GOVERNMENT DEGREE COLLEGE-MANUGURU

PROGRAMME OUT COMES

S L NO	PROGRAMEE NAME	PROGRAMME OUT COME
1	B.Sc (MPC& MPCS)	Student Possess a sound understanding of the theoretical foundation of various core subjects. Acquires analytical and logical thinking skill necessary to pursue higher education develops proficiency in high level mathematical methods.
2	B.Sc (BZC EM & TM)	Provide the students with opportunities to go for Higher Education and also employment opportunities in Pharmacy industries quality control & Labs and teaching professional and research. Promotes an in-depth exploration in specific fields, new discoveries methodologies in the areas of biological research and health.
3	B.Com (Gen) & B.Com Computer Application	Possesses the knowledge of banking, insurance, advertisement, e- commerce and cost accounting,. Attains global exposure to complex commerce problems and can find their solutions. Possesses self employment skills, knowledge in professional course like C.A; I.C.W.A; A.C.S to meet the economy requirements and market demands.
4	B.A (History, Economics, Political Science)	Equips the students with the basic knowledge on majors and with the understand ability on the social economical, historical and political aspects of the past, present and future. Provides in depth knowledge on the doctrines developed in the fields of majors, Mass communication, Journalism & Archaeology museums are some of the potential areas of employability.
5	B.A (History, Economics & Public Administrations)	it gives good employment opportunities to go for higher education and groups, civil services and other government employment sources are flinty.

PRINCIPAL
Govt. Degree College, Manuguru

DEPARTMENT OF TELUGU- 1 YEAR COURSE OUT COMES

S NO	Paper Title & Code	Co - Number	Course Out Comes
01	**Semester –I** **యూనిట్ 1** శకుంతలోపాఖ్యానం గొడగూచి త్యాగనిరతి గజేంద్రమోక్షం **యూనిట్ 2** ఆధునిక కవిత్వం కాసులు రాజు కవి గంగిరెద్దు జయభేరి **యూనిట్ 3** వచన విభాగం యుగాంతం కథానిక వెంకన్న కథానిక **యూనిట్ 4** భాషా విభాగం సంధులు సమాసాలు	Co-1	➢ విద్యార్థులు ప్రాచీన కవిత్వం ద్వారా ఆనాటి సాహిత్యం మరియు ఆదార వ్యవహారాలు సంప్రదాయాలు ఏ విధంగా ఉన్నావు గ్రహించారు. ➢ విద్యార్థులు ఆదికవి నన్నయ కవితా లక్షణాలు కవితా లక్షణాలు త్యాగం భక్తి తత్వం గూర్చి తెలుసుకున్నారు. ➢ ఆనాటి కాలంలో వాడిన భాష విభాగాలు తెలుసుకున్నారు. ➢ విద్యార్థులు ప్రాచీన కాలంలో ఉన్న వివిధ సాహిత్యం పద్యం గద్యం విభాగాల్లో ఉన్న మెలకువలను గ్రహించారు.
		Co-2	➢ విద్యార్థులు ఆధునిక సాహిత్య విశేషాలు గ్రహించారు మారుతున్న సమాజంలో నేటి సామాజిక పరిస్థితులు విద్యార్థులు గ్రహించడమే అభ్యుదయ భావాల వైపు వెళ్ళుటకు మార్గం ఏర్పడింది. ➢ అభ్యుదయభావాలు ప్రగతి వైపు చైతన్యం వైపు వెళ్ళుటకు ఈ ఆధునిక సాహిత్యం ఎంతో ఉపయోగపడింది. ➢ తెలంగాణ సంస్కృతి గ్రహించారు.
		Co-3	➢ విద్యార్థులు ఆధునిక సాహిత్యం వల్ల ప్రాచీన మరియు ఆధునిక భావాలు సాహిత్యంలో జీవిత సత్యాలను గ్రహించారు విద్యార్థులు ఎలా అలవర్చుకోవాలి అని తెలుసుకున్నారు ➢ విద్యార్థులు పల్లె ప్రజల యొక్క మనోభావాలు ఆచార వ్యవహారాలు గ్రహించారు వాతావరణంలో తెలుసుకున్నారు ➢ జీవితానికి ఆ ఆరోగ్యకరమైన వాతావరణం ఎంత ఉపయోగపడుతుందో తెలుసుకున్నారు విద్యార్థులు పల్లె ప్రాంతాల్లో ఉన్న పశుసంపదను గూర్చి తెలుసుకున్నారు ➢ జంతువులు జంతువుల పట్ల పల్లె ప్రజలకు ఎంత ప్రేమ ఆప్యాయత ఉంటుందో తెలుసుకున్నారు మన చుట్టూ ఉన్న మన చుట్టూ ఉన్న పశుపక్ష్యాదులను రక్షిస్తూ ప్రేమిస్తూ ఉండాలని తెలుసుకున్నారు విద్యార్థులు తెలంగాణ సాంప్రదాయాలు ఆచార వ్యవహారాలను తెలుసుకున్నారు
		Co-4	➢ విద్యార్థులు సంధులు వాటి యొక్క ప్రత్యేకతలు తెలుసుకున్నారు గ్రహించారు. ➢ విద్యార్థులు సమాసాల యొక్క ఉపయోగాలు తెలుసుకున్నారు వివిధ సందర్భాలలో ఎలా ఉపయోగించాలో గ్రహించారు.

Govt. Degree College

PRINCIPAL
Govt. Degree College, Manugur

DEPARTMENT OF TELUGU- I YEAR COURSE OUT COMES

S NO	Paper Title & Code	Co - Number	Course Out Comes
01	**Semester –II** **యూనిట్ 1** ప్రాచీన కవిత్వం సంవరణుడు తపస్సు శ్రీరంగ క్షేత్రం మహిమ హనుమత్ సందేశం సుభాషితాలు **యూనిట్ 2** ఆధునిక కవిత్వం వన్ అంతర్ నాదం ప్రపంచ పదులు అల్విదా రోడ్డు రోలర్ **యూనిట్ 3** మామిడి పండు మా ఊరు పోయింది ఇది ఒక కల పేర్లు ఊరు దారులు గుర్తుంచుకోవడం **యూనిట్ 4** ఉపమా వాచకం రాణి రుద్రమదేవి	Co-1	➢ విద్యార్థులు ప్రాచీనకాలం నాటి గూర్చి తెలుసుకున్నారు విద్యార్థులు అపసవ్య యొక్క ప్రత్యేకతలను ➢ తెలుసుకున్నారు విద్యార్థులు వివిధ పుణ్యక్షేత్రాల గురించి తెలుసుకున్నారు విద్యార్థులు భక్తి క్రమశిక్షణ గూర్చి తెలుసుకున్నారు ➢ సామాజిక నేపథ్యం లో విద్యార్థులు నీతి వాక్యాలు జీవిత సత్యాలను ధర్మాలను తెలుసుకున్నారు
		Co-2	➢ విద్యార్థులు తెలంగాణ సాయుధ పోరాట యోధులు గురించి తెలుసుకున్నారు దాశరధి డాక్టర్ సి నారాయణ రెడ్డి సి 1 ఆధునిక భావాలు కలిగిన అభ్యుదయ కవుల గురించి తెలుసుకున్నారు ➢ విద్యార్థులు అభ్యుదయ భావాలు ఉపయోగాలు గ్రహించారు విద్యార్థులు అలవర్చుకున్నారు ➢ విద్యార్థులు జీవిత విలువలను గ్రహించారు ఆధునిక సమాజంలో విద్యార్థులు ఏ విధంగా జీవించాలో తెలుసుకున్నారు
		Co-3	➢ విద్యార్థులు తెలంగాణ ప్రసిద్ధిగాంచిన కవుల జీవిత తెలుసుకున్నారు విద్యార్థులు మామిడి పండ్ల యొక్క విలువను గ్రహించారు ➢ విద్యార్థులు భావ కవుల అభ్యుదయ కవుల గురించి తెలుసుకున్నాడు విద్యార్థులు పల్లెకు పట్టణానికి వ్యత్యాసాలను గ్రహించారు నేటి సమాజంలో పట్టణానికి పల్లెకు ఉన్న వ్యత్యాసం గ్రహించారు పల్లె ప్రాంతం అంటే గ్రామీణ ప్రాంతం ఎంత విలువైనదో గ్రహించారు ➢ విద్యార్థులు యొక్క స్వరూప గ్రహించారు విద్యార్థులు కలల పేర్లు ఊర్లు దారులు యొక్క విశేషాలు గ్రహించారు విద్యార్థులు ప్రత్యేకతలు తెలుసుకున్నారు
		Co-4	➢ విద్యార్థులు కాకతీయుల గురించి వివరంగా తెలుసుకున్నారు రాణి రుద్రమదేవి ధైర్య సహస్ర గ్రహించారు విద్యార్థులు కాకతీయుల సామాజిక ఆర్థిక విశేషాలను తెలుసుకున్నారు

Govt. Degree College Manuguru

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Telangana State

DEPARTMENT OF TELUGU- II YEAR COURSE OUT COMES

02	**Semester –III** **యూనిట్ 1** ప్రాచీన కవిత్వం ధర్మజుని వాక్చాతుర్యం విభీషణ శరణాగతి గుణనిధి **యూనిట్ 2** ఆధునిక కవిత్వం రైతు ప్రశస్తి గుడిసెలు కాలిపోతున్నాయి గీతం **యూనిట్ 3** వచన విభాగం అర్ధరాత్రి అరుణోదయం సి పి బ్రౌన్ సాహిత్య సేవ కొండమల్లెలు **యూనిట్ 4** చలిచీమలు సామాజిక నాటకం	**Co-1**	➢ విద్యార్థులు సంస్కృత భారతం మరియు ఆంధ్రభారతం గురించి తెలుసుకున్నారు విద్యార్థులు నన్నయ్య ఎర్రన్న తిక్కన్న లాంటి కవుల గురించి తెలుసుకున్నారు ఆంధ్ర మహాభారతం లోని విశేషాలు తెలుసుకున్నారు ➢ విద్యార్థులు సంపూర్ణ రామాయణం మరియు రంగనాథ రామాయణం లోని లోని విశేషాలు గ్రహించారు విద్యార్థులు 14 15 వ శతాబ్దపు సాహిత్యపు విలువలను గ్రహించారు ➢ విద్యార్థులు గుణం విలువ మానవతా విలువలు తెలుసుకున్నారు
		Co-2	➢ విద్యార్థులు రామాయణం గురించి తెలుసుకున్నారు రైతు యొక్క స్థితి యొక్క స్థితిగతులను తెలుసుకున్నారు విద్యార్థులు రైతులు పండించే వివిధ పంటల గురించి గ్రహించారు ➢ విద్యార్థులు బోయి భీమన్న గూర్చి తెలుసుకున్నారు విద్యార్థులు ఆధునిక భావజాలాలు వాసవి కథలు తెలుసుకున్నారు ఆనాటి మేటి రాజకీయాల గురించి తెలుసుకున్నారు ➢ తిలక్ రచనల ద్వారా వ్యక్తుల మధ్య వ్యత్యాసాలు గ్రహించారు సమాజం యొక్క బాధ్యత ఏంటో తెలుసుకున్నారు
		Co-3	➢ విద్యార్థులు సమాజంలో ఎలా జీవనయానం చేయాలో తెలుసుకున్నారు విద్యార్థులు ➢ సామాజిక జీవనంలో మార్పులను ఎలా తీసుకురావాలో గ్రహించారు సంఘటిత పోరాటం గ్రహించారు ➢ విద్యార్థులు తెలుగు ఇంగ్లీషు గూర్చి తెలుసుకున్నారు సి.పి.బ్రౌన్ సాహిత్యం గురించి గ్రహించారు ➢ విద్యార్థులు కథలు కథానికలు వాటి ప్రాముఖ్యతను గ్రహించారు నేటి సమాజంలో కథల విలువ ఏ విధంగా ఉందో తెలుసుకున్నారు కథల ద్వారా సామాజిక నేపథ్యం గ్రహించారు
		Co-4	➢ విద్యార్థులు నాటకం నాటిక నాట్యశాస్త్ర లపై అవగాహనను పెంచుకున్నారు నాటకం ప్రాముఖ్యతను గ్రహించారు బడుగు బలహీన మనోభావాలను మరియు మనోధైర్యం గూర్చి తెలుసుకున్నారు పట్టుదల కృషి శ్రమ విలువ విద్యార్థులు గ్రహించారు ➢

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Bhadradri Kothagudem Dist
Telangana State

DEPARTMENT OF TELUGU- II YEAR COURSE OUT COMES

S NO	Paper Title & Code	Co - Number	Course Out Comes
01	**Semester –IV** **యూనిట్ 1** నారద గానమాత్సర్యం వాగ్దాన భంగం నరసింహ శతకం **యూనిట్ 2** ఆధునిక కవిత్వం గురుదక్షిణ నరుడా నేను నరుడా దేవరకొండ దుర్గం **యూనిట్ 3** నివురు తొలగిన నిప్పు కథ మన గ్రామ నామాలు **యూనిట్ 4** వ్యాకరణం అలంకారాలు ఛందస్సు	Co-1	➢ విద్యార్థులు గానమాత్సర్యం ద్వారా ఇద్దరి మధ్య పోటీ తత్వం తెలుసుకున్నారు ఇచ్చిన మాట తప్పకూడదు అని గ్రహించారు శతక పద్యాల యొక్క ప్రావీణ్యం గూర్చి గ్రహించారు ఏ సమస్య వచ్చినా సామరస్యంగా పరిష్కరించుకోవాలని తెలుసుకున్నారు ➢ ఆనాటి సంగీతానికి ఈనాటి సంగీతానికి వ్యత్యాసం గ్రహించారు విద్యార్థులు ప్రాచీన కాలపు సంగీతం గురించి తెలుసుకున్నారు ఆనాటి గురుశిష్యుల మధ్య ఏ రకమైన సంబంధాలు ఉన్నాయో తెలుసుకున్నారు ➢ గురు విలువను తెలుసుకొని ప్రవర్తించాలని గ్రహించారు నేటి సమాజంలో మంచి విజయాలు సాధించి ఇవ్వడమే గురుదక్షిణగా భావించారు కాళోజీ నారాయణరావు గారు సమాజంలో పేద దళితుల మధ్య మరియు యు.కె ద ధనికుల మధ్య వ్యత్యాసం ఎందుకు అని ప్రశ్నించారు
		Co-2	➢ విద్యార్థుల మధ్య సమానత్వం ఉండాలని తెలుసుకున్నారు తెలంగాణ ప్రాంతపు దుర్గమ్మ గూర్చి మరియు దుర్గమ్మ గురించి అవగాహన తెలుసుకున్నారు ➢ విద్యార్థులు తెలంగాణలోని దేవాలయాల ప్రత్యేకతలను గ్రహించారు విద్యార్థులు నేటి సమాజంలో కష్టాలు కన్నీళ్లు మధ్య సమస్యను ఏవిధంగా జయించాలో విజయం ఎలా సాధించాలి తెలుసుకున్నారు ➢ సాధించాలనే తపన ఉండాలని అనిగిమనిగి ఉండాలని గ్రహించారు ఎన్ని ఆటుపోట్లు వచ్చినా చదువు విద్యార్థులు గ్రహించారు
		Co-3	➢ ఆదినుండి గ్రామ నామాలు గుంపు గూడెం మరియు పల్లె మరియు పేట లోయ మొదలగు రకాలుగా పూర్వికులు వారి నివాస యోగ్యంగా ఉండేవిధంగా గ్రామ నామాలు పెట్టారు అని విద్యార్థులు గ్రహించారు ➢ విద్యార్థులు భారతీయ అలంకార శాస్త్రాలు యొక్క మేలు తెలుసుకొని అలంకారాల ముఖ్య ఉపయోగం తెలుసుకున్నారు ➢ విద్యార్థులు యతి ప్రాసలు గణ విభజన లక్ష్యాలు ఏ విధంగా పద్యాలలో గ్రహించాలి గుర్తించాలి తెలుసుకున్నారు
		Co-4	➢ విద్యార్థులు నాటకం నాటిక నాట్యశాస్త్ర లపై అవగాహనను పెంచుకున్నారు నాటకం ప్రాముఖ్యతను గ్రహించారు ➢ బడుగు బలహీన మనోభావాలను మరియు మనోధైర్యం గూర్చి తెలుసుకున్నారు పట్టుదల కృషి శ్రమ విలువ విద్యార్థులు గ్రహించారు.

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COURSE OUT-COMES

DEPARTMENT OF COMMERCE

S.No.	Paper Title & Paper Code	CO	Course Outcomes
1	**FINANCIAL ACCOUNTING – I DSC101**	CO1	The student gains the knowledge about principles of accounting, accounting standards, and basic knowledge on journal, ledger and trial balance.
		CO2	Student acquires knowledge on types of cash book and subsidiary books.
		CO3	Student will be able to know the reasons for differences between cash book and pass book.
		C04	Students learn how to rectify the errors and types of depreciation.
		C05	Student gains the knowledge in preparing the final accounts of a sole trader.
2	**BUSINESS ORGANIZATION AND MANAGEMENT DSC102**	CO1	Acquires basic knowledge on business and forms of business.
		CO2	Student gains the knowledge on preparation of important documents of joint stock company.
		CO3	Student learns about functions and principles of management.
		CO4	Learns about planning and organizing.
		CO5	Knows the meaning of authority and responsibility, techniques of effective coordination.
3	**FINANCIAL ACCOUNTING-II DSC201**	CO1	Student gains the knowledge on negotiable instruments.
		CO2	Learns the accounting treatment of consignment.
		CO3	Gains knowledge on methods of keeping records for joint venture accounts.
		C04	Determines the ascertainment of profit in Single entry system.
		C05	Learns the accounting treatment of non-profit organizations.
			Understands the basic contract act, essentials

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4	**BUSINESS LAWS** **DSC202**	CO1	of a valid contract, types of contract.
		CO2	Gains knowledge on consumer protection act and sale of goods act.
		CO3	Learns about the types of intellectual property rights.
		CO4	Gains knowledge on duties and responsibilities of company director, meetings, minutes etc.
		C05	Learns about the modes of winding up of a company.
5	**ADVANCED ACCOUNTING** **BC304**	CO1	Learns the accounting treatment of partnership.
		CO2	Student gains knowledge on dissolution and insolvency of a partner.
		CO3	Student knows about the types of shares , issue of share capital etc.
		CO4	Student learns about the different types of companies acts.
		CO5	Student acquires knowledge about goodwill and valuation of goodwill.
6	**BUSINESS STATISTICS-I** **BC305**	CO1	Acquires knowledge about origin and development of statistics, statistical investigation, primary and secondary data, tabulation of data.
		CO2	Students will be able to do diagrammatic and graphical presentations of frequency distributions.
		CO3	Gains knowledge to solve 5 types of averages.
		CO4	Acquires knowledge on dispersion and skewness.
		CO5	Gains knowledge on karl pearson's correlation and rank correlation.
7	**INCOME TAX-I** **BC306**	CO1	Gains knowledge on cannons of taxation, basic concepts of income tax.
		CO2	Will be able to compute agricultural and non-agricultural income.
		CO3	Gains knowledge on computation of income from salary.
		CO4	Gains knowledge on computation of income from house property, deductions under section 24.
		CO5	Will be able to compute the income from business and profession.

8	**ENTREPRENEURIAL DEVELOPMENT & BUSINESS ETHICS BC307**	CO1	Learns about entrepreneur, women entrepreneur in India, challenges & opportunities of entrepreneurship.
		CO2	Learns the ways of entrepreneurial development, selection of right opportunity.
		CO3	Learns about budget and planning financial analysis, project financing and MSMEs.
		CO4	Learns about policies and programmes of entrepreneurial development.
		CO5	Learns about business ethics and moral values.
9	**CORPORATE ACCOUNTING BC404**	CO1	The student will be able to compute the liquidator's final statement of account.
		CO2	Gains basic knowledge and accounting treatment on amalgamation.
		CO3	Gains knowledge in preparation of final statement after reconstruction.
		CO4	Learns about the accounts of banking companies.
		CO5	Gains knowledge on accounts of insurance companies and insurance claims.
10	**BUSINESS STATISTICS-II BC405**	CO1	The student will be able to compute regression lines.
		CO2	Learns about different types of index numbers and tests of consistency.
		CO3	Learns about the components of time series, their uses and limitations.
		CO4	The students will be able to compute probability and theorems of probability.
		CO5	The students gains knowledge on theoretical distributions.
11	**INCOME TAX-II BC406**	CO1	Student gains knowledge in short term and long term capital gains
		CO2	The student knows about general incomes, specific incomes, casual income and deductions.
		CO3	Gains knowledge on carry forward of losses, computation of gross total income, deductions from GTI u/s 80C to 80U.
		CO4	The students will be able to compute tax liability of individuals.
		CO5	Gains knowledge on assessment procedure and filing of e-returns.

