Department of Economics
Chaudhary Charan Singh University, Meerut

Programme Syllabus
BA(Honours / Honours with Research) Economics

under

National Education Policy (NEP)-2020

(Effective from Academic Year 2024-25)

(Last Updated 16th July 2026)

ABOUT OF THEDEPARTMENT

The Department of Economics was established in 1977 with the objective of promoting post- graduate studies and research in Economics with special thrust on emerging areas in theoretical and applied Economics. The Department of Economics with its team of well- qualified and experienced teachers provides a thorough and in-depth training in theoretical and applied economics through its various courses of study. The main objective is to develop skilled manpower capable of analysing economic problems at different levels of sophistication and suggesting solutions in terms of policy. The students of the department have been well received in the job market and their performance in terms of the success rate at different national examinations has always been above average. It is reflected through their placement in various organizations which include the academic and research institutions at higher level, civil services, commercial banks, the Reserve Bank of India, private corporate business houses, etc. Ever since the recognition of economic factors as the key ingredients of the development of a society or human development, for that matter the importance of economics as a subject of study has grown tremendously. The increase in the demand for professional economists is emerging and new areas are the natural outcome of this development. In addition to the commercial and manufacturing enterprises, both the public and private sector, absorbing a bulk of the manpower trained economics; today there is hardly any social, administrative or developmental organization where the services of economics are not needed.

The department of economics with its team of well qualified and experienced teachers provides a thorough and in-depth training in theoretical and applied economics through its various courses of study. The main objective is to develop skilled manpower capable analysing economic problems at different levels of sophistication and suggesting solution in terms of policy. The students of the department have been well received in the job market and their performance in terms of the success rate at different national examinations has always been above average. The Department supports undergraduate, postgraduate and doctorate programmes in Economics, which draw a huge number of applicants from all over the country. These programmes have a strong theoretical and quantitative focus with an emphasis on empirical application. Current Faculty members of the department are contributing in the areas of emerging areas of Economics in terms of teaching and research activities.

Curriculum and Credit Framework of Four-Year (Eight-Semester) Undergraduate (Honours / Honours with Research) with single major [FYUGSM] with Multiple Entry and Exit

1. **Eligibility for entry to the program:** Senior Secondary School Leaving Certificate or Higher Secondary (12th Grade) Certificate obtained after the successful completion of Grade 12 or equivalent stage of education corresponding to Level-4.

2. **Duration:** Four Years (Eight semesters)

3. **Maximum Period to Complete the Degree:** Seven Years

4. **Four-Year(Eight Semester) UG Degree (Honours) with Single Major:**

   Course Credits: 170 credits including 4 credits through one vocational course (work-based learnings/internships).

5. **Four-year (Eight Semester) UG Degree (Honours with Research) with Single Major:**

   Course credits: 170 credits including 4 credits through one vocational course (work-based learnings/ internships) and 12 credits through Dissertation.

6. **Multiple Entry and Exit Options**

(i) UG Certificate with Single Major

On exit after the completion of the first year (two semesters) with 44 credits and 4 credits of a vocational course (work-based learning/ internship).

Re-entry in the UG degree program with one major (After one-year Certificate): It is allowed within three years, if in addition to the 44 credits, one vocational course (work-based learning/internship) of 4credits has been completed. However, it is necessary to complete the degree program within the stipulated maximum period of seven years.

(ii) UG Diploma with Single Major

On exit after the completion of the second year (four semesters) with 90 credits including 4 credits of vocational course (work-based learning/ internship).

Re-entry in the UG degree program with one major (After two-year Diploma): It is allowed within three years, if in addition to the 86 credits, one vocational course (work-based learning/ internships)has been completed. However, it is necessary to complete the degree program within the stipulated maximum period of seven years.

(iii) Three-year UG Degree with Single Major

On exit after the competition of the third year (six semesters) with130 credits including 4 credits of Dissertation/ Vocational Course (work-based learning/ internship).

Entry/ Re-entry in the four-year degree program (Honours/ Honours with Research) with *one* major (After three-year UG Degree): Refer to Table 1

7. Components of a Course

Each course may have only a lecture component or a lecture and tutorial component or a lecture and practicum component or a lecture, tutorial, and practicum component, or only a practicum component.

8. Credits

(i) 1 credit of lecture/tutorial means one hour of engagement per week and is equivalentto15 hours of teaching in one semester.

