J S S COLLEGE FOR WOMEN (AUTONOMOUS)
Saraswathipuram, Mysuru-09
Programme Matrix: Bachelor of Arts – Kannada, Economics, Geography
Faculty of Arts

Programme Outcomes:
PO1: Demonstrate comprehensive knowledge of the fundamental concepts, theories, and applications of Kannada, Economics, and Geography.
PO2: Analyze historical developments, economic issues, and geographical phenomena using logical reasoning, evidence, and interdisciplinary approaches.
PO3: Apply appropriate research methods, fieldwork techniques, and data analysis to investigate historical, economic, and geographical problems.
PO4: Communicate ideas, research findings, and analytical perspectives effectively through oral presentations, written reports, maps, charts, and digital media.
PO5: Identify and evaluate social, economic, environmental, and historical challenges and propose informed and sustainable solutions.
PO6: Demonstrate awareness of environmental conservation, sustainable development, disaster management, and responsible use of natural resources while promoting social responsibility.
PO7: Use digital technologies, statistical tools, Geographic Information Systems (GIS), maps, and other information resources for academic and professional purposes.
PO8: Appreciate India's historical and cultural heritage, regional diversity, and the relationship between human societies, economies, and the physical environment.
PO9: Develop leadership, teamwork, interpersonal, and professional skills required for careers in education, research, public administration, planning, tourism, environmental management, and related fields.
PO10: Cultivate independent learning, adaptability, ethical values, and a global outlook to understand changing historical, economic, and geographical trends and contribute effectively to society.
Date of Approval:

Programme Matrix: Bachelor of Arts – Kannada, Economics, Geography

Programme Matrix: Bachelor of ARTS- Major kannada - HEK

Course Type	Course code	Course Title	Course outcomes
DSC	HLA530	©.J ¥ÀwæPÉ-1	1. PÀ£ÀßqÀ £Ár£À ¨sÀªÀå ¥ÀgÀA¥ÀgÉ ªÀÄvÀÄÛ ¸ÀA¸ÀÌøwAiÀÄ£ÀÄß ¥ÀjZÀ¬Ä¸ÀÄvÀÛzÉ. 2. ¥ÁæaÃ£À ¨sÁ²ÉAiÀÄ ¸ÀégÀÆ¥ÀªÀ£ÀÄß w½¸À-Ä ¸ÀºÁAiÀÄ ¤ÃqÀÄvÀÛzÉ. 3. ¥ÁæaÃ£À PÁ®WÀlÖzÀ ¸ÁªÀiÁfPÀ gÁdQÃAiÀÄ