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12	**AUDITING** **BC407**	CO1	Will be able to understand Auditing as per AASB.
		CO2	Learns about Auditors qualifications, qualities, remuneration, rights and duties.
		CO3	Learn about internal control, internal check and internal audit.
		CO4	Will be able to do vouching of trading transactions and vouching of cash transactions.
		CO5	Learns about verification and valuation of assets.
13	**COST ACCOUNTING** **BC503**	CO1	Gains knowledge in cost concepts and cost classification.
		CO2	Acquires knowledge on inventory control techniques.
		CO3	The students will be able to compute wages payment methods, methods of allocation and apportionment of overheads.
		CO4	Will be able to compute tenders and estimated costs, job cost sheet.
		CO5	Will be able to solve contract and process accounts, compute normal and abnormal losses.
14	**BANKING THEORY AND PRACTICE** **BC505**	CO1	Acquires knowledge of working of Indian Banking system, origin and growth of banking, nationalization of commercial banks, emerging trends.
		CO2	Acquires knowledge on the role of RBI.
		CO3	Learns about the types of banks.
		CO4	Students acquire knowledge on KYC norms, opening of accounts, types of customers.
		CO5	Learns about duties and responsibilities of paying and collecting banker, precautions to be taken while advancing loans against securities.
15	**FINANCIAL MANAGEMENT** **BC507**	CO1	Student acquires knowledge on techniques of financial management, maximization of wealth management.
		CO2	Gains knowledge on financial planning.
		CO3	Understands the concepts of over capitalization and undercapitalization.
		CO4	The student will be able to analyze the differences in cost of capital, cost of debt, and cost of equity capital.

		CO5	Gains knowledge on net income approach, net operating income approach, traditional approach.
16	**PRINCIPLES OF MARKETING BC508**	CO1	The student acquires knowledge about marketing definition, scope, concept and online marketing opportunities and challenges.
		CO2	Learns about marketing environment, micro and macro environment.
		CO3	Learns about marketing segmentation.
		CO4	Acquires knowledge on consumer behavior, post purchase behavior, organizational buyer.
		CO5	Learns about market research process, ethics in marketing.
17	**MANAGERIAL ACCOUNTING BC603**	CO1	Learns about the techniques of managerial accounting.
		CO2	The students will be able to compute BEP and learn its assumptions, importance and limitations.
		CO3	Acquires the knowledge of marginal costing and decision making.
		CO4	Will be able to prepare the budgets.
		CO5	Will be able to prepare the estimations of working capital requirements.
18	**COMPANY LAW BC604**	CO1	Learns about company promotion, memorandum of association, articles of association, prospectus, commencement of business.
		CO2	Learns about company director duties, responsibilities, remuneration etc.
		CO3	Gains knowledge on company secretary appointment, duties, liabilities etc.
		CO4	Gains knowledge in types of company meetings.
		CO5	Learns about modes of winding up of a company.
19	**FINANCIAL INSTITUTIONS AND MARKETS BC605**	CO1	The student gets an overview of Indian Financial System.
		CO2	Gains the knowledge on role of financial institutions in economic development.
		CO3	Learns about state level development banks.
		CO4	Acquires knowledge on money market.
		CO5	Acquires knowledge on capital market.

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20	**HUMAN RESOURCE MANAGEMENT BC607**	CO1	Learns about introduction of human resource management, Elton mayo's human relations theory.
		CO2	Learns about human resource planning.
		CO3	Acquires knowledge on recruitment methods and selection process.
		CO4	Learns about human resource training and development.
		CO5	Learns about performance appraisal methods.
21	**TAX PLANNING AND MANAGEMENT BC608**	CO1	The student knows about tax planning, tax avoidance, tax evasion.
		CO2	Students gain knowledge on basic salary, DA, gratuity, medical allowances etc.
		CO3	Understands the concept of tac planning for profit and gain of business or profession and capital gain.
		CO4	Learns about short term loans, term loans, public deposits, bonus issues.
		CO5	Learns about various types of mergers and amalgamations.

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DEPARTMENT OF BOTANY

S.No.	Paper Title & Paper Code	CO	Course Outcomes
1	**FINANCIAL ACCOUNTING – I DSC101**	CO1	The student gains the knowledge about principles of accounting, accounting standards, and basic knowledge on journal, ledger and trial balance.
		CO2	Student acquires knowledge on types of cash book and subsidiary books.
		CO3	Student will be able to know the reasons for differences between cash book and pass book.
		C04	Students learn how to rectify the errors and types of depreciation.
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	DSC201	C04	Determines the ascertainment of profit in Single entry system.
		C05	Learns the accounting treatment of non-profit organizations.
4	**BUSINESS LAWS** **DSC202**	CO1	Understands the basic contract act, essentials of a valid contract, types of contract.
		CO2	Gains knowledge on consumer protection act and sale of goods act.
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		CO5	Gains knowledge on assessment procedure and filing of e-returns.
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		CO2	Acquires knowledge on the role of RBI.
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		CO4	The student will be able to analyze the differences in cost of capital, cost of debt, and cost of equity capital.
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DEPARTMENT OF BOTANY-COURSE OUTCOMES

S.NO	Paper Title &Code	CO NUMBER	Course Outcomes
1	**Microbial Diversity & Lower Plants PAPER-I**	CO-01	Student gains knowledge on basic structure, metabolic and reproductive methods of bacteria and Viruses. Special attention given for the plant diseases caused by the Bacteria and Viruses. The unique characteristics of Archaebacteria, Actinomycetes and Mycoplasma also covered in course.
		CO-02	Student's familirised with the concept of Biofertilizers and its producing organisms. They also know about the basic biology, life cycles and economic importance of Algae. Practical knowledge on identification of the algae and cultivation of Bio fertilizers.
		CO-03	Students acquire knowledge on General characters and economic importance of Fungi and Lichens. Dissection capabilities of the student to observe pathological stage of the pathogen in infected plant material.
		CO-04	Student's gains knowledge on evolutionary trends in Bryophytes and Pteridophytes by comparing the features of case study plants. The aspects of origin of stele and Heterospory are given special attention to taught since these events are important for understanding the Evolution process.
2	**Gymnosperms, Taxonomy of Angiosperms and Ecology PAPER-II**	CO-01	The student knows about origin of Gymnosperms and general characters with reference to the case study plants. The concept of Geological Time Scale introduced to the students and they are also familiarize with the formation of the fossils.
		CO-02	The student understands and applies the basic principles and rules of Botanical nomenclature for identification and naming the plant. A basic understanding of the classification systems, origin & history of ICBN and interpretation of phylogenetic trees for reconstructing the evolutionary relationships between the plants. Practical knowledge of identification of the plants and preserving the plant specimens using Herbarium techniques.
		CO-03	A basic understanding of systemic study of plant families (Dicotyledons and Monocotyledons) and description of the plants based on the classification learns by the students.
		CO-04	The learner understands the concept of Ecosystem (structural and functional aspects), ecological

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			adaptations of plants and concept of plant succession (Hydrosere, Xerosere).
3	**Taxonomy of Angiosperms & Medicinal Botany Paper-III**	CO-01	The student gains knowledge on plant systematics and comparative study of the different classification systems. Awareness of the recent trends in advanced taxonomy, herbarium techniques and salient features of Schenzen code.
		CO-02	A basic understanding of the systematic study of the plant characters (morphological & sexual) of families and technical description of the plants.
		CO-03	The student gains knowledge on introduction and scope of Ethnomedicine and outlines of traditional medicinal systems like Ayurveda, Unani, Sidda and Homeopathy. Students are advised to go through the Ministry of Health and AYUSH web sites to get aware of the importance of these traditional therapeutic systems. They also got exposed to common medicinal plants in primary health care (through field visits), evaluation of crude drugs and enlightened with the functional roles of agencies like NMPB, CIMAP and CDRI.
		CO-04	With the comparative study of the Traditional medicine and Modern medicine student understands the Traditional medicine as a resource for modern medicine by studying the active principles of medicinal plants. They also exposed to basic concepts of Pharmacognocy collection, processing and storage of the plant crude drugs.
4	**Plant Anatomy, Embryology and Palynology (Paper-IV)**	CO-01	The student gains detail knowledge on Meristematic tissues, Permanent tissues and Leaf Ontogeny. Practical knowledge on stomata types.
		CO-02	The secondary growth concept introduced to the students with comparative study of Anomalous secondary growth plants (Achyranthes, Bignonia, Boerhaaavia, Dracaena and Beetroot). Practical knowledge on Wood structure and its basic properties of the commercially important plants through field visits.
		CO-03	The student gains knowledge of introduction of Embryology and basics of Microsporogenesis and Megasporogenesis.
		CO-04	The student enlightened with chronological Pre-Fertilization and Post-Fertilization events of sexual life cycle of the plants. Introduction to NPC classification and its applications.

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5	**Cell Biology and Genetics (Paper-V)**	CO-01	The basic knowledge of structure and functions of Plant cell envelopes (Cell wall & Cell Membrane). The detail understanding of the ultra structure of the Nucleus, Nucleic acids (DNA &RNA), Chromosomes morphology and organization of DNA in a chromosome through animations.
		CO-02	The student gains knowledge on properties of Extra Nuclear Genomes and their inheritance pattern. They are also enlightened with Cell cycle and Mutations (Chromosomal Aberrations and Gene Mutations).
		CO-03	Students acquire knowledge on Mendelian laws of inheritance, concept of Linkage and Construction of Genetic maps.
		CO-04	Understand the concepts of Gene organization and Genetic code. Special focus on concepts of Central Dogma of Molecular Biology (CDMB). Regulation of Transcription (with reference to Lac & Trp Operons) and Translation. Practical knowledge on Cytochemical studies acquire by the students.
6	**Ecology & Biodiversity Paper-VI (Elective-A)**	CO-1	The student gains knowledge on Elements of Environment, structural and functional aspects of Ecosystem and Ecological adaptations of Plants.
		CO-02	Basic concepts of Population Ecology and Community Ecology learnt by the student. Have awareness on process of pedogenesis, soil erosion, conservation methods and analysis of Soil properties.
		CO-03	Explain the Community dynamics with reference to Hydrosere and Xerosere. Gains knowledge on concepts of Productivity and Biodiversity. Students are enlightened to Convention of Biodiversity through AV tools to know the value and significance of Biological resources.
		CO-04	Gains the knowledge on level of Biodiversity. Concept of Hotspots and Endemism. Detailed study of the opportunities and scope in the areas of Conservations methods of Biodiversity. Practical knowledge on studying the plant communities can be demonstrated by the learner.
7	**Horticulture Paper-VI (Elective-B)**	CO-01	The students aware on Scope and opportunities in Horticulture. Gains knowledge on types of Horticulture crops and manures.
		CO-02	Student can demonstrate Artificial propagation methods, transplanting, field preparation, use of herbicides, top dressing of fertilizers and use of

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			Growth regulators in Horticulture.
		CO-03	Applications of Green house technology, Landscaping and Plant Growth regulators in Horticulture.
		CO-04	The student's familarised with the concept of Organic farming and Bonsai techniques. Practical knowledge on garden implements and making of organic compost.
8	**Microbiology and Plant Pathology (Paper-VI) Elective-C**	CO-01	Student's gains knowledge on chronology of discovering Microorganisms, cellular properties of prokaryotic organisms and in-vitro growth methods of Microorganisms.
		CO-02	Explains the Genetic recombination methods in prokaryotes, Biological Nitrogen Fixation (BNF) and industrial applications of Microorganisms.
		CO-03	The students are acquainted with the historical developments in plant pathology, epidemiology and plant disease management
		CO-04	Gains knowledge on disease resistance genes and its application in Inducted resistance. Explain the basic concepts of Molecular Plant Pathology and application of Information technology in Plant Pathology. The learner can demonstrate of Biopesticides against some pathogens and Preparation of Winogradsky column using pond bottom mud, observations on temporal sequence of appearance of microbes (visual appearance).
9	**Plant Physiology (Paper-VII)**	CO-01	Understanding the physical properties of Water and mechanisms behind the movement of water and minerals from Soil to Plant. The Transpiration and Translocation concepts explained. Practical knowledge on the role of mineral nutrition and symptoms of mineral deficiency.
		CO-02	Gains knowledge on Enzyme Nomenclature, Classification, Enzyme Kinetics and regulation mechanisms. Detail knowledge on Structural, Biochemical and Molecular aspects of the Light Phase Reaction and Carbon fixation methods of Photosynthesis. Explained the basics of Photochemistry. The Blackmann's Law of limiting factor and its application in studying the factors affecting the Photosynthesis.
		CO-03	The basic concepts of Aerobic and Anaerobic Respiration. Understanding the sequence of biochemical pathways of Respiration, their correlation and feedback control mechanisms.

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			Explanation of the concepts of Nitrogen Metabolism and Lipid Metabolism.
		CO-04	Gains knowledge on synthesis, transport and physiological effects of Phytohormones on Plant Growth and Development. Understands the Physiology of flowering and photoperiodism. Student can demonstrate the determination of Stomatal frequency, rate of transpiration, separation of plant pigments and estimation of protein.
10	**Tissue culture & Biotechnology (Paper-VIII) Elective-A**	CO-01	Introduction of the History, Scope and basic terminology used in Tissue culture. Student can demonstrate the sterilization methods, Callus culture and Organ culture.
		CO-02	Gains knowledge on Somatic Hybrids, Cybrids and Application of Tissue Culture. Practical knowledge on estimation of DNA, PCR technique demonstrates to the learner through AV tools and Animations.
		CO-03	The student acquires knowledge on History, scope and applications of Biotechnology. The concept of Vectors and application of r-DNA technology in Gene cloning.
		CO-04	Gains knowledge on construction of Gene Libraries, Gene transfer methods and Production of Transgenic plants. Periodical debates conduct to discuss the pros and cons of Transgenic plants through Student forums to attain the knowledge on contemporary developments on the usage of Genetically Modified Organisms (GMO's).
11	**Seed Technology (Paper-VIII) Elective-B**	CO-01	Basic concepts of Seed structure, Seed dormancy, Seed Storage. Structure of Pollen grains and ovules. Student can demonstrate pollen viability test using Evans Blue.
		CO-02	Gains knowledge on the factors affecting Seed viability, Seed treatment to control seed borne diseases. Understands the Cultural Practices and harvesting of Seed.
		CO-03	Explains the Principles of Hybrid seed production and Seed development in Cultivated plants. Gains knowledge on the Heterosis and Genetic purity of the seed.
		CO-04	The students are acquaints with the aspects of Seed production technology, Seed Certification and Seed Banks through field visits to the concerned institutions. Student can demonstrate the seed viability test, estimation of amylase activity.

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12	**Bio control of Plant Diseases and Pests. Paper-VIII (Elective-C)**	CO-01	Gains knowledge on Biological control of diseases caused by Pathogens. Practical knowledge on identification of disease based on the Histo-pathogenesis.
		CO-02	The student acquires knowledge on the concepts of Pheramones, Semi-chemicals, Botanical insecticides and Plant parasitic Nematodes.
		CO-03	To impart knowledge on commercialization of Baculovirus insecticides, natural and genetic engineering methods to control the weeds.
		CO-04	Comprehensive knowledge of IPM (Integrated Pest Management strategies. Students can demonstrate the extraction of Biopesticide from *Neem*, *Chrysanthemum.*

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DEPARTMENT OF BOTANY-COURSE OUTCOMES			
S.NO	**Paper Title &Code**	**CO NUMBER**	**Course Outcomes**
1	**Microbial Diversity & Lower Plants PAPER-I**	CO-01	Student gains knowledge on basic structure, metabolic and reproductive methods of bacteria and Viruses. Special attention given for the plant diseases caused by the Bacteria and Viruses. The unique characteristics of Archaebacteria, Actinomycetes and Mycoplasma also covered in course.
		CO-02	Student's familirised with the concept of Biofertilizers and its producing organisms. They also know about the basic biology, life cycles and economic importance of Algae. Practical knowledge on identification of the algae and cultivation of Bio fertilizers.
		CO-03	Students acquire knowledge on General characters and economic importance of Fungi and Lichens. Dissection capabilities of the student to observe pathological stage of the pathogen in infected plant material.
		CO-04	Student's gains knowledge on evolutionary trends in Bryophytes and Pteridophytes by comparing the features of case study plants. The aspects of origin of stele and Heterospory are given special attention to taught since these events are important for understanding the Evolution process.
2	**Gymnosperms, Taxonomy of Angiosperms and Ecology PAPER-II**	CO-01	The student knows about origin of Gymnosperms and general characters with reference to the case study plants. The concept of Geological Time Scale introduced to the students and they are also familiarize with the formation of the fossils.
		CO-02	The student understands and applies the basic principles and rules of Botanical nomenclature for identification and naming the plant. A basic understanding of the classification systems, origin & history of ICBN and interpretation of phylogenetic trees for reconstructing the evolutionary relationships between the plants. Practical knowledge of identification of the plants and preserving the plant specimens using Herbarium techniques.
		CO-03	A basic understanding of systemic study of plant families (Dicotyledons and Monocotyledons) and description of the plants based on the classification learns by the students.
		CO-04	The learner understands the concept of Ecosystem (structural and functional aspects), ecological adaptations of plants and concept of plant succession (Hydrosere, Xerosere).

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3	**Taxonomy of Angiosperms & Medicinal Botany Paper-III**	CO-01	The student gains knowledge on plant systematics and comparative study of the different classification systems. Awareness of the recent trends in advanced taxonomy, herbarium techniques and salient features of Schenzen code.
		CO-02	A basic understanding of the systematic study of the plant characters (morphological & sexual) of families and technical description of the plants.
		CO-03	The student gains knowledge on introduction and scope of Ethnomedicine and outlines of traditional medicinal systems like Ayurveda, Unani, Sidda and Homeopathy. Students are advised to go through the Ministry of Health and AYUSH web sites to get aware of the importance of these traditional therapeutic systems. They also got exposed to common medicinal plants in primary health care (through field visits), evaluation of crude drugs and enlightened with the functional roles of agencies like NMPB, CIMAP and CDRI.
		CO-04	With the comparative study of the Traditional medicine and Modern medicine student understands the Traditional medicine as a resource for modern medicine by studying the active principles of medicinal plants. They also exposed to basic concepts of Pharmacognocy collection, processing and storage of the plant crude drugs.
4	**Plant Anatomy, Embryology and Palynology (Paper-IV)**	CO-01	The student gains detail knowledge on Meristematic tissues, Permanent tissues and Leaf Ontogeny. Practical knowledge on stomata types.
		CO-02	The secondary growth concept introduced to the students with comparative study of Anomalous secondary growth plants (Achyranthes, Bignonia, Boerhaaavia, Dracaena and Beetroot). Practical knowledge on Wood structure and its basic properties of the commercially important plants through field visits.
		CO-03	The student gains knowledge of introduction of Embryology and basics of Microsporogenesis and Megasporogenesis.
		CO-04	The student enlightened with chronological Pre-Fertilization and Post-Fertilization events of sexual life cycle of the plants. Introduction to NPC classification and its applications.
5	**Cell Biology and Genetics**	CO-01	The basic knowledge of structure and functions of Plant cell envelopes (Cell wall & Cell Membrane).