(ii) 1 credit of Workshop/internship/project/studioactivity/practicum/labwork/community engagement /services/ field work means two hours of engagement per week and is equivalent to 30 hours of engagement in one semester.

9. Category of Discipline

The Four-Year undergraduate program will comprise two categories of disciplines.

(i) Major discipline

A discipline or subject of focus and the degree will be awarded in that discipline on securing the prescribed number of credits.

(ii) Minor discipline

A discipline or subject other than the main subject of focus.

10. Category of Courses

The Four-Year Undergraduate Program will comprise various categories of courses

I. Major Discipline Specific Core Course (DSC/MJDSCC)

DSC/MJDSCC are the core credit courses of the specific discipline spreading across the semesters giving adequate knowledge of the Major Discipline.

II. Major Discipline Specific Elective Course (MJDSEC)

DSEC / MJDSEC are the discipline-specific open elective courses offered from a pool of courses by the Department itself. MJDSEC once allotted (as per rule) to a student will not be changed.

III. Minor Generic Elective Course (MNGEC)

GEC/ MNGEC courses will provide multi-disciplinary or interdisciplinary knowledge to students. These are offered through a pool of courses by different departments of studies across different Faculties to be opted for by students other than their major discipline or specialization. It may belong to the same Faculty of study.

Example: If a student is admitted in UG(Honours/ Honours with Research)in Mathematics, He/ She may opt for any subject (other than Mathematics) belonging to any Faculty as GEC/ MNGEC.GEC/ MNGEC once allotted (as per rule) to a student will not be changed.

IV. Ability Enhancement Course (AEC)

AEC courses will aim to create competency in a Modern Indian Language (MIL) and in the English language with special emphasis on language and communication skills. These courses should enable students to acquaint themselves with the cultural and intellectual heritage of the chosen MIL and English language. These will be mandatory for all disciplines.

V. Skill Enhancement Course (SEC)

The Departments shall offer these courses across Faculties in groups. These courses are aimed at imparting practical skills, hands-on training, soft skills, etc., to enhance the employability of students. A student can pick any course of choice from the pool of courses.(Example: Programming Languages, Web Designing, Graphic design, Languages, Project Management, Data Analysis and Visualization, Photography, Financial Literacy, Customer Service and Sales Techniques, Cyber security, etc.)

VI. Value Addition Course (VAC) Common to all UG Students

These courses will be based on ethics, culture, Indian Knowledge systems, constitutional values, etc. to understand India, sports education, Yoga education, Health and Fitness education, environmental education, digital and technological solutions, and similar courses.

VII. SummerVocationalCourse/Internship/Apprenticeship/Project/CommunityOutreach/ Workshop (VIAPCW*)

VIII. Research Project /Dissertation

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11. Outcomes (Please refer to the UGC Curriculum and Credit Framework for undergraduate Programs, December 2022) for the following:

I. **Program Outcomes**

II. **Program Specific Outcomes**

III. **Course Outcomes**

Table-1
Credit Framework Summary of FYUGSM
(Honours / Honours with Research)

Structure of UG Single Core Discipline Program

Abbreviations

FYUGSM: Four-Year Undergraduate Program with Single Major MJDSCC: Major Discipline-Specific Core Course

MJDSEC: Major Discipline-Specific Elective Course MNGEC: Minor Generic Elective Course

AEC: Ability Enhancement Course SEC: Skill Enhancement Course

VIAPCW: Vocational Course/Internship/Apprenticeship/Project/CommunityOutreach/Workshop VAC: Value Addition Course

...cture and Credit Framework of Four Year Under Graduate (Honours/ Honours with Research) with Single Major Degree P...

Semester	Level of Course	Major Discipline Specific Core Course (MJDSCC)	Major Discipline Specific Elective Course (MJDSEC)	Minor Generic Elective Course (MNGEC)	Ability Enhancement Course (AEC)	Skill Enhancement Course (SEC)	Value Addition Course (VAC)	Total Credits
I	Foundation or Introductory Level	DSCC 101: Introductory Microeconomics (Credit 4) DSCC 102: Introductory Macroeconomics (Credit 4) DSCC 103: Basic Mathematics for Economics (Credit 4)		MGEC 101: Introductory Micro Economics (Credit 4)	AEC 101: Leadership and Personality Development (Credit 2)	SEC 101: Introduction to MS –Excel (Credit 2)	VAC 101: Value & Ethics (Credit 2)	22
II		DSCC 201: Microeconomic Theory (Credit 4) DSCC 202: Macroeconomic Theory (Credit 4) DSCC 203: Basic Statistics for Economics (Credit 4)		(Pool of Courses) MGEC 201: Basic Statistics for Economics (Credit 4)	(Pool of Courses) AEC 201: (Credit 2)	SEC 201: Introduction to Statistical Software–SPSS (Credit 2)	VAC 201: **(Pool of Courses from Swayam)**	22
Credits I+II		**24**		**8**	**4**	**4**	**4**	**44**
***(VIAPCW)**		VIAPCW of 4 credits. **Note: 1.** For exit with undergraduate Certificate, a VIAPCW of 4 credits in the first year is mandatory.						4
		Total Credits After One-Year						**44+4***