ªÉÆzÀ®£ÉAiÀÄ ZÀvÀÄªÀiÁð¸À		PÀ£ÀßqÀ ¸Á»vÀå ZÀjvÉæ: ¥ÁæaÃ£À ªÀÄvÀÄÛ ªÀÄzsÀåPÁ°Ã£À ¥ÀoÀå	¹ÜwAiÀÄ£ÀÄß w½¸À®Ä C£ÀÄªÀÅ ªÀiÁrPÉÆqÀÄvÀÛzÉ. 4. ªÀiÁ£À«ÃAiÀÄ ªÀiË®åUÀ¼À §UÉÎ-CjªÀÅ ªÀÄÆr¸À®Ä ¸ÀºÀPÀj¸ÀÄvÀÛzÉ.
JgÀqÀ£ÉAiÀÄ ZÀvÀÄªÀiÁð¸À	HLB530	©.J ¥ÀwæPÉ- 2 PÀ£ÀßqÀ ¸Á»vÀå ZÀjvÉæ: DzsÀÄ¤PÀ ªÀÄvÀÄÛ ¥ÀoÀå	1. ¨sÁ¶PÀ C©üªÀåQÛAiÀÄ ¸ÁªÀÄxÀåðªÀ£ÀÄß ªÀÈ¢Þ¸ÀÄvÀÛzÉ. 2. ¸ÀÄvÀÛ°£À ¥Àj¸ÀgÀªÀ£ÀÄß CªÀ®A©ü¹, aAw¸ÀÄªÀ D¸ÀQÛ ªÀÄÆr¸ÀÄvÀÛzÉ 3. ¥ÀwæPÉUÀ¼À£ÀÄß NzÀÄªÀ ¥ÉæÃgÉÃ¥ÀuÉ ¤ÃqÀÄvÀÛzÉ. 4. ¸ÀÈd£À²Ã® «ZÁgÀUÀ¼À£ÀÄß PÀÄjvÀÄ, PÀ£ÀßqÀzÀ°è ¯ÉÃR£À §gÉAiÀÄ®Ä GvÉÛÃf¸ÀÄvÀÛz
ªÀÄÆgÀ£ÉAiÀÄ ZÀvÀÄªÀiÁð¸À	HLC 530	©.J ¥ÀwæPÉ-3 ºÀ¼ÀUÀ£ÀßqÀ ªÁåPÀgÀt ±À§ÞªÀÄtÂzÀ¥À ðtA	1. PÀ£ÀßqÀ ¨sÁ²ÉAiÀÄ ¸ÀAªÀºÀ£ÀzÀ ¸ÁzsÀåvÉAiÀÄ£ÀÄß «¸ÀÛj¸ÀÄvÀÛzÉ . 2. ºÀ¼ÀUÀ£ÀßqÀ ªÁåPÀgÀtzÀ NzÀÄ, ªÁåSÁå£ÀUÀ¼À CjªÀÅ ªÀÄÆr¸ÀÄvÀÛzÉ. 3. ªÁåPÀgÀtzÀ ¸ÀégÀÆ¥À, ®PÀëtUÀ¼ÀÄ ºÁUÀÆ ªÀÄºÀvÀé - EªÀÅUÀ¼À CjªÀÅ ªÀÄÆr¸ÀÄvÀÛzÉ. 4. ¥ÁæaÃ£À PÁªÀå ¥ÀgÀA¥ÀgÉAiÀÄ §UÉÎ UËgÀªÀ ªÀÄÆr¸ÀÄvÀÛzÉ.
£Á®Ì£ÉAiÀÄ ZÀvÀÄªÀiÁð¸À	HLD530	©.J ¥ÀwæPÉ-4 ¨sÁgÀwÃAiÀÄ ªÀÄvÀÄÛ ¥Á±ÁÑvÀå PÁªÀå«ÄÃªÀiÁA¸É	1. «°ÉèÃ²ÀuÁ ¸ÁªÀÄxÀåð ªÀÄvÀÄÛ D®ÉÆÃZÀ£Á ¸ÁªÀÄxÀåðªÀ£ÀÄß ªÀÈ¢Þ¸ÀÄvÀÛzÉ. 2. PÀÈwUÀ¼À£ÀÄß Czs ÀåAiÀÄ£À ªÀiÁqÀÄªÀ D¸ÀQÛ ªÀÄÆr¸ÀÄvÀÛzÉ. 3. ªÀiÁw£À PË±À®åªÀ£ÀÄß ºÉaÑ¸ÀÄvÀÛzÉ. 4. §gÀªÀuÉUÉAiÀÄ ±ÉÊ°AiÀÄ£ÀÄß «¸ÀÛj¸ÀÄvÀÛzÉ.
LzÀ£ÉAiÀÄ		©.J ¥ÀwæPÉ-5	1.ªÀiÁvÀÈ¨sÁµÉAiÀÄ ¥ÁæaÃ£ÀEwºÁ¸ÀzÀ ªÀÄÆ®PÀ PÀ£ÀßqÀ ¨sÁµÉAiÀÄ §UÉÎ M®ªÀ£ÀÄß ¨É¼À¸ÀÄªÀÅzÀÄ