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	(Paper-V)		The detail understanding of the ultra structure of the Nucleus, Nucleic acids (DNA &RNA), Chromosomes morphology and organization of DNA in a chromosome through animations.
		CO-02	The student gains knowledge on properties of Extra Nuclear Genomes and their inheritance pattern. They are also enlightened with Cell cycle and Mutations (Chromosomal Aberrations and Gene Mutations).
		CO-03	Students acquire knowledge on Mendelian laws of inheritance, concept of Linkage and Construction of Genetic maps.
		CO-04	Understand the concepts of Gene organization and Genetic code. Special focus on concepts of Central Dogma of Molecular Biology (CDMB). Regulation of Transcription (with reference to Lac & Trp Operons) and Translation. Practical knowledge on Cytochemical studies acquire by the students.
6	**Ecology & Biodiversity Paper-VI (Elective-A)**	CO-1	The student gains knowledge on Elements of Environment, structural and functional aspects of Ecosystem and Ecological adaptations of Plants.
		CO-02	Basic concepts of Population Ecology and Community Ecology learnt by the student. Have awareness on process of pedogenesis, soil erosion, conservation methods and analysis of Soil properties.
		CO-03	Explain the Community dynamics with reference to Hydrosere and Xerosere. Gains knowledge on concepts of Productivity and Biodiversity. Students are enlightened to Convention of Biodiversity through AV tools to know the value and significance of Biological resources.
		CO-04	Gains the knowledge on level of Biodiversity. Concept of Hotspots and Endemism. Detailed study of the opportunities and scope in the areas of Conservations methods of Biodiversity. Practical knowledge on studying the plant communities can be demonstrated by the learner.
7	**Horticulture Paper-VI (Elective-B)**	CO-01	The students aware on Scope and opportunities in Horticulture. Gains knowledge on types of Horticulture crops and manures.
		CO-02	Student can demonstrate Artificial propagation methods, transplanting, field preparation, use of herbicides, top dressing of fertilizers and use of Growth regulators in Horticulture.
		CO-03	Applications of Green house technology,

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			Landscaping and Plant Growth regulators in Horticulture.
		CO-04	The student's familarised with the concept of Organic farming and Bonsai techniques. Practical knowledge on garden implements and making of organic compost.
8	**Microbiology and Plant Pathology (Paper-VI) Elective-C**	CO-01	Student's gains knowledge on chronology of discovering Microorganisms, cellular properties of prokaryotic organisms and in-vitro growth methods of Microorganisms.
		CO-02	Explains the Genetic recombination methods in prokaryotes, Biological Nitrogen Fixation (BNF) and industrial applications of Microorganisms.
		CO-03	The students are acquainted with the historical developments in plant pathology, epidemiology and plant disease management
		CO-04	Gains knowledge on disease resistance genes and its application in Inducted resistance. Explain the basic concepts of Molecular Plant Pathology and application of Information technology in Plant Pathology. The learner can demonstrate of Biopesticides against some pathogens and Preparation of Winogradsky column using pond bottom mud, observations on temporal sequence of appearance of microbes (visual appearance).
9	**Plant Physiology (Paper-VII)**	CO-01	Understanding the physical properties of Water and mechanisms behind the movement of water and minerals from Soil to Plant. The Transpiration and Translocation concepts explained. Practical knowledge on the role of mineral nutrition and symptoms of mineral deficiency.
		CO-02	Gains knowledge on Enzyme Nomenclature, Classification, Enzyme Kinetics and regulation mechanisms. Detail knowledge on Structural, Biochemical and Molecular aspects of the Light Phase Reaction and Carbon fixation methods of Photosynthesis. Explained the basics of Photochemistry. The Blackmann's Law of limiting factor and its application in studying the factors affecting the Photosynthesis.
		CO-03	The basic concepts of Aerobic and Anaerobic Respiration. Understanding the sequence of biochemical pathways of Respiration, their correlation and feedback control mechanisms. Explanation of the concepts of Nitrogen Metabolism and Lipid Metabolism.

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		CO-04	Gains knowledge on synthesis, transport and physiological effects of Phytohormones on Plant Growth and Development. Understands the Physiology of flowering and photoperiodism. Student can demonstrate the determination of Stomatal frequency, rate of transpiration, separation of plant pigments and estimation of protein.
10	**Tissue culture & Biotechnology (Paper-VIII) Elective-A**	CO-01	Introduction of the History, Scope and basic terminology used in Tissue culture. Student can demonstrate the sterilization methods, Callus culture and Organ culture.
		CO-02	Gains knowledge on Somatic Hybrids, Cybrids and Application of Tissue Culture. Practical knowledge on estimation of DNA, PCR technique demonstrates to the learner through AV tools and Animations.
		CO-03	The student acquires knowledge on History, scope and applications of Biotechnology. The concept of Vectors and application of r-DNA technology in Gene cloning.
		CO-04	Gains knowledge on construction of Gene Libraries, Gene transfer methods and Production of Transgenic plants. Periodical debates conduct to discuss the pros and cons of Transgenic plants through Student forums to attain the knowledge on contemporary developments on the usage of Genetically Modified Organisms (GMO's).
11	**Seed Technology (Paper-VIII) Elective-B**	CO-01	Basic concepts of Seed structure, Seed dormancy, Seed Storage. Structure of Pollen grains and ovules. Student can demonstrate pollen viability test using Evans Blue.
		CO-02	Gains knowledge on the factors affecting Seed viability, Seed treatment to control seed borne diseases. Understands the Cultural Practices and harvesting of Seed.
		CO-03	Explains the Principles of Hybrid seed production and Seed development in Cultivated plants. Gains knowledge on the Heterosis and Genetic purity of the seed.
		CO-04	The students are acquaints with the aspects of Seed production technology, Seed Certification and Seed Banks through field visits to the concerned institutions. Student can demonstrate the seed viability test, estimation of amylase activity.
12	**Bio control of Plant**	CO-01	Gains knowledge on Biological control of diseases

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	Diseases and Pests. Paper-VIII (Elective-C)		caused by Pathogens. Practical knowledge on identification of disease based on the Histo-pathogenesis.
		CO-02	The student acquires knowledge on the concepts of Pheramones, Semi-chemicals, Botanical insecticides and Plant parasitic Nematodes.
		CO-03	To impart knowledge on commercialization of Baculovirus insecticides, natural and genetic engineering methods to control the weeds.
		CO-04	Comprehensive knowledge of IPM (Integrated Pest Management strategies. Students can demonstrate the extraction of Biopesticide from *Neem*, *Chrysanthemum.*

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Department of Physics- Course outcomes

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S.no	Paper title	Semester	Course Outcomes
1.	Paper -I Mechanics	Semester -I	Unit-I 1.To understand the basic concepts of Vector fields, application of vectors by using various theorems. Unit-II 2.To understand various laws of motion, 2,3- dimensional collisions. 3.To able to understand Angular momentum Rotational motion & Gyroscope. Unit-III 4.Able to differentiate central forces, Inverse square law and Kepler's laws Unit-iV 5.Theorems of Relativity able to understand Michelson – Morley experiment, Lorentz transformations, Four vector formalism.
2.	Paper-II Waves & Oscillations	Semester-II	Unit-I Concept of SHM, Compound Pendulum, Measurement of 'g' in different combination Lissajous figures. Unit-II Able to understand about damped and Oscillations, amplitude resonance, Coupled Oscillations Unit-III

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			Understanding different types of waves In vibrating strings Unit-IV Able differentiating vibration of bars in different types of combinations, Tuning fork.
3.	Paper -III Thermal Physics	Semester-III	Unit-I Able to know about transport phenomena of gases, Thermodynamic scale of Temperature, Concept of entropy in all Aspects. T-S diagram. Unit-II Can understand thermodynamic potentials Cp-Cv & Cp/Cv=s expression for joule coefficient foe perfect and Vander walls gas. Joule-kelvin effect, Joule-Thomson cooling, Kapitsa method- liquifying helium, Principle Of refrigeration Unit-III To know about black body energy spectrum Planks law, Rayleigh jeans law, Stefan's law to measure the radiation using pyrometers To calculate effective temperature of sun.
4.	Paper -IV OPTICS	Semester -IV	Unit-IV Able to understand about phase space, Ensembles , Maxwell Boltzmann distribution Laws, differences applications, Neutron

			stars. Unit-I To enlighten about light interference different types and conditions. Lloyd's mirror experiment. Wedge method, Newton's rings, wave length determination Using Michelson interferon meter sodium D1, D2 lines. Unit-II To aware the student about different types of diffraction and methods double slit, Calculate the resolve power of grating in different methods, Zone plate uses. Unit-III To understand the concept of Polarization, Methods to get polarized light, Babine Compensator, Lorentz half shade polarimeter. Unit-IV To know about types of aberrations and ways to minimize it. Optical fibres types, Principles and advantages of optical fibre communications.
5.	Paper-V Electro Magnetism	Semester -V	Unit-I Able to understand the concept of electric Field, Flux, Gauss law applications, Conservative nature of electric field 'E', Concept of electric potential calculation. Unit-II To understand about magnetic field, Magnetic flux, Properties and Ampere's Law applications, Ballistic galvanometer working principle.

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6.	Paper-VI(A) Solid state Physics (Elective-I)	Semester -V	Unit-III To enlighten the concept of Electromagnetic Induction forms, Lenz's law, self and mutual Induction, Maxwell equations. Unit-IV To Understand about Electromagnetic waves types, Polarization of EM waves, Brewster's angle, deception of linear, Circular and elliptical polarization. Unit-I To understand about different types of Crystal structure, Unit cell, Miller indices. Types of Lattices. SC, BCC, FCC, HCP, Brillouin zones, X-ray diffraction by Crystals, Braggs law, Dulong and Petits law, T3 law. Unit-II Magnetic properties of matter dia, para, ferro magnetic materials Curiel's law, B-H curve and to understand dielectric properties of materials. Unit-III To understand about Band theory, Classification based on it. Conductivity of semiconductor, mobility, hall effect, Measurement of conductivity and hall coefficient.
7.	Paper-VII	Semester -VI	Unit-IV To aware about LASER types and Ruby laser, He-Ni laser concepts, Superconductivity Concept& types. Isotope effect and BCS theory.

	Modern Physics		<u>Unit-I</u> To aware about atomic spectra and models. Alpha particle scattering, Rutherford Scattering formula, model and limitations Bohr's model of hydrogen atom, limitations. <u>Unit-II</u> To elaborate understanding about wave particle duality, de-Broglie hypothesis, Wave packet types, distribution Heisenberg uncertainty principle. <u>Unit-III</u> To get knowledge about Nuclear size and structure and atomic weight relation. Nuclear force nature, Liquid -drop model and binding energy, magnetic numbers.
8.	Paper -VIII(A) Basic electronics (Elective-I)	Semester -VI	<u>Unit-IV</u> To understand concept of radioactivity, Alpha decay, Beta decay, Fission& Fusion, Mass defect, Nuclear reactor. <u>Unit-I</u> To have basic knowledge about network Elements and network theorems, Models, Transport networks, Y, H and ABCD parameters. <u>Unit-II</u> Broad knowledge about band theory in Solids. Semiconductors, N-type, P-type Conductors. P-N junction diode, Zener diode as a voltage regulator. <u>Unit-III</u> To elaborate knowledge about bipolar

			junction transistor. p-n-p, n-p-n transistors, CE, CB, CC configurations, RC- coupled amplifier which are used in all electronic devices. <u>Unit-IV</u> The modern development trend binary number system, conversions. Decimal to hexagonal vice-versa. Logic gates OR, AND, NOT gates truth tables EX-OR, De-Morgan's laws proof

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DEPARTMENT OF CHEMISTRY-COURSE OUTCOMES			
S.NO	**Paper Title &Code**	**CO NUMBER**	**Course Outcomes**
1	Inorganic Chemistry, Organic Chemistry, Physical Chemistry, General Chemistry-Paper-I	CO-01	The Student acquires knowledge on nature of Chemical bonding and Hybridizations, Bond order and Magnetic properties of elements. The physical and Chemical properties of Group-13, Group-14 and Group-15 elements.
		CO-02	The students understand the basics of organic chemistry and factors influencing reactivity. Preparations, properties (physical &Chemical) and uses of Acyclic hydrocarbons(Alkanes, Alkenes and Alkynes)
		CO-03	Basics of the Atomic structure and elementary quantum mechanics. Student acquires the knowledge on Deviation of real gases from ideal gas properties. The Student learns the factors affecting the liquid state parameters. Basic laws which governs the properties of the Solutions
		CO-04	Student acquires the practical knowledge of semi qualitative analysis of Cations and Anions. The Student understands the concept of isomerism and applies the various representation projections to determine the 3D structures of the Molecules. Understand the intermolecular forces in liquid and solid basic principles of crystallography. Uses of the X-ray diffraction and crystal structure in Chemistry and Life Sciences. Practical knowledge on Semi micro analysis of salt mixure.
2	Inorganic Chemistry, Organic Chemistry, Physical Chemistry, General Chemistry-Paper-II	CO-01	The student acquires the Preparations, properties (physical &Chemical) of P-block elements. The student can distinguish inter halogens, Poly halides and Pseudo halogens based on their properties which is explained in an illustrative manner. The students understand the concept of Noble gases and their compounds.
		CO-02	The Students understands the structure Preparations, properties (physical &Chemical) of organic halogen compounds. The student acquires the knowledge on Preparations, properties (physical &Chemical) of Alcohols, Phenols, Ethers and Carbonyl compounds. Special attention given to understanding the SN1, SN2, Pinacole-Pinacalone rearrangement, Reimer-Teimer Reaction etc..
		CO-03	Basic understanding of the electrochemical properties and its industrial applications in making electrical batteries.
		CO-04	The students acquire the practical knowledge on

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			volumetric and Gravimetric analysis titration methods. By studying the Stereoisomerism student can identify and naming (D, L & R, S nomenclature) the optically active compounds. The students gain the knowledge on various colligative properties and their experimental determination. Practical knowledge on Semi micro analysis of salt mixture. (Cations, Anions)
3	Inorganic Chemistry, Organic Chemistry, Physical Chemistry, General Chemistry-Paper-III	CO-01	The students introduced to peculiar properties and configurations of Lanthanides and Actinides. Basics of Axis of Symmetry, Plane of Symmetry, Centre of symmetry and improper rotational axis of symmetry. Classification, Physical and chemical properties of non aqueous solvents and its applications in medicine and industry.
		CO-02	The student acquires the knowledge on classification, preparations, properties and applications of Alcohols, Ethers, Epoxides and carbonyl compounds.
		CO-03	The students acquire the basic knowledge on properties and applications of phase rule (Phase rule of water system, Lead-silver system and salt water system), colloids and surface chemistry. Applications missiles in domestic and industrial purposes explained to the students.
		CO-04	The synthesis and applications of nano materials in various areas. The stereo properties of carbon compounds and basic principles of conformational analysis. The student gains practical knowledge on estimation of carbonates and bicarbonates.
4	Inorganic Chemistry, Organic Chemistry, Physical Chemistry, General Chemistry-Paper-IV	CO-01	Introducing the concept and theories (Werner, Sidgwick, EAN, VBT) of Coordination compounds and their isomeric properties. Applications of organo metallic compounds in synthesis of organic compounds and structural properties of metal carbonyls.
		CO-02	Student gains knowledge on Classification and preparation, properties (physical &chemical) and applications of Carboxylic acids, Nitro hydro carbons. Special importance given to the named reactions like Arndt-Eistert synthesis, Hell-Volhard-Zelensky(HVZ) , Nef reaction, Mannich reaction, Michael addition & reduction reaction for preparing the students in exam and practical point of view.

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		CO-03	The basic understanding of the Electro chemistry princioles like Kholrausch's law, Debye-Huckel-Onsagar's theory, Hittorf's method and their applications in Industry.
		CO-04	Student gains the knowledge of HOMO and LUMO energy levels and their importance. Introduces the basic terminology of Synthetic strategies. The student gains practical knowledge on potentiometric titrations.
5	Inorganic Chemistry, Organic Chemistry, Physical Chemistry, General Chemistry-Paper-V	CO-01	The detail knowledge of Coordination compounds with reference to Crystal Field Theory (CFT), magnetic properties and Electronic metal spectra. Applications of coordination compounds in chemical analysis, Cancer therapy, Synthesis of polymers and Water softening.
		CO-02	The student acquires the knowledge on classification, preparations, properties (physical and chemical) and applications of Amines, Cyanides, Isocyanides, Heterocyclic compounds (Pyrrole, Furan and Thiophene).
		CO-03	The student acquires derivation knowledge on Zero order, First order, Second order and Third order reactions of Chemical Kinetics.
		CO-04	Student gains knowledge on Principles of Electro Spectroscopy (electronic transitions), Infrared Spectroscopy (Energy levels and vibrations of Atom). Mechanism of photochemical reactions like Phosphorescence and Fluorescence. At the end of this semester student acquainted with chromatography techniques and identification of functional groups in organic compounds.
6	INSTRUMENTAL METHODS OF ANALYSIS PAPER-VI- (ELECTIVE-A)	CO-01	Students acquire knowledge on basic principles of Chromatography.
		CO-02	Student gains knowledge on preparation and usages of Column chromatography, Ion Exchange chromatography, GC-MS.
		CO-03	Basics of Colorimetry and its applications
		CO-04	Student gains practical knowledge on knowledge on Volumetric titration techniques, Chemical kinetics, Potentiometry and PH-Metry.
7	INDUSTRIAL CHEMISTRY AND CATALYSIS	CO-01	The student gains knowledge on general principles of metallurgy and its applications in mining industry.

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	PAPER-VI (ELECTIVE-B)	CO-02	Student acquires knowledge on types of dyes and its applications in Textile industry.
		CO-03	Student gains knowledge on Types of Catalytic reactions, Enzyme catalysis and its kinetics.
		CO-04	Student gains practical knowledge on, Spectral analysis of organic compounds and separation of two component mixture.
8	**Analysis of Drugs, Foods & Dairy Products. PAPER-VI(ELECTIVE-C)**	CO-01	Students will know about the analysis of frequently used pharmaceutical drugs.
		CO-02	Student's gains knowledge on Pharmaceutical preparations of Allegra, Zyrtec(Citirizine), Alprazolam.
		CO-03	Student's gains knowledge on Pharmaceutical preparations of Phenobarbital, Phenacemide, Atenolol. Furosemide, Triamterene.
		CO-04	Student's gains practical knowledge on detection f adulteration in Milk, Milk products and food materials. Analysis of Water quality parameters like DO, COD and BOD.
9	Inorganic Chemistry, Organic Chemistry, Physical Chemistry, General Chemistry-Paper-VII	CO-01	Students acquire knowledge on inorganic reaction mechanisms and their thermodynamic and physical properties based on VBT and CFT. Biological significance of essential elements (Sodium, Potassium, Iron, Cobalt etc.), and transport mechanism of Oxygen in mammals. HSAB Classification.
		CO-02	Students acquainted with Nomenclature, Classification, preparations, properties (Physical &Chemical) and the biological significance of Carbohydrates and Amino acids.
		CO-03	Student gain the knowledge on Basic Thermodynamic terminology, Laws of Thermodynamics, Carnot's cycle and Kirchhoff's equation.
		CO-04	Student understands the Proton Magnetic Resonance spectroscopy and Principles of Nuclear Magnetic Resonance (NMR), equivalent and non-equivalent protons, position of signals and Applications of NMR with suitable examples. The laboratory skills like determination of Cell constant, determination of distribution coefficient and verification of Beer-Lamberts law are also

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			acquired.
10	MEDICINAL CHEMISTRY (PAPER-VIII) ELECTIVE-A	CO-01	Students know about the basic Nomenclature and terminology of drugs and diseases. Drug delivery and administration routes in the body.
		CO-02	Student knows about Enzyme- Substrate kinetics, types of Inhibition and interactions of Drug-Receptor.
		CO-03	Student knows about synthesis and therapeutic activity of the drugs. They also got familiarize with metabolic disorders drugs (Ibuprofen,Paracetamol, Tolbutamide) and drugs acting on nervous system(Benzocaine, Nitrous Oxide).
		CO-04	Students are acquainted with importance of Vitamins, Hormones and Neurotransmitters in human body. Practical knowledge of Quantitative analysis of organic compounds acquires by the students.
11	AGRICULTURAL AND FUEL CHEMISTRY PAPER-VIII (ELECTIVE-B)	CO-01	Student enlightened with adverse effects of chemical pesticides on human health and Environment. They also know about the potential benefits of Bio pesticides. Case studies of Azadirachtin, Pyrethrins, Pyrethroids, nicotinoids (Imidacloprid) showed to students.
		CO-02	Students understand the potential harmfulness of NPK Chemical fertilizers and importance of Biofertilizers in Organic farming.
		CO-03	Students know about that Renewable and Non-renewable energy resources. They also enlightened with practical knowledge at Singareni mines about types of coal and its formation.
		CO-04	Students acquainted with the formation of fossil fuels. Basic principles of Refining. Reforming Petroleum and non Petroleum products. Types of Lubricants and its industrial applications. Students know about practical knowledge on preparation of Aspirin, Paracetamol.
12	GREEN CHEMISTRY PAPER-VIII (ELECTIVE-C)	CO-01	Students know about the Concept and scope of the Green Chemistry. The basic principles and synthesis of Green Chemistry also illustrates with the students.
		CO-02	Student's gains knowledge on selection of solvent in aqueous phase reactions.
		CO-03	Students acquired knowledge on basics of

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			Microwave and Ultrasound assisted green synthesis.
		CO-04	Student's gains knowledge on green synthesis / reactions and its practical applications in industry. The students gains practical knowledge on preparation of organic compounds (acetanilide, 1,1-bis -2-naphthol, adipic acid) by Green methods.

