elements N, S, and X in organic compounds. • Isolation and separation of some natural products • Spectral interpretation of UV, IR, NMR, CMR and Mass Spectra of different organic compounds
	CH -O-3: (Organic Chemistry Practical- III)	<ul style="list-style-type: none"> • Perform two, three and four stage preparation. • Synthesize compounds using green chemistry principles • Draw the reaction mechanism. • Purify the organic compounds by crystallization. • Perform chromatographic technique to check completion of reaction. • Apply the knowledge about different reaction conditions.

		<ul style="list-style-type: none"> • Survey literature for the topic of the project..
	CH-O-4: Short Research Project	<ul style="list-style-type: none"> • Survey literature for the topic of the project. • Learn to apply reaction conditions for synthesis, isolation of product and give mechanism. • Handle instruments for analysis and discuss their experimental results. • Used ICT tools to prepare project reports and present it using Power point presentation. • Work within a small team to achieve a common research goal.

Department of Computer Science

Class	Course	Outcomes
F.Y.B.Sc.	DSC 1 A: CS 101: Essential of Computer Science	<ul style="list-style-type: none"> • Understand the fundamental components of computer System. • Understand the basic concepts of computer network. • Aware about various types of computer viruses and their types. • Understand several types of operating systems.
	DSC 1 A: CS 102: C Programming-I	<ul style="list-style-type: none"> • Understand history of C programming language and its applications. • Be familiar with programming environment with C Program structure. • Declare variables and constants and use them. • Understand operators, expressions, conditional statements and preprocessors. • Understand arrays, it's declaration and uses. • Develop their programming skills.
	DSC 1 B: CS 201: Internet Computing	<ul style="list-style-type: none"> • Understand the types of Website, it's structure, Site Organization Model, site planning and testing. • Understand Web design process. • Know the different page types on websites and its navigations. • Design website using HTML language. • Design advanced website using CSS.
	DSC 1 B: CS 202: C Programming-II	<ul style="list-style-type: none"> • Design programs using Functions, Pointers, Structures and Unions in C language. • Write the programs using File Handling concepts. • Write the programs for drawing different graphical shapes.

	CS LAB: DSC 1A LAB: Lab Course on Essential of Computer and C Programming CS-103 and 203 LAB Course on Paper I&II	<ul style="list-style-type: none"> • students are able to develop programs using C to meet real world • need and able to develop their own websites. • This course provides platform to enhance student's • basic skills required for advanced programming.
S.Y.B.Sc	CS-DSC 2 C: COMP 211: Data Structure – I	<ul style="list-style-type: none"> • Know what is data structure and basic algorithmic notations. • Analyze the time and space requirement of any algorithm. • Understand different data structures like stack, queue and linked list, they can also be • aware about the types, applications and operations of these data structures. • Effectively use of the above mentioned data structures depending upon the data of the • application.
	CS-DSC 2 C: COMP-212: Programming in C++-I	<ul style="list-style-type: none"> • Understand basic concepts of C++ programming like data types, keywords, operators and • manipulators. • Be familiar with classes and objects, and Object Oriented Programming Environment. • Understand concepts of Functions in C++ and use them in programs. • Know function and operator overloading in C++ and effectively use them in programs.
	CS SEC-I (Skill Enhancement Course-I): Software & Hardware Installation Skills	<ul style="list-style-type: none"> • Install Operating System on computer. • Perform various types of Software and device installation. • Diagnostic Tools & PC Maintenance. • Setup Basic Network in a lab.
	CS-DSC 2 D: COMP-211: Data Structure – II	<ul style="list-style-type: none"> • Know different non-linear data structures that can be used to represent hierarchical • relationship between objects. • Traverse and represent the graphs in computer. • Understand the different approaches of sorting and searching elements in the arrays.
	CS-DSC 2 D: COMP-222: Programming in C++-II	<ul style="list-style-type: none"> • Define and use constructors and destructors in their programs. • Create classes using the concepts of inheritance. • Deal with runtime error by using several exception handling mechanisms. • Write generic programs using templates and STL. • Use files for storing and retrieving data.
	CS SEC-II (Skill Enhancement Course-II): Network Security	<ul style="list-style-type: none"> • Understand need, approaches and principles of security. • Understand types of Malicious Software, Viruses, Firewall. • Categorized several types of attacks. • Learn Intrusion Detection System and system security.

	CS-DSC 2 D: Lab Course on COMP 223: Practical Course	<ul style="list-style-type: none"> • students are able to develop programs using C++ based on. • The concepts of object-oriented programming. • Students can also able to develop the programs related to several data structures like stack, queue, linked list, tress and graphs.
T.Y.B.Sc	DSC (UG-CS-501) System Programming	<ul style="list-style-type: none"> • Understand details about system software • To do basic system program like development of editors lexical analyzers etc • Students are familiar with language processing activities- functions of translators, loader • and linkers.
	DSC (UG-CS-502): Database Management System	<ul style="list-style-type: none"> • Solve real world problems using appropriate set, function, and relational models. • Design E-R Model for given requirements and convert the same into database tables. • Use SQL.
	DSC (UG-CS-503) Software Engineering	<ul style="list-style-type: none"> • Students are able to perform the E-R Diagram, DFD, Data dictionary, Decision tree about software. • They can also design the software in learned language using the course content. • Get the knowledge of types of testing & how testing is performed in industry.
	DSC (UG-CS-504): Computer Aided Graphics	<ul style="list-style-type: none"> • Differentiate between interactive and non-interactive graphics. • Study line Drawing and Circle Drawing techniques and algorithms. • Perform 2D and 3D transformation on different images. • Know about detail working of 2D and 3D clipping and windowing. • Understand raster graphics and hidden surface elimination
	DSC SEC(UG-CS-505) Python Programming – I	<ul style="list-style-type: none"> • Explain basic principles of Python programming language • Construct and apply various filters for a specific task. • Apply the best features of mathematics, engineering and natural sciences to program real • life problems.
	DSC (UG-CS-506 A): Elective A - Internet Programming using PHP	<ul style="list-style-type: none"> • To Design dynamic and interactive Web pages. • PHP framework for effective design of web applications.
	DSC (UG-CS-506B): JAVA Programming I	<ul style="list-style-type: none"> • Get knowledge of JDK environment • Explore polymorphism using method overloading and method overriding • Understand the different aspects of hierarchy of classes and their extensibility • Understands the concept of streams and files • Write programs for handling run time errors using exceptions

	DSC (UG-CS-601): Operating System	<ul style="list-style-type: none"> • Students should familiar with Operating System Services. • Understand CPU scheduling algorithms, memory Management Techniques, Disk Drum Scheduling algorithms, Deadlock preventions and avoidance. • Introduction to android operating systems – its architecture, applications and uses.
	DSC (UG-CS-602): Relational Database Management Systems	<ul style="list-style-type: none"> • Design E-R Model for given requirements and convert the same into database tables. • Use database techniques such as SQL & PL/SQL. • Explain transaction Management in relational database System. • Use advanced database Programming concepts
	DSC (UG-CS-603): Computer Network	<ul style="list-style-type: none"> • Students understand the information exchange done across the network with the help of OSI & TCP/IP models. • Student understands how errors are captured & handled in network. • Student understands various attack & its prevention techniques.
	DSC (UG-CS-604): Theoretical Computer Science	<ul style="list-style-type: none"> • Understanding the use of Sets, Relations and Graphs. • Understand Languages in TCS. • Introduction of Regular Languages and Expressions. • Understanding Pumping Lemma and its applications. • Explore the knowledge of Pushdown Automata. • Understanding Normal Forms with Examples. • Understanding Turing Machine.
	DSC (UG-CS-605) Python Programming – II	<ul style="list-style-type: none"> • Explain basic principles of Python programming language • Implement object-oriented concepts, database applications. • Construct regular expressions for pattern matching and apply them to various filters for a specific task. • Design and implement Database Application and Content providers. • Apply the best features of mathematics, engineering and natural sciences to program real life problems.
	DSC (UG-CS-606 A): Elective A - Web Programming using ASP.NET	<ul style="list-style-type: none"> • Upon completion of this course the students should be able to understand the .NET framework · • Develop a proficiency in the ASP.NET · • Develop ASP.NET web applications on any given scenario.
	DSC (UG-CS-606 A): Elective B - JAVA Programming II	<ul style="list-style-type: none"> • Program using graphical user interface with Swing classes • Handle different kinds of events generated while handling GUI components • Create programs using menus and dialog boxes

		<ul style="list-style-type: none"> • Program to create applets • Understand advanced java concepts like JDBC, Java Beans
M.Sc. -I	CS-411 Artificial Intelligence	<ul style="list-style-type: none"> • Identify problems that are amenable to solution by AI methods. • Identify appropriate AI methods to solve a given problem. • Design smart system using different informed search / uninformed search or heuristic approaches. • Apply the suitable algorithms to solve AI problems.
	CS-412 Optimization Algorithms	<ul style="list-style-type: none"> • Understand, design, construct, analyse and interpret Regular languages, Expression and Grammars. • Design different types of Finite Automata and Machines as Acceptor, Verifier and Translator. • Understand, design, analyse and interpret languages, Expression and Grammars. • Design different types of Push down Automata and Turing Machine.
	CS-413 Current Computing Trends in Java	<ul style="list-style-type: none"> • Develop high performance applications. • Acquire knowledge of secure and flexible framework. • Learn ease of use of databases in projects. • Define HTTP GET and POST operations. • Use a REST Client to make POST and GET requests to an API • Build self-contained and ready to run applications.
	CS-416 (A) Big Data Analytics	<ul style="list-style-type: none"> • Recognize the characteristics, applications of big data that make it useful to realworld problems. • Process available data using big data tools hadoop file system and predict outcomes to solve given problem. • Study & Design various case studies using big data tools/commands and analyze it. • Discuss the challenges and their solutions in Big Data • Understand and work on Hadoop Framework and eco systems. • Explain and analyze the Big Data using Map-reduce programming in Hadoop.
	CS-416 (B) Cloud Computing	<ul style="list-style-type: none"> • Explain the core concepts of the cloud computing paradigm: how and why this paradigm shift came about, the characteristics, advantages and challenges brought about by the various models and services in cloud computing. • Apply the fundamental concepts in datacentres to understand the trade-offs in power, efficiency and cost. • Identify resource management fundamentals, i.e. resource abstraction, sharing and sandboxing and outline their role in managing infrastructure in cloud computing. • Analyze various cloud programming models and apply them to solve problems on the cloud.
	CS-414 Lab on Artificial Intelligence (AI)	<ul style="list-style-type: none"> • Able to construct logic for the algorithms designed using designing techniques. • Able to do posterior analysis of the algorithms. • Able to debug the algorithms. • Modify to improve performance of the algorithms.