Exit-1 and Re-entry: Undergraduate Certificate in Major Discipline after securing 44 credits in two semesters (one year) of a UG (Honours/ Honours with Research). Program with single major and in addition 4 credits in a Vocational Course/Internship/Apprenticeship/ Project/Community Outreach/Workshop (VIAPCW)*. With these credits a student may take re-entry in the second Year.

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Semester	Level of Course	Major Discipline Specific Core Course (MJDSCC)	Major Discipline Specific Elective Course (MJDSEC)/ Minor Generic Elective Course (MGEC)	Minor Generic Elective Course (MGEC)	Ability Enhancement Course (AEC)	Skill Enhancement Course (SEC)	Value Addition Course (VAC)	Total Credits
III	Intermediate Level	DSCC 301: Indian Economy (Credit 4) DSCC 302: Public Finance (Credit 4) DSCC 303: Quantitative Methods for Economics (Credit 4)	**(choose either one DSEC offered by the department OR a GEC offered by any other department)** DSEC 301: Money & Banking / DSEC 302: Economy of Uttar Pradesh/ DSEC 303: Economics of Infrastructure (Credit 4) **OR** Any GEC offered by the other department	MGEC 301 - Indian Economy (Credit 4) **(For students of other departments)**	(Pool of Courses) AEC 301: (Credit 2)	SEC 301: Introduction to STATA (Credit 2)		20
IV		DSCC 401: Financial Economics (Credit 4) DSCC 402: History of Economic Thought (Credit 4) DSCC 403: Environmental Economics (Credit 4)	DSEC 401: Agricultural Economics/ DSEC 402: Industrial Economics/ DSEC 403: Labour Economics (Credit 4) **OR** Any GEC offered by the other department	MGEC 401-Financial Economics (Credit 4) **(For students of other departments)**	(Pool of Courses) AEC 401: (Credit 2)	SEC 401: Computer Application in Economics (Credit 2)	(Pool of Courses) VAC 401: Environmental Studies (Credit 2)	22
Credits III+IV		**24**	**8**		**4**	**4**	**2**	**42**
***(VIAPCW)**		VIAPCW of 4 credits. **Note:** For exit with UG Diploma with Single Major, VIAPCW of 4 credits either after first year or second year is mandatory.						4
		Total Credits After Two-Years						**86+4**

Exit- 2 and Re-entry: Two Year Undergraduate with Single Major Diploma after securing 86 credits in four semesters (two years) of a Four Year UG (Honours/ Honours with Research) with Single Major program and in addition 4 credits through a Vocational Course/ Internship/ Apprenticeship/ Project/ Community Outreach/ Workshop (VIAPCW)*. With these credits a student may re-enter in the third year of the above degree programme.

Semester	Level of Course	Major Discipline Specific Core Course (MJDSCC)	Major Discipline Specific Elective Course (MJDSEC)	Minor Generic Elective Course (MGEC)	Skill Enhancement Course (SEC)	Value Addition Course (VAC)	Total Credits
V	Higher Level	DSCC 501: Economics of Growth and Development (Credit 4) DSCC 502: Introductory Econometrics (Credit 4) DSCC 503: Indian Public Finance (Credit 4)	**(choose any one DSEC offered by the department)** DSEC 501: Economics of Health DSEC 502: Economics of Education (Credit 4)	MGEC 501- Indian Public Finance (Credit 4) **(For students of other departments)**			20
VI		DSCC 601: International Economics (Credit 4) DSCC 602: Multivariate Data Analysis (Credit 4) DSCC 603: Indian Economic Thought (Credit 4)	DSEC 601: Demography DSEC 602: Gender Economics	MGEC 601- Indian Economic Thought (Credit 4) **(For students of other departments)**			20
Credits V+VI		**24**	**8**	**8**			**40**
Total Credits After Three-Years						**126+4***	

Exit- 3 and Re-entry: Three Year Undergraduate with Single Major degree after securing 126 credits in six semesters of a Four Year UG (Honours/Honours with Research) with Single Major programme and in addition 4 credits through a Vocational Course/ Internship/ Apprenticeship/ Project/ Community Outreach/ Workshop (VIAPCW)* after First/Second year.
With these credits a student may re-enter in the fourth years of the above degree programme.