Sl. No.		Paper Title & Code	Co Number	Course Outcome
		Semester - I History of India (From Earliest Times to c.700 CE)	CO-01	Students known importance of Source & and pre- history of India Definitions - Nature and Scope of History - History and
		Discipline Specific Course - Paper - I		Its Relationship with other Social Sciences - Geographical Features of India Sources of Indian History: Pre- History Paleolithic, Mesolithic, Neolithic, Chalcolithic and Megalithic Cultures.
			CO-02	Students importance of Indus Valley Civilization - Its Features & Decline; Early Vedic and Later Vedic Civilizations Vedic Literature Society Economy - Polity Religion.
			CO-03	Students Understand background of our religion, customs institutions, administration and so on Rise of New Religious Movements Charvakas, Lokayathas, Jainism and Buddhism; Mahajanapadas - Rise of Magadha; Alexander's Invasion and its impact.
			CO-04	Understand the social, political, religious and economic conditions of the Foundation of the Mauryan Dynasty; Ashoka and His Dharma Polity Administration - Society Economy Religion Literature - Art and Architecture; Disintegration of the Mauryan Empire; Post-Mauryan Kingdoms - Indo-Greeks - Kushanas and Kanishka - Society Economy Literature Art and Architecture; The Satavahanas; Sangam Age , Litarary Development.
			CO-05	Understand the social, political, religious and economic conditions of the Gupta Empire: A Brief Political Survey - Polity and Administration, Social and Economic Conditions, Agriculture and Land Grants - Feudalism, Caste System, Position of Women, Education, Literature, Science and Technology, Art and Architecture - Harshavardana and His Achievements.

DEPARTMENT OF HISTORY

COURSE OUTCOME

Sl. No.	Paper Title & Code	Co Number	Course Outcome
	History of India (c	CO-01	Students understand importance of

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Sl. No.	Paper Title & Code	Co Number	Course Outcome
	History of India (1526-1857 CE) Discipline Specific Course - Paper – III IInd Year	CO-01	Students understand importance Establishment of Mughal Dynasty - Sources Shershah Sur and His Reforms -

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	Semester - III		Brief Survey of Political History of Mughals Akbar, Shah Jahan and Aurangzeb - Polity - Administration Society Economy Technological Developments - Religion Hindu-Muslim Relations Emergence of Composite Culture Education Language and Literature Art and Architecture - Disintegration of Mughal Empire.
		CO-02	Students Gained an awareness of Rise of Regional Powers - Marathas Shivaji and His Administration Peshwas - Sikhs.
		CO-03	Students known importance of Advent of European Powers - Portuguese, Dutch, English and French, Anglo- French Rivalry - Expansion and Consolidation of British Power We Subsidiary Alliance
		CO-04	Students gained knowledge Three Stages of Colonialism Mercantilism - Free Trade Policies Finance Capital - Land Revenue Settlements Cornwallis and Permanent Revenue Settlement; Thomas Munroe and Ryotwari; Mahalwari System Changes in the Agrarian Economy and Condition of Peasantry Famines.
		CO-05	Students knowledge of Decline of Rural Cottage Industries and Urban Handicrafts - Growth of Railways, Roads, Communication Modern Industries Coal Mines, Textiles, Iron and Steel, etc. - Anti-Colonial Upsurge - 1857 Revolt Nature, Causes and Results.

Sl. No.	Paper Title & Code	Co Number	Course Outcome

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	History of India (1858-1964 CE) Discipline Specific Course -Paper – IV IInd Year Semester - IV	CO-01	Students understand importance Queen's Proclamation – Beginning of Colonial Rule – Introduction of Western Education – Role of Christian Missionaries – Press, Communication and Emergence of Middle Classes - Lytton and Rippon: Impact of their Policies.
		CO-02	Students gained Knowledge of Socio-Religions Reform Movements – Brahma Samaj - Arya Samaj - Theosophical Society - Ramakrishna Mission - Aligarh Movement; Anti-Caste Movements - Jyotibha Phule - Narayana Guru - Periyar Ramaswamy Naicker and Dr. B.R. Ambedkar.
		CO-03	Students Known the Factors for the Rise of Nationalism – Formation of Indian National Congress – Three Phases of Freedom Struggle: Moderate Phase, Extremist Phase and Gandhian Era - Non-Cooperation, Civil Disobedience and Quit Indian Movement; Indian National Army and Subhash Chandra Bose.
		CO-04	Students knowledge about Revolutionary Movement: Gadhar Party – Bhagath Singh – Chandra Sekhar Azad and Others; Left-Wing Movement – Rise of Socialist and Communist Parties - Peasant and Workers Movements.
		CO-05	Students gained an awareness of Emergence of Communal Politics and Mohd. Ali Jinnah – Prelude to Partition of India - Sardar Vallabhai Patel and Integration of Princely States into Indian Union – Republic of India – Jawaharlal Nehru and His Policies

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Sl. No.	Paper Title & Code	Co Number	Course Outcome
	World History (1453-1815 CE) Discipline Specific Course – Paper - V B.A. Final Year Semester - V	CO-01	Students gained knowledge of Fall of Constantinople (1453 C.E.) – Beginning of Modern Age in Europe – Geographical Discoveries and Scientific Inventions and their impact on Society – Rise of New Ideas – Spirit of Humanism – Renaissance – Meaning-Causes and Results – Impact of Renaissance on Europe.
		CO-02	Students understand importance Reformation Movement – Causes – Martin Luther, John Calvin and Zwingli; Counter Reformation Movement and Ignatius Loyola – Results of Reformation and Counter Reformation.
		CO-03	Students gained knowledge about Emergence of Nation States – Causes – Spain – Charles V; England – Henry VIII - Glorious Revolution (1688); France under Bourbons – Louis XIV; Era of Enlightened Despotism – Peter the Great and his Policies – Frederick the Great and his Achievements.
		CO-04	Students gained an awareness of End of Feudalism – Industrial Revolution – Causes for Industrialization in England and Europe – Textile Industry – Working Class Movement.
		CO-05	Students known the information about American War of Independence (1776) – French Revolution (1789) – Causes, Course, Results and its Impact. Factors for the Rise of Napoleon – Domestic and Foreign Policies – Fall of Napoleon.

Sl. No.	Paper Title & Code	Co Number	Course Outcome
	History of Telangana (From Earliest Times to 1724 CE)	CO-01	Students understand importance Sources – Archaeological and Literary Sources - Geographical Features of Telangana - Pre History – The Age of Satavahanas –

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			Origin – Administration - Society and Economy – Religion - Language & Literature - Art & Architecture
		CO-02	Students gained information of Post-Satavahana Period - Ikshvakus – Vishnukundins – A Brief Political History – Society – Economy – Religion - Language & Literature - Art & Architecture.
		CO-03	Students gained knowledge of Origin and Early History of Chalukyas of Badami and their Contribution to Culture - Chalukyas of Vemulavada & Mudigonda - Political History – Society – Economy – Religion - Language & Literature - Art & Architecture.
		CO-04	Students understand importance Kakatiyas – Origin and Early History – Ganapatideva, Rudramadevi and Prataparudra - Administration - Society – Economy – Language & Literature - Art & Architecture – Sammakka-Sarakka Revolt - Post-Kakatiya Political Developments – Musunuri Nayakas, Recherla Rulers – Their Contribution to Culture.
		CO-05	Students gained knowledge Qutb Shahis of Golconda – Origin and Political History – Society – Economy - Agriculture – Irrigation – Trade & Commerce – Religion – Language & Literature – Art & Architecture – Political Conditions in Telangana from 1687 to 1724 – Life and Times of Sarvai Papanna. Recommended Books: G. Yazdani, Early History of Deccan, 2 Vols. D. Raja Reddy, The Study of Satavahana History: The Source Material.

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Sl. No.	Paper Title & Code	Co Number	Course Outcome
	Islamic History and Culture (From Earliest Times to the fall of Ummayads) Discipline Specific Elective - Paper - I (B) Semester – V		Students gained knowledge The Scope of Islamic History – Geographical Conditions of Arabic – Pagan Civilization and Islam – Political and Social Conditions before the Prophet.
			Students understand importance Early Life of Prophet Muhammad – Mecca period – Migration to Madina – the Holy Quran – the Battle of Badr-Conquest of Mecca – Conditions of Arabic at the death of Prophet-Prophet Muhammad as Politician, Social Reformer and Leader.
			Students gained an awareness of The Era of Pious Khalifas – Abu-Bakr, Umar – Further expansion – Osman Ali their achievements – The Struggle for power between Syria and Al-Iraq and Hijaz Administrative System under Khalifas.
			Students understand importance The Ummayad Khalifas – Mua' Wiyah-Yazid-I-Battle of Karbala-Marwan-I, Abdul Malik and his achievements – Causes for the fall of Khalifas.
			Students understand importance Al-Walid-I – Suleman-Ibn-ul-Azi-Hisham and his relations with Byzantine-Conquests in East and West-Development of Society and growth of Fine Arts – Marwan-II and the fall of Ummayads – Administrative System under Ummayads – Society under Ummayads.

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Sl. No.	Paper Title & Code	Co Number	Course Outcome
	History of USA (1776-1991 CE) Discipline Specific Elective - Paper - I (C)	CO-01	Students gained knowledge of American Revolution – Causes – Consequences – Formation of U.S.A. – Confederation of States – George Washington, Alexander Hamilton – Thomas Jefferson - Administration – War of 1812 and Its Revolts.
		CO-02	Students understand importance Nation Building Process 1815-1865 - The Monroe Doctrine – Jacksonian Democracy - West Ward Movement – South and North Divergence – The Missouri Compromise – Civil War 1861-65.
		CO-03	Students understand importance Abraham Lincoln - Reconstruction of the South America – The Economic Revolution – Industrialization- American Labour Movement - Agrarian Revolution
		CO-04	Students gained an awareness of Emergence of Modern America 1890-1919 - The Populist Party and Its Programmes – Progressive Movement – Imperialism in Cuba – Panama Canal Issue – Woodrow Wilson – USA in World War-I - USA and League of Nations.
		CO-5	Students understand importance Inter War Period 1919-1939 –Washington Disarmament Conference – Kellogg Briand Pact – The Great Depression – Franklin Roosevelt and the New Deal - U.S.A. in the World War-II – Emergence of USA as World Power – Cold War – Collapse of USSR, 1991 – Emergence of Uni-Polar World.

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Sl. No.	Paper Title & Code	CO Number	Course Outcomes
	World History (1815-1950 CE) Paper – VI	CO-01	Students understand importance of Congress of Vienna (1815) – Principles and Impact; Metternich and his System – 1830 and 1848 French Revolutions: Unification of Italy – Role of Joseph Mazzini, Count Cavour and Garibaldi; Unification of Germany – Role of Bismarck; Significance of the Unification Movements.
		CO-02	Students understand importance Factors responsible for the outbreak of First World War (1914-18) – Results – Treaty of Versailles – Its Provisions and Consequences; Russian Revolution (1917) – Causes – The role of Lenin – Results; League of Nations (1920) – Its Achievements and Failures
		CO-03	Students gain the knowledge Europe between World Wars: Turkey under Mustafa Kamal Pasha - The Great Economic Depression and its Impact - Mussolini and the Rise of Fascism in Italy - Hitler and Nazism in Germany - Militarism in Japan.
		CO-04	Students understand knowledge of Second World War – Causes and Results; Establishment of United Nations Organization (1945) – Its Aims and Achievements; Cold War and Its Impact.
		CO-05	Students known about Colonization of Asia - India and China under Colonial Rule, Role of Gandhi in Indian National Movement (1920-1947); Sun-Yat-Sen and His Ideas; Role of MaoTse-Tung in Chinese Revolution – 1949.

	Final Year Semester - VI Islamic History and Culture (Ris	CO-01	Students understand importance The Advent of Abbasids – Al-Saffah and Al-Mansur Al-Mahdi - Re

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Sl. No.	Paper Title & Code	Co Number	Course Outcome
	Semester - VI Introduction to Indian Art and Architecture Discipline Specific Elective - Paper - II (C)	CO-01	Students understand importance Introduction to Art and Architecture - Pre-Historic and Proto-Historic Art – Harappan Arts and Crafts - Indian Art and Architecture (c.600 BCE-1200 CE) – Major Developments in Stupa and Cave architecture - Temple Art & Architecture – Early Indian Sculpture – Style and Iconography – Early Illustrated Manuscripts and Mural Painting Traditions - Numismatic Art.
		CO-02	Students known information Indian Art & Architecture (c.1200 CE-1800 CE) - Sultanate and Mughal Architecture – Miniature Painting Traditions – Mughal – Rajasthani – Pahari - Introduction to Fort – Palace - Haveli Architecture.
		CO-03	Students gain information of South Indian Art & Architecture – Unique Features – Satavahana, Pallava, Chalukyan, Hoyasala.
		CO-04	Students understand importance Art & Architecture under Kakatiya, Vijayanagara, Bahmani and Qutb Shahis – Amaravathi, Mahabalipuram, Badami, Warangal, Hampi, Gulbarga and Hyderabad – Influence of Islam on Indian Art & Architecture.
		CO-05	Students know importance of Modern and Contemporary Indian Art & Architecture - Colonial Period – Art Movements – Bengal School of Art – Progressive Artists Group, etc. – Major Artists and Their Art Works – Popular Art Forms (Folk Art Traditions) - IndoEuropean architecture

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Sl. No.	Paper Title & Code	Co Number	Course Outcome
	History of India (1526-1857 CE) Discipline Specific Course - Paper – III IInd Year Semester - III	CO-01	Students understand importance of Establishment of Mughal Dynasty - Sources Shershah Sur and His Reforms - Brief Survey of Political History of Mughals Akbar, Shah Jahan and Aurangzeb - Polity - Administration Society Economy Technological Developments - Religion Hindu-Muslim Relations Emergence of Composite Culture Education Language and Literature Art and Architecture - Disintegration of Mughal Empire.
		CO-02	Student gained information of Rise of Regional Powers - Marathas Shivaji and His Administration Peshwas - Sikhs.
		CO-03	Students Advent of European Powers - Portuguese, Dutch, English and French, Anglo- French Rivalry - Expansion and Consolidation of British Power We Subsidiary Alliance
		CO-04	Students understand importance Three Stages of Colonialism Mercantilism - Free Trade Policies Finance Capital - Land Revenue Settlements Cornwallis and Permanent Revenue Settlement; Thomas Munroe and Ryotwari; Mahalwari System Changes in the Agrarian Economy and Condition of Peasantry

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		CO-05	Students known information Decline of Rural Cottage Industries and Urban Handicrafts - Growth of Railways, Roads, Communication Modern Industries Coal Mines, Textiles, Iron and Steel, etc. - Anti-Colonial Upsurge - 1857 Revolt Nature, Causes and Results.

Sl. No.	Paper Title & Code	Co Number	Course Outcome
	World History (1815-1950 CE) B.A. Final Year Semester - VI Discipline Specific Course - Paper – VI	CO-01	Known information of Congress of Vienna (1815) – Principles and Impact; Metternich and his System – 1830 and 1848 French Revolutions: Unification of Italy – Role of Joseph Mazzini, Count Cavour and Garibaldi; Unification of Germany – Role of Bismarck; Significance of the Unification Movements.
		CO-02	Students understand importance Factors responsible for the outbreak of First World War (1914-18) – Results – Treaty of Versailles – Its Provisions and Consequences; Russian Revolution (1917) – Causes – The role of Lenin – Results; League of Nations (1920) – Its Achievements and Failures.
		CO-03	Students understand importance Europe between World Wars: Turkey under Mustafa Kamal Pasha - The Great Economic Depression and its Impact - Mussolini and the Rise of Fascism in Italy -

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			Hitler and Nazism in Germany - Militarism in Japan.
		CO-04	Known the importance of Second World War – Causes and Results; Establishment of United Nations Organization (1945) – Its Aims and Achievements; Cold War and Its Impact.
		CO-05	Students understand importance Colonization of Asia - India and China under Colonial Rule, Role of Gandhi in Indian National Movement (1920-1947); Sun-Yat-Sen and His Ideas; Role of Mao-Tse-Tung in Chinese Revolution – 1949.

Sl. No.	Paper Title & Code	Co Number	Course Outcome
	History of Telangana (1724-2014 CE) Discipline Specific Elective - Paper - II (A) B.A. Final Year Semester - VI	CO-01	Students understand importance Foundation of Asaf Jahi Dynasty – Nizam-ul-Mulk to Mir Mahaboob Ali Khan – Nizam- British Relations – Salarjung Reforms - Modernization of Hyderabad – 1857 Revolt and Adivasi Rebellion – Ramji Gond – Rekapalli Revolt - The Rule of Mir Osman Ali Khan – Agriculture, Irrigation, Modern Industries and Economic Development – Coal Mines, Railways, Roads, Posts and Telegraph – Educational Reforms – Osmania University – Public Health.
		CO-02	Student knowledge about Social, Cultural and Political Awakening in Telangana – Press, Journalism and Library Movements – Arya Samaj and Its Activities – Ittehad-ul-Muslimeen – Bhagya Reddy Verma and Dalit Movements - The Role of Andhra Maha Sabha – Hyderabad State Congress – Political Developments in Hyderabad State – Administrative and Constitutional Reforms – Mulki-Non-Mulki Issue 1930 – Vandemataram

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			Movement – Communist Party and Its Activities – Andhra Mahila Sabha and Women's Movement.
		CO-03	Student know information about Anti-Nizam and Anti-Feudal Struggles – Telangana Peasants Armed Struggle 1946-51 – Revolt by Kumaram Bheem – Razakars and Their Activities – Police Action, 1948 – Formation of Popular Ministry in 1952 – Assertion of Mulki Identity and the City College Incident 1952 – Merger of Telangana and the Formation of Andhra Pradesh 1956.
		CO-04	Known information of Discrimination, Dissent and Protest – Violation of Gentlemen's Agreement – Agitation for Separate Telangana State: Formation of Telangana Praja Samithi – Role of Intellectuals, Students and Employees in 1969 Movement.
		CO-05	Students understand importance second Phase Movement for Separate Telangana – Formation of Various Associations – Telangana Aikhya Vedika – Telangana Jana Sabha - Telangana Rashtra Samithi 2001 - Role of Osmania and Kakatiya University Students and Others - Formation of Telangana Political Joint Action Committee and Its Role in the Movement - Mass Mobilization – Sakala Janula Samme – Million March – Sagara Haram, Chalo Assembly – Sri Krishna Committee and Its Recommendations – December 2009 Declaration and Later Developments - The Formation of Telangana State, June 2014.

Sl. No.	Paper Title & Code	Co Number	Course Outcome
	Islamic History and Culture (Rise of Abbasids to Crusades) Discipline Specific Elective - Paper - II (B) Final Year	CO-01	Students understand importance The Advent of Abbasids – Al-Saffah and Al-Mansur Al-Mahdi-Revolt-in Khurasan – Byzantine Raid-Al-Hasi – his Achievements – Haroon-Al-Rasheed-His

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	Semester - VI		Political and Neo-Political Achievements – Rise and fall of Baramkids – Estimate of Haroon – Al-Rasheed's Character.
		CO-02	Students understand Al-Amin – Civil War between Al-Amin and Al-Mamun-Achievements of Al-Mamun-later Khalifa of Abbasid Dynasty-Al-Mustas – War with the Byzantine Empire-Revolt of Tabaristan – the Buwaids – Azad-ud-Daula – the Seljuqs – Malekshah.
		C0-03	Students gain knowledge The Crusades – Causes – Course of Crusades – Imaduddin – Zengi-Nuruddin – Mahmud – The Results of Crusades – Fall of Abbasid Dynasty.
		CO-04	Students know about The Abbasid State – Political and Military system – Judicial Reforms – Education – Socio-Economic Conditions – Growth of Arts and Architecture under Abbasids – Significance of Scientific Spirit.
		CO-05	Students understand importance The Ummayads in Spain – Abdur – Rahman – Hisham I-War with the franks – Cultural progress in Muslim Spain – Fatimids of Egypt-Al-Mahsi-Al-Qaim-Al-Fal of Fatimids (1171 C.E.) – Administration and Society under Fatimids.