		<ul style="list-style-type: none"> • Able to test and profile the algorithms.
	CS-415 Lab on Current Computing Trends in Java	<ul style="list-style-type: none"> • Implement object serialization. • Implement mapping of JAVA classes to database tables. • Implement sending and retrieving the data across the network. • Implement interaction with databases without SQL. • Implement handling of different HTTP requests.
	CS-421 Data Warehousing and Data Mining	<ul style="list-style-type: none"> • Explain organization of data warehousing and data marts. • Differentiate between OLTP and OLAP. • Apply data pre-processing techniques. • Write basic algorithms for extracting patterns from data (association mining, classification and clustering). • Solve problems related with various aspects of data mining.
	CS-422 Angular JS	<ul style="list-style-type: none"> • Understand the fundamentals of Angular Forms and its architecture. • Present data in beautiful, interactive lists. • Build forms and setting pages.
	CS-423 Compiler Construction	<ul style="list-style-type: none"> • Understanding of basic structure of compiler, concepts and terminology in programming languages, lexical analysis, finite state techniques, scanner generator, parsing, kinds of parsers, designing lexical analyzer, scanner and parsers, principal ideas with intermediate code generation, optimizations. • Understanding of all concepts essential to design compiler in general for programming languages
	CS-426 (A1) Web Analytics	<ul style="list-style-type: none"> • Determine the likelihood that a given customer will repurchase a product after purchasing it in the past. • Personalize the site to customers who visit it repeatedly. • Monitor the amount of money individual customers or specific groups of customers spend. • Observe the geographic regions from which the most and the least customers visit the site and purchase specific products.
	CS-426 (B1) Soft Computing	<ul style="list-style-type: none"> • Understanding the basic soft computing with its applications and benefits. • Understanding basic principles of fuzzy logic with its control system designing and implementing. • Understanding architecture of neural network with its activation functions and deep learning.
	CS-424 Lab on Data Warehousing and Data Mining	<ul style="list-style-type: none"> • Organize strategic data in an enterprise and build a data Warehouse.
	CS-425 Lab on Angular JS	<ul style="list-style-type: none"> • Get familiar with client-side Javascript frameworks and the Angular framework. • Use various Angular features including directives, components, and services. • Implement a functional front-end web application using Angular.

	CS-426(A2) LAB on Web Analytics	<ul style="list-style-type: none"> • Gain a deep understanding of Web analytics as well as data about customer interactions with your organization online. • Identify and interpret conventional and emerging Web analytics measurements. • Understand the Web data collection and integration techniques and their potential applications and limitations.
	CS-426 (B2) Lab on Soft Computing	<ul style="list-style-type: none"> • Learn about soft computing techniques and their applications. • Analyze various neural network architectures. • Understand perceptron's and counter propagation networks. • Define the fuzzy systems. • Analyze the genetic algorithms and their applications.
M.Sc.-II	CS-301 Web Application Development Technology	<ul style="list-style-type: none"> • Successful students will be able to design web applications using ASP.NET • Successful students will be able to use ASP.NET controls in web applications. • Successful students will be able to debug and deploy ASP.NET web applications • Successful students will be able to create database driven ASP.NET web applications and web services
	CS-302 Digital Image Processing	<ul style="list-style-type: none"> • Developed scientific and strategic approach to solve complex problems Computer in the domain of Computer Graphics and Digital Image Processing. • Demonstrated various algorithms for scan conversion and filling of basic primitives objects and their comparative analysis and applied 2-D and 3-D geometric transformations, viewing and clipping on graphical objects. • Built the mathematical foundations for digital image representation, image acquisition, image transformation, image enhancement and restoration. • Developed a theoretical foundation of fundamental concepts of digital image processing. • Exposed students to MATLAB Image Processing Toolbox
	CS-303 - Software Engineering	<ul style="list-style-type: none"> • Understand and demonstrate basic knowledge in software engineering • Define various software application domains and remember different process model used in software development. • Explain needs for software specifications also they can classify different types of software requirements and their gathering techniques. • Convert the requirements model into the design model and demonstrate use of software and user interface design principles. • Distinguish among SCM and SQA and can classify different testing strategies and tactics and compare them. • Justify role of SDLC in Software Project Development • Generate project schedule and can construct, design and develop network diagram for different type of Projects

	CS-304 (A) Big Data Analytics	<ul style="list-style-type: none"> • Recognize the characteristics, applications of big data that make it useful to real-world problems. • Process available data using big data tools hadoop file system and predict outcomes to solve given problem. • Study & Design various case studies using big data tools/commands and analyse it.
	CS-305-LAB – V LAB on Web Application Development Technology	<ul style="list-style-type: none"> • On completion of the • Students will get hands-on experience on basic concepts in web applications development using ASP.NET technology. • Students can develop or undertake professional looking real life web sites using ASP.Net technology. • It will help students to grasp other Web Application Development technologies/platforms easily through learn-by-comparison approach so that the learning curve will be smooth and faster
	CS -306-LAB –VI LAB on Digital Image Processing	<ul style="list-style-type: none"> • Create PHP scripts that: • Developed scientific and strategic approach to solve complex problems Computer in the domain of Computer Graphics and Digital Image Processing using C++ and MATLAB respectively. • Implemented various algorithms for scan conversion and filling of basic primitives objects and their comparative analysis and applied 2-D and 3-D geometric transformations, viewing and clipping on graphical objects. • Exposed students to MATLAB and Image Processing Toolbox. • Used various tools in MATLAB to implemented image transformation, image enhancement in spatial and frequency domain. • Developed the programs on various digital image processing techniques.
	CS-401 Natural Language Processing	<ul style="list-style-type: none"> • Understand languages and linguistic background • Be familiar with applications and research background in NLP. • Grasp mathematical foundation related to NLP like probability, bays theorem and machine learning. • Know about linguistics essentials and grammar as part of speech and parsing and differentiating them. • Aware about word morphology and N-Gram Models.
	CS-402 Data Warehousing and Data Mining (DWDM)	<ul style="list-style-type: none"> • Understand network fundamentals with TCP/IP architecture. • Aware with client server programming and its application using socket interface. • Understand IGMP ICMP and IP datagrams • Understating the mobile and advoc network programming.
	CS-403 - Optimization Algorithms	<ul style="list-style-type: none"> • Understand data warehousing for business analysis using OLAP, OLTP, MOLAP and ROLAP. • Explore the concepts of data mining and data pre-processing. • Understand concept of association rule mining. • Grasp classification and prediction and analyze different issues related to them. • Identify different cluster analysis techniques. • Know about advanced data mining techniques such as spatial data mining and

		<ul style="list-style-type: none"> • Understand the concept of big data analysis.
	CS -405 Mini Project (200 marks)	<ul style="list-style-type: none"> • Deal with real world data. • Capability to acquire and apply fundamental principles of Computers Science. • Become master in one's specialized technology. • Become updated with all the latest changes in technological world. • Ability to communicate efficiently. • Knack to be a multi-skilled Computer Science professional with good technical knowledge, management, leadership and entrepreneurship skills. • Ability to identify, formulate and model problems and find engineering solution based on a systems approach. • Capability and enthusiasm for self-improvement through continuous professional development and life-long learning

Department of Electronics

Class	Course	Outcomes
FYBSc	ELECTRONICS-DSC 1 A: Network Analysis and Basics of Digital Electronics	<ul style="list-style-type: none"> • Apply knowledge to develop circuits using electronic devices. • Apply the concept and knowledge of electronics devices to real life problems. • Simulate complex circuits and understand the behavior of the systems. • Understand and analyze, linear and digital electronic circuits. • Review, prepare and present technological developments.
	ELECTRONICS-DSC 1 B: Analog Electronics and Digital Circuits	<ul style="list-style-type: none"> • Apply the concept and knowledge of digital integrated circuit chips to develop new systems. • Apply practical knowledge to solve real life problems of the society. • Understand of the course and create scientific temperament and give exposure to the students for independent use of digital integrated circuit chips for innovative applications. • Model complex circuits and simulate them. • Handle simulation software to analyse analog and digital electronics circuits.
S. Y. B. Sc.	ELECTRONICS-DSC 1 A: Analog Communication and Microprocessors	<ul style="list-style-type: none"> • Apply knowledge to develop circuits of analog modulation and demodulation. • Apply the concept and knowledge of microprocessors to real life problems. • Analyse modulation circuits and understand the behaviour of the systems. • Understand and analyse 8085 microprocessor and its programming. • Review, prepare and present technological developments.

	ELECTRONICS-DSC 2D: Analog Communication and Linear Integrated Circuits	<ul style="list-style-type: none"> • Apply the concept and knowledge of analog modulation and demodulation. • Understand the analog communication to develop new systems. • Apply practical knowledge of integrated circuits to solve real life problems of the society. • Understanding of the course and create scientific temperament and give exposure to the students for independent use linear integrated circuits. • Handle hardware and software to shoot problems of the society.
T. Y. B. Sc.	ELE- 501: Semiconductor Electronics	<ul style="list-style-type: none"> • Estimate the number of carriers at a given temperature for a semiconductor. • Understand the importance of doping to change carrier density.
	ELE 502: Advanced Digital System Design using VHDL	<ul style="list-style-type: none"> • Students will able to design digital circuits according to requirements. • Student will able to write VHDL code for digital circuit with the help of different modeling style
	ELE 503: Advanced Microprocessor	<ul style="list-style-type: none"> • Student will be able to Aware about the microprocessor and its architecture considerations & capable to analyze the operating modes • Understand the assembly language programming • Student will be able to understand the advanced microprocessor 80386 and operation of paging mechanism. • To gain the Knowledge about the Pentium series processor
	ELE – 504: Electronic Instrumentation	<ul style="list-style-type: none"> • Understand the concept of measurement systems and its various characteristics • Learn about different types of transducers and their working principle. • Know the different electronics measuring instruments and develop the skill to handle them. • Aquent the knowledge of testing instruments
	ELE- 505 : Medical Electronics	<ul style="list-style-type: none"> • Familiarize with human assist devices • Learn biological signals present in human body • Learn the various blocks of biomedical sensors • The electrodes which are normally used to measure the biological signals • Understand the working principles of various therapeutic and monitoring systems • Understand recording and analysis of prominent biosignals of human • Understand the measurement and analysis techniques for physiological parameters • Understand the patient imaging and monitoring systems
	ELE 506 (A): Embedded C	<ul style="list-style-type: none"> • Learn structure oriented programming concepts required in all other languages. • After completion of this course students are able to built real world applications based on embedded system and automation.
	ELE – 601 Power Electronics	<ul style="list-style-type: none"> • Have fundamental knowledge of semiconductor power electronic device

		<ul style="list-style-type: none"> • Can apply this knowledge for designing power electronic circuits
	ELE 602: Consumer Electronics	<ul style="list-style-type: none"> • Understand the various type of microphones and loud speakers. • To identify the various digital and analog signal. • Understand the various type of consumer goods and acquaint the skill of fault findings. • Develop the skill of electronics appliances like Set Top Box, CATV and Dish TV, water purifier, Air conditioner etc. • Acquaint the knowledge of different types of Television Technology
	ELE 603: Microprocessor Interfacing Techniques	<ul style="list-style-type: none"> • Student will be able to Aware about the concept of microprocessor and its interfacing & Capable to analyze the operation and priorities of Interrupt • Understand the concept of memory mapping & DMA • Student will be able to understand the ADC & DAC interfacing • To gain the Knowledge about the programmable interval timer and communication interface 8251 & analyze the operating modes
	ELE 604: Computer Network	<ul style="list-style-type: none"> • Recognize the technological trends of Computer Networking. • Discuss the key technological components of the Network. • Evaluate the challenges in building networks and solutions to those
	ELE 605: Embedded Systems	<ul style="list-style-type: none"> • To gain the knowledge about the 8051-microcontroller programming such as timer & counter and serial port programming • Understand the basic concept of interfacing with microcontroller • Understand the interfacing principle with Stepper motor and temperature sensor • To gain the Knowledge about the serial peripheral interface and two wire interface
	ELE-606 (B) Antennas and Wave propagation	<ul style="list-style-type: none"> • The student will be able to Understand how the electromagnetic wave propagate from an antenna • Learn the concept of RF feeding to an antenna • To calculate the various parameters of antenna to know its efficiency. • Study the various types of antennas used in recent communication systems. • Understand the wave propagation through space.