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B.A. (Honours/ Honours with Research) Economics, Semester-I

Programme: B.A. (Honours / Honours with Research) Economics	**Year: First**	**Semester: I**
Subject: ECONOMICS		
Course Code: DSCC-101	**Course Title: Introductory Microeconomics**	**(Theory)**

Course Outcomes: On completion of this course, students will be able to understand the basic concepts of microeconomics and learn how to consumer's and producer's equilibrium achieve through demand analysis and production function. On successful completion of this course students will be able to get employability
skills.

Credits:4	Core Course
Max. Marks: 25+75 (Internal + External)	Min. Passing Marks:

Total No. of Lectures-Tutorials-Practical (in hours per week):L-T-P:3-1-0

Unit	Topics	No. of Lectures = 60
I	**Basic Concepts of Economics and Demand Analysis** Meaning and definition of Economics, Scope of Micro Economics; Micro *vs* Macro Economics; Positive *vs* Normative Economics; Problem of scarcity and choice, Opportunity cost and production possibility frontier, Concept of demand, Demand function, Law of demand, Elasticity of demand-Types, Measurement, and Factors affecting demand elasticity.	15
II	**Utility Analysis and Consumer Behaviour:** Utility Analysis- Cardinal Approach; Law of Diminishing Marginal Utility, Law of Equi-Marginal utility, Consumer's equilibrium. Ordinal Approach, Indifferencecurveanalysis-Properties,Budgetlineanditsslope,Consumer'sEquilibrium,Price effect, Income effect and Substitution effect, Derivation of demand curve, Consumer's surplus.	15
III	**Production Theory** Concept of production, Factors of production, Production possibility curve, Production function, short run theory of production, Law of Variable proportions; Long run theory of production, Laws of Returns to scale.	15
IV	**Theory of Cost** Concept of cost, short and long run cost function / curves, Relationship between marginal and average cost, Concept of Iso-cost line and Producer's Equilibrium.	15

Teaching Learning Process: Class discussions / demonstrations, Power Point presentations, Class activities / assignments etc.

References:

- Gould & Lajear — Micro Economics
- Richard A. Bilas — Micro Economic Theory
- Paul, A. Samuelson — Economics
- H.R. Varian — Micro economic Analysis
- Koutsoyiannis, A. — Modern Micro Economics
- Joseph E. Stiglitz — Economics,
- Stonier and Hague — A text book of Economic theory
- R. G. Lipsey — An Introduction to positive economics
- P.A. Samuels — Economics
- Gould and Fergus — Micro Economic Theory

Suggested Continuous Evaluation Methods:
Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses: Suggestive digital platforms weblinks - ePG-Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

Programme: B.A.(Honours / Honours With Research) Economics	**Year: First**	**Semester: I**
Subject: ECONOMICS		
Course Code: DSCC-102	**Course Title: Introductory Macroeconomics**	**(Theory)**

Course Outcomes: On completion of this course, students will be able to understand the basic concepts of macroeconomics and learn how to estimate the aggregate parameters of the economy. On successful completion of this course, students will be able to get employability skills.

Credits:4	**Core Course**
Max. Marks: 25+75 (Internal+ External)	**Min. Passing Marks:**

Total No. of Lectures-Tutorials-Practical(in hours per week):L-T-P:3-1-0

Unit	Topics	No. of Lectures= 60
I	**Basic Concepts of Macroeconomics and National Income:** Nature and Scope of Macro Economics; Concept of Static, Comparative Static and Dynamic in Macro Economics; Concept and Methods of measuring National Income; difficulties in Measuring National Income; inter-relationship among different concepts of National Income.	15
II	**Circular Flow of Income:** Two Sector, Three Sector and Four Sectors of the Economy, Equality between leakages and Injections, Linkages between Savings- Investment Gap, Importance of Circular Flow of Income.	15
III	**Determination of Income and Employment:** Basic Assumptions of Classical Theory - Classical Theory of Employment - Say's Law of Market - Wage - Price Flexibility(Pigou's Version)-Saving and Investment Equality-Evaluation of the Classical Theory of Employment; Keynesian Theory of Employment.	15
IV	**Consumption and Investment Function:** Consumption Function–Short and Long Run Function; Keynesian determinant of consumption functions. Investment Function–Types of investment and determinants of investments; concept of investment functions.	15

Teaching Learning Process: Class discussions / demonstrations, Power point presentations, Class activities / assignments, etc.