ZÀvÀÄªÀiÁð¸À	HLE530	PÀ£ÀßqÀ ¨sÁµÉAiÀÄ ZÀjvÉæ	2. PÀÈw ªÀiË®åUÀ¼À£ÀÄß ¸ÀªÀÄPÁ°Ã£À ¸ÀªÀÄ¸ÉåUÀ¼À «±ÉèÃµÀuÉAiÀÄ°è C¼ÀªÀr¹PÉÆ¼ÀÄîªÀ ¸ÀAªÉÃzÀ£ÀPË±À®åvÉAiÀÄ£ÀÄß ¥ÀqÉAiÀÄÄªÀÅzÀÄ 3. ¨sÁgÀwÃAiÀÄ ¨sÁµÉUÀ¼À°è PÀ£ÀßqÀzÀ ¸ÁÜ£À ªÀÄvÀÄÛ ªÀÄºÀvÀéªÀ£ÀÄßCjAiÀÄÄªÀÅzÀÄ 4. ¨sÁµÉAiÀÄÄ ¥Àæ§® ¸ÀAªÀºÀ£À ªÀiÁzsÀåªÀÄªÁVzÀÄÝ ªÀvÀðªÀiÁ£ÀzÀ ¸ÀªÀÄ¸ÉåUÀ½UÉ ¸ÀàA¢¸ÀÄªÀÅzÀÄ 5. «zÁåyðUÀ¼À°è ¨sÁµÁPË±À®åªÀ£ÀÄß ªÀÈ¢Þ¸ÀÄªÀ ªÀÄÆ®PÀ ¸ÀàzsÁðvÀäPÀ ¥ÀjÃPÉëUÀ½UÉ CtÂUÉÆ½¸ÀÄªÀÅzÀÄ
LzÀ£ÉAiÀÄ ZÀvÀÄªÀiÁð¸À	HLE532	©.J ¥ÀwæPÉ-6 AiÀÄ±ÉÆÃzsÀg À ZÀjvÉæ: PÁªÀåzÀ CzsÀåAiÀÄ£À	1.£ÀqÀÄUÀ£ÀßqÀ PÁªÀåªÀ£ÀÄßNzÀÄªÀ, CxÉÊð¹PÉÆ¼ÀÄîªÀ, ªÁåRå¤¸ÀÄªÀ ¸ÁzsÀåvÉAiÀÄ£ÀÄß ¨É¼É¸ÀÄªÀÅzÀÄ 2. £ÀqÀÄUÀ£ÀßqÀ ¸Á»vÀåzÀ ¥ÀæPÁgÀUÀ¼À ¥ÀjZÀAiÀÄ ªÀiÁqÀÄªÀÅzÀÄ 3. PÁªÀå ªÀiË®åªÀ£ÀÄß ¸ÀªÀÄPÁ°Ã£À §zÀÄQUÉ C£ÀéAiÀÄ¹ £ÉÆÃqÀÄªÀÅzÀ£ÀÄßPÀ°AiÀÄÄªÀÅzÀÄ 4. PÁªÀåzÀNzÀÄ, «±ÉèÃµÀuÉ ªÉÆzÀ¯ÁzÀ PË±À® ¨É¼É¸ÀÄªÀÅzÀÄ
Course Type	**Course code**	**Course Title**	**Course outcomes**