Department of Mathematics

Class	Course	Outcomes
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FYBSc	MTH 101: Matrix Algebra	<ul style="list-style-type: none"> • Upon successful completion of this course the student will be able to : • Understand concepts on matrix operations and rank of the matrix. • Understand use of matrix for solving the system of linear equations. • Understand basic knowledge of the eigen values and eigen vectors. • Apply Cayley-Hamilton theorem to find the inverse of the matrix. • Know the matrix transformation and its applications in rotation, reflection, translation.
	MTH 102: Calculus	<ul style="list-style-type: none"> • Upon successful completion of this course the student will be able to: • Understand basic concepts on limits and continuity. • Understand use of differentiations in various theorems. • Know the Mean value theorems and its applications. • Make the applications of Taylor's, Maclaurin's theorem. • Know the applications of calculus.
	MTH 103(B): Graph Theory	<ul style="list-style-type: none"> • To know the basic graphs and types of graphs • To understand operation on graphs • To understand connected graphs, Eulerian and Hamiltonian graphs • To solve various problems related with planer graphs • To learn trees and spanning trees.
	MTH 201: Ordinary Differential Equations	<ul style="list-style-type: none"> • Upon successful completion of this course the student will be able to: • Understand basic concepts in differential equations. • Understand method of solving differential equations • Understand use of differential equations in various fields.
	MTH 202: Theory of Equations	<ul style="list-style-type: none"> • To understand the number system • To learn divisibility and its application • To know about congruence relation and classes • To learn Fermat's theorem and Euler's theorem • To learn relation between roots and coefficients of polynomial equation
	MTH 203(B): Numerical Analysis	<ul style="list-style-type: none"> • Understand basic concepts of methods of solutions of equations viz. bisection, iteration, Newton-Raphson methods and method of false position. • Understand methods of curve fitting viz. Gauss's forward and backward difference formulae and Lagrange's interpolation formula. • Use of curve fitting such as least square, polynomial and exponential fittings for set of given data. • Use Taylor's series, Euler's method. Modified Euler's method., Runge Kutta methods for solving ordinary differential equations.

SYBSc	MTH 211: Calculus of Several variables	<ul style="list-style-type: none"> • It is used in almost all branches of engineering. • It deals with calculus of several variables. • To understand the importance of Taylors series. • To understand Mean value theorem. • To find area by double integration. • To find volume by triple integration.
	MTH-212(B): Computational Algebra	<ul style="list-style-type: none"> • Introduce the concept of algebra in computer • To learn the types of groups • To understand homomorphism and isomorphism • To learn group codes and decodes
	MTH 221: Complex Analysis	<ul style="list-style-type: none"> • It is used in fluid mechanics • To understand concept of complex numbers • To learn operation of complex numbers • Complex integration, residues and poles • To understand analytic concept
	MTH 222(B): Differential Equations and Numerical methods	<ul style="list-style-type: none"> • It is useful for methods of momentum and energy transfer. • To study existence and uniqueness about solutions. • To learn about the simultaneous differential equations. • To understand the methods of solution for total differential equations • It is widely used in Civil engineering, Mechanical engineering, etc. • To understand definition and properties of difference equations.
T.Y.B.Sc.	MTH – 351: Metric spaces	<ul style="list-style-type: none"> • A metric space is a set for which distances between all members of the set are defined • It is used in fixed point theorem and mapping principles. • To study continuous functions on metric spaces. • To learn connected metric spaces. • To understand complete metric spaces. • To study compact metric spaces.
	MTH – 352: Integral Calculus	<ul style="list-style-type: none"> • Used estimates areas and volumes • Applied in engineering • Estimates bounds of integrations • Introduce proper and improper integral • Used to find solution of LPP.

	MTH – 353: Modern Algebra	<ul style="list-style-type: none"> • Algebra is science of abstract thinking • It is used in computer science • To understand concept of normal subgroups and permutations • To learn quotient groups and polynomial rings and ideals
	MTH – 354: Lattice theory	<ul style="list-style-type: none"> • Primary information of sets, logic and probability theory. • Used in discrete mathematics, computer science and IT. • Introduces posets and chains. • To understand lattices and various types of lattices. • To learn about ideals and homomorphism.
	MTH-355(A): C-Programming	<ul style="list-style-type: none"> • Illustrate the flowchart and design analgorithm for a given problem and to develop IC programs using operators • Inscribe C programs that use Pointers toaccess arrays, strings and functions. • Exercise user defined data typesincluding structures and unions to solve problems • Exercise files concept to show input andoutput of files in C
	MTH-356(B): Vector Calculus	<ul style="list-style-type: none"> • Study of Rate of change of vectors is vector calculus. • It is widely used in Physics and Mechanics. • To study various operations on vectors. • To learn about differentiation and integration of vectors. • To understand the concepts of gradient, divergence and curl. • To know the importance of Stokes theorem and Gauss divergence theorem.
	MTH-361: Measure and Integration	<ul style="list-style-type: none"> • It is used in probability abd analysis • To understand measurable sets and functions • To learn Lebegue integrals and solve examples • To learn Fatou's lemma and Lebegue dominated
	MTH-362: Method of Real Analysis	<ul style="list-style-type: none"> • It is a branch of pure mathematics. • It is useful and Statistics, Probability, Operations Research, etc. • To study sequences. • To study series of real functions. • To know the Fourier series. • To study half range series.
	MTH-363: Linear Algebra	<ul style="list-style-type: none"> • It is one of the branch of algebra • Mostly used in electrical engineering

		<ul style="list-style-type: none"> • To understand vector spaces • To learn about basis, dimension • To understand eigen values and eigen vectors • To learn about linear transformation
	MTH-364: Ordinary and Partial differential equations	<ul style="list-style-type: none"> • To understand the importance of ordinary and partial differential equations. • It is used in solving many problems of engineering and physics. • To learn about exact differential equations and various types. • To learn about second order linear differential equations. • To study series method of solution. • To study about linear partial differential equations.
	MTH-365(A): Optimization Techniques	<ul style="list-style-type: none"> • Optimization techniques is a branch of Operations Research. • Used in solving problems in times schedule formation • It is used in Production engineering, Mathematics of finance, Networking, etc. • To study the job assignments • Introduces game theory and used to solve competitive games • To know the fundamentals of game theory.
	MTH-366 (A): Applied Numerical Methods	<ul style="list-style-type: none"> • It is a branch of numerical analysis • It is used for solving a system of equations and used in all branches of engineering. • To solve a system of linear equations. • To learn numerical differentiation and integration. • To learn about interpolation polynomials. • To apply numerical methods for differential equations.
F.Y.B.Com.	Quantitative Techniques	<ul style="list-style-type: none"> • To understand the Meaning of Quantitative Techniques • To understand the Functions and their applications • Know permutation and combinations • To know mean, mode and median • To understand measure of dispersion

Class	Course	Outcomes
F.Y. B. Sc.	PHY 101: Basic Mechanics	<ul style="list-style-type: none"> • To understand Vector algebra, Scalar and vector products, Derivatives of a vector with respect to a parameter. • To know about Types of differential equations, degree and order of differential equation, linear and non-linear differential equations, homogeneous and non-homogeneous differential equations 1st order homogeneous differential equations, 2nd order homogeneous differential equations with constant coefficients. • To understand Frames of reference, Newton's Laws of motion. • To understand Dynamics of a system of particles, Centre of Mass. • To know Conservation of momentum, Work and energy. • To understand Conservation of energy, Motion of rockets. • To understand Angular velocity and angular momentum, Torque. • To understand Conservation of angular momentum.
	PHY-102: Electricity and Magnetism	<ul style="list-style-type: none"> • To understand the fundamental Physics related to current electricity. • To study the working and operation of few electrical D.C. circuits. • Classify different types of magnetic materials with their properties. • To acquire knowledge about the phenomenon of electromagnetic induction. • To understand Kirchhoff's law by loop analysis. • To understand and illustrate Network theorem including Thevenin's theorem, Norton's theorem and Maximum power theorem.
	PHY-201: Heat and Thermodynamics	<ul style="list-style-type: none"> • To understand and discuss the results of Andrew's experiment and Amagat's experiments. • To determine van der Waals equation, Critical constants and concept of Boyle's temperature. • Understand basic concept of thermodynamics and to distinguish between work done due to Adiabatic and isothermal changes. • To understand Carnot's ideal heat engine, Carnot cycle and its efficiency, Carnot's theorem, Otto and Diesel engines with their efficiencies. • To state First and Second latent heat equations. • To understand Concept of entropy, Change of entropy in Reversible process and Irreversible process, T-S diagram. • Knowledge of basic principles of refrigeration methods: Evaporative refrigeration, refrigeration by throttling of gas, vapour refrigeration. • To learn basic components of simple vapour compression refrigeration understand its working with Flow diagram.
	PHY-202: THEORETICAL PHYSICS	<ul style="list-style-type: none"> • Students understand how to do addition, subtraction, multiplication, division and complex conjugate of complex numbers. • They learned how to write complex numbers in Rectangular, Polar and Exponential forms.

		<ul style="list-style-type: none"> • They understand how to complex numbers used to determine velocity and acceleration in circular motion. • They understand how to do differentiation like partial differentiation, total differential, and exact differential. • They learned how to Change of variables from Cartesian to polar coordinates. • They learned scalars and vectors and its Dot product and cross product of two vectors with their properties. • They understand Scalar triple product with properties and its geometrical interpretation. • They learned how to take divergence of vector field and circulation (Curl) of vector field.
	PHY 103: Practical Physics	<ul style="list-style-type: none"> • To acquire knowledge about experiments related to mechanics. • To understand the fundamental related to elasticity and viscosity. • To describe the fundamentals of electricity and magnetism. • Creating awareness about the consumption of electricity with energy meter. • Understanding of the optical phenomenon through experiments of Optics. • SECTION-I • M.I. of a disc by torsional pendulum. • $2.\eta$ by torsional oscillation. • Determination of acceleration due to gravity by Kater's reversible pendulum. • Determination of Y by using flat spiral spring. • Determination of η by using flat spiral spring. • To determine Y of rectangular beam by method of bending. • To determine Y by vibrational cantilever. • Poisson's ratio of rubber by using cord/rubber tube. • Determination of coefficient of viscosity of water by Poiseuille's method. • Verification of Bernoulli's theorem. • To determine the surface tension by Jaeger's method. • Thermal conductivity by Lee's method. • Thermocouple as thermometer. • SECTION-II • Verification of Kirchhoff's laws. • Verification of Thevenin's theorem. • Verification of Norton's theorem. • Maximum power transfer theorem. • Verification of Joule's law. • Determination of time constant of L-R circuit. • Determination of time constant of R-C circuit using charging and discharging of condenser through resistor. • To determine efficiency and turns ratio of transformer. • Study of spectrometer and determination of angle of prism. • Use of analog/digital multimeter.

		<ul style="list-style-type: none"> • Electric billing with energy meter. • Study of I-V characteristics of solar cell. • 13. Frequency of a. c. using vibrating wire and magnet.
S.Y. B. Sc.	PHY-301: Waves and Oscillations	<ul style="list-style-type: none"> • The ability of students developed how to do composition of two S.H.M.s having equal frequencies along same line of vibration. • They learned how to get the lissajous figures using mechanical, optical and electrical methods. • They understand what is Oscillations and how it is divided into different type on basis of it motion and different force action on it. • Student learned how energy, power dissipated in the oscillations and how to calculated quality factor. • The ability of student developed how to used Damped free oscillations in LCR ckt.. • They understand when the amplitude resonance and its relation with maximum power. • They learned how hearing ability of human being changes on the basis of sound intensity and its relation with loudness. • They learned how we can produce ultrasonic wave.
	(b) PHY- 302 (B) - Instrumentation	<ul style="list-style-type: none"> • To understand Standards of measurements and calibration • To understand Static performance characteristics such as Accuracy, Precision, Sensitivity, Linearity. • Concepts of errors and their types. • To know the principal, construction and working of Liquid- in-glass thermometer, Pressure thermometers their types Constant volume gas thermometer and Vapour pressure thermometer. • To study the principal, construction and working of Metallic resistance thermometer , Semiconductor resistance sensors ,Thermo-electric sensors . • To know the principal, construction and working of Total radiation pyrometer and Selective radiation pyrometer • Measurement of high pressure , Measurement of low pressure • To know the principal, construction and working of Microphones such as Condenser type microphone,Electret Microphone, Electrodynamic types of microphone .
	PHY – 401: Modern Physics	<ul style="list-style-type: none"> • To study conventional, non-conventional energy sources, solar cell-(types, working principle, operation and its applications) • To learn LASER (principle, characteristics, steps of formation, types, applications) • To understand Bohr's and Sommer field theories of hydrogen atom along with limitations of quantum mechanical model. • Study of matter waves through few experiments and uncertainty principle.
	PHY-402: Optics and LASER	<ul style="list-style-type: none"> • To study of Deviation produced by thin lenses, equivalent focal length of two thin lenses separated by a distance and when in contact, Power of lens.