Sl. No.	Paper Title & Code	Co Number	Course Outcome
	Introduction to Indian Art and Architecture Discipline Specific Elective - Paper - II (C) Final Year Semester - VI	CO-01	Acquire knowledge about Art and Architecture - Pre-Historic and Proto-Historic Art – Harappan Arts and Crafts - Indian Art and Architecture (c.600 BCE-1200 CE) – Major Developments in Stupa and Cave architecture - Temple Art & Architecture –

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			Early Indian Sculpture – Style and Iconography – Early Illustrated Manuscripts and Mural Painting Traditions - Numismatic Art.
		CO-02	Students understand greatness of Indian Art & Architecture (c.1200 CE-1800 CE) - Sultanate and Mughal Architecture – Miniature Painting Traditions – Mughal – Rajasthani – Pahari - Introduction to Fort – Palace - Haveli Architecture.
		CO-03	Acquire knowledge about South Indian Art & Architecture – Unique Features – Satavahana, Pallava, Chalukyan, Hoyasala.
		CO-04	Students known about Art & Architecture under Kakatiya, Vijayanagara, Bahmani and Qutb Shahis – Amaravathi, Mahabalipuram, Badami, CO-Warangal, Hampi, Gulbarga and Hyderabad – Influence of Islam on Indian Art & Architecture.
		CO-05	Acquire knowledge about Modern and Contemporary Indian Art & Architecture - Colonial Period – Art Movements – Bengal School of Art – Progressive Artists Group, etc. – Major Artists and Their Art Works – Popular Art Forms (Folk Art Traditions) - Indo-European architecture.

Sl. No.	Paper Title & Code	Co Number	Course Outcome
	World History (1453-1815 CE) Discipline Specific Course – Paper – V B.A. Final Year Semester - V	CO-01	Students understand importance Fall of Constantinople (1453 C.E.) – Beginning of Modern Age in Europe – Geographical Discoveries and Scientific Inventions and their impact on Society – Rise of New Ideas – Spirit of Humanism – Renaissance – Meaning-Causes and Results – Impact of Renaissance on Europe.

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		CO-02	Acquire knowledge about Reformation Movement – Causes – Martin Luther, John Calvin and Zwingli; Counter Reformation Movement and Ignatius Loyola – Results of Reformation and Counter Reformation.
		CO-03	Students known information Emergence of Nation States – Causes – Spain – Charles V; England – Henry VIII - Glorious Revolution (1688); France under Bourbons – Louis XIV; Era of Enlightened Despotism – Peter the Great and his Policies – Frederick the Great and his Achievements.
		CO-04	Acquire knowledge about End of Feudalism – Industrial Revolution – Causes for Industrialization in England and Europe – Textile Industry – Working Class Movement.
		CO-05	Students understand importance American War of Independence (1776) – French Revolution (1789) – Causes, Course, Results and its Impact. Factors for the Rise of Napoleon – Domestic and Foreign Policies – Fall of Napoleon.

Sl. No.	Paper Title & Code	CO Number	Course Outcomes
		CO-01	Acquire knowledge about Foundation of Asaf Jahi Dynasty – Nizam-ul-Mulk to Mir Mahaboob Ali Khan – NizamBritish Relations – Salarjung Reforms - Modernization of Hyderabad – 1857 Revolt and Adivasi Rebellion – Ramji Gond – Rekapalli Revolt - The Rule of Mir Osman Ali Khan – Agriculture, Irrigation, Modern Industries and

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	B.A. Final Year Semester - VI History of Telangana (1724-2014 CE) Discipline Specific Elective - Paper - II (A)		Economic Development – Coal Mines, Railways, Roads, Posts and Telegraph – Educational Reforms – OsmaniaUniversity - Public Health
		CO-02	Social, Cultural and Political Awakening in Telangana – Press, Journalism and Library Movements – Arya Samaj and Its Activities – Ittehad-ul-Muslimeen – Bhagya Reddy Verma and Dalit Movements - The Role of Andhra Maha Sabha – Hyderabad State Congress – Political Developments in Hyderabad State – Administrative and Constitutional Reforms – Mulki-Non-Mulki Issue 1930 – Vandemataram Movement – Communist Party and Its Activities – Andhra Mahila Sabha and Women's Movement.
		CO-03	Students to achieve knowledge Anti-Nizam and Anti-Feudal Struggles – Telangana Peasants Armed Struggle 1946-51 – Revolt by Kumaram Bheem – Razakars and Their Activities – Police Action, 1948 – Formation of Popular Ministry in 1952 – Assertion of Mulki Identity and the City College Incident 1952 – Merger of Telangana and the Formation of Andhra Pradesh 1956.
		CO-04	Students known importance of Discrimination, Dissent and Protest – Violation of Gentlemen's Agreement – Agitation for Separate Telangana State: Formation of Telangana Praja Samithi – Role of Intellectuals, Students and Employees in 1969 Movement
		CO-05	Students to achieve knowledge second Phase Movement for Separate Telangana – **Formation** of Various Associations – Telangana Aikhya Vedika – Telangana Jana Sabha - Telangana Rashtra Samithi 2001 - Role of Osmania and Kakatiya University Students and Others - Formation of Telangana Political Joint Action Committee and Its Role in the Movement - Mass Mobilization – Sakala Janula Samme – Million March – Sagara Haram, Chalo Assembly – Sri Krishna Committee and Its Recommendations – December 2009 Declaration and Later Developments - The Formation of Telangana State, June 2014

Sl.	Paper Title & Code	CO	Course Outcomes

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No.		Number	
	B.A. Final Year Semester - VI History of Telangana (1724-2014 CE) Discipline Specific Elective - Paper - II (A)	CO-01	Students to achieve knowledge Foundation of Asaf Jahi Dynasty – Nizam-ul-Mulk to Mir Mahaboob Ali Khan – NizamBritish Relations – Salarjung Reforms - Modernization of Hyderabad – 1857 Revolt and Adivasi Rebellion – Ramji Gond – Rekapalli Revolt - The Rule of Mir Osman Ali Khan – Agriculture, Irrigation, Modern Industries and Economic Development – Coal Mines, Railways, Roads, Posts and Telegraph – Educational Reforms – OsmaniaUniversity - Public Health
		CO-02	Students to achieve knowledge Social, Cultural and Political Awakening in Telangana – Press, Journalism and Library Movements – Arya Samaj and Its Activities – Ittehad-ul-Muslimeen – Bhagya Reddy Verma and Dalit Movements - The Role of Andhra Maha Sabha – Hyderabad State Congress – Political Developments in Hyderabad State – Administrative and Constitutional Reforms – Mulki-Non-Mulki Issue 1930 – Vandemataram Movement – Communist Party and Its Activities – Andhra Mahila Sabha and Women's Movement.
		CO-03	Students to achieve knowledge Anti-Nizam and Anti-Feudal Struggles – Telangana Peasants Armed Struggle 1946-51 – Revolt by Kumaram Bheem – Razakars and Their Activities – Police Action, 1948 – Formation of Popular Ministry in 1952 – Assertion of Mulki Identity and the City College Incident 1952 – Merger of Telangana and the Formation of Andhra Pradesh 1956.
		CO-04	Students known importance of Discrimination, Dissent and Protest – Violation of Gentlemen's Agreement – Agitation for Separate Telangana State: Formation of Telangana Praja Samithi – Role of Intellectuals, Students and Employees in 1969 Movement
		CO-05	Students knowledge about Second Phase Movement for Separate Telangana – Students to achieve knowledge Formation of Various Associations – Telangana Aikhya Vedika – Telangana Jana Sabha - Telangana Rashtra Samithi 2001 - Role of Osmania and Kakatiya University

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			Students and Others - Formation of Telangana Political Joint Action Committee and Its Role in the Movement - Mass Mobilization – Sakala Janula Samme – Million March – Sagara Haram, Chalo Assembly – Sri Krishna Committee and Its Recommendations – December 2009 Declaration and Later Developments - The Formation of Telangana State, June 2014

Sl. No.	Paper Title & Code	CO Number	Course Outcomes
	Final Year Semester - VI Islamic History and Culture (Rise of Abbasids to Crusades) Discipline Specific Elective - Paper - II (B)	CO-01	Student Understanding The Advent of Abbasids – Al-Saffah and Al-Mansur Al-Mahdi-Revolt-in Khurasan – Byzantine Raid-Al-Hasi – his Achievements – Haroon-Al-Rasheed-His Political and Neo-Political Achievements – Rise and fall of Baramkids – Estimate of Haroon – Al-Rasheed's Character.
		CO-02	Students known importance of Al-Amin – Civil War between Al-Amin and Al-Mamun-Achievements of AlMamun-later Khalifa of Abbasid Dynasty-Al-Mustas – War with the Byzantine Empire-Revolt of Tabaristan – the Buwaids – Azad-ud-Daula – the Seljuqs – Malekshah.
		CO-03	Students to achieve knowledge The Crusades – Causes – Course of Crusades – Imaduddin – Zengi-Nuruddin – Mahmud – The Results of Crusades – Fall of Abbasid Dynasty.
		CO-04	Students Acquire knowledge about The Abbasid State – Political and Military system – Judicial Reforms – Education – Socio-Economic Conditions – Growth of Arts and Architecture under Abbasids – Significance of Scientific Spirit.
		CO-05	Students known importance of The Ummayads in Spain – Abdur – Rahman – Hisham I-War with the franks – Cultural progress in Muslim Spain – Fatimids of Egypt-Al-Mahsi-Al-Qaim-Al-Fal of

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			Fatimids (1171 C.E.) – Administration and Society under Fatimids

Sl. No.	Paper Title & Code	Co Number	Course Outcome
	Semester - VI Introduction to Indian Art and Architecture Discipline Specific Elective - Paper - II (C)	CO-01	Understanding of Salient Features of Art and Architecture - Pre-Historic and Proto-Historic Art – Harappan Arts and Crafts - Indian Art and Architecture (c.600 BCE-1200 CE) – Major Developments in Stupa and Cave architecture - Temple Art & Architecture – Early Indian Sculpture – Style and Iconography – Early Illustrated Manuscripts and Mural Painting Traditions - Numismatic Art.
		CO-02	Students to achieve knowledge Indian Art & Architecture (c.1200 CE-1800 CE) - Sultanate and Mughal Architecture – Miniature Painting Traditions – Mughal – Rajasthani – Pahari - Introduction to Fort – Palace - Haveli Architecture.
		CO-03	Students gain knowledge of South Indian Art & Architecture – Unique Features – Satavahana, Pallava, Chalukyan, Hoyasala.
		CO-04	Students known importance of Art & Architecture under Kakatiya, Vijayanagara, Bahmani and Qutb Shahis – Amaravathi, Mahabalipuram, Badami, Warangal, Hampi, Gulbarga and Hyderabad – Influence of Islam on Indian Art & Architecture.
		CO-05	Students understand importance of Modern and Contemporary Indian Art & Architecture - Colonial Period – Art Movements – Bengal School of Art – Progressive Artists Group, etc. – Major Artists and Their Art Works – Popular Art

			Forms (Folk Art Traditions) - IndoEuropean architecture

Department of Economics - Course out comes			
S.No	paper Title & Code	Co-Number	Course out comes
1	Semester-I Micro Economics paper -I	Co-01	Student learns nature of the micro economics subject like wealth,welfare,security of Economics definations and also choice on economic problem.
		Co-02	Student known as consumal behaviour for example consumer is rationalist consumer can buy more utility of commodity and aslo he can with consumer surplus
		Co-03	He knows what is the defination of demand and importance of demand in the economic system.
		Co-04	student learns concept of supply,seller can sell more price of commodity in the market.
		Co-05	producer can produce least cost of commodity and higher price can he sell.ultimatly ultimately students learn how to production of producer of commodities

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S.No	paper Title & Code	Co-Number	Course out comes
2	semester II Micro Economics - II	C0-1	Students learns cost and revenue analysis. Producer can prdocue commodities with how much cost and he can returns how much revenue can sell the quantitity.
		CO-2	Market structure, what is the meaning of market clarification of market overall student learn about market in the economy system .
		C0-3	Students knows classification of market, perfect competition of maket, imperfect competition of market
		C0-4	Concept of marginal productivity what are the factors of production student improve the knowledge about the production.
		C0-5	what are the returns of factors of production like wage,rent,interest and profit student knows about there in the economy system.

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S.No	paper Title & Code	Co-Number	Course out comes
3	semester III Macro Economics paper-III	C0-1	Student knows mearning, nature and scope of macro Economics.National income,concept of national income in the macro economics.
		CO-2	Student learns empoyment theories in the economics how to get employment in the economic system and also he learns investment.
		C0-3	Money and theories of money,student learns functions of money supply and demand.purchasing power of money.
		C0-4	student knows what are the trade cycles in the economy and inflation, deflation,concept also.
		C0-5	what is the rule of banking in the economy system.functions of banks and also stock markets.

S.No	paper Title & Code	Co-Number	Course out comes
4	semester -IV Public Finance and International	Co-Number 1	Student learns what is the defination of pulic finance in the economy.

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	Trade	Co-Number 2	Student knows source of public revenve.meaning of the revenve and also about taxes.
		Co-Number 3	Student knows public expendutere how to expenditure for the people welfare and how to get public de
		Co-Number 4	International Trade importance in the economy system.what are the exports and imports student understood.
		Co-Number 5	Student learnswhat are the balance of payments in the international trade.and also trade,exchange rates.
		Co-Number	Course out comes
		C0-1	student knows structer and planning of the indian economy and also students knows ecomic growth,development planning etc.
		CO-2	Student learns national income,poverty and unemployment in the economy system.what are the eradication of poverty and unempolyment in nthe society.
		C0-3	what is agriculture which factors are concern with agriculture,importance of agriculture ,food security in the country and also student learn importance of industry in the country.

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		C0-4	meaning of service sector and industrial polices,problems of industry,banking insurance information technology and communication student learns above those.

S.No	paper Title & Code	Co-Number	Course out comes
6	semester-V Economics of development and Infrastructure paper-II	C0-1	Economic Growth and development in dex of Economic development and also student knows components of humman development.
		CO-2	Students learns characters of undevelopment Economies,demography.
		C0-3	Theories of Economic develoment ,NURKES,Hershman,Lewis,Shumpetes Economists.Student learns Economic development therioes.
		C0-4	student learns infra structure and economic development health education energy and transporation.

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		Co-Number	Course out comes
		CO-1	Stuent learns Telangana Economy,what is the Telangana Economy,Components of Telangana Economy,human Resources.
		CO-2	Telangana GSDP,Unempolyment povertyand employment generations programmes in Telangana student learns above those.
		C0-3	Stuent learns Telangana agriculture system water souce,mission Kakatiya,Mission Bagiradha,Irrigation Projects ,Cropping pattern
		C0-4	Student knows Telangana Industrial and service sector industrial policy of Telangana.Telangana infrastructure transparts, Energy,communication

S.No	**paper Title & Code**	**Co-Number**	**Course out comes**
8	Semester -VI Agricultural Economics Paper-II	C0-1	meaning Agricultural Development,Nature and Scope of Agricultural Economics what is the relation between agricultural and industry student learns those above.
		CO-2	student learns meaning of land reforms law less labour,gander discrimination in the wages.

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		C0-3	student knows agriculture production and productivity and also green revulation
		C0-4	Student try to understood diversitication of agricultural Economic activities and also agricultural marketing
		Co-Number	Course out comes
		C0-1	Student learns defination concept of Ecology and Environment.
		CO-2	Student knows problems of resource allocation.
		C0-3	Impact of environment an GNP and development Vs sustainable development student learns above those.
		C0-4	Industrial and agricultural technology,global environment issues.student knows above those.
		Co-Number	Course out comes
		Co-Number 1	Student learns fundamentals of computers like Input -Output devices ,CPU,RAM,Etc.

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		Co-Number 2	word Processing with MS-word,MS-Excel Main menu,copy cut and paste,printing adocument above those student learning.

DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS

COURSE OUTCOMES

S.NO.	PAPER TITLE &	CO	COURSE OUTCOMES

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	PAPER CODE	NUMBER	
1	**FUNDAMENTAL OF INFORMATION TECHNOLOGY** **&** **DSC 103**	CO1	Students are able to understand Basic concepts and terminology of fundamental information technology. Personal computers and their operations. The history of computers. Computer and basic concepts of computer and they identify the I/O devices and its functions. Finally students gain knowledge of computer equipment, including both hardware and software.
		CO2	
		CO3	Students aware about types of software's. Study and enhance software skills. They gain knowledge about programming languages.
		C04	Students able to know about functions and services of operating system
		C05	Students can understand the networks and network deceives. They will be able to know communications process and the understand the security issues
2	**COMPUTER PROGRAMMING IN C & C++** **&** **DSC 203**	CO1	The student knows about history of c language. Understand the preparation of algorithm and flowchart with programming environment with c program structure, declaration of variables and constants, predefined data types, understand operators, expressions and preprocessors.
		CO2	Students gains knowledge of Control structures (conditional sentences and loops)
		CO3	Students can design programs using functions, arrays and strings. Will be work with arrays of complex objects.
		CO4	Students can design programs using pointers, structures and unions in C language.
		CO5	Students understand the OOPs concepts and differentiate between structure oriented programming and object oriented programming. An ability to use template classes and the STL library in C++

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3	**PROGRAMMING WITH C** **&** **BC206**	CO1	The student knows about history of C language. Understand the preparation of algorithm and flowchart of program. Be familiar with programming environment with C program Structure, Declaration of Variables and Constants, Predefined Data types.
		CO2	Understand Operators, Expressions and Preprocessors. Students can design programs using Functions.
		CO3	Students can design programs using Arrays and Strings. Understand arrays, its declaration and uses will be work with arrays of complex objects.
		C04	Students can design programs using Pointers, Structures and Unions in C language.
		C05	Students can design programs using p I/O Operations (Put(), Get(), Putchar(), Getchar()).
4	**COMPUTERIZED ACCOUNTING** **&** **BC506**	CO1	Students learn to enthusiasm to learn creating their companies for practice. Describe the basic concepts of accounting about revenue, expense, assets.
		CO2	They understand the beauty of the computerized accounting they create their account related manual like stock information and liability and equity.
		CO3	Students can easily create balance sheets, acquire competency to enter accounting transactions in the accounting software and have the capability of generating different accounting reports/documents.
		CO4	Make cost analysis reports, profit & loss accounts, and cash flow statements, preparation of stores legers etc.
		C05	Students can gains the knowledge tax, and enter all the business transactions in computerized accounting system efficiently.
5	**E-COMMERCE** **&**	CO1	Student should able to understand the basic concepts and technologies used in the field of management Electronic commerce. Be aware of the ethical, E-marketing - E- advertising social, and security issues e-com.

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	BC507	CO2	Describe E-banking, mobile commerce, E-trading, E-learning, E-shopping. The process of selling and marketing on web. Understand the processes of developing and implementing information systems;
		CO3	Students can ability to understand the connections and configurations TCP/IP, HTTP, SECURED HTTP, SMTP – SSL. At same time they practice to create website.
		CO4	Enlightenment of the topic Private key - digital signatures - digital certificates.
		CO5	Easily understand the methodologies of E-marketing techniques, e- business.
6	**OBJECT ORIENTED PROGRAMMING WITH C++ & BC508**	CO1	Students can understand the procedural and Object Oriented paradigm with concepts of Streams, Classes, Functions, Data and objects. Understand dynamic memory management techniques.
		CO2	Understanding of the concepts of Function ,Inheritance, using Pointers, Constructors, Destructors, etc and Polymorphism , overload Operators in C++
		CO3	An understanding of the difference between function Overloading and function Overriding
		CO4	An ability to incorporate Exception handling in object-oriented programs
		CO5	An ability to write object-oriented programs of moderate complexity in C++
7	**COMMERCE LAB & BC606**	CO1	Students will be understanding basic business documents; they can design and fill the documents easily.
		CO2	Students grip about banking, insurance and finance related all the forms.
		CO3	Students can able to understand the various business documents and their responsibilities.
		CO4	Students acquire the knowledge about documents of taxation, they can easily find the act., and services.
		CO5	Student gains the knowledge charts, models, classifications and their organizing.