DgÀ£ÉAiÀÄ ZÀvÀÄªÀiÁð¸À		¥ÀwæPÉ - 7 «ªÀÄ±ÉðAiÀÄ CzsÀåAiÀÄ£À	1. ¸Á»vÀåzÀ ¨sÁµÉAiÀÄ£ÀÄ ßCjAiÀÄ®Ä¨ÉÃPÁzÀ ¥Áj¨sÁ¶PÀ ¥ÀzÀUÀ¼À£ÀÄß w½AiÀÄ®Ä C£ÀÄªÀÅ ªÀiÁrPÉÆqÀÄvÀÛzÉ 2. «ªÀÄ±ÉðAiÀÄ ¥Áj¨sÁ¶PÀ «µÀAiÀÄªÀ£ÀÄß ªÀiÁzÀjAiÉÆA¢UÉ PÀ°¸ÀÄvÀÛzÉ. 3. «ªÀÄ±ÉðAiÀÄ ªÀÄÆ®PÀ C£ÀéAiÀÄPÀæªÀÄªÀ£ÀÄßCjvÀÄ PÀ£ÀßqÀ ¸Á»vÀåªÀ£ÀÄßCjAiÀÄ®Ä ¸ÁzsÀåªÁV¸ÀÄvÀÛzÉ. 4. §gÀªÀtÂUÉPË±À®å ¸ÀàzsÁðvÀäPÀ ¥ÀjÃPÉëUÀ¼À£ÀÄß JzÀÄj¸À®Ä CtÂUÉÆ½¸ÀÄvÀÛzÉ.
DgÀ£ÉAiÀÄ ZÀvÀÄªÀiÁð¸À		¥ÀwæPÉ - 8 PÉÆÃ¸ïð£À ²Ã¶ðPÉ - PÀ£ÀßqÀ PÁªÀåzÀ CzsÀåAiÀÄ£À: ²æÃgÁªÀiÁAiÀÄt zÀ±Àð£ÀA(DAiÀÄ Ý ¨sÁUÀUÀ¼ÀÄ)	1. PÀÄªÉA¥ÀÄ ªÀÄºÁPÁªÀåz NzÀÄ, ªÁåSÁå£ÀUÀ¼À CjªÀÅ ªÀÄÆr¸ÀÄªÀÅzÀÄ. 2. ªÀÄºÁPÁªÀåzÀ ªÀ¸ÀÄÛ, ªÉÊ«zÀå, ªÀiË®åUÀ¼À£ÀÄß ¸ÀªÀÄPÁ°Ã£À ¸ÀªÀÄ¸ÉåUÀ¼À «±ÉèÃµÀuÉAiÀÄ°è C¼ÀªÀr¹PÉÆ¼Àî§®è PË±À®ªÀ£ÀÄß ¨É¼É¸ÀÄªÀÅzÀÄ. 3. PÁªÀå ªÀiË®åªÀ£ÀÄß ¸ÀªÀÄPÁ°Ã£À §zÀÄQUÉ C£Àé¬Ä¹ £ÉÆÃqÀÄªÀÅzÀ£ÀÄß PÀ°¸ÀÄvÀÛzÉ 4. PÁªÀåz ÀNzÀÄ, «±ÉèÃµÀuÉ ªÉÆzÀ¯ÁzÀ PË±À® ¨É¼É¸ÀÄvÀÛzÉ

BA – ECONOMICS

Semester	Course Type	Course Code	Course Title	Course Outcomes
I	DSC-1	HLA : 340	PRINCIPLES OF MICRO ECONOMICS	CO1: Understand the basic concepts, nature and scope of micro economics and eco problems. CO2: Analyze consumer behavior using cardinal and ordinal approache CO3: Explain Demand and Supply analysis along with elasticity concepts. CO4: Evaluate production, cost and revenue concepts in short-run and long-run. CO5: Examine price and output determination under different market structures
II	DSC-2	HLB : 340	PRINCIPLES OF MACRO ECONOMICS	1. Understand the basic concepts ,nature and scope of macro economics 2. Analyze national income concepts and circular flow of income. 3. Examine classical and Keynesian theories of employment. 4. Understand inflation, deflation and business cycles. 5. Evaluate macroeconomic policies including monetary and fiscal policy.

III	**DSC/Major-3**	**HLC : 340**	**MATHEMATICS AND STATISTICS FOR ECONOMICS**	**CO1: Understand the nature, scope, and role of Mathematical Economics, and eva importance and limitationsofmathematicaltoolsineconomicanalysis.Demonstratekn functions, variables, constants, equations, and identities. CO2: Apply linear functions to analyze market equilibrium, and assess the effects subsidies on supply-demand equilibrium. CO3: Develop analytical skills using derivatives, including rules of differentiation, them to economic concepts such as marginal revenue (MR), marginal cost (MC), el demand, and optimization (profit maximization and cost minimization). CO4: Understand the basic concepts of statistics, including its scope, importance, a and distinguish between primary and secondary data sources. CO5: Compute and interpret measures of central tendency (mean, median, mode) of dispersion (range, quartile deviation, mean deviation, standard deviation), and g foundational understanding of index numbers.**
III	**Elective**	**HLC:34 4**	**RURAL ECONOMICS**	**CO1: Understand the meaning objectives, and characteristics of the rural economy key indicators of rural development. CO2: Analyze the concepts of inclusive and sustainable development, and examine approaches to rural development. CO3: Explain the structure and functioning of rural financial institutions and asse rural development.**
III	**Elective**	**HLC:34 6**	**ECONOMICS OF INSURANCE**	**CO1: Understand the concept, scope, and importance of insurance, along with its h evolution and the basic principles governing insurance contracts. CO2: Explain how insurance mechanisms work, including key clauses, assumption distinguish between life and general insurance and their various types. CO3: Analyze different insurance planning strategies, including wealth accumulati planning, and retirement planning, and evaluate various pension plans in India. Examine the role of health insurance in economic development and evaluate the re framework, including the Insurance Act, 1938 and the functions of Insurance Regu Development Authority of India.**