		<ul style="list-style-type: none"> • To understand Spherical aberration in lens, reduction of spherical aberration, Chromatic aberration, Achromatism. Intensity distribution in the interference pattern, Phase change on reflection. • To study Interference due to reflected light, Interference in thin wedge shaped film, fringe width in case of fringes of equal thickness. • Newton's rings theory and its application to determine wavelength of source and refractive index of liquids, Michelson Interferometer. • To study the concept of Fraunhofer diffraction at single slit and double slits, Theory of plane transmission grating, Intensity distribution in diffraction pattern. Fresnel diffraction, rectilinear propagation of light, Resolving power of grating. • To understand basics of Polarization, Polarization by reflection, Brewster's law, Polarization by double refraction in uniaxial crystals, Double refracting crystals, Huygens explanation for normal incidence, Positive and negative crystals. • To understand production and detection of circularly and elliptically polarized light, Construction of Polaroid, Quarter and Half wave plates, Nicol prism, Rotation of the plane of polarization, Specific rotation, Polarimeter, Optical Activity. • To understand Principle of LASER, Characteristics of LASER, Basic steps required to form a LASER: absorption, spontaneous emission, stimulated emission, Metastable state, population inversion, optical pumping, Types of LASER, He-Ne LASER
	PHY 303: PRACTICAL COURSE-I	<ul style="list-style-type: none"> • SECTION-I • Determination of the decrement factor by using Logarithmic decrement (in air / water). • Study of acoustic resonance by using bottle as a resonator. • Determination of velocity of sound by using Kundt's tube. • Study of electrical resonance by using series L-C-R circuit. • Study of acoustic resonance by using resonance tube. • Study of resonance using Kater's pendulum. • Comparison of capacities by De Saughty's method. • R, Γ, Q using damped harmonic motion. • Demonstration of Lissajous figures by using C.R.O. • Frequency response of CE single stage transistor amplifier and to calculate its bandwidth. • SECTION-II INSTRUMENTATION-II • Use of C.R.O as a measurement tool for different electrical parameters (frequency, a.c. /d.c.voltage, pulse height, pulse width, rise time and fall time). • To obtain Lissajous figures using C.R.O. • To determine characteristics of Thermistor and to find an unknown temperature by using thermistor. • Measurement of magnetic field by search coil. • Measurement of magnetic field by hall probe method. • Directional characteristics of a microphone.

		<ul style="list-style-type: none"> • Platinum resistance thermometer. (Determine the melting temperature of Wax) • Velocity of sound by phase shift method. • 9. Measurement of Noise by Using Sound Pressure level Meter.
T.Y. BSc	PHY501: Mathematical Physics	<ul style="list-style-type: none"> • Have knowledge about, and being able to use, advanced mathematical methods and theories on various mathematical and physical problems. • Use mathematical formulations, analyses and models to obtain insight in specialized areas of Physics. • Be able to apply skills of mathematical, statistical and physical modeling in applied fields and on technological problems. • Be able to carry out, present and document a comprehensive independent work, demonstrating command of the terminology of the subject area. • Identify different special mathematical functions. • Apply techniques of vector analysis, such as gradient of scalar, divergence of vector, curl of vector, • To the study of special functions of mathematical physics • To understand Cartesian (X, Y, Z), Spherical polar (r,θ,φ) and Cylindrical (ρ,φ,z) co-ordinate systems and their transformation equations. • To understand expression for gradient, divergence, curl and Laplacian in curvilinear, spherical polar and cylindrical co-ordinate systems. • Solve partial differential equations with appropriate initial or boundary conditions with Green function techniques • Have confidence in solving mathematical problems arising in physics by a variety of mathematical techniques • To understand special relativity theory and to solve Lorentz transformation equations, Length contraction, time dilation,
	PHY 502: Classical Mechanics	<ul style="list-style-type: none"> • Students learned how Newton's laws of motion is important in science and what is its Limitations. • The ability of students developed how to differentiate different types of forces. • They understand strategy of satellite launching on the basis of equation of orbit using kepler's laws. • They learned how to calculate virtual work and its relation with virtual displacement. • The ability of students developed how to use Lagranges equation in the different type of motion. • They understand important of phase space and how to derived Hamilton's canonical equation of motion. • They understand how Hamilton's equation is more important than Lagranges equation and Newton's machnics. • The ability of students developed how to use Hamilton's equation in the different type of motion.
	PHY 503: Atomic and Molecular Physics	<ul style="list-style-type: none"> • To study Quantum numbers, physical interpretation of quantum numbers, electron spin, spin orbit interaction, spectral terms. Spectra of single valence electron system (sodium), selection rule, Pauli's exclusion principle. • To understand basics of Spin-spin and orbit- orbit interaction, LS & JJ coupling schemes, singlet triplet separations, p-d & s-p configuration in L-S coupling, Lande interval rule.

		<ul style="list-style-type: none"> • To study Zeeman Effect, Normal Zeeman Effect, Anomalous Zeeman effect, Paschen Back effect for single valence electron system.
	PHY 505: Solid State Physics	<ul style="list-style-type: none"> • Be able to account for interatomic forces and bonds. • Have a basic knowledge of crystal systems and spatial symmetries • Be able to account for how crystalline materials are studied using diffraction, including concepts like the Ewald sphere, form factor, structure factor, and scattering amplitude. • Be able to perform structure determination of simple structures • Understand the concept of reciprocal space and be able to use it as a tool know the significance of Brillouin zones • Know what phonons are, and be able to perform estimates of their dispersive and thermal properties • Be able to calculate thermal and electrical properties in the free-electron model and know Bloch's theorem and energy band and distinction between metals, semiconductors and insulators • Be able to estimate the charge carrier mobility and density. • Be able to account for what the Fermi surface is and how it can be measured. • To understand Lattice heat capacity and to compare Classical theory, Einstein's theory, Debye's theory of specific heat of solids. • To apply techniques of X-Ray Diffraction and UV Spectroscopy to study crystals.
	PHY- 506(A): Technical Electronics- I	<ul style="list-style-type: none"> • To describe construction and specification of resistors, capacitors, inductor, transformers of different types along with switches and relay. • To study construction of LED, LCD, LDR, photodiode, phototransistor along with applications. • To understand PCB in view of (idea, advantages, steps of making, precautions) along with principle of Photolithography • To study construction and working of different types of transducers including LVDT. • To study construction and working operation of different types of D to A and A to D converters. • Study of measuring instruments like CRO, function generator, DFM, DVM.
	PHY- 507 Practical I	<ul style="list-style-type: none"> • Students understand how to find Y and η by Searl's method. • Students understand how to find Y by Koenig's method. • Students understand how to use Searl's Goniometer. • Students understand how to calculate resolving power of grating. • A its temperature. • Students experimentally understand the determination of circular aperture of LASER • Students experimentally understand the determination of velocity of sound using ultrasonic Interferometer.
	PHY- 508 Practical II	<ul style="list-style-type: none"> • Students understand how to used UJT as relaxation oscillator. • They learned how to measure resistivity of sample by two probe method.

		<ul style="list-style-type: none"> • They understand how to use CRO for Time and Frequency determinations. • They learned how to use OP AMP for R-2R ladder. • They learned how to use OP AMP for square and triangular wave developed. • They developed ability of connecting circuits in proper way. • They learned the function of LDR and its use practical.
	PHY- 509 Project 1	<ul style="list-style-type: none"> • To allot a project • Preparation of a primary project report (topic selection, literature Search Strategy, literature Review, Project Planning). • Further PPT presentation of concern project is expected from students.
	PHY 601: Quantum Mechanics	<ul style="list-style-type: none"> • Apply the concept and use of knowledge of Quantum Mechanics to real life problems. • Understanding of the course will create scientific temperament
	PHY-602: Quantum Mechanics	<ul style="list-style-type: none"> • To develop a knowledge and understanding of the concept that quantum states live in a vector space. • To solve quantum mechanics problems. • Formulation of Schrödinger equation-time dependent and time independent forms. • To derive energy Eigen value and eigen functions particle in a box and 1-D harmonic oscillator. • To formulate the Schrödinger wave equation in terms of spherical polar co-ordinates for its application to solve Hydrogen atom problem. • To understand Postulate of quantum mechanics, operators and use of commutation and commutative algebra of operators to solve quantum mechanics problem.
	PHY 603: Nuclear Physics	<ul style="list-style-type: none"> • Students understand different composition of nucleus. • They understand relation between Binding energy and packing fraction. • They understand the nature of nuclear force. • They understand concept of radioactivity and its different concept of life and its various applications. • They understand different nuclear models and their limitation. • They understand type nuclear reaction on the basis of exoergic or endoergic concept. • They understand nuclear fission and nuclear fusion reactions on the basis mass gain or mass loss of nucleus. • They understand different nuclear reactor and the function of working.
	PHY 604: Modern and Applied Physics	<ul style="list-style-type: none"> • Apply the concept and use of knowledge of Modern and Applied Physics to understand and solve the real life problems. • Understanding of the course will create scientific temperament. • To understand basics of Fiber Optics. • To understand basic idea of holography

	PHY- 605: Elements of Material Science	<ul style="list-style-type: none"> • Get knowledge of Historical perspectives of materials science. • To classify between advanced materials, Smart materials, Nano structured Materials. • To understand chemistry of organic material and its classification. • To understand and learn the Mechanical Properties, Thermal Properties, Electrical Properties, and Magnetic Properties of materials. • To understand the basic concept of Dislocations and Plastic Deformation. • To understand Atomic Diffusions and its Mechanism. • To state Fick's Law (Ist and IInd Law). • To understand basics of phase diagram, its classifications, and its interpretation. • To study Binary Phase Diagram for: i) Sugar-Water, ii) NaCl-water, and Alloys forming Eutectic: Pb –Sn diagram
	PHY- 606(A): Technical Electronics- II	<ul style="list-style-type: none"> • To describe sound system including types of microphones and speakers. • To study public address system and its installation along with different phonic systems and CD player. • To study bio medical instruments including various types of electrodes, ECG, and ultrasonography. • To study peizo-electric and optoelectronic transducers along with chemical sensors (PH, gas, humidity). • To understand the operating principle, block diagram and features of modern home appliances (Microwave Oven, Cellular phone, Washing machine, Electronic Weighing System)
	PHY- 607 Practical III	<ul style="list-style-type: none"> • Students understand how to calculate Surface tension by Quinke's method. • Students understand how to calculate Thermal conductivity of rubber by tubing method. • Students understand how to calculate Thermal conductivity of metal by Forbe's method. • Students understand verification of certain laws of probability distribution. • Students understand verification of Stefan's law by torch bulb filament. • Students understand calculation of velocity of sound by phase shift method. • Students understand calculation of viscosity by rotating cylinder method. • Students understand determination of 'g' by conical pendulum.
	PHY- 608 Practical IV	<ul style="list-style-type: none"> • Students understand how to used OP AMP as adder. • They understand how to used OP AMP as subtractor. • They learned how to used CRO for Time and Frequency determinations. • They understand how to used OP AMP as differentiator. • They developed ability of connecting circuits in proper way. • They learned how to used IC 7490 as different counting modes.
	PHY- 609: Project work – II	<ul style="list-style-type: none"> • To check the part of experimental work done by the candidate on the given topic. • To made discussion with student on the results obtained from experimentation. • To guide student for writing the conclusion of the project based on the results obtained so far.