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8	**WEB TECHNOLOGIES** **&** **BC607**	CO1	Explain the history of the internet and related internet concepts that are vital in understanding web development. the insights of internet programming and implement complete application over the web. Utilize the concepts of java script and java and identify the environments currently available on the market to design web sites.
		CO2	Demonstrate the important html tags for designing static pages and separate design from content using cascading style sheet
		CO3	Students will be able to write a server side java application called JSP to catch form data sent from client and store it on database. Students are able to develop a dynamic webpage by the use of java script and DHTML.
		CO4	Students will be able to write a server side java application on mouse move - on mouse out –on mouse over - on move - onrest – onresize - onselect - on submit - onunload.
		CO5	Use web application development software tools i.e. XML etc. Students will be able to write a well formed / valid XML document
9	**RELATIONAL DATABASE MANAGEMENT SYSTEMS** **&** **BC608**	CO1	Explain the features of database management systems and relational database. Design conceptual models of a database using ER- modeling define database system concepts
		CO2	To analyze the existing design of a database schema and apply concepts of normalization to design an optimal database
		CO3	Students be familiar with the relational Database theory, and be able to write Relational algebra expressions for high level query. Implement basic DDL, DML and DCL commands
		CO4	Build, join, indexing, hash, group by mechanisms for efficient retrieval of information from a database.
		CO5	Discuss advanced database technologies and products used in enterprise. Different types of databases such as object oriented and distributed databases

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10	**PROGRAMMING WITH C** **&** **BSCs & BZCA Paper - I**	CO1	Students are able to understand Personal computers and their operations. The history of computers. Identify the i/o devices and its functions. History of c language. Understand the preparation of algorithm, flowchart of the program and environment with c program structure, declaration of variables and constants, predefined data types, operators.
		CO2	Students acquire the knowledge about decision of looping, branching, arrays and its types. Design the programs.
		CO3	Students will analyze functions. Demonstrate practical programs.
		CO4	The knowledge about of pointers and memory allocation. User defined data types, file management of advantages.
11	**COMPUTER PROGRAMMING IN C++** **&** **BSCs & BZCA Paper- II**	CO1	Students aware the knowledge about basic concepts of C++ (tokens, data types etc.,) Students able to be familiar with object oriented programming environment. Differentiate between structure oriented programming and object oriented programming.
		CO2	Students will understand the concepts of oops classes, functions, constructors, overloading and objects. Describes the programs by algorithm based on designed.
		CO3	Classify inheritance with the understanding of member class access, constructors and destructors in base and derived classes, function overloading, operator overloading, virtual functions, polymorphism and streams.
		CO4	Students will be learning to usage of exception handling, generic programming and templates. An ability to use template classes and the STL library in C++
	COMPUTER BASICS AND AUTOMATION **&** **SEC-I**	CO1	Understand the history of computers. Computer and basic concepts of computer. Aware about various types of computers, types of input and output devices.

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13		CO2	Students able to do the ms- office tasks internet access and their maintains.
14	**DATA BASE MANAGEMENT SYSTEM** **&** **DSC 1C** **Bsc & BA Paper – III**	CO1	Students can understand the concept main concept of DBMS, they gains knowledge about relational models. .design and implement a database schema for given problem
		CO2	Design conceptual models of a database using ER modeling for real life applications and also construct queries in relational algebra
		CO3	Students will understand database implementations. Formulate queries using SQL DML/DDL/DCL commands. They gains practical knowledge
		CO4	Students will be demonstrating the intermediate SQL query knowledge at the same thing in practical.
15	**MULTIMEDIA AND APPLICATIONS** **&** **SEC-II**	CO1	Developed understanding of technical aspect of multimedia systems.
		CO2	Understand various file formats for audio, video and text media
16	**DESIGN AND ANALYSIS OF ALGORITHMS** **&** **DSC 1D** **BSCs Paper - IV**	CO1	Analyze algorithms and improve the efficiency of Algorithm, understand different algorithmic design strategies different designing methods for development of algorithms realistic problems, such as divide and conquer, greedy method and etc.
		CO2	Ability to understand how the choice of data structures and the algorithm design methods impact the performance of programs. And describe the notations of P, NP, NP-complete, and NP- hard. Gains the practical knowledge.
		CO3	Construct minimal spanning trees and find shortest path between source and sink. Design the own algorithm to practical
		CO4	Analyze and estimate the performance of algorithm. BFS, DFS etc,. Learn the programs for real time problems solving.
	PROGRAMMING IN JAVA **&**	CO1	Students can understand the features of java, differences of C++ and java. Describes the control statements,

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17	**BSCs Paper - V**		looping, object, class etc,. Develop solutions for a range of problems using objects and classes.
		CO2	Grip the concepts of Constructor's Inheritance and Packages and demonstrate the implementation of constructors, destructors and operator overloading. Apply fundamental algorithmic problems including type casting, inheritance
		CO3	Students will demonstrate and evaluate exception, multithreading, input/output. Demonstrate understanding and use of different exception handling mechanisms and concept of multithreading for robust faster and efficient application development.
		CO4	To understand a typical applets, Event handling, AWT, database handling using JDBC. Identify and describe common abstract User Interface Components to design GUI in java using applet & AWT along with response to events.
18	**COMPUTER NETWORKS & BSCs Elective – 1(A)**	CO1	Explicate the functions of each layer in OSI and TCP/IP model. Explain the types of transmission media
		CO2	Become competent in data link layer.
		CO3	Students can command on data link protocols, multi-channel access protocols And IEEE 802 standards for LAN
		CO4	Students can understand the networks layers, describe routing and congestion networking and internetworking devices with routing algorithms.
19	**ELEMENTS OF SCRIPTING LANGUAGES & BSCs Paper - VI**	CO1	Learn the creation, design and maintains of Websites using the HTML tags. Gain the practical Knowledge.
		CO2	Understanding the Border elements and CSS features for design of websites. Practice the creations of WebPages.
		CO3	Describes the JavaScript and JavaScript Constructs of the web pages with handling. Students can understand how to design the WebPages using

			JavaScript. Grips the practical knowledge.
		CO4	Students can easily develop the Forms, Option Elements, Checkbox, etc,. Students can develop the WEBSITEs in lab practices timings.
20	**PHP with My SQL** **&** **BSCs Elective – 2(B)**	CO1	Describes the PHP and its applications. Practice the lab exercise
		CO2	Students can understand the uses of strings and functions.
		CO3	Interstate the learn the Objects and Handling HTML forms with PHP.
		CO4	Describe the important databases and MySQL with PHP.
21	**COMPUTER FUNDAMENTALS** **&** **BS106** **BA (CA) Paper – I**	CO1	Students are able to understand the history of computers, basic concepts of computer. Aware about various types of computers, computer architecture, hardware and software and computer memories.
		CO2	Ability to understand types of input and output devices. Describes the knowledge of number system, binary codes and Boolean algebra to minimize logic expressions and represent numbers and perform arithmetic operations and logical gates. Learns difference of user and computer. The role of software's and its types.
		CO3	Describe the important computer system resources and the role of operating system in their management policies and algorithms. Grip the process management policies and scheduling of processes by CPU. They can understand preparation of algorithm, flowchart, Pseudo code of program paradigm. Learn computer networks, its types and basics of internet
		CO4	Students will evaluate information systems important; analyze software vulnerabilities and attacks on databases and operating systems, latest emerging techniques in computer technologies.
	COMPUTER PROGRAMMING IN	CO1	Students are able to understand

22	**C & BS206 BA (CA) Paper – II**		Personal computers and their operations. The history of computers. Identify the i/o devices and its functions. History of c language. Understand the preparation of algorithm, flowchart of the program and environment with c program structure, declaration of variables and constants, predefined data types, operators.
		CO2	Students acquire the knowledge about decision of looping, branching, arrays and its types. Design the programs.
		CO3	Students will analyze functions. Demonstrate practical programs.
		CO4	The knowledge about of pointers and memory allocation. User defined data types, file management of advantages.
23	**INTERNET TECHNOLOGIES & BS406 BA(CA) Paper – IV**	CO1	Design and develop the types of website, it's structure, site organization model, site planning and testing. Using html language creating the website. Design advanced website using CSS. Make the web pages more dynamic and interactive
		CO2	To understand the Java script through design to create structure of web page, to store the data in web document, and transport information in web. Implemented the creating the Web pages.
		CO3	Integrate java and server side scripting languages to develop web applications. Simultaneously students gain the practice their own ideas.
		CO4	Evaluate the XML, DTDS and DOM with practical knowledge
24	**MULTIMEDIA SYSTEMS AND APPLICATIONS & BS505 BA (CA) - V**	CO1	To understanding of technical aspect of multimedia systems like text, images and where we have to uses day-to-day life.
		CO2	Every enthusiasm to learn and practice the creation of sound, video and animation of the movies.
		CO3	Learn the stages of creating multimedia projects, how to uses internet applying

			multimedia on web.
25	**COMPUTER NETWORKS** **&** **BS508** **BA (CA) Elective – I (A)**	CO1	To understand THE TCP/IP AND OSI reference models layers and its functions, data communications and multiplexing.
		CO2	Evaluate and discovery the error detection and correction, data link control and switching.
		CO3	Describe the transport layer, upper OSI layers, and TCP/IP protocol suite.
26	**VISUAL PROGRAMMING** **&** **BS605** **BA (CA) Paper – VI**	CO1	Explain the methodology of VB programming, Environment, Controls and Variables, constants and calculation. Practice the programming applying the technical methodologies.
		CO2	Understand the basic concepts of modular programming, forms handling. Gains the practical knowledge.
		CO3	Develop the programs using arrays. Apply the knowledge of database connectivity. And discussing the advanced topics of VB. Interested to learn the new programs.
27	**PHP Programming** **&** **BS608** **BA (CA) Elective – 2 (C)**	CO1	Explain the PHP. Students can understand the using variables and operators. Applying the practical knowledge. Build web applications using PHP.
		CO2	Analyze working with arrays. Demonstrate the controlling program flow. Develop the programs related concepts .
		CO3	Students can develop simple web application using server side PHP programming and Database Connectivity using MySQL

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DEPARTMENT OF ENGLISH-COURSE OUTCOMES			
S.NO	**Paper Title**	**semester**	**Course Outcomes**
1	English for advancement	Semester-I	• To improve the students' fluency in English, through a well-developed vocabulary and enable them to listen to English spoken at normal conversational speed by educated English speakers and respond appropriately in different socio-cultural and professional contexts. • Further, they would be required to communicate their ideas relevantly and coherently in writing.
		Semester-II	• To prepare all the students for their placements. • Usage of correct English Language, written and spoken
	English for Accomplishment	Semester-III	• Enrichment of comprehension and fluency • Gaining Confidence in using language in varied situations • Better understanding of nuances of English language through audio- visual experience and group activities
1		Semester-IV	• Basics of phonetics and accent for accurate pronunciation • Speaking skills with clarity and confidence which in turn enhances their employability skills

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DEPARTMENT OF ZOOLOGY

PAPER 1 - ANIMAL DIVERSITY – INVERTEBRATES

PAPER TITLE AND CODE	Co-NUMBER	Outcomes
SEMESTER -I **Invertebrates –Phylum Protozoa & Porifera**	**CO - 1**	• **Invertebrates** are generally soft bodies animals that lack a grid internal Skelton for the attachment of muscles but often passes a hard outer skeleton that serves as well for body protection • **Protozoa** are unicellular eukaryotes as in all eukaryotes the nucleus is enclosed in a membrane and belonging to the kingdom Protista many of the most prevent and deadly human disease are caused by a protozoan infection, including African sleeping sickness, amoebic dysentery and malaria. • Porifera phylum has pore being multicellular animals the body has no organs the body is Radicully symmetrical and they can regenerate their lost parts.
Invertebrates –Phylum's Coelenterate, Platyhelminthes, Nemathelminthes,	**CO – 2**	• Nematocysts are the most distinguishing future of this phylum. Coelenterate don't have sensory organs respiratory and excretion accurse through simple diffusion. The circulatory system is absent • Some of the characteristics that distinguished the Organisms belonging to phylum Platyhelminthes from others are presence of the flame cells ladder like nervous system. Presence of parenchyma in the body Cavity and self fertilization. • Most of the species of nematodes like parasitic life, through a member of free living forms are also present. Body is elongated, cylindrical, unsegemented and vermiform
Invertebrates–Phylum's Annelids ,Arthopoda.	**co - 3**	• The Coeliac fluid of annelids plays a role in many important functions e-g: Locomotion and regulation of fluid transfer through the body wall (osmoregulation) • They have along and segmented body, by laterally symmetrical and triploblastic body covered with a thin cuticle and they are coelmet. • In order for the orthotropic to move in such a rigid body, it has numerous joints in it's exco-skeleton and they have open Circulstary system. • Arthropods contributes to human food

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		suply pollinate crops, hep maintain eco system sustainability by biologically Suppressing destructive arthropods but cause and transom diseases humans and live stock and incur crop losses
Invertebrates–Phylum's Mollusca, echinoderms&Hemichordata	**co – 4**	• Mollusca are among most diverse and abundant animals group, inhabitant many aquatic and Terrestrial environments they are important ecosystem engineers helping to structure aquatic bottom environments and providing habitat, protection and food to wide array of the other taxa • Mollusca's have evolved distinctive and highly successful body plan that features a mental, shell muscular foot and radula • Echinoderms are all possess five part radial cemetery around a central disc second they all possess very unique water vascular system this unique characteristics distinguished echinoderms from other animals in the animal kingdom • Hemichordate are deuterostome phylum the sister group of echinoderms and closely related to Chordates they have thus been used to gain insights into the origins of deuterostome and Chordates body plans

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S.No	Paper Title And Code	Co number	Course outcomes
1	PHYSIOLOGY & BIO CHEMISTRY	CO-01	➢ Digestion begins in the mouth, when you chew and swallow and is complete in the small intestine ➢ Break down large molecules of food into small molecules ➢ The body cells need a continuous supply of oxygen for the metabolic processes that are necessary to maintain life ➢ Circulatory system carries oxygen , nutrients and hormones to cells and remove waste products like CO2
		CO-02	➢ The Excretory system is responsible for the elimination of waste produced by homeostatic ➢ Muscular system is an organ system consisting of skeletal, smooth and cardiac muscles. It permits movement of the body ➢ The nervous system is a highly complex part of an animal that coordinates its action and sensory information by transmitting signals to and from different parts of its body
		CO-03	➢ The endocrine system is a network of glands that produce and release hormones that help control many important body functions ➢ Excess electrolytes and wastes that result from osmoregulation are transported to the kidneys and excreted ➢ Enzymes are biological catalysis. they are specialized proteins capable of catalyzing specific reaction in the cells ➢ Homeostasis is an organisms process of maintaining a stable internal environment suitable for sustaining life

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		CO-04	➢ Carbohydrates should be supplemented with proteins , vitamins and fats to be a part of well balanced diet ➢ Glycolysis the aerobic catabolic break down of glucose produce energy in the of ATP,NADH , pyruvate ➢ Proteins are bio molecules , consisting of one or more long chains of amino acid residues ➢ Its performance avast array of functions within ➢ Organisms, including catalysing metabolic reactions ,DNA replication, providing structure of cells , transporting molecules from one location to another ➢ Lipids are needed to protect and insulate our body .to keep our internal body temperature regular, there is a layer of fats just beneath the skin that made from lipids one of the main function of lipids do is storing energy.
2	SEMESTER- V ELECTIVE PAPER Applied zoology	CO-01	➢ Basic biology of aquatic living resources Aqua culture and fisheries practices for major species worldwide and locally ➢ Elements of water quality important to aquaculture ➢ Principles of health management for aquatic species ➢ Impact of aqua culture and fisheries in society ; the economy and the natural environment ➢ Fishing methods and technology. Principles of fisheries science and ecosystem based fisheries mangement
		CO-2	➢ Sericulture provides gain full employment economic development and improvement in the quality of life to the people in rural area and therefore it plays in important role in antipoverty programme and prevent migration of rural people to urban area in search of employment ➢ Sericulture plays a significant role in the rural economy of INDIA, is not bound to just worms, but includes all activities related to the silkculture like mulberry cultivation and even post –cocoon technology. ➢ Its offers career opportunity in GOVT research centres , silk boards, academic ➢ Fields, sericulture unite, Agriculture sector banks etc.

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		CO-03	➢ Apiculture is a process of keeping bees as well as manufacturing honey and bees wax ➢ It has positive ecological consequences ➢ Bees plays an important in pollination of many flowering plant. honey produced by apiculture is a delicious and highly nutritious food ➢ Vermi culture -using vermi culture is a great way to improve your organic fertilizer also known as worm management , vermin culture is an easy process that breaks down organic materials and produces castings that enhance your plans growth by providing trace elements ,enzymes and nutrients to the soil
		CO-04	➢ Poultry requires less investments compared to rearing other live stock. Broilers intake of feed is comparatively very low while it produces maximum possible amount of food for us ➢ Poultry farming is a continuous source of income. ➢ It provides us milk, eggs and meat ➢ Dairy technology graduates can find employment in the fields of milk collection , quality assurance , quality control and RD departments of milk processing sections of dairy industry ➢ Animal husbandry is the science of managing animal live stock. It involves feeding, breeding and controlling diseases in farm animals. It involves the rearing of animals like cattle poultry and fish to obtain desired products from them.

SEMESTER – IV PAPER IV - CELL & MOLECULAR BIOLOGY, GENETICS, EVOLUTION.

Paper Title and code	CO-Number	Out Comes
CELL BIOLOGY -1	1	• Studying cells helps us understand jow organisms function cellular components work together to carry out life function cellular process enable organisms to meet their basic needs. • As stated before animals calls eukaryote cells with a memberane – bound Nucleus further more these all exhibit the presence of dna inside of the nucleus • In cell biology an organelle is a specialized sub unit usually with in a cell that has a specific function the name organelle comes from the idea that these structure are parts of crll as organs are to the body hence organelle

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		the suffix-elle being a diminutive. • Cell division has there main functions ehich are reproduct • Chain of unicellular organisms and the production of gamate and growth in eukaryotes.
MOLECULAR BIOLOGY-2	2	• Dna countains the instructions needed for an organism to develop survive and reproduce to carry these function dna sequence must be converted into messages that can be used to produce proteins, which are the complex molecules that do most of the work in our bodies. • RNA is one of thr three major biological Macro-molecules thar are essential for all known forms of life the multiple copies of mRna are then used to translate the genetic code into protein through the action of the cells protein manufacturing machinery the ribosomes. • PCR is a laboratory technique used to make multiple copies of Alegment of dna. Pcr is very precise and can be used to amplify or copy a specific dna target from a miniature of dna molecules.
GENETICS-3	3	• Mendal discovered fhe fundamental laws of inheritance, he tracked the separation of parental genes and their appearance in the off spring sd demi-nant or recessive traits he recognised tha mathe-matial patterns of inheritance from on e generation to the next. • Mutation plays an important role in evolution because it creates a new DNA sequence for s particular gene creating s new allele. Recombination also csn create a new dna sequence for a specific gene through Intragenic recombination • Inbosm errors of metabolism srr raze genetic disorders in which the body cannot property turn food into enegry. Discovered are usually covered by defects in specific proteins they help breakdown parts of food.
EVOLUTION-4	UNIT - 4	• The theory of evolution is based on the idea and gradually change over time

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		evolution relies on there being genetic variation in a population ehich affects the physical characteristics of an organisms • There are five lines of evidence that support evolution the fossil record biogeography comparative anatomy comparative em biology and molecule biology. • Isolation play an important role in evolution it means thar organsims of the some species sre separated and happens when there us something between the organsims that they cant cross. That organsims become isolated as result of environmental change. • Extinction accurs when species are diminished because of environmental forces is habit fragmentation global change natural disaster, over explanation of species for human use.

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3	SEMESTER- VI IMMUNOLOGY AND ANIMAL BIO TECHNOLOGY	CO-1	➢ It is the study of the immune system and is a very important branch of the medical and biological science. The immune system protects us from infection though various lines of defence ➢ Antigens are molecules that trigger the production of anti bodies by including an immune response ➢ Antibodies help eliminate disease causing microbes from the body for instance by directly destroying them or by blocking them from infecting cells ➢ T cells and B cells are recognise specific non-self antigens, during a process known as anti presentation.