III	**Elective**	**HLC:34** **8**	**ECONOMICS OF HUMAN DEVELOPMENT**	**CO1: Understand the concept, meaning, and importance of human development, a objectives and key approaches, including the basic needs, quality of life, and capab CO2: Differentiate between Human Resource Development (HRD)and Human Res Management (HRM), and analyze their role in improving human well-being. CO3: Analyze and compute key indices such as Physical Quality of Life Index (PQ Adjusted Life Years (DALYs), and Social Capability Index, and interpret their sig Understand the Human Development Index (HDI), its method of computation, and assess its limitations, along with related indices such as Human Poverty Index (HPI related Development Index (GDI), and Gender Empowerment Measure (GEM).**
III	**Elective**	**HLC:35** **0**	**ECONOMICS OF INFRASTRUCTUR E**	**CO1: Understand the concept, types, and role of infrastructure in economic develo including public and private participation. CO2: Analyze key infrastructure sectors (transport, energy, communication, educa health) and identify major challenges in India. CO3: Explain the basics of infrastructure financing, recent policy initiatives, and th of sustainable infrastructure development.**
IV	**DSC/Major-4**	**HLD:34** **0**	**INDIAN** **ECONOMY**	**CO1: Understand the structural features of the Indian economy and analyze issues population growth, national income, poverty, unemployment, and income inequalit CO2: Examine the role of the agricultural sector in India and evaluate policies rela agricultural development, food security, and sustainable agriculture. CO3: Analyze the process of industrialization in India, including industrial policies economic reforms and the role of MSMEs and the IT sector in economic developm CO4: Assess the growth and importance of the tertiary sector, including trends in f balance of payments, and the role of the Reserve Bank of India in monetary and cr CO5: Understand India's planning and development strategies, including the trans Planning Commission to NITI Aayog, the budgetary system, and taxation reforms and Services Tax (GST).**
IV	**Elective**	**HLD:34** **4**	**ENTREPRENEURI ALECONOMICS**	**CO1: Understand the concept, evolution and functions of entrepreneurship. CO2: Analyze the role of innovation and creativity in entrepreneurship developme CO3: Identify institutional and financial support available for entrepreneurs in In**