References:

- Branson, W.A., Macroeconomics: Theory and Policy,3rd ed. Harper and Harper and Row, New York.
- N. Gregory Mankiw, Macroeconomics,7th edition, Cengage Learning India Private Limited, New Delhi
- Karl E. Case and Ray C. Fair, Principles of Economics, Pearson Education Inc., 8 th Edition, 2007
- Lipsey R.G. and K.A. Christal, Principles of Economicsl 9th Ed., Oxford University Press.
- Shapiro, E., Macroeconomics: Analysisl Galgotia Publication, New Delhi.

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses: Suggestive digital platforms web links-ePG-Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

Programme: B.A.(Honours/ Honours with Research) Economics	Year: First	Semester: I
Subject: ECONOMICS		
Course Code: DSCC-103	Course Title: Basic Mathematics for Economics	(Theory)

Course outcomes: On successful completion of this course students will be able to understand the basic reasoning of Mathematical Economics and understand the uses of Mathematical Economics in consumption;production,costtheoryoffirmsanddistributioninananalyticalwayanddevelops Mathematical models in economics for optimal managerial decisions to get employment.

Credits:4	Core Course
Max.Marks:25+75(Internal + External)	Min. Passing Marks:

TotalNo.ofLectures-Tutorials-Practical(inhoursperweek):L-T-P:3-1-0

Unit	Topics	No. of Lectures = 60
I	**Functions of one real variable** Continuous functions of different types and their graphs- quadratic, polynomial, power, exponential, and logarithmic; Concept of derivatives; Graphical meaning of derivatives; Derivatives of first and second order and their properties; Concept of slope of a straight line and curve; Convexity and Concavity of a curve.	15
II	**Single variable optimization** Problems of maxima and minima in single and multivariable functions; Local and Global optima; Significance of first and second order conditions; Interpretation of necessary and sufficient conditions with examples; Applications in Economics-Profit maximization and cost minimization.	15
III	**Functions of two or more independent variables** Functions of two or more independent variables; Partial differentiation techniques; Yung Theorem; Geometric interpretation of partial derivatives; Partial derivatives inEconomics;Elasticityofafunction–demandandcostelasticity,crossand Partial elasticity; Constrained optimization (Lagrange Multiplier).	15
IV	**Introduction to Integration** Concept of integration; simple rules of integration; Definite integration and its application to consumer's surplus and producer's surplus.	15

Teaching Learning Process: Class discussions/ demonstrations, Power point presentations, Class activities/ assignments etc.

References:

- A.C. Chiang and K. Wainwright(2005): Fundamental Methods of Mathematical Economics, McGraw Hill International Edition.
- Allen,R.G.D (2006): Mathematical Analysis For Economists, Macmillan and Company Limited.
- K. Sydsaeter and P.J.Hammond(2002):MathematicsforEconomicAnalysis,PearsonEducational Asia.
- Mehta and Madnani: Mathematics for Economists, New Delhi: Sultan Chand Company.
- T. Yamane (2012): Mathematics for Economists, Prentice-Hall of India.
- Mukherji and S. Guha: Mathematical Methods and Economic Theory, Oxford University Press, 2011.

Suggested Continuous Evaluation Methods:
Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses:
Suggestive digital platforms weblinks - ePG-Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

Programme: B.A. (Honours / Honours with Research) Economics	Year: First	Semester: I
	Subject: ECONOMICS	
Course Code: MGEC-101	Course Title: Introductory Microeconomics	(Theory)

Course Outcomes: On completion of this course, students will be able to understand the basic concepts of microeconomics and learn how to consumer's and producer's equilibrium achieve through demand analysis and production function. On successful completion of this course students will be able to get employability skills.