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		CO-2	➢ MHC- group of genes that code for protein found on the surface of cells that helps the immune system recognize foreign substances MHC proteins are found in all higher vertebrates ➢ Cytokines are produced by virtually all cells involved in innate and adaptive immunity ➢ Interferences are proteins that are made and released in response to pathogens like viruses , bacteria , parasites and cancer cells ➢ Humord immunity is mediated by antibody molecules that are secreted by plasma cells ➢ Neutralization by anti bodies is also important in preventing bacterial toxins from entering cells ➢ Cell mediate immune responses involved the destruction of infected cells by cytotoxic T-cells ➢ Hypersensitivity refers to undesirable reaction and produced by the normal immune system , including allergies and auto immunity
		CO-3	➢ Bio technology is use of biology to solve problems and make useful products the most prominent approach used in genetic engineering , which enables scientists to tallo an organisms DNA of will ➢ Cloning vectors are plasmids that are used primarily to propagate DNA. They replicate in E. coli to high copy numbers and contain a multiple cloning site with restictim sites used for inserting a DNA fragment ➢ Animal cell culture –these cullines help study the biology and origin of the cell. valuable biological date from large scale cell culture. Specific proteins can be synthesized in large quantities from genetically modified cells in large scale culture ➢ In cell culture technical cell or tissues are removed from a plant or an animal and introduced into a new, artificial environment that can support their survival and growth.
		CO-4	➢ Recombination DNA is widely used in biotechnology, medicine and researches .it is used to identity map and sequences and to determine their function ➢ Transgenesis is the process of introducing a gene

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			from one organisms into the genome of another organisms. The aim is that the resulting transgenic organism will expense the gene and exhibits some new properties or characteristics ➢ Stem cells represents an exciting area in medicine because of their potential to generate and repair damaged tissue. some current therapies, such as bone marrow transplantation, already make use of stem cells and their potential for representation of damaged tissues.
4	**SEMESTER-VI ELECTIVE PAPER Aquatic biology (elective)**	CO-1	➢ The aquatic biomes is the largest of all the biomes covering abet 75% of Earth`s surface. This biomes is usually divided into two categories. fresh water and marine ➢ Fresh water habitats include ponds ,lakes, rivers and streams. While marine habitats Include the ocean and salty water ➢ The first ,major distraction is between the pelagic and beneath zones. The pelagic zone refers to the water column ,where swimming and floating organisms live. The beneath zone refers the bottom and organisms living on and in the bottom are known as benthos. ➢ Coral reefs protect coast line from storms' and erosion, provide tube for local communities. They are also a source of food and new medicines.
		CO-2	➢ Lakes lie on land and are not part of the ocean and therefore are distinct from lagoons and are also larger and deeper than ponds. ➢ Lakes are the best available fresh water source on the earths surface. Lakes are valued as water sources and for fishing, water transport recreation and founder. ➢ The physico-chemical parameters such as water temperature, pH, dissolved oxygen,o2 saturation conductivity, salinity, secchidise depth, nitrate, nitrite, orto-phosphate, sulphate ,chloride ,total hardness, calcium and magnesium were analysed in the water samples. ➢ The nutrient cycle is a system where energy and matter are transformed between living organisms and non living parts of the environment . ➢ A stream is flow of water, driven by gravity in a natural channel , on land. A small book in a meadow and the Amazon river are both streams. Streams sculpt and shape the earth surface by crowding,

			transporting and depositing sediment areas.
		CO-3	➢ Salinity affects density-when salt is dissolved in fresh water, the density of the water increases because the maze of the water increases. ➢ Ocean water is ,more denser because of the salt in it increase in saline also increase the density of sea water ➢ A Continental shelf is a position of a continent that is submerged under an area of relatively shallow water known as a shelf sea. Much of these has been exposed during logical periods and integral periods. The self surroundings on islands is known as an insular shelf.
		CO-4	➢ These wastes have negative effects on human health. Different chemicals have different affects depending on their locations and kinds. Bacterial, viral and parasite diseases like typhoid, cholera, encephalitis ,poliomylites ,hepatitis , skin infection and galbomtesnna are spreading thought polluted water ➢ Eutro-phication can have serious effect , like blooms that block light from getting in to the water and harm the plants and animal that need ➢ BOD is an important water quality parameter because it provides on in day to asses the effect the discharge water will have on receiving environment depletion of do causes stress gauche organisms , making the environment unstable for life. ➢ CON – is a measure of water and waste water quality . the COD test often used to mentor water treatment plants effective. The COD is the amount of o2 consumed chemically oxygen organic water contaminants to inorganic and products.
5	**SEMESTER -II** **Ecology, Zoogeography and animal behaviour**	CO-1	➢ Ecosystem has structure and function. The structure is related to species diversity according to E.P odium . the ecosystem is the basic functional unit of organisms and their environment interchanging with each other the function of ecosystem is related to the energy flow . decomposition , nutrient cycling and major biomes ➢ However the biogeochemical cycles to function to converse and cycling the matter that is past of living organism. ➢ It is a loose association in which to animals are organised of different species live together without either being metabolically depend on the other

			although. One animal may receive some benefit called commensally but the other neither get benefit not harm from other.
		CO-2	➢ The biological species concept defines a species toxin as a group of organism that can success fully inter bread and produce fertile offspring ➢ Species are important because they represent on important level of interaction in living nature ➢ Change in an organism so that it is better able to survive or reproduce these by contributing to its fitness ➢ Environmental pollution is the inter production of different harmful pollutions into certain environment that makes they environment unhealthy to live in the most common pollutions are usually chemicals , garbage and waste water . ➢ Wild life helps in maintaining the belong of nature . killing of behaviours which in turn after the test verification , there this due to life of food in the forest there come out from the first to agriculture land destroy our crops
		CO-3	➢ Zoography the study of the geographical distributions of animals that at can be divided into served faunal regions separated by natural basses, such as oceans , deserts, and moment ranges ➢ Wallace line delineates Australian and south east Asian fauna the probable extent of land at the time of the last glacial maximum when the sea level was more then 110m (360ft) lower them today is shown in grey ➢ When continuity of distribution of a species is broken by uninvited area which are sometimes very large stretches of ocean ➢ Contributed drift large scale horizontal moments of continents relative to one another and to the ocean being during or more episodes of geologic time
		CO-4	➢ Innate behaviours are the behaviours that are in hereto and come with seconds birth while learned behaviours are the behaviours are acquired by experience leaned from outside environment ➢ Taxes are innate behaviour endpins a taxes differs from a tropisms are growth are turning moments in plants are sensible by a past of the body to a stimulus results help animals response quickly to a stimulus, thus protecting them from harm ➢ Social behaviours is behaviours among to for more

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			organized with in the same species and in composed may behaviour which are member afters to others ➢ In humans biological clocks coordinates the timing of behaviour (sleep, walk cycles, eating, activity mind etc)
6	**SEMESTER-III** **Animal diversity-vertebrates and development biology**	CO-1	➢ Urochordates précis a note cold a allow nerve cold and a oral tail. Body wholly enclosed in a tunic of secrete protein and callous like natural ➢ The lancelets are also called copho chordates because the chord extends from near the tip of the tail to well into the neither of the body ➢ Cyclostomes are considered to be the only living vertebrates without true jaws and are thus called Anglia their are parricides are scavenges on fishes in the adult stay ➢ In chordates four common features appear to some front during development a note chord a drool hollow never chord phasing slide and a post and tail ➢ Fishes water dwelling vertebrates that may have scales fins an thoughts with gill slide scoliodm is a cacti large fish it is called dogfish because it has highly developed since of small like dog
		CO-2	➢ Amphibians are small vertebrates that need water or a most environment to survive. All can breath and observe water through their very thin skin ➢ The simplest form of parental care is guarding or protection of eggs in eggs laying , or oviparous , species. ➢ The skin of reptiles is covered with scales or scutes. They have cold blooded metabolisms . most reptiles lay egg that eggs are called amanita eggs ➢ The reptiles are classified mainly on the structure of their skull in where there are tempered vacuities of fosses ➢ Rhynchcaphalia is an order of lizard are reptiles that includes only one living species , the tuatara of New-zeland

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		CO-3	➢ The main chacteristic of brood is feathers. No other animals has feathers other important features for birds are wings and hollow-bones. Birds also lay eggs and they are water blooded life mammals ➢ Birds migrate to move from areas of low or decreasing resources to areas of high or increasing resources. The two primary resources being sought are food and nesting local time ➢ Mammals evolved from a group of reptiles called synapses'. A branch of the synopsis' called the therapies appeared by the middle of the Permian period (275 to 225 mil. Years ago) it was over million of years that some of these therapies would evolve many features that would late be associated worth mammals ➢ Aquatic mammal have advantage of an adapted circulatory system these organisms have evolved a blood chemistry that allow them to retain more oxygen. ➢ The blubbered helps to keep them warm and improve their buoyancy in the water
		CO-4	➢ Spermatogenesis and cogenesis are both forms of game to genesis in which a diploid gamete cell produces helloed sperm and egg cells respectively. ➢ Gastrula ion leads to the formation of the three germs layers that give rise during further development the different organs in the animal body this processes is called organogenesis ➢ The placenta is a vital connecting organ between the material uterus and the foetus. It supports the development foetus , in uterus , by supplying nutrients , eliminating waste products of the foetus and enabling gas exchange via the maternal blood supply ➢ Regeneration is the natural process of replacing or restoring damaged or missing cells , tissues , organs and even entire body parts to full function in plants and animals . scientists are studying regeneration for it potential uses in medicine , such as cresting a variety of injuries diseases.

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DEPARTMENT OF PUBLIC ADMINISTRATION

COURSE OUTCOMES 2018-19

1ST BA SEMESTER-I

Sl.No	Paper Title & Code	Co-Number	Course Outcomes
1	Nature of public administration	01	The students understand the scope of public administration
2	Relationship with other social science	02	student improve the knowledge in public administration and theories concepts from multiple prospective
3	Oriental and classical approaches	03	The students to comprehend the changing paradigms of public administration how to implement the public administration thinkers developed the public policies
4	Human relations and behavior approaches	04	To acquaint with the various approaches concepts and principle of public administration
5	ecological and social justice approaches	05	The students appreciate the methodological class 10 and sanitizing nature of knowledge in public administration give the relevance of the psychological and organizations from students must be aware of blind implementation of approaches

Principal
(M. Swapna)

DEPARTMENT OF PUBLIC ADMINISTRATION

COURSE OUTCOMES 2018-19

1ST BA SEMESTER-II

Sl.No	Paper Title & Code	Co-Number	Course Outcomes
1	Comparative and development administration	01	The students appreciate nature scope and changing of public administration send understand the synthesizing nature of knowledge of public administration from public perspective
2	Emerging trends-I	02	Students grasp the administrative theory concepts and principles make sins of administrative prospective with emerging trends
3	Market theories	03	Public choice approach concepts and new public management in public administration the student understand the mark theories in public administration
4	Emerging trends-I	04	Students upset the function emerging issues in new state of Telangana in The context of changing role of state market it and civil society
5	Emerging trends-II	05	Role of public service in the learning and development of new state of Telangana understand the world of public administration from the public prospective and provide foundation for further studies in public administration

M. Swapna
(M. Swapna)

M. Ravi Prasad
9949617343

DEPARTMENT OF POLITICAL SCIENCE
SEMISTER-I

Sl No.	Paper Title Course	Co Number	Course outcomes
1	Understanding Political Theory	CO-01	Student a gains knowledge on What is political theory Evolutions Nature Significance given knowledge Political Theory Normative, Contemplative, Explanatory
2	What is Political	CO-02	What is Political Science They also given knowledge on Bciklay. Social contract evolution power and authority and sovereignty State challenges.
3	Political Values and Theoretical Perspective	CO-03	Student acquire knowledge on General Characters Liberty Equality } Learning Justice } Programme
4	Political Ideologies	CO-04	Student's gains knowledge Evolutionary - Liberalism - Nationalism - Multiculturalism
5	Political Institutions and Political Functions	CO-05	The Students acquires knowledge on the Political function, Political Institution.

DEPARTMENT OF POLITICAL SCIENCE

COURSE OUTCOMES

WESTERN POLITICAL THOUGHT

SEMISTER-II

Sl No.	Paper Title & Code II	Co Number	Course outcomes
1	Greek Political Thought	01	The students' gains knowledge on Greek Political thought – Sophist knowledge gives by student and learning Plato concepts. Justice and Education Next Aristotle classifications of Governments.
2	Medieval and early modern thought	02	Student basically gives knowledge Thomas Aquinas Theory and Law Church and State controversy Miccolo Machivelli – Human Nature for understand theprocess
3	Social Contractualists	03	The learner understands the concept of Hoobes Individualism and Absolute Sovereignty and John Loc Natural Right Present topics. J.J. Rousseau General will popular sovereignty
4	Unilateral Though	04	The students gains knowledge on Jeremy Bentham Unititarian thought next highly learning J.S. Mill on library
5	Philosophy of Dialectics	05	The student gains on detail knowledge. Hegal Theory Karal Max Socialism.

DEPARTMENT OF POLITICAL SCIENCE
COURSE OUTCOMES
SECOND YEAR
SEMISTER-III

Sl No.	Paper Title & Code	Co Number	Course outcomes
1	Indian National Moment Development of Indian Constitution	01	The student gains detail knowledge on Indian National moment and Learning of Constitutional Assembly, Drafting Committee. Basically I give Silent features of Indian Constitution
2	Fundamental Rights and Directive Principles of State Policy	02	The Secondary concepts of introduced to the student with Fundamental Rights and Directive Principles of State Policy including Fundamental Duties.
3	Social and Political moments in India	03	The student gains knowledge on Indian moments of Dalith, Tribal Environmental Women's moment and Revolution Farmers
4	Union government	04	Student acquire knowledge on President Election Powers and Functions, Function of Parliament. Powers and Functions Supreme Court Power and Functions Supreme Court Rules of Review
5	State Government	05	The student learning knowledge on Governor Qualifications, Elections and Power and Functions. Chief Minister's Powers and Functions High Court powers and functions Federal System of Indian Unity

DEPARTMENT OF POLITICAL SCIENCE

COURSE OUTCOMES

SEMISTER-4

Sl No.	Paper Title & Code	Co Number	Course outcomes
1	Union and State Relations	1	Student gains knowledge on features of Indian Federal System, Union and State Relations and discuss recent trends in Centre, State Relations.
2	Local Government	2	The student understands Panchayathi Raj Institutions, 73rd Constitutional Amendments and Urban Local Bodies 74th Constitutional Amendments learns by the Student.
3	Political Powers	03	Students acquire knowledge on General Indian Political Party System and National Parties INC. BJP, CPI, CPM, BSP, Regional Parties: TDP, TRS, SMY, AIAMDMK, YSRC learning by student
4	Electoral Politics	04	A basic understanding of the systematic of study of students Election commission power and function they are studying voting behavior and economic factors, Electoral reforms
5	Statutory commission for Production of Rights	05	

DEPARTMENT OF POLITICAL SCIENCE

SEMISTER-5

International relations 19th, 20th Century I

Sl No.	Paper Title & Code	Co Number	Course outcomes
1	Introduction	Co-1	Student gains knowledge n in International Relations: Definition Evolution Scope and Significance Emergence of Sovereignty , State System also covered in course
2	History of International Relations	Co-2	Student acquires knowledge on Colonialism: Causes Phases and Impact and student gives knowledge the first world war the second world war causes and consequences
3	Post War development	Co-3	The student understands and Decolonization emergence of third World Problems, Prospects and cold war – causes phases and Impact
4	Concepts	Co-4	A basic understanding of systemic of concepts power National Power super power Regional Power and Bi Polarity: Unipolarity Medity Polarity and peace Security learn by student.
5	International Organizations	Co-5	The learner understands International organizations E.U., ASEAN, SAARC, BRICS, Global Development.

DEPARTMENT OF POLITICAL SCIENCE

SEMISTER-5

Medieval Political Thought

Sl No.	Paper Title & Code	Co Number	Course outcomes
1	Introduction	Co-1	Student gains knowledge no basic Political thought Nature methods and significance. Western and Indian Political though learned by student.
2	Ancient and Medieval Political Thought	Co-2	Student acquire knowledge with the Palalo theory of Justice. Aristotle Classification of Governments and Constitutions and Theory of Revolutionalry Manu Darma, Kacetilya Saptanga Siddantham, Thomas Aquinas Theory of Law.
3	Early Modern Western Political Thought	Co-3	The student gains knowledge of Church, State Controversy Nicolo Machiavelli as a modern political theory.
4	Social Contractualists	Co-4	Basic understanding of systematic study of Thomas Hobbers Individualism and absolute Sovereignty. Student discuss John Locke Natural Rights and Rousseau General Will
5	Untilitarians	Co-5	Explain the dynamic Political Thinker Jermy Benthan. Principles of Untilitarianirianism and J.S. Mill On Liberty , Representative Government

DEPARTMENT OF POLITICAL SCIENCE COURSE OF SEMISTER-6

WESTERN & INDIAN POLITICAL THOUGH

SEMISTER-6

Sl No.	Paper Title & Code	Co Number	Course outcomes
1	Idealist	Co-1	Student gains knowledge on basic G.W.F. Hegel Dialectics and Theory of State and TH. Green – Rights and Political Obligation also covered in course.
2	Marxist Philosophy-II	Co-2	Student acquire knowledge on Mao Ze Dong.on Contradictions Mew Democratic Revolution and Anstonio Gramsci Hegemony and Civil Society by the Students learning
3	Marxist Philosophy-III	Co-3	Students gains knowledge on basic Karl Marx : Dialectical and Historical Materialism by the learning of students.
4	Indian Political Thought & Indian Thinkers	Co-4	The student gains knowledge of Introduction of Budha Social and Political Ideas. Dhamm and Sangha Basava Social Ideas and Jyothi Rao Phule Critique of Bhramanism Social Revolution.
5	Indian Nationalist Political Thought-II	Co-5	The basic knowledge of Indian Political thinkers M.K. Gandhi, Nehru Democratic socialism and Doctor B.R. Ambedkar Caste and socialism studies acquire by the students.

DEPARTMENT OF POLITICAL SCIENCE

SEMISTER-6

INTERNATIONAL RELATIONS IN 19TH AND 20TH CENTURY

Sl No.	Paper Title & Code	Co Number	Course outcomes
1	International Political Economy	Co-1	Student gains knowledge on basic Neo-Colonism, North south Dialogues. South Cooperation given for knowledge I.B.R.D., IMF WTO and MNCs and Globalization also covered in course
2	International Security	Co-2	Student acquire knowledge with the International Security Arms Race Arms Control Disaster management issues in Nuclear Politic Learned by the students.
3	Emerging Area in International Relation	Co-3	A basic Understanding of systemic study of Environment, Human Rights and Terrorism learned by the students.
4	Foreign Policy	Co-4	The students gains knowledge of Introduction of Foreign Policy –Determinations. Indian Foreign Policy – Features non-alignment – Relevance
5	India's Bilateral Relations	Co-5	The student gains detail knowledge on Indian and major Power(U.S.A., Russia) Indian and Neighbouring countries(China & Pakistan) ..... of the international pece.

DEPARTMENT OF POLITICAL SCIENCE

SEMISTER-VI

GOVERNMENT AND POLITICS IN TELANGANA

Sl No.	Paper Title & Code	Co Number	Course outcomes
1	Committees And Commissions On Telangana	Co-1	Student gains knowledge in basic structure Girglani Commission Rosaiah Committee Justice Sri Krishna Committee
2	Role of Political Parties	Co-2	Student acquire knowledge on National Parties INC, BJP, CPI, CPM, BSP, Regional Parties: T.R.S., T.D.P., MIM, YSRCP and Role of ML parties, New Democracy, Jana Shakti and Maoist party.
3	Role of Non-Party and Civil Society Actors	Co-3	The students understand and non-party the basic Civil Society, Student JAC, Political JAC, Other JAC, Cultural JAC, Employees, JAC, Lawyers JAC, Caste and community JAC, Role of Media
4	Emergence of Telangana State	Co-4	Student acquire knowledge on communal process and formation of Telangana State
5	Political Parties and Elections	Co-5	Party Politics and Elections in Telangana gains knowledge on Electoral alliance 204 to 2009 and 2014 and promises and formation of T.R.S. Government.