IV	**Elective**	**HLD:34** **6**	**ECONOMICS OF GST**	**CO1: Explain the structure of indirect taxes in India prior to GST and the need for** **CO2: Understand the structure, features, and functioning of GST in India.** **CO3: Identify transactions covered and not covered under GST and understand ba administration**
IV	**Practical/Skil** **l**	**HLD:34** **8**	**E-Filing of ITRs**	**CO1: Understand the concept of e-filing, basic income tax terminology, heads of in process of computing total income and tax liability.** **CO2: Explain the procedures of e-filing, including PAN application, due dates, ded differences between manual and electronic filing.** **Demonstrate knowledge of TDS provisions, including advance tax, filing of TDS re signatures, and prescribed forms**
V	**DSC-5.1**	**HLE:34** **0**	**INTERNATIONAL ECONOMICS**	**CO1: Explain the basic concepts and importance of international trade in economic de** **CO2: Understand the international trade theories and their application in internationa** **CO3: Explain the concept of terms of trade and demonstrate the effect of trade barrier the ability to analyze the stages of economic integration** **CO4: Understand the concept of Bop and assess the Bop position and examine the cha rate** **CO5: Analyze the role of International trade and financial institutions**
V	**DSC-5.2**	**HLE:34** **2**	**PUBLIC ECONOMICS**	**CO1: Understand the basic concepts, scope, and significance of Public Economics a between public finance and private finance, as well as public and private goods.** **CO2: Explain the causes of market failure and evaluate the role of government int achieving maximum social welfare.** **CO3: Analyze the structure of public revenue, principles of taxation, and economic different types of taxes including direct, indirect, progressive, proportional, and GS** **CO4: Examine the nature, classification, and growth of public expenditure and ass explanations such as Wagner's Law and the Peacock–Wiseman hypothesis.** **CO5: Understand the concepts of public debt, budget, and fiscal policy, and evalua economic stabilization and development**
V	**Practical/Skil**	**HLE:34**	**RESEARCH METHODOLOGY**	**1. Understand the basic concepts of research.** **Apply skills in identifying research problems.** **2.Understand methods of data collection and analysis.** **Prepare simple research reports or assignments.**

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VI	DSC-6.1	HLF:340	DEVELOPMENT ECONOMICS	CO1: Understand the concepts and measures of economic development, distinguish economic growth and development, and evaluate indicators such as GNP, HDI, PQ poverty indices. CO2: Explain and critically analyze the major theories of economic growth and de including classical and modern models. CO3: Examine partial theories of development and assess the role of capital accum technology, and labor in the development process. CO4: Analyze the concept of sustainable and inclusive development, and evaluate g initiatives such as the Millennium Development Goals (MDGs) and Sustainable De Goals (SDGs) with reference to India.
VI	DSC-6.2	HLF:342	MANAGERIAL ECONOMICS AND BUSINESS DECISIONS	CO1: Apply economic logic to corporate problems and evaluate the trade-offs invo level business decision-making. CO2: Predict future market trends using quantitative tools and select the most app forecasting model for a specific product. CO3: Formulate mathematical models to maximize profit and design strategic pric based on market maturity and competition. CO4: Calculate the safety margin for a business and appraise the long-term viabili projects using discounted cash flow techniques
VI	Practical/Skil l	HLF:346	DIGITAL LITERACY	1. Understand basic concepts of computer and digital technologies. Use internet tools for information search and academic purposes. 2. Communicate effectively using email and digital platforms. Apply basic office software for document preparation and presentations. Practice safe and ethical use of digital technologies

Geography

COURSE OUTCOMES (COs)

Fundamentals of Physical Geography (I Semester)

CO1: To introduce fundamental concepts and branches of Physical Geography.
CO2: To develop understanding of Earth's structure and systems.

CO3: To explain major geological theories regarding Earth's origin.
CO4: To study geomorphic processes shaping the Earth's surface.
CO5: To enable analysis of landforms and their formation processes.

Climatology and Oceanography (II Semester)

CO1: To introduce fundamental concepts of climatology and oceanography.
CO2: To explain atmospheric structure, processes, and heat balance.
CO3: To study atmospheric variables such as pressure, winds, and humidity.
CO4: To understand global circulation systems and weather phenomena.
CO5: To examine oceanic features and their influence on climate.
CO 6: To develop analytical understanding of climate–ocean interactions.

Human Geography (III Semester)

CO1: Students are able to understand the basic concepts in Human Geography.
CO2: Grasping the core themes, history, and modern scope of human geography.
CO3: Understanding human adaptation to environment and different ecological schools of thought.
CO4: Identifying global patterns of race, ethnicity, language, and religion.
CO5: Students understand basic terms used to describe population, settlements and agriculture.
CO6: Students understand the concept of Google Earth and Google Map.

Karnataka Geography (III Semester)

CO1: Learn the location, size, and administrative divisions of Karnataka.
CO2: Understand physical land features like the Western Ghats and river systems.
CO3: Study of local climate, soil types, and forest vegetation.
CO4: Evaluate major river valley projects and irrigation systems.
CO5: Identify key agricultural zones and crop distribution.
CO6: Analyze the distribution of minerals, industrial growth, and transport networks.