		<ul style="list-style-type: none"> • Further students are advice to prepare PPT presentation of their concern project.
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Department of Zoology

Class	Course	Outcomes
F.Y.B.Sc	ZOO 101 Invertebrate	<ul style="list-style-type: none"> • To know the basic concept of taxonomy. • Identified the taxonomic status of the entire non-chordates up to Echinodermata and discuss the evolutionary model of the group. • Described the general biology of few selected non-chordates useful to mankind. • Know about some of the important and common protozoans, helminthes of parasitic nature causing diseases in human beings. • Understand the important general topics of each phyla such as locomotion in protozoa, metamerism in annelids etc.
	ZOO 102 Grasshopper the non-Chordate	<ul style="list-style-type: none"> • Understanding the classification of chordates up to orders and general features of each class. • Understand the important general topics of each class such as osmoregulation in fishes, metamorphosis in frog, parental care in amphibia etc. • Study of different socially important general topics such as poisonous and nonpoisonous snakes, biting mechanism in snakes. • Understanding the origin and evolution of mammals.
	ZOO-202 Vertebrate	<ul style="list-style-type: none"> • To know about the structure and functions of various systems of the body. • To understand the evolution of various systems in different classes of chordates. • To get the knowledge of comparative study of different organs in different classes. • To know the structure and functions of different sense organs
	ZOO 202 Frog: The Chordate	<ul style="list-style-type: none"> • Introduction to the concept of embryology. • Understanding the structure of gametes and different types of female gamete. • Study of the chick embryology in detail with reference to various stages of development.computer
	ZOO-103 Practical Zoology SEM-I	<ul style="list-style-type: none"> • To study the various specimens of non-chordates and chordates with reference to their classification, habit, habitat, biological and economic importance. • To observe permanent slides and correlate with therotical knowledge. • Identification of poisonous and non-poisonous snakes with the help of photographs and key provided.

	ZOO 203 Practical Zoology Sem-II	<ul style="list-style-type: none"> • To study the disarticulated skeleton of fowl and rabbit, their bones with the help of photographs. • To study the developmental stages of frog through permanent slides. • Understand the types of placenta with respect to histology. • To examine frog/ rat gametes through permanent slides/ photographs.
S.Y.B.Sc.	ZOO 301 Physiology	<ul style="list-style-type: none"> • Understanding of the physiology of various systems in the human body. • Explanation of the different functions and mechanism of the systems. • Identification oral and aboral surface of starfish. • Understanding of the hormonal control of reproductive organs.
	ZOO 302 Biochemistry	<ul style="list-style-type: none"> • Knowledge and introduction of the scope of Biochemistry. • Understanding of the metabolism of different food stuffs in human body. • Understanding the enzyme activity, classification, mechanism of action and regulations.
	ZOO-401 Genetics	<ul style="list-style-type: none"> • Introduction of Mendelian work of Genetics and its extension. • Understanding the linkage, crossing over and chromosomal mapping. • Explanations of sex determination with various methods. • Understanding the different types of chromosomal mutations.
	ZOO 402 Evolutionary Biology	<ul style="list-style-type: none"> • Introduction to the major events in history of life and various evolutionary theories. • Study of direct evidences of evolution, organic variations with processes. • Study of macroevolution, concept of species and mass extinction.
T.Y.B.Sc.	Z00 351: Endocrinology	<ul style="list-style-type: none"> • Animal type - Leech • Introduction of anatomy and physiology of non-chordates Animals • Understanding the characters of leech • Classification of the Leech with taxonomic keys • Identification of the characters of phylum Annelida with its characters • Knowledge of the economic importance of Leech.
	Z00 352: Cell and Molecular Biology	<ul style="list-style-type: none"> • Understanding the structure and function of cell • Comparison of the structure and function of different cell organelles • Explanation of the molecular organization of nucleic acids.
	Z00 353: Mammalian Histology and Physiology I	<ul style="list-style-type: none"> • Introduction to the different methods of histology • Study of the physiology of different tissues • Understanding of the different systems of mammals. • Knowledge of the mechanism of digestion and respiration

	Z00 354 Biotechnology	<ul style="list-style-type: none"> • Understanding the nature of the different carbohydrates, lipids and nucleic acids. • Study of the different biomolecules and important role of biomolecules in life.
	Z00 355 Public Health and Hygiene	<ul style="list-style-type: none"> • Study of the different methods classification of animal. • Understanding the hierchic classification of frog and calotes • Explanations the geographical distribution of animals • Identification the different geographical regions.
	Z00 356 (B)Pest Management	<ul style="list-style-type: none"> • Identification of the different kinds of pests with the help of key, • Study of the control mechanism of pests w.r.t. life cycle.
	Z00 361 Study of Leech and Calotes	<ul style="list-style-type: none"> • Study of the Systematic position, habit, habitat and external characters of scoliodon. • Understanding the different systems of scoliodon • Study of the sense organs of scoliodon. • Explanation of the reproduction, fertilization and development of scoliodon. • Understanding the comparative account of skin, heart and aortic arches in different vertebrates.
	Z00 362 General embryology	<ul style="list-style-type: none"> • Introduction to the concept of embryology. • Understanding the structure of gametes and different types of female gamete. • Study of the chick embryology in detail with reference to various stages of development.
	Z00 363 : Mammalian Histology and Physiology II	<ul style="list-style-type: none"> • Explanation of the excretory system and excretion. • Understanding of the nerve impulses conducted at myelinated and nonmyelinated nerve fibre. • Study of the physiology of hearing and physiology of vision. • Study of the different endocrine glands, its structure and function.
	Z00 364 Research Methodology	<ul style="list-style-type: none"> • Introduction to the scientific approach of research. • To gain the knowledge of the research design • Study of the different types data analysis and data representation. • Understanding the component of research report/project. • Explanations of the parameters of research. • Study to write a letter to editor to publish research work.
	Z00 365 Microtechnique	<ul style="list-style-type: none"> • Study of the materials collected for micro processing • Understanding how the different fixatives works. • To study the theory of washing and dehydration process. • Study of blocks embedding and making, section cutting and affixing.

	Z00 356 (C) Applied Zoology III (Vermiculture, poultry and Fishery)	<ul style="list-style-type: none"> • Introduction to the vermiculture introduction and scope. • Study of the how the vermicomposting and vermiwash units are established. • Comparison of the different poultry breed, housing and equipment of poultry.
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Department of BVoc.

Class	Course	Outcomes
FY.B.VOC (Beauty Therapy)	VOC 101 Linguistic Proficiency-I (English& Marathi) with Language lab training	<ul style="list-style-type: none"> • Expression power, and communication skill of the students in English and Marathi will improve
		<ul style="list-style-type: none"> • Students will be able to identify the necessities of behavioral and expressive attitudes as per situations.
	VOC 102 Computer Fundamentals-I (Information Technology) : Theory	<ul style="list-style-type: none"> • Students will have command on basic IT skills
		<ul style="list-style-type: none"> • Students will be able to use computer and internet facilities for their academic and holistic development purpose
	VOC 103 Computer Fundamentals-I (Information Technology): Laboratory Coursework	<ul style="list-style-type: none"> • Students will demonstrate different basic IT operations.
		<ul style="list-style-type: none"> • Students will be able to use computer and internet facilities for their academic and holistic development purpose.
	VOC 104 Professional Ethics and Management Practices	<ul style="list-style-type: none"> • Students will become aware of professional ethics and fundamentals of management practice
		<ul style="list-style-type: none"> • Students will acquire understanding of responsibilities of corporate sector towards the society
		<ul style="list-style-type: none"> • This course will improve the leadership quality in the students
	VOC 121 Skin Theory	<ul style="list-style-type: none"> • Students will learn to make analysis of different types of skin.
		<ul style="list-style-type: none"> • Students will gain knowledge to give skin treatments.
		<ul style="list-style-type: none"> • Students will study to have knowledge of disorders of sebaceous glands and saporiferous gland.

		<ul style="list-style-type: none"> • It enable students to give treatments on pigmentation of skin.
	VOC 122 Electrology	<ul style="list-style-type: none"> • Students will understand handling techniques of different electrical equipments of salon.
		<ul style="list-style-type: none"> • Students will understand techniques of handling of vapozone , high frequency machine and give treatments
		<ul style="list-style-type: none"> • Students will have knowledge of handling of galvanic, skin tester and massager.
		<ul style="list-style-type: none"> • Student will understand and have knowledge of Anatomy and Physiology
	VOC 123 Human Anatomy	<ul style="list-style-type: none"> • Students will be able to Know the Structure of Skin, Hair and Nails • Students will identify and describe the bones, muscles and nerves of the hands, arms, legs and feet.
	VOC 124 Personal Grooming	<ul style="list-style-type: none"> • Students will have knowledge of basic etiquettes of beautician.
		<ul style="list-style-type: none"> • Students will learn different grooming so that they do grooming of necks, eyes, nose, ear and body so that they can enhance their personality.
	VOC 125 Practical Course –I (Skin Theory)	<ul style="list-style-type: none"> • Students can demonstrate different skin treatments.
		<ul style="list-style-type: none"> • Students can give treatments on pigmentation of skin.
	VOC 126 Practical Course –II(Electrology)	<ul style="list-style-type: none"> • Students can handle and demonstrate practical on different electrical equipments in salon.
		<ul style="list-style-type: none"> • Students can give treatments on different skin.
	VOC 127 Practical Course –III (Human Anatomy)	<ul style="list-style-type: none"> • Students can identify and describe the bones, muscles and nerves of the hands, arms, legs and feet.
	VOC 128 Practical Course – IV (Personal Grooming)	<ul style="list-style-type: none"> • Students can enhance their personality using different grooming techniques.
		<ul style="list-style-type: none"> • Students will learn basic etiquettes for beautician.
	VOC 129 In-house Training- I (Herbal Beauty Therapy)	<ul style="list-style-type: none"> • Students can analyze different beauty herbals.
		<ul style="list-style-type: none"> • Students will be able to prepare different herbal products.
	VOC 201 Linguistic Proficiency-II(English & Hindi) with Lang. lab training	<ul style="list-style-type: none"> • Students will be able to write formal letters

		<ul style="list-style-type: none"> • Presentations skill of students will improve
		<ul style="list-style-type: none"> • Students will be able to face interviews
	VOC 202 Computer Fundamentals-II (Basic Computer Hardware System) : Theory	<ul style="list-style-type: none"> • Students can solve general hardware related issues
		<ul style="list-style-type: none"> • They can install various devices as well as operating system in the computer
		<ul style="list-style-type: none"> • Students can build their own computer system.
	VOC 203 Computer Fundamentals-II (Basic Computer Hardware System) : Lab- Course	<ul style="list-style-type: none"> • Students can solve general hardware related issues.
		<ul style="list-style-type: none"> • They can install various devices as well as operating system in the computer.
		<ul style="list-style-type: none"> • Students can build their own computer system.
	VOC 204 Environment Management	<ul style="list-style-type: none"> • Students will think on ecosystem and environment problems.
		<ul style="list-style-type: none"> • They can make other people aware about environment problems
		<ul style="list-style-type: none"> • They will be introduced to environmental policies a regulations
	VOC 221 Basic Facial	<ul style="list-style-type: none"> • Students will gain knowledge of different types of facial.
		<ul style="list-style-type: none"> • It enables students to apply facial as per requirement of skin.
	VOC 222 Theory of Massage	<ul style="list-style-type: none"> • Students will evaluate massage in cycological parameters.
		<ul style="list-style-type: none"> • Students will understand and have knowledge of different techniques of massage.
	VOC 223 Hair Beauty Therapy	<ul style="list-style-type: none"> • Students will have knowledge of Hair Structure and types of hair , different hair treatments such as applying hair shampoo, conditioner, chemicals and mehandi.
		<ul style="list-style-type: none"> • Students will learn different haircut and different hair style.
	VOC 224 Cosmetlogy	<ul style="list-style-type: none"> • Students will have knowledge of herbal and chemical cosmetics.
	VOC 225 Practical Coursework – V(Basic Facial)	<ul style="list-style-type: none"> • Students will learn basic facial steps.