DEPARTMENT OF POLITICAL SCIENCE COURSE OF SEMISTER-VI

PUBLIC HEALTH AND HYGIENE

Sl No.	Paper Title & Code	Co Number	Course outcomes
1	Nutrition	Co-1	Student gains knowledge on Relationship of Nutrition to Health, Food Habits and Culture and Classifications of foods, balanced diet.
2	Environment	Co-2	Student acquire knowledge on Environment and health Industrial Agricultural and Health.

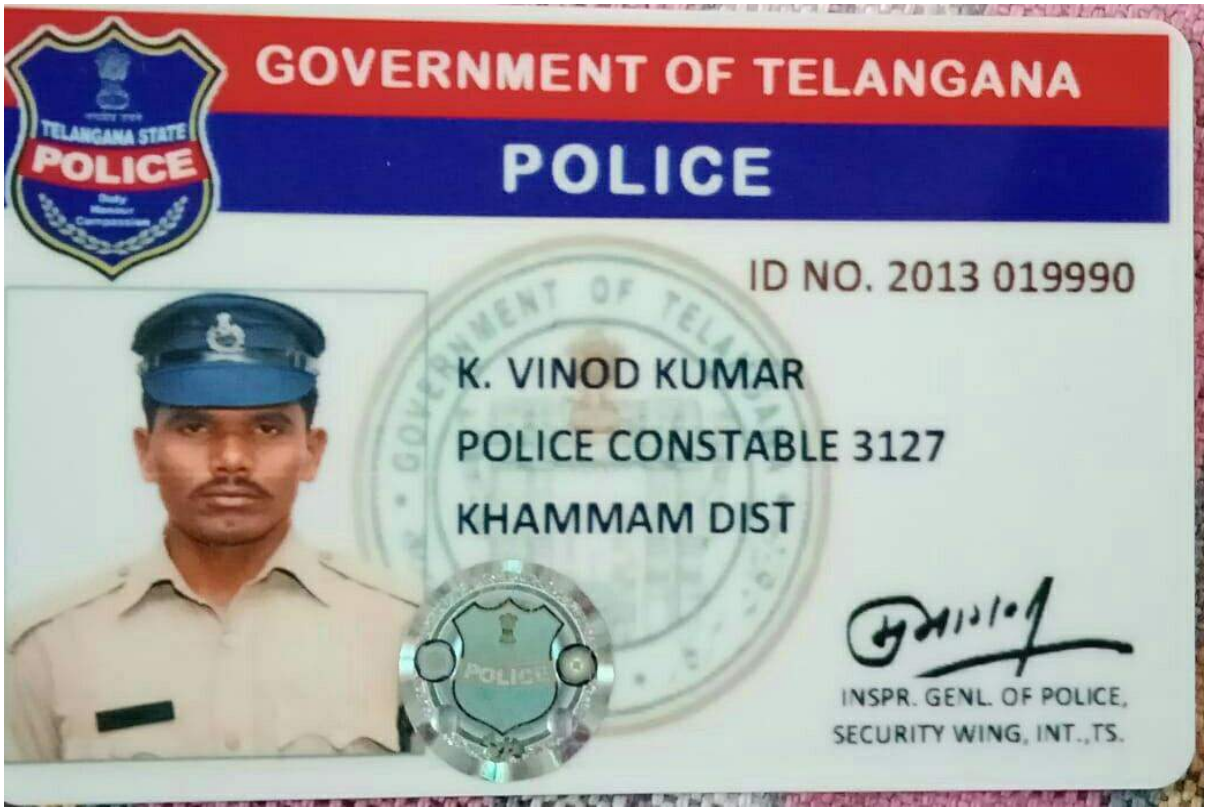
DEPARTMENT OF POLITICAL SCIENCE COURSE OF SEMISTER-VI

PERSONALITY DEVELOPMENT AND SOFT SKILLS

Sl No.	Paper Title & Code	Co Number	Course outcomes
1	Personality Development	Co-1	Student gains knowledge on basic structure of Personality Development, Development Characteristics and significance – Principles of Learning students.
2	Self Management	Co-2	Student acquire knowledge Self Management, Attitude Development Managing, Building Positive Attitude Achievement Motivation, Characteristics – Significance Strategies of developing emotional Intelligence, Fear Anger and Anxiety, Learning by students.

GOVERNMENT DEGREE COLLEGE - MANGURU

Placement of Outgoing Students



PRINCIPAL
Govt. Degree College, Manuguru
Bhadradri Kothagudem Dist.
Telangana State

GOVERNMENT OF TELANGANA

PANCHAYATHI RAJ DEPARTMENT

IDENTITY CARD

NAME : ESAM SANTHOSH

FATHER NAME : NARASIMHARAO

DESIGNATION : M.C.O (CONTRACT)

WORK PLACE : MPDO OFFICE MANUGURU

MANDAL : MANUGURU

CONTACT : 9381217004

Signature of the candidate

MANDAL PARISHAD DEVELOPMENT OFFICER
MANUGURU MANDAL

Mandal Parishad Development

MPP MANUGURU

PRINCIPAL
Govt. Degree College, Manuguru
Bhadradri Kothagudem Dist.
Telangana State

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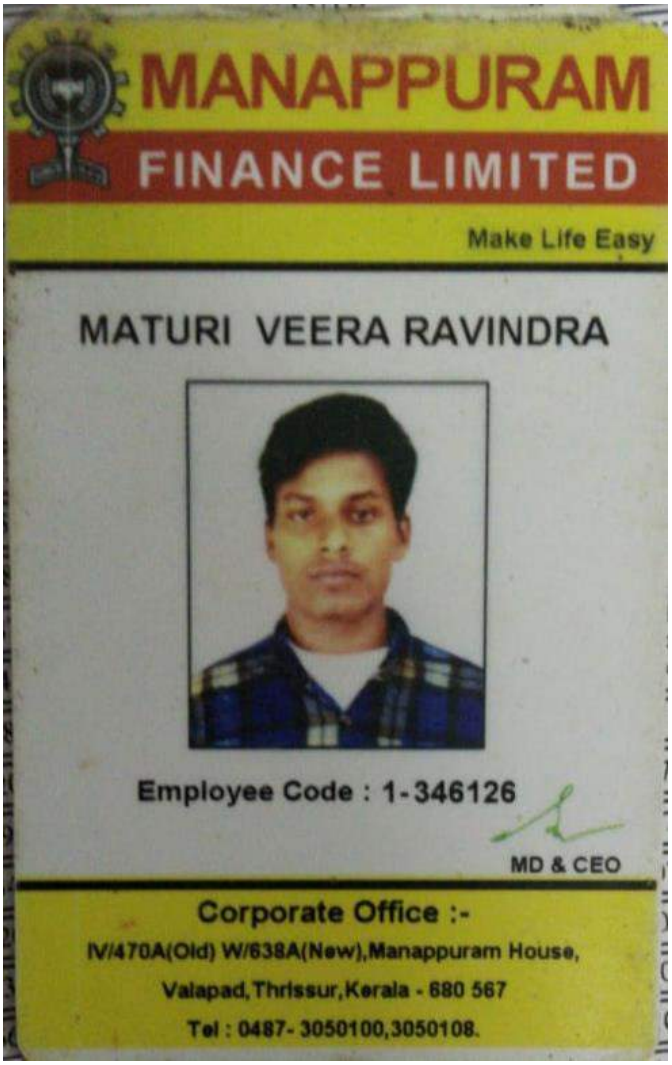
Telangana State



PRINCIPAL
Govt. Degree College, Manuguru
Bhadradri Kothagudem Dist.
Telangana State

Government of Telangana
Police Department

ID. No.

Name : K. Narendar

Rank : SCT Police Constable

Training Unit : 8th BTC., TSSP, Kondapur, R.R.Dist

Valid Upto : September - 2021

03/11/20

K. Narendar

Signature of the card Holder

Principal
8th BTC., TSSP, Kondapur,
Ranga Reddy Dist

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Govt. Degree College, Manuguru
Bhadradri Kothagudem Dist.
Telangana State

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Govt. Degree College, Manuguru
Bhadradri Kothagudem Dist.
Telangana State

SHRIRAM City

MONEY WHEN YOU NEED IT MOST

KOMARABOINA SANTHOSH

EMP CODE : K2264

DATE OF JOINING : 13-05-2019

BLOOD GROUP : B+ve

Issuing Authority

SHRIRAM CITY UNION FINANCE LIMITED

PRINCIPAL
Govt. Degree College, Manuguru
Bhadradri Kothagudem Dist.
Telangana State

PRINCIPAL
Govt. Degree College, Manuguru
Bhadradri Kothagudem Dist.
Telangana State

Panchayati Raj & Rural Development Department
Government of Telangana

Covid -19
Emergency services
ID Card

Name : Mupa Ramesh

Designation : G.P. Secretary

Place Of Working : Ramannagudem

Signature of candidate

Signature of the officer

PRINCIPAL
Govt. Degree College, Manuguru
Bhadradri Kothagudem Dist.
Telangana State

P.VENKATARAO

CIVIL CONTACTOR - MANUGURU

IDENTITY CARD

Name : M.RAJESH

Father's Name : VENKATRATHNAM

Desig : SHALE PICKER

Place of Work : KCHP,SCCL MNGR

Work Order : Pe.No. 87000 11404

Period : 2 years

Signature of the Contractor

Signature of the Issuing Authority

PRINCIPAL
Govt. Degree College, Manuguru
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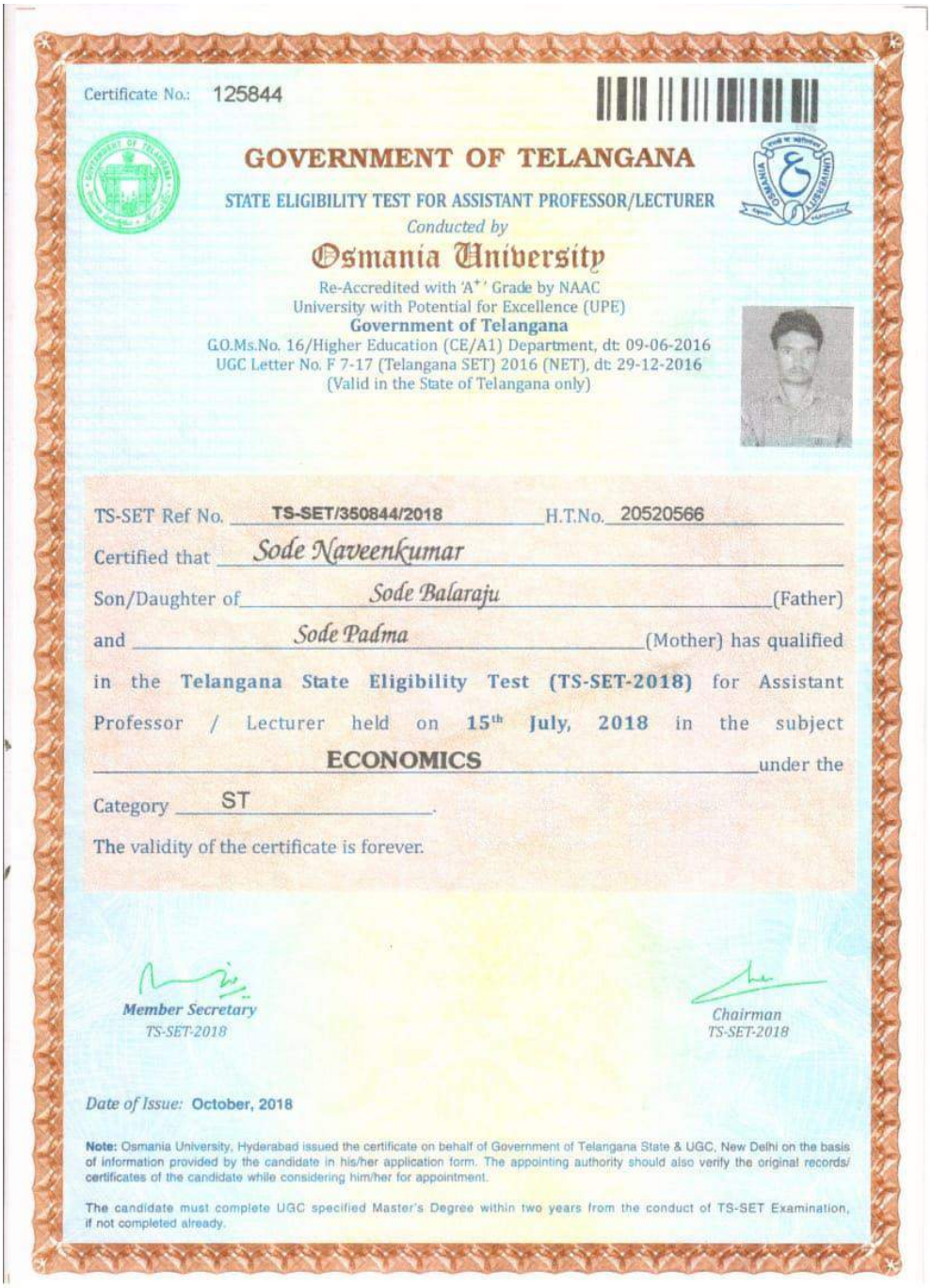
Telangana State

GOVERNMENT DEGREE COLLEGE - MANGURU

Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/GATE/ IELTS/ CLAT/GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)



Certificate No.: 125844

GOVERNMENT OF TELANGANA

STATE ELIGIBILITY TEST FOR ASSISTANT PROFESSOR/LECTURER

Conducted by

Osmania University

Re-Accredited with 'A+' Grade by NAAC
University with Potential for Excellence (UPE)
Government of Telangana
G.O.Ms.No. 16/Higher Education (CE/A1) Department, dt: 09-06-2016
UGC Letter No. F 7-17 (Telangana SET) 2016 (NET), dt: 29-12-2016
(Valid in the State of Telangana only)

TS-SET Ref No. TS-SET/350844/2018 H.T.No. 20520566

Certified that *Sode Naveenkumar*

Son/Daughter of *Sode Balaraju* (Father)

and *Sode Padma* (Mother) has qualified in the **Telangana State Eligibility Test (TS-SET-2018)** for Assistant Professor / Lecturer held on **15th July, 2018** in the subject **ECONOMICS** under the Category ST.

The validity of the certificate is forever.

Member Secretary
TS-SET-2018

Chairman
TS-SET-2018

Date of Issue: **October, 2018**

Note: Osmania University, Hyderabad issued the certificate on behalf of Government of Telangana State & UGC, New Delhi on the basis of information provided by the candidate in his/her application form. The appointing authority should also verify the original records/ certificates of the candidate while considering him/her for appointment.

The candidate must complete UGC specified Master's Degree within two years from the conduct of TS-SET Examination, if not completed already.

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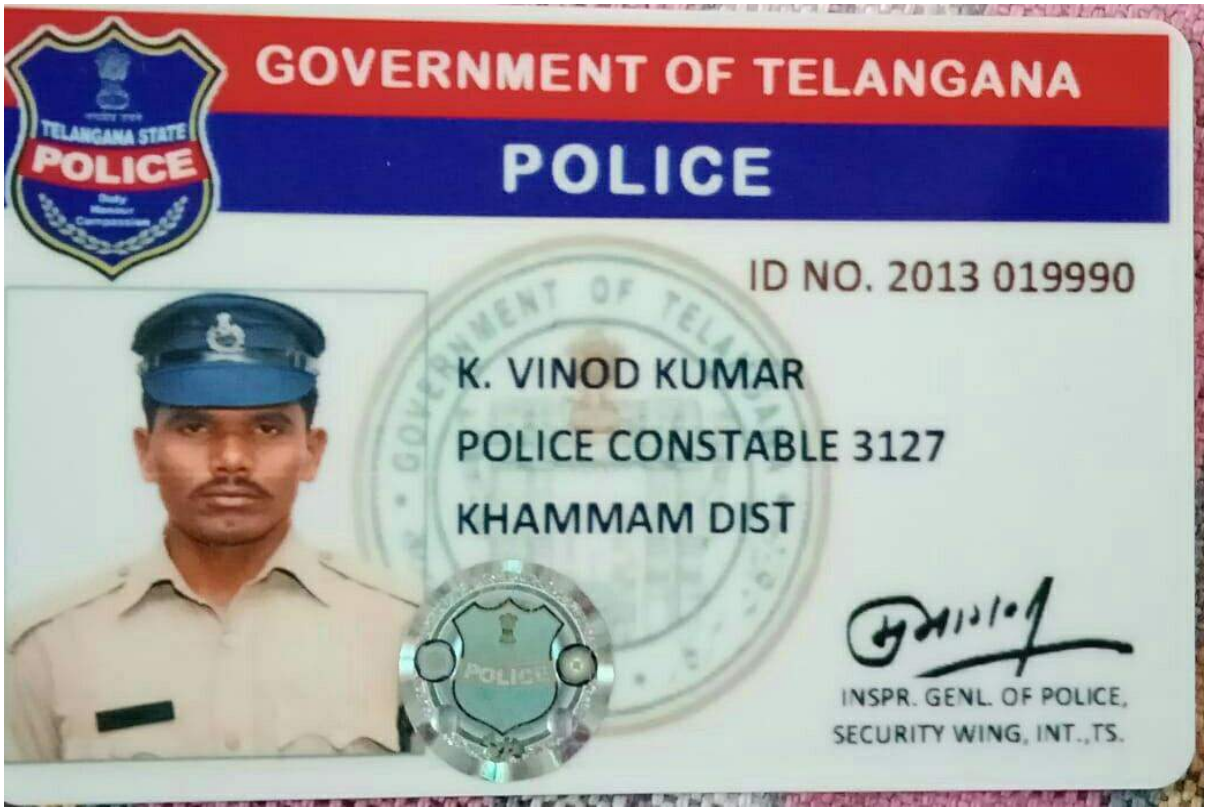

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GOVERNMENT OF TELANGANA

PANCHAYATHI RAJ DEPARTMENT

IDENTITY CARD

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FATHER NAME	:	NARASIMHARAO
DESIGNATION	:	M.C.O (CONTRACT)
WORK PLACE	:	MPDO OFFICE MANUGURU
MANDAL	:	MANUGURU
CONTACT	:	9381217004

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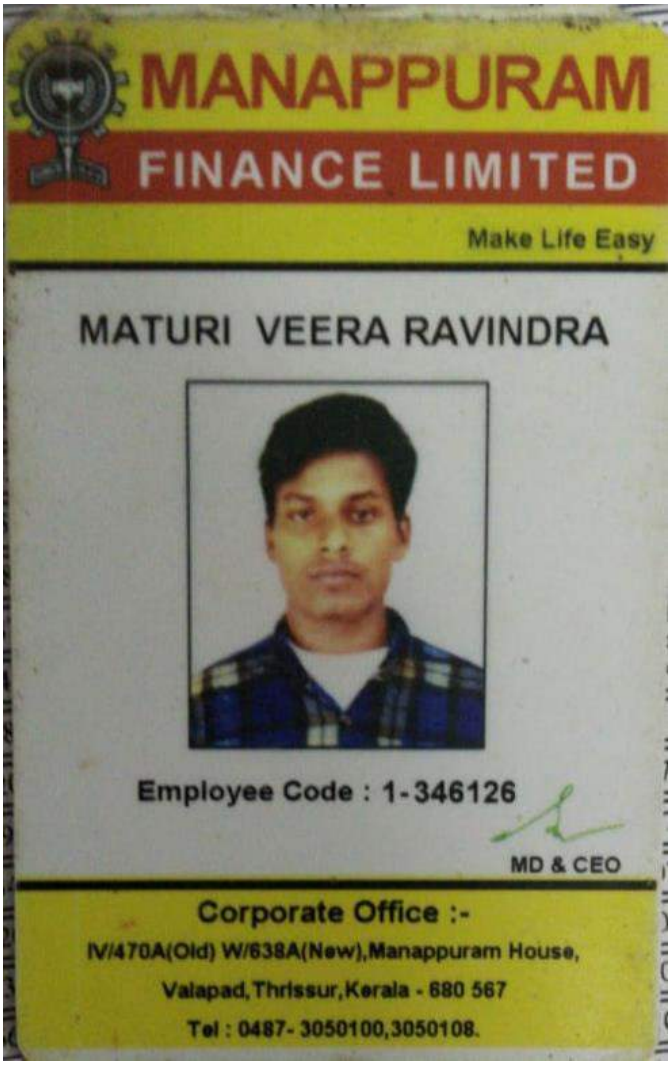

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