Settlement Geography (III Semester)

CO1: Define site, situation, and the foundational differences between rural and urban settlements.
CO2: Examine the internal layouts, street patterns, and building types of different communities.
CO3: Classify settlements by population size, spacing, and functional complexity.

CO4**:** Study rural-urban migration, suburbanization, and contemporary urban growth issues.
CO4: Use geographical models for sustainable regional development and resource management.

India Resource and Sustainability (IV Semester)

CO1: Students understand the dimensions and physiography of India.
CO2: The students fully aware about the climatic seasons in India.
CO3: Students get detailed knowledge about soils, vegetations, drainage systems in India.
CO4: Students understand an importance of agriculture and industry in Indian economy.
CO5: Students get detailed knowledge about the economic setup of the India.

Geography of the World (IV Semester)

CO1: Learn about major world biomes, natural vegetation, and soil characteristics across different continents.
CO2: Understand global climate types, atmospheric processes, and how climate change impacts different world regions.
CO3: Study the global distribution, use, and conservation of energy, water, and land resources.
CO4: Analyze world population growth, migration trends, and demographic shifts on a global scale.
CO5: Conceptualize regional approaches to compare cultural landscapes, economic systems, and human adaptations across countries.
CO6: Evaluate how humans change natural environments and address global sustainability and resource challenges.

Population Resources (V Semester)

CO1: Apply critical analysis skills on the demographic composition of a country.

CO2: Classify and evaluate migrations and their types.

CO3: Understanding the population resources.

CO4: Analyses population growth issues and challenges. COS Investigate how migration takes place.

Fundamentals of Remote Sensing (V Semester)

CO1: Define and describe the components of remote sensing and explain the history of remote sensing. **CO2:** Analyze ground truth verification using Google Earth and evaluate its usefulness
CO3: Differentiate between the types of remote sensors and platforms and analyze .
CO4: Interpret aerial photographs and identify and compare digital and analog data
CO5: Evaluate the applications of remote sensing, including the new satellite programs of India

Fundamentals of Geographical Information System (VI Semester)

CO1: Demonstrate how spatial data work together to model real-world geographic problems.
CO2: Choose and apply the correct data structure (Vector vs. Raster
CO3: Select appropriate Coordinate Systems and Projections to maintain geographic precision.

CO4: Perform core analytical tasks, including Buffering.
CO5: Model Terrain & Trends: Generate and interpret Digital Elevation Models (DEM) and Thematic Maps (like Cartograms and Flow maps) to visualize complex landscape and flow patterns.

Environmental Geography (VI Semester)

CO1: Learn the structure, functions, and energy flow of ecosystems.
Co2: Understand how human actions affect natural surroundings and resources.
CO3: Recognize the value of varied plant and animal life and causes of habitat loss.
CO4: Study the causes and impacts of pollution and Examine climate change.
CO5: Identify natural and human-made Disasters and Explore sustainable methods.
CO6: Gain skills in using tools like Environmental Impact Assessment (EIA) for projects
CO7: Review international treaties, laws, and action plans focused on earth conservation.

Outcome Based Education Matrix – Kannada, Economics, Geography – KEG

Course-to-PO Mapping Matrix

Sem	Course Type	Course Title	Primary PO Mapping	Target Skills Addressed
I	AECC	Kannada Patrike-1	**PO1, PO4, PO10**	Expression, communication, competitive exam confidence.
I	DSC-1	Principles of Micro Economics	**PO1, PO2**	Economic reasoning, market analysis, consumer behavior.
I	Core Geog	Fundamentals of Physical Geography	**PO1, PO2, PO6**	Earth systems, geomorphic processes, landform analysis.
II	AECC	Kannada Patrike-2	**PO4, PO8, PO9**	Social vocabulary, community understanding, theatre/arts.
II	DSC-2	Principles of Macro Economics	**PO1, PO2, PO5**	National income analysis, fiscal/monetary policy evaluation.
II	Core Geog	Climatology and Oceanography	**PO1, PO2, PO6**	Atmospheric dynamics, ocean systems, climate interactions.