Credits:4	Core Course
Max. Marks: 25+75 (Internal + External)	Min. Passing Marks:

Total No. of Lectures-Tutorials-Practical (in hours per week):L-T-P:3-1-0

Unit	Topics	No. of Lectures = 60
I	**Basic Concepts of Economics and Demand Analysis** Meaning and definition of Economics, Scope of Micro Economics; Micro *vs* Macro Economics; Positive *vs* Normative Economics; Problem of scarcity and choice, Opportunity cost and production possibility frontier, Concept of demand, Demand function, Law of demand, Elasticity of demand-Types, Measurement, and Factors affecting demand elasticity.	15
II	**Utility Analysis and Consumer Behaviour:** Utility Analysis- Cardinal Approach; Law of Diminishing Marginal Utility, Law of Equi-Marginal utility, Consumer's equilibrium. Ordinal Approach, Indifferencecurveanalysis- Properties,Budgetlineanditsslope,Consumer'sEquilibrium,Price effect, Income effect and Substitution effect, Derivation of demand curve, Consumer's surplus.	15
III	**Production Theory** Concept of production, Factors of production, Production possibility curve, Production function, short run theory of production, Law of Variable proportions; Long run theory of production, Laws of Returns to scale.	15
IV	**Theory of Cost** Concept of cost, short and long run cost function / curves, Relationship between marginal and average cost, Concept of Iso-cost line and Producer's Equilibrium.	15

Teaching Learning Process: Class discussions / demonstrations, Power Point presentations, Class activities / assignments etc.

References:

- Gould & Lajear — Micro Economics
- Richard A. Bilas — Micro Economic Theory
- Paul, A. Samuelson — Economics
- H.R. Varian — Micro economic Analysis
- Koutsoyiannis, A. — Modern Micro Economics
- Joseph E. Stiglitz — Economics,
- Stonier and Hague — A text book of Economic theory
- R. G. Lipsey — An Introduction to positive economics
- P.A. Samuels — Economics
- Gould and Fergus — Micro Economic Theory

Suggested Continuous Evaluation Methods:
Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses: Suggestive digital platforms weblinks - ePG-Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

B.A. (Honours/ Honours with Research) Economics, Semester-I

Ability Enhancement Course (AEC), Skill Enhancement Course(SEC) and Value Addition Course (VAC)

Department	ECONOMICS			
Type of course	**Semester**	**Title**	**Syllabus**	**Credit**
AEC-101 Courses framed By the department	I	Leadership and Personality Development	**Unit-I** Define Personality, Determinants of Personality Development, Perceptual Process, Developing Effective Habits, Emotional Intelligence. **Unit-II** Motivation, Introspection, Self - Assessment, Types of Personalities – Introvert, Extrovert & Ambivert person, Effective communication & Its key aspects.	2
SEC-101 Courses framed By the department	I	Introduction to MS– Excel	**Unit-I** Introduction to MS-Office, MS Excel Interface, Creation of a New Spreadsheet, Open and working on n Existing Worksheet, Basic of Mathematical and statistical formulae **Unit-II** Data analysis and Graphs preparation With the help of MS-Excel	2
VAC-101 Courses framed By the department	I	Value & Ethics	**Unit-I** Need, Basic Guidelines, Content and Process for Value Education; Understanding Harmony in the Family and Society-Harmony in Human-Human Relationship **Unit-II** Understanding Harmony in Nature and Existence-Whole Existence as Co-existence; Understanding of Harmony on Professional Ethics	2

Programme: B.A.(Honours) Economics	Year: First	Semester: II
Subject: ECONOMICS		
Course Code: DSCC-201	Course Title: Microeconomic Theory	(Theory)

Course outcomes: This course is designed to expose the students to the basic principles of microeconomic theory. The emphasis will be on thinking like an economist and the course will illustrate how microeconomic concepts can be applied to analyze real-life situations.

Credits: 4	**Core Course**
Max. Marks: 25+75 (Internal + External)	**Min. Passing Marks:**

Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 5-1-0

Unit	Topics	No. of Lectures = 60
I	Perfect Competition, Perfect competition-short run and long run equilibrium of the firm and industry, price and output determination, supply curve; Monopoly-short run and long run equilibrium, Comparison of Perfect Competition and Monopoly, Price Discrimination, Price Discrimination and Elasticity of Demand.	15
II	Monopolistic competition-general and Chamberlin approaches to equilibrium, equilibrium of the firm and the group with price variation, product differentiation and selling costs, excess capacity under monopolistic and imperfect competition; Basic features of Non-collusive & collusive oligopoly Models.	15
III	Theory of Distribution: Ricardian Theory of Rent, Classical and Keynesian Theories of Interest, Marginal Productivity Theory to determine Wages, Theories of Profit (Clark, Schumpeter, and knight)	15
IV	Welfare Economics: Basic concepts of welfare Economics, Pareto Optimality Criterion, Efficiency in Exchange, Efficiency in Resource allocation, Compensation criterion.	15

Teaching Learning Process: Class discussions / demonstrations, Power point presentations, Class activities / assignments etc.