		<ul style="list-style-type: none"> • Students can demonstrate different practical of facial
	VOC 226 Practical Coursework – VI (Theory of Massage)	<ul style="list-style-type: none"> • Students will learn basic techniques of massage.
	VOC 227 Practical Coursework – VII(Hair Beauty Therapy)	<ul style="list-style-type: none"> • Students will analyze different hair structures and hair treatments such as applying hair shampoo, conditioner and chemicals.
		<ul style="list-style-type: none"> • Students can demonstrate practical of different hair cuttings and hair styles.
	VOC 228 Practical Coursework – VIII (Cosmatology)	<ul style="list-style-type: none"> • Students will have knowledge of herbal and chemical cosmetics.
	VOC 229 Training – II (Herb & Cosmetic Knowlwdge)	<ul style="list-style-type: none"> • Students will prepare different cosmetics using herbs.
SY.B.Voc	VOC 301 Linguistic Proficiency-III	<ul style="list-style-type: none"> • Students will become good English communicator
		<ul style="list-style-type: none"> • They can successfully present themselves in seminars, oral presentation, interviews etc.
	VOC 302 Business Software Tools –I	<ul style="list-style-type: none"> • Students can create and manage HTML documents.
	VOC 303 Statistical Tools (Probability and Statistics)	<ul style="list-style-type: none"> • Students will be able to use statistical models in various aspects of engineering, business, and analysis.
	VOC 321 Saloon Maintenance	<ul style="list-style-type: none"> • Students will be able to groom themselves to be a good personality.
		<ul style="list-style-type: none"> • Students will have knowledge of handling different machineries.
	VOC 322 Human Anatomy	<ul style="list-style-type: none"> • Students will have knowledge of different body parts.
		<ul style="list-style-type: none"> • Students will study body muscles, bones and body stretching.
	VOC 323 Practical Course –V	<ul style="list-style-type: none"> • Students can handle and perform different demonstration of machineries.
		<ul style="list-style-type: none"> • Students can enhance their personality using different grooming techniques.
	VOC 324 Practical Course –VI	<ul style="list-style-type: none"> • Students will be able to demonstrate different practical on body parts.
	VOC 325 Internship/Field Work/ Project	<ul style="list-style-type: none"> • Students will able to learn professional terminology and respectful communication when interacting with professionals and clients in the practice setting.
		<ul style="list-style-type: none"> • Assess interests and abilities in their field of study.
	VOC 401 Industrial Ethics and Safety Management / Ethical, Legal and Regulatory Aspects	<ul style="list-style-type: none"> • Students become acquainted with ethics that should be followed at the workplace

		<ul style="list-style-type: none"> • Students will be able to manage industrial safety and also able to manage control measures for industrial hazards
	VOC 402 Business Software Tools-II	<ul style="list-style-type: none"> • Students will be able to use softwares such as CSS, photoshop, dreamware, flash; as per their application(s)
	VOC 403 Fundamentals of Business and Accounting	<ul style="list-style-type: none"> • Students will get knowledge of fundamentals of business, basic accounting terms, financial accounting etc. This will help them if they start their business in any field
	VOC 421 Facial Mask	<ul style="list-style-type: none"> • Students will have knowledge of preparing different facial mask such as Herbal Mask, different peels and face lifting mask.
		<ul style="list-style-type: none"> • It enables students to apply the packs as per requirement of skin.
	VOC 422 Advance Herbal Science and Cosmetic Science	<ul style="list-style-type: none"> • Students will have knowledge of preparation of cosmetics, homemade herbal product and wax making.
		<ul style="list-style-type: none"> • Students will acquire knowledge of market products such as Hair mask, oil face pack and Gulabjal.
	VOC 423 Practical Course –VII	<ul style="list-style-type: none"> • Students can prepare different facial mask such as herbal mask, different peels and face lifting mask
		<ul style="list-style-type: none"> • Students can apply packs as per requirement of skin.
	VOC 424 Practical Course –VIII	<ul style="list-style-type: none"> • Students can have knowledge of different market products such as hair mask, oil face pack.
		<ul style="list-style-type: none"> • Students can prepare cosmetics, homemade herbal products.
	VOC 425 Internship/Field Work/ Project	<ul style="list-style-type: none"> • Students will be able to learn professional terminology and respectful communication when interacting with professionals and clients in the practice setting.
		<ul style="list-style-type: none"> • Assess interests and abilities in their field of study.
TYBVOC	VOC 501 Personality Development and Stress Management	<ul style="list-style-type: none"> • Students will be able to groom themselves to a good personality by own's SWAT analysis.
		<ul style="list-style-type: none"> • Students will be able to handle stress developed by dint of day to day activities
	VOC 502 Labor Laws and Taxation	<ul style="list-style-type: none"> • Students will be able to understand the term 'labour' and handle related problems, disputes.
		<ul style="list-style-type: none"> • Students will be able to handle and understand tax related issues while working in industry

	VOC 503 Business Communication	<ul style="list-style-type: none"> • Student will acquire effective skills for advance level business practices.
	VOC 504 Product Costing	<ul style="list-style-type: none"> • Students will be able to draft efficient planning towards market research and accordingly effect designing and product costing
	VOC 521 Spa Therapy	<ul style="list-style-type: none"> • Students will gain knowledge of different types of spa treatments such as hair , hand Body Spa
		<ul style="list-style-type: none"> • Students will have basic knowledge of using herbal oils, herbal products that is to be used in different spa treatments.
	VOC 522 Advance Hair Art	<ul style="list-style-type: none"> • Students will study standard measurements of eyebrows, color co-ordination for different advance Make-up such as basic professional and corrective make-up
		<ul style="list-style-type: none"> • Students will be able to apply different advance haircut and hair styles.
		<ul style="list-style-type: none"> • Students can enhance their hairs using broaches, hair coloring, hair priming, straightening and setting.
	VOC 523 Practical Course –IX	<ul style="list-style-type: none"> • Students will demonstrate various spa treatments on different body parts.
		<ul style="list-style-type: none"> • Students will be able to use different oils and products for spa treatments.
	VOC 524 Practical Course – X	<ul style="list-style-type: none"> • Students will be able to demonstrate different basic and advance make-up.
		<ul style="list-style-type: none"> • Students will be to demonstrate different hair styles.
	VOC 525 Major Project (Phase – I) with field work	<ul style="list-style-type: none"> • It helps the students to apply the students to apply the theory & practical demonstration actual practice.
		<ul style="list-style-type: none"> • The students acquire significant substance substitute knowledge in the specified field of practice.
	VOC 601 Human Resource Management	<ul style="list-style-type: none"> • Students will familiarize with basic concepts of Human Resource Management.
		<ul style="list-style-type: none"> • Students will study various dimensions of Human Resource Management.
	VOC 602 Entrepreneurship Development	<ul style="list-style-type: none"> • Students communication skills are improved.
		<ul style="list-style-type: none"> • Students will be able to getting to parameters of responsibility, positivity.
	VOC 603 Workshop Management / Outdoor Management	<ul style="list-style-type: none"> • Students will equip with the necessary soft skills to enhance their competitive edge in the job market.
		<ul style="list-style-type: none"> • Students imbibe with positive attitude towards life and work.

	VOC 621 Advance Make-Up Art	<ul style="list-style-type: none"> • Students will study standard measurements of eyebrows, color co-ordination for different advance make-ups such as basic, professional and corrective make-ups.
		<ul style="list-style-type: none"> • Students will gain knowledge of different make-ups and preparation for make-ups such as vanity set up which include techniques to setup vanity by using different enhanced equipments.
	VOC 622 Market Survey	<ul style="list-style-type: none"> • Students will visit different marketing areas.
		<ul style="list-style-type: none"> • Students will study and collect information of different types of products such as electrical equipments, cosmetics and other beauty enhancement products.
	VOC 623 Practical Course –XI	<ul style="list-style-type: none"> • Students will be able to demonstrate different basic and advance make-up.
		<ul style="list-style-type: none"> • Students can use different advanced machineries and equipments.
	VOC 624 Major Project (Phase – II)	<ul style="list-style-type: none"> • It helps the students to apply the theory & practical demonstration into actual practice.
		<ul style="list-style-type: none"> • The students acquire significant substance substitute knowledge in the specified field of practice.
	VOC 625 Beauty Expo	<ul style="list-style-type: none"> • Students will be able to make proficient market planning.
		<ul style="list-style-type: none"> • Students will learn basic technique of event organization.
FYBVOC (Fashion Designing)	VOC 101 Linguistic Proficiency-I (English& Marathi) with Language lab training	<ul style="list-style-type: none"> • Expression power, and communication skill of the students in English and Marathi will improve.
		<ul style="list-style-type: none"> • Students will be able to identify the necessities of behavioral and expressive attitudes as per situations.
	VOC 102 Computer Fundamentals-I (Information Technology) : Theory	<ul style="list-style-type: none"> • Students will have command on basic IT skills
		<ul style="list-style-type: none"> • Students will be able to use computer and internet facilities for their academic and holistic development purpose
	VOC 103 Computer Fundamentals-I (Information Technology): Laboratory Coursework	<ul style="list-style-type: none"> • Students will demonstrate different basic IT operations.
		<ul style="list-style-type: none"> • Students will be able to use computer and internet facilities for their academic and holistic development purpose

	VOC 104 Professional Ethics and Management Practices	<ul style="list-style-type: none"> • Students will become aware of professional ethics and fundamentals of management practice
		<ul style="list-style-type: none"> • Students will acquire understanding of responsibilities of corporate sector towards the society
		<ul style="list-style-type: none"> • This course will improve the leadership quality in the students
	VOC 111 Tools and Machine	<ul style="list-style-type: none"> • Students will come to know different parts, tools of machineries.
		<ul style="list-style-type: none"> • Students will be able to operate treadle sewing machine.
		<ul style="list-style-type: none"> • Students will learn maintenance of sewing machines.
		<ul style="list-style-type: none"> • It will enable students to learn safety of equipments.
	VOC 112 Design Concept	<ul style="list-style-type: none"> • Students will become aware of fashion designing.
		<ul style="list-style-type: none"> • Students will learn latest trends in fashion designing.
	VOC 113 Apparel Construction	<ul style="list-style-type: none"> • Students will come to know basic fundamental knowledge regarding apparel construction.
		<ul style="list-style-type: none"> • Student will understand basic of cutting and stitching.
		<ul style="list-style-type: none"> • It enable student to take measurements and understand difference between inches, cms, yards and meters.
	VOC 114 Basic Textiles	<ul style="list-style-type: none"> • Students will understand concept of creation of different types of prints.
		<ul style="list-style-type: none"> • It enables students to create different types of print such as nursery, handkerchief prints etc.
	VOC 115 Practical on Tools and Machine	<ul style="list-style-type: none"> • Students will be able to demonstrate different practical on machineries.
		<ul style="list-style-type: none"> • Students will be able to demonstrate maintenance of different machineries.
	VOC 116 Practical on Design Concept	<ul style="list-style-type: none"> • Students are able to design the dress as per the latest trends in fashion industry.
		<ul style="list-style-type: none"> • Students will learn different history of costumes.
	VOC 117 Practical on Apparel Construction	<ul style="list-style-type: none"> • Students will be demonstrate different pattern making.
		<ul style="list-style-type: none"> • Students will come to know basic blocks of drafting.