III	AECC	Kannada Patrike-3	**PO4, PO8, PO10**	Gender awareness, human values, ancient poetry heritage.
III	DSC/Maj-3	Mathematics & Statistics for Economics	**PO2, PO3, PO7**	Quantitative optimization, derivative tools, central tendency.
III	Elective	Rural Economics	**PO5, PO6, PO8**	Sustainable rural development, financial structures.
III	Elective	Economics of Insurance	**PO1, PO5, PO9**	Financial planning, pension structures, regulatory frameworks.
III	Elective	Economics of Human Development	**PO2, PO3, PO10**	Computing development indices (HDI, PQLI, GDI).
III	Elective	Economics of Infrastructure	**PO5, PO6, PO9**	Infrastructure financing, public-private sector analysis.
III	Core Geog	Human Geography	**PO1, PO7, PO8**	Ecological thought schools, global demographics, Google Maps/Earth.
III	Core Geog	Karnataka Geography	**PO1, PO8**	Regional physiography, river valley planning, mineral setup.
III	Core Geog	Settlement Geography	**PO2, PO5**	Urban-rural structures, migration modeling, regional planning.
IV	AECC	Kannada Patrike-4	**PO4, PO8**	Cultural heritage appreciation, oral & written language skills.
IV	DSC/Maj-4	Indian Economy	**PO1, PO2, PO5, PO8**	Structural trends, NITI Aayog, GST, agricultural systems.
IV	Elective	Entrepreneurial Economics	**PO5, PO9**	Institutional financing, innovation, project development.
IV	Elective	Economics of GST	**PO1, PO2, PO7**	Indirect tax administration, reform analysis.
IV	Skill/Prac	E-Filing of ITRs	**PO3, PO7, PO9**	Tax computation, professional pan-card/TDS execution.
IV	Core Geog	India Resource & Sustainability	**PO5, PO6, PO8**	Resource conservation, climate zones, economic setup.
IV	Core Geog	Geography of the World	**PO2, PO6, PO10**	Global biomes, migration trends, global sustainability.
V	DSC-5.1	International Economics	**PO1, PO2, PO10**	Trade theories, Balance of Payments (BoP), forex rates.
V	DSC-5.2	Public Economics	**PO1, PO2, PO5**	Market failures, public expenditure, taxation rules.
V	Skill/Prac	Research Methodology	**PO3, PO4**	Problem identification, data collection, report writing.
V	Core Geog	Population Resources	**PO2, PO3**	Demographic compositions, migration analysis.
V	Core Geog	Fundamentals of Remote Sensing	**PO3, PO7**	Aerial photography interpretation, satellite data, Google Earth.
VI	DSC-6.1	Development Economics	**PO2, PO5, PO6**	MDGs, SDGs, growth model critiques.
VI	DSC-6.2	Managerial Economics & Business Decisions	**PO2, PO7, PO9**	Profit maximization models, forecasting, cash flows.
VI	Skill/Prac	Digital Literacy	**PO4, PO7**	Office software proficiency, secure online research, emails.

VI	Core Geog	Fundamentals of GIS	**PO3, PO7**	Vector/Raster models, buffering, DEM terrain visualization.
VI	Core Geog	Environmental Geography	**PO5, PO6, PO7**	Ecosystems, Disaster Management, EIA tools, Treaties.

Core Skill Breakdown Matrix (Attainment Map)

- **Kannada Courses (AECC):** Primarily drive **PO4** (Communication) and **PO8/PO10** (Heritage, Values, and Lifelong learning).
- **Economics Courses (DSC/Electives/Practicals):** Anchor **PO2** (Analytical Reasoning), **PO5** (Problem Solving), and **PO7/PO9** (Statistical tools & Professional tax/business application).
- **Geography Courses:** Form the backbone of **PO3** (Fieldwork/Research methods), **PO6** (Environmental conservation/sustainability), and **PO7** (GIS, Google Earth, and Remote Sensing tool tracking).