References:

1. Koutsoyiannis, A,(1979), Modern Micro Economics, Macmillan Press, London.
2. Richard A Bilal- Micro Economics Theory.
3. Gould & Laged Gajear –Micro Economics theory
4. Joshi.M.Theory of value, Distribution and Welfare Economics, Vikas Publication House, New Delhi.
5. RayN C, An Introduction toMicroEconomics, MacMillan Company.
6. Ahuja H.L. Modern Micro Economics, SChand & Company Ltd, New Delhi.
7. Karl E Case & Ray C Fair – Principles of Economics, Pearson Education Inc 8th edition,2007
8. Choudhary, Kalyanjit Roy (1999), Modern Micro Economic Theory, Pragmatic Publication, Delhi.
9. J. R. Hicks, Value and Capital
10. E. H. Chamberlin, The Theory of Monopolistic Competition

Suggested Continuous Evaluation Methods:
Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Programme: B.A.(Honours) Economics	Year: First		Semester: II
Subject: ECONOMICS			
Course Code: DSCC-202	Course Title: Macroeconomic Theory		(Theory)

Course outcomes: After completion of the course, students will be familiar with the basic concepts in macroeconomics; the basics of Keynesian economics; the building blocks of monetary economics. To acquaint students with the aggregate demand-aggregate supply framework; IS-LM model and tools of Fiscal and monetary policies.

Credits: 4	Core Course
Max. Marks: 25+75 (Internal + External)	**Min. Passing Marks:**

Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 5-1-0

Unit	Topics	No. of Lectures= 60
I	**The Basics of Keynesian Economics & AD-AS Framework:** Keynesian Cross; Basic Keynesian Concepts; An introduction to the General Theory of Interest, Unemployment, and Money; The AD-AS Framework: Derivation of aggregate demand and aggregate and supply curves; interaction of aggregate demand and supply to determine equilibrium output, price level, and employment; The Short-Run Trade-off between Inflation and Unemployment Economic Fluctuations.	15
II	**IS-LM Model:** Derivation of IS and LM functions, IS-LM and aggregate demand, shift in AD curve; application of IS-LM in a close and open economy; limitation of IS-LM model.	15
III	**Monetary Theory:** Money and Prices - Functions of money; quantity theory of money; determination of money supply (M1, M2, M3 & M4) and demand; credit creation; Introduction to transmission mechanism for money, Monetary Policy	15
IV	**Saving, Investment and Financial System:** Saving & Investment – Ex post and Ex ante, Equality and equilibrium, Investment multiples and the principle of the accelerator; Introduction to financial markets and institutions.	15

Teaching Learning Process: Class discussions/ demonstrations, Power point presentations, Class activities/ assignments etc.

References:

1. Ahuja H L – Advanced Macro Economic theory, S Chand & Company Ltd, Delhi. Andrew B. Abel and Ben S
2. Bernanke, Macro Economics, Pearson Education, Inc., 7th edition, 2011
3. Dornbusch R, Fischer S, Startz R. 2018, Macroeconomics (12th edition)., Tata McGraw Hill.
4. Bradley R. Schiller, Macro Economy Today, Tata Mc Graw-Hill, 11th edition.
5. Froyen RT (2008), Macro Economics, Theory and Policies, Prentice Hall.
6. Gupta, S. B., 2012, Monetary economics: institutions, theory and policy, S. Chand & Company.
7. Mankiw, N. Gregory 2008, Principles of Macroeconomics (5th Edition), Cengage Learning.
8. Nellis, G. Joseph and Parker, D 2004, Principles of Macroeconomics, Financial Times Prentice Hall, Pearson
9. Education.
10. 8. Olivier Blanchard, Macro Economics, Pearson Education, Inc., 5th edition, 2009.
11. 9. Rana K C and K N Verma, Macro Economics Analysis, S Nagin & Co. Delhi
12. Shapiro E. Macroeconomics Analysis. Galgotia Publication, New Delhi.

Suggested Continuous Evaluation Methods:
Assignment, Internal, Quiz, PPT presentation, External Examination etc.