		<ul style="list-style-type: none"> • Students will demonstrate practical basic cutting and stitching.
	VOC 118 Practical on Basic Textile	<ul style="list-style-type: none"> • Students will be able demonstrate different types of prints such as nursery, handkerchief etc. on cloth.
	VOC 119 In-house Training – I (Picture folder)	<ul style="list-style-type: none"> • Students will be able to demonstrate picture folder on the basis of different themes such party wear, bridal and formal outfits.
	VOC 201 Linguistic Proficiency-II(English & Hindi) with Lang. lab training	<ul style="list-style-type: none"> • Students will be able to write formal letters
		<ul style="list-style-type: none"> • Presentations skill of students will improve
		<ul style="list-style-type: none"> • Students will be able to face interviews.
	VOC 202 Computer Fundamentals-II (Basic Computer Hardware System) : Theory	<ul style="list-style-type: none"> • Students can solve general hardware related issues
		<ul style="list-style-type: none"> • They can install various devices as well as operating system in the computer
		<ul style="list-style-type: none"> • Students can build their own computer system
	VOC 203 Computer Fundamentals-II (Basic Computer Hardware System) : Lab- Course	<ul style="list-style-type: none"> • Students can solve general hardware related issues
		<ul style="list-style-type: none"> • They can install various devices as well as operating system in the computer
		<ul style="list-style-type: none"> • Students can build their own computer system.
	VOC 204 Environment Management	<ul style="list-style-type: none"> • Students will think on ecosystem and environment problems.
		<ul style="list-style-type: none"> • They can make other people aware about environment problems
		<ul style="list-style-type: none"> • They will be introduced to environmental policies a regulations
	VOC 211 Indian Costume	<ul style="list-style-type: none"> • Students will impart knowledge regarding Indian Costumes.
		<ul style="list-style-type: none"> • Students will gain knowledge of Region wise Indian Costumes Presentation Skills.
	VOC 212 Garment Construction	<ul style="list-style-type: none"> • Students can understand knowledge of different seams and stitches.

		<ul style="list-style-type: none"> • Different pattern making and cutting techniques of students will improve.
		<ul style="list-style-type: none"> • Students can understand different pattern of dress such as sleeves, collars, salwar, kameez andetc.
	VOC 213 Fashion Illustration	<ul style="list-style-type: none"> • Students will come to know different type of fabric painting
		<ul style="list-style-type: none"> • Different color combination techniques of students will improve.
		<ul style="list-style-type: none"> • Students can draw figures and shading.
		<ul style="list-style-type: none"> • Students can proportionate male, female and children.
	VOC 214 Surface Ornamentation	<ul style="list-style-type: none"> • Students will learn students crochet and sequence work
		<ul style="list-style-type: none"> • Students will groom in presenting surface ornaments
	VOC 215 Practical Coursework–V(Indian Costume)	<ul style="list-style-type: none"> • Students will impart practical knowledge regarding Indian Costumes.
		<ul style="list-style-type: none"> • Students will understand knowledge of Region wise Indian Costumes Presentation Skills
	VOC 216 Practical Coursework – VI(Garment Construction)	<ul style="list-style-type: none"> • Students will demonstrate different seams, stitches
		<ul style="list-style-type: none"> • Students can demonstrate different pattern of dress such as sleeves, collars etc.
	VOC 217 Practical Coursework – VII(Fashion Illustration)	<ul style="list-style-type: none"> • Students able to demonstrate different fabric painting.
		<ul style="list-style-type: none"> • Students will demonstrate and make use of color combination.
	VOC 218 Practical Coursework – VIII (Surface Ornamentation)	<ul style="list-style-type: none"> • Students will learn students crochet and sequence work
		<ul style="list-style-type: none"> • Students will groom in presenting surface ornaments
	VOC 219 In-house Training – II (Hand Embroidery)	<ul style="list-style-type: none"> • Students will be able to demonstrate practical of hand and machine embroidery.
SYBVOC	VOC 301 Linguistic Proficiency-III	<ul style="list-style-type: none"> • Students will become good English communicator
		<ul style="list-style-type: none"> • They can successfully present themselves in seminars, oral presentation, interviews etc.

	VOC 302 Business Software Tools –I	<ul style="list-style-type: none"> • Students can create and manage HTML documents
	VOC 303 Statistical Tools (Probability and Statistics)	<ul style="list-style-type: none"> • Students will be able to use statistical models in various aspects of engineering, business, and analysis
	VOC 311 General Manufacturing Technology	<ul style="list-style-type: none"> • Students can make seam lines such as pleats, frills etc.
		<ul style="list-style-type: none"> • Students can understand techniques of correction of flaws like darts, pleats and frills etc.
	VOC 312 Taking Body Measurements	<ul style="list-style-type: none"> • Students can take body measurement for women wear and kids wear.
		<ul style="list-style-type: none"> • Students can draft and develop different Indian Wear such as skirts, salwar kameez.
		<ul style="list-style-type: none"> • Students can draft & stitch Indo western pattern.
	VOC 313 Practical Course –V	<ul style="list-style-type: none"> • Students will be able to make seam lines such as pleats, frills. Etc.
		<ul style="list-style-type: none"> • Students can draw out flaws such as flaws, darts.
	VOC 314 Practical Course –VI	<ul style="list-style-type: none"> • Students will be able to take body measurements of women and kids wera.
	VOC 315 Internship/Field Work/ Project	<ul style="list-style-type: none"> • Students will able to learn professional terminology and respectful communication when interacting with professionals and clients in the practice setting.
		<ul style="list-style-type: none"> • Assess interests and abilities in their field of study.
	VOC 401 Industrial Ethics and Safety Management / Ethical, Legal and Regulatory Aspects	<ul style="list-style-type: none"> • Students become acquainted with ethics that should be followed at the workplace
		<ul style="list-style-type: none"> • Students will be able to manage industrial safety and also able to manage control measures for industrial hazards
	VOC 402 Business Software Tools-II	<ul style="list-style-type: none"> • Students will able to use softwares such as CSS, photoshop, dreamware, flash; as per their application(s)
	VOC 403 Fundamentals of Business and Accounting	<ul style="list-style-type: none"> • Students will get knowledge of fundamentals of business, basic accounting terms, financial accounting etc. This will help them if they start their business in any field
	VOC 411 Clothing Construction	<ul style="list-style-type: none"> • Students will be able to find out faults & Rectifications.
		<ul style="list-style-type: none"> • Students will learn different types of stitching of garments such as designer frock, skirts and tops.
		<ul style="list-style-type: none"> • Students will understand different types of fabric painting and color combination on bed sheets, pillow cover.

	VOC 412 Fundamentals of sketching	<ul style="list-style-type: none"> • Students will understand different concept of details of sketching figures.
		<ul style="list-style-type: none"> • Students will draw proportionate figure of male, female, children and their leg and hand movement.
		<ul style="list-style-type: none"> • Students will learn different pencil shading techniques, weight distribution.
	VOC 413 Practical Course –VII	<ul style="list-style-type: none"> • Students will be able to draw out faults and rectification.
		<ul style="list-style-type: none"> • Students will able to demonstrate practical of different garments such as designer frocks, skirts, and tops.
		<ul style="list-style-type: none"> • Students can demonstrate practical based on color combination of bed sheets, pillow cover..
	VOC 414 Practical Course –VIII	<ul style="list-style-type: none"> • Students will be able to draw different sketching figures.
	VOC 415 Internship/Field Work/ Project	<ul style="list-style-type: none"> • Students will able to learn professional terminology and respectful communication when interacting with professionals and clients in the practice setting.
		<ul style="list-style-type: none"> • Assess interests and abilities in their field of study.
TYB.VOC	VOC 501 Personality Development and Stress Management	<ul style="list-style-type: none"> • Students will be able to groom themselves to a good personality by owns SWAT analysis.
		<ul style="list-style-type: none"> • Students will be able to handle stress developed by dint of day to day activities
	VOC 502 Labor Laws and Taxation	<ul style="list-style-type: none"> • Students will be able to understand the term ‘labour’ and handle related problems, disputes.
		<ul style="list-style-type: none"> • Students will be able to handle and understand tax related issues while working in industry
	VOC 503 Business Communication	<ul style="list-style-type: none"> • Student will acquire effective skills for advance level business practices.
	VOC 504 Product Costing	<ul style="list-style-type: none"> • Students will be able to draft efficient planning towards market research and accordingly effect designing and product costing.
	VOC 511 Textile designing	<ul style="list-style-type: none"> • Students can create different printing techniques such as block, stencil and warli printing.
		<ul style="list-style-type: none"> • Students will understand different painting techniques of textile such as dye & Tie , batic and spray painting.
	VOC 512 Jewellery and Accessories Designing	<ul style="list-style-type: none"> • Students will understand different basic jewellery and accessories designing.
		<ul style="list-style-type: none"> • It enables students to learn different types of work – jardosi, motiwork, embroidery.
	VOC 513 Practical Course –IX	<ul style="list-style-type: none"> • Students will demonstrate different painting technique such as dye and tie, batic and spray painting.

		<ul style="list-style-type: none"> • Students can demonstrate practical of different printing blocks and stencil printing.
	VOC 514 Practical Course – X	<ul style="list-style-type: none"> • Students will be able to make different accessories related to designer cloths
		<ul style="list-style-type: none"> • Students will demonstrate different types of jardosi and motiwork.
	VOC 515 Major Project (Phase – I) with field work	<ul style="list-style-type: none"> • It helps the students to apply the students to apply the theory & practical demonstration actual practice.
		<ul style="list-style-type: none"> • The students acquire significant substance substitute knowledge in the specified field of practice.
	VOC 601 Human Resource Management	<ul style="list-style-type: none"> • Students will familiarize with basic concepts of Human Resource Management.
		<ul style="list-style-type: none"> • Students will study various dimensions of Human Resource Management.
	VOC 602 Entrepreneurship Development	<ul style="list-style-type: none"> • Students communication skills are improved.
		<ul style="list-style-type: none"> • Students will be able to getting to parameters of responsibility, positivity.
	VOC 603 Workshop Management / Outdoor Management	<ul style="list-style-type: none"> • Students will equip with the necessary soft skills to enhance their competitive edge in the job market.
		<ul style="list-style-type: none"> • Students imbibe with positive attitude towards life and work.
	VOC 611 Market survey	<ul style="list-style-type: none"> • Students will visit different marketing areas.
		<ul style="list-style-type: none"> • Students will study and collect information of different types of fabric.
	VOC 612 Product Presentation	<ul style="list-style-type: none"> • Students will learn and enhance their strategies for successful publicity.
		<ul style="list-style-type: none"> • This helps students to provide platform to showcase their creativity.
		<ul style="list-style-type: none"> • Students ca set-up their own boutique.
	VOC 613 Practical Course –XII	<ul style="list-style-type: none"> • Students are able to make study of different marketing areas to ascertain cost of raw material and end products
	VOC 614 Major Project (Phase – II)	<ul style="list-style-type: none"> • It helps the students to apply the students to apply the theory & practical demonstration into actual practice.
		<ul style="list-style-type: none"> • The students acquire significant substance substitute knowledge in the specified field of practice
	VOC 615 Fashion Show	<ul style="list-style-type: none"> • Students will be able to showcase their creativity.
		<ul style="list-style-type: none"> • Students will learn basic technique of event organization.

FY.B.VOC Electronic Media	VOC 101 Linguistic Proficiency-I (English& Marathi) with Language lab training	<ul style="list-style-type: none"> • Expression power, and communication skill of the students in English and Marathi will improve
		<ul style="list-style-type: none"> • Students will be able to identify the necessities of behavioral and expressive attitudes as per situations.
	VOC 102 Computer Fundamentals-I (Information Technology) : Theory	<ul style="list-style-type: none"> • Students will have command on basic IT skills
		<ul style="list-style-type: none"> • Students will be able to use computer and internet facilities for their academic and holistic development purpose
	VOC 103 Computer Fundamentals-I (Information Technology): Laboratory Coursework	<ul style="list-style-type: none"> • Students will demonstrate different basic IT operations.
		<ul style="list-style-type: none"> • Students will be able to use computer and internet facilities for their academic and holistic development purpose.
	VOC 104 Public Relations	<ul style="list-style-type: none"> • Students will become aware of professional ethics and fundamentals of management practice
		<ul style="list-style-type: none"> • Students will acquire understanding of responsibilities of corporate sector towards the society
		<ul style="list-style-type: none"> • This course will improve the leadership quality in the students
	VOC 131 Introduction to Electronic Media	<ul style="list-style-type: none"> • Students Will know the basic techniques of Electronic Media, Commercial Media .
		<ul style="list-style-type: none"> • Students will understand the terms related to electronic Media
	VOC 132 News Gathering & Skill Writing	<ul style="list-style-type: none"> • Students will understand techniques of different Gathering of News.
		<ul style="list-style-type: none"> • Students will be able to learn the skill in news writing
	VOC 133 Introduction to Videography	<ul style="list-style-type: none"> • Student will understand and have knowledge of Videography
		<ul style="list-style-type: none"> • Students will identify and handle the video instruments.
	VOC 134 Basic Video Editing	<ul style="list-style-type: none"> • Students will have knowledge of basic Video Editing
		<ul style="list-style-type: none"> • Students will learn different techniques of Video editing.
	VOC 135 Practical in Introduction to Electronic Media	<ul style="list-style-type: none"> • Students Will demonstrate on the basic techniques of Electronic Media, Commercial Media .
		<ul style="list-style-type: none"> • Students will understand the terms related to electronic Media

	VOC 126 Practical in News Gathering and Skill Writing	<ul style="list-style-type: none"> • Students will demonstrate techniques of different Gathering of News.
		<ul style="list-style-type: none"> • Students will be able to learn the skill in news writing.
	VOC 127 Practical in Introduction to Videography	<ul style="list-style-type: none"> • Students can demonstrate the different Videography techniques.
		<ul style="list-style-type: none"> • Student will able to learn the Videography using the equipments.
	VOC 128 Practical in Basic Video Editing	<ul style="list-style-type: none"> • Students will be able to learn different techniques of basic video editing techniques.
	VOC 129 In House Training	<ul style="list-style-type: none"> • Students can analyze different media techniques.
		<ul style="list-style-type: none"> • Students will be able to write different news and learn the techniques related to media.
	VOC 201 Linguistic Proficiency-II(English & Hindi) with Lang. lab training	<ul style="list-style-type: none"> • Students will be able to write formal letters
		<ul style="list-style-type: none"> • Presentations skill of students will improve
		<ul style="list-style-type: none"> • Students will be able to face interviews
		<ul style="list-style-type: none"> • Students can solve general hardware related issues
	VOC 202 Computer Fundamentals-II (Basic Computer Hardware System) : Theory	<ul style="list-style-type: none"> • They can install various devices as well as operating system in the computer
		<ul style="list-style-type: none"> • Students can build their own computer system.
	VOC 203 Computer Fundamentals-II (Basic Computer Hardware System) : Lab- Course	<ul style="list-style-type: none"> • Students can solve general hardware related issues.
		<ul style="list-style-type: none"> • They can install various devices as well as operating system in the computer.
		<ul style="list-style-type: none"> • Students can build their own computer system.
	VOC 204 Environment Management	<ul style="list-style-type: none"> • Students will think on ecosystem and environment problems.
		<ul style="list-style-type: none"> • They can make other people aware about environment problems
		<ul style="list-style-type: none"> • They will be introduced to environmental policies a regulations
	VOC 231 TV Journalism	<ul style="list-style-type: none"> • Students will gain knowledge of different types of TV Journalism.
		<ul style="list-style-type: none"> • It enables students to use different TV Journalism Techniques.

	VOC 232 Radio Journalism	<ul style="list-style-type: none"> • Students will learn different voice techniques require for the radio journalism
		<ul style="list-style-type: none"> • Students will understand and have knowledge of different techniques of Radio Journalism.
	VOC 233 Digital Capture Videography	<ul style="list-style-type: none"> • Students will have knowledge of Digital Capture Videography techniques.
		<ul style="list-style-type: none"> • Students will learn different capturing techniques like exposure, camera shots.
	VOC 224 Advance Video Editing	<ul style="list-style-type: none"> • Students will have knowledge of video editing,
	VOC 235 Practical in TV Journalism	<ul style="list-style-type: none"> • Students will able to demonstrate different types of TV Journalism.
		<ul style="list-style-type: none"> • It enables students to use different TV Journalism Techniques.
	VOC 236 Practical in Radio Journalism	<ul style="list-style-type: none"> • Students will demonstrate different voice techniques require for the radio journalism
		<ul style="list-style-type: none"> • Students will demonstrate and have knowledge of different techniques of Radio Journalism.
	VOC237Practical in Digital Capture Videography	<ul style="list-style-type: none"> • Students will demonstrate Digital Capture Videography techniques.
		<ul style="list-style-type: none"> • Students will learn different capturing techniques like exposure, camera shots.
	VOC 238 Practical in Advance Video Editing	<ul style="list-style-type: none"> • Students will demonstrate video editing,
	VOC 239 In House Training	<ul style="list-style-type: none"> • Students will be able to demonstrate different types of TV Journalism.
		<ul style="list-style-type: none"> • It enables students to use different TV Journalism Techniques.
FY.B.VOC (<u>Financial Management</u>)	VOC 101 Linguistic Proficiency-I (English& Marathi) with Language lab training	<ul style="list-style-type: none"> • Expression power, and communication skill of the students in English and Marathi will improve
		<ul style="list-style-type: none"> • Students will be able to identify the necessities of behavioral and expressive attitudes as per situations.
	VOC 102 Computer Fundamentals-I (Information Technology) : Theory	<ul style="list-style-type: none"> • Students will have command on basic IT skills
		<ul style="list-style-type: none"> • Students will be able to use computer and internet facilities for their academic and holistic development purpose
	VOC 103 Computer Fundamentals-I (Information Technology): Laboratory Coursework	<ul style="list-style-type: none"> • Students will demonstrate different basic IT operations.

		<ul style="list-style-type: none"> • Students will be able to use computer and internet facilities for their academic and holistic development purpose.
	VOC 104 Public Relations	<ul style="list-style-type: none"> • Students will become aware of professional ethics and fundamentals of management practice
		<ul style="list-style-type: none"> • Students will acquire understanding of responsibilities of corporate sector towards the society
		<ul style="list-style-type: none"> • This course will improve the leadership quality in the students
	VOC 151 Indian Finance System	<ul style="list-style-type: none"> • Students Will learn system of Indian Fianance, saving and financial intermediation .
	VOC 152 Basics of Investments	<ul style="list-style-type: none"> • Students will understand investment environment, Fixed income securities.
		<ul style="list-style-type: none"> • Students will be able to learn financial derivatives.
	VOC 153 Principles of Economics	<ul style="list-style-type: none"> • Student will understand principle economics, demand and supply analysis.
	VOC 154 Financial Management	<ul style="list-style-type: none"> • Students will have knowledge of Financial statement and financial analysis.
		<ul style="list-style-type: none"> • Students will learn different techniques of cash flow and fund flow.
	VOC 155 Practical in Indian Financial Systems	<ul style="list-style-type: none"> • Students will be able to draft the financial services and application form for opening of account.
	VOC 156 Practical on Basics of Investment	<ul style="list-style-type: none"> • Students can valuate stock and bonds.
	VOC 157 Practical on Principles of Economics	<ul style="list-style-type: none"> • Students can demonstrate the curves of demand and supply analysis.
		<ul style="list-style-type: none"> • Student will able to calculate interest rate and GDP.
	VOC 158 Practical on Financial Management	<ul style="list-style-type: none"> • Students will be able to draw financial chart, capital structure analysis of companies.
	VOC 159 In House Training	<ul style="list-style-type: none"> • Students can analyze different Financial Management techniques.
	VOC 201 Linguistic Proficiency-II(English & Hindi) with Lang. lab training	<ul style="list-style-type: none"> • Students will be able to write formal letters
		<ul style="list-style-type: none"> • Presentations skill of students will improve
		<ul style="list-style-type: none"> • Students will be able to face interviews
	VOC 202 Computer Fundamentals-II (Basic Computer Hardware System) : Theory	<ul style="list-style-type: none"> • Students can solve general hardware related issues

		<ul style="list-style-type: none"> • They can install various devices as well as operating system in the computer
		<ul style="list-style-type: none"> • Students can build their own computer system.
	VOC 203 Computer Fundamentals-II (Basic Computer Hardware System) : Lab- Course	<ul style="list-style-type: none"> • Students can solve general hardware related issues.
		<ul style="list-style-type: none"> • They can install various devices as well as operating system in the computer.
		<ul style="list-style-type: none"> • Students can build their own computer system.
	VOC 204 Environment Management	<ul style="list-style-type: none"> • Students will think on ecosystem and environment problems.
		<ul style="list-style-type: none"> • They can make other people aware about environment problems
		<ul style="list-style-type: none"> • They will be introduced to environmental policies a regulations
	VOC 251 Indian Finance System-II	<ul style="list-style-type: none"> • Students will gain knowledge Indian Finance System.
		<ul style="list-style-type: none"> • It enables students to learn techniques of money market, capital market.
	VOC 252 Stock Market- Overview	<ul style="list-style-type: none"> • Students will learn basics of Stock Market, trending mechanics in stock market.
		<ul style="list-style-type: none"> • Students will understand terms related to stock market.
	VOC 253 Banking Finance System	<ul style="list-style-type: none"> • Students will have knowledge of function of banks..
		<ul style="list-style-type: none"> • Students will learn procedure for opening and operating of deposit account.
	VOC 254 Tally ERP-9 with GST	<ul style="list-style-type: none"> • Students will have knowledge of Basic Accounting , Company creation, deletion.
	VOC 255 Practical on Indian Financial System-II	<ul style="list-style-type: none"> • Students can draft the financial services.
		<ul style="list-style-type: none"> • Roles of RBI in security exchange market.
	VOC 256 Practical on Stock Market- Overview	<ul style="list-style-type: none"> • Students will be able to process the chart of stock market.
	VOC 257 Practical on Banking Finance System	<ul style="list-style-type: none"> • Students will be able to fill bank application, NPA in banking.
		<ul style="list-style-type: none"> • Students will learn different capturing techniques like exposure, camera shots.

	VOC 258 Practical on Tally ERP 9	<ul style="list-style-type: none">• Students will demonstrate Company creation, alteration, deletion.
	VOC 259 In House Training-II	<ul style="list-style-type: none">• Students will be able to demonstrate different techniques of Financial Management