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Programme: B.A.(Honours) Economics	Year: First	Semester: II
Subject: ECONOMICS		
Course Code: DSCC-203	Course Title: Basic Statistics for Economics	(Theory)

Course outcomes: On successful completion of this course students will be able to have an understanding of the basic reasoning of statistics and understand the uses of statistics in the theory of economics in an analytical way and develop statistical tools in economics for optimal decisions to get employment in the business world.

Credits: 4	Core Course
Max. Marks: 25+75 (Internal + External)	Min. Passing Marks:

Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 5-1-0

Unit	Topics	No. of Lectures= 60
I	**Introduction to Statistics**: Nature, Scope, and Limitations of Statistics - Collection of data - Primary and Secondary Data - Methods of collecting Primary Data - Classification and Tabulation of Data.	15
II	**Diagrammatic and Graphical Representation of Data:** Bar diagrams - One-dimensional and Two-dimensional diagrams, Pictograms and Cartograms, Frequency Distribution - Univariate and Bivariate Frequency Distributions, Histogram, Frequency Curve, Ogive Curves.	15
III	**Measures of Central Tendency:** Mean, Median, and Mode - their Merits and Demerits, Geometric Mean, Harmonic Mean, Relationship between AM, GM and HM, Combined Mean.	15
IV	**Measures of Dispersion:** Measures of Dispersion Range, Mean deviation, Quartile Deviation, Standard Deviation and Lorenz Curve; Skewness - Karl Pearson's and Bowley's Coefficient of Skewness - Kurtosis.	15

Teaching Learning Process: Class discussions/ demonstrations, Power point presentations, Class activities/ assignments etc.

References:

- D. N.Elhance, Veena Elhance and B.M Agarwal, Fundamental of statistics, Kitab Mahal, Allahabad.
- E. Narayanan Nadar, Statistics, PHI Learning Private Limited, New Delhi.
- Murray R. Speigel, Theory and Problems of Statistics, Schaum Publishing Series.
- S.C Gupta, Fundamental of statistics, Himalaya Publishing House, New Delhi.

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Programme: **B.A.(Honours) Economics**	**Year: First**	**Semester: II**
Subject: ECONOMICS		
Course Code: MGEC-201	**Course Title: Basic Statistics for Economics**	**(Theory)**

Course outcomes: On successful completion of this course students will be able to have an understanding of the basic reasoning of statistics and understand the uses of statistics in the theory of economics in an analytical way and develop statistical tools in economics for optimal decisions to get employment in the business world.

Credits: 4	**Minor Generic Elective Course (For other department students)**
Max. Marks: 25+75 (Internal + External)	**Min. Passing Marks:**

Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P: 5-1-0

Unit	Topics	No. of Lectures 60
I	**Introduction to Statistics**: Nature, Scope, and Limitations of Statistics - Collection of data - Primary and Secondary Data - Methods of collecting Primary Data - Classification and Tabulation of Data.	15
II	**Diagrammatic and Graphical Representation of Data:** Bar diagrams - One-dimensional and Two-dimensional diagrams, Pictograms and Cartograms, Frequency Distribution - Univariate and Bivariate Frequency Distributions, Histogram, Frequency Curve, Ogive Curves.	15
III	**Measures of Central Tendency:** Mean, Median, and Mode - their Merits and Demerits, Geometric Mean, Harmonic Mean, Relationship between AM, GM and HM, Combined Mean.	15
IV	**Measures of Dispersion:** Measures of Dispersion Range, Mean deviation, Quartile Deviation, Standard Deviation and Lorenz Curve; Skewness - Karl Pearson's and Bowley's Coefficient of Skewness - Kurtosis.	15

Teaching Learning Process: Class discussions/ demonstrations, Power point presentations, Class activities/ assignments etc.

References:

- D. N.Elhance, Veena Elhance and B.M Agarwal, Fundamental of statistics, Kitab Mahal, Allahabad.
- E. Narayanan Nadar, Statistics, PHI Learning Private Limited, New Delhi.
- Murray R. Speigel, Theory and Problems of Statistics, Schaum Publishing Series.
- S.C Gupta, Fundamental of statistics, Himalaya Publishing House, New Delhi.

Suggested Continuous Evaluation Methods:
Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Ability Enhancement Course (AEC) Skill Enhancement Course (SEC) and Value Addition Course (VAC)

B.A. (Honours/ Honours with Research) Economics, Semester-II

Department	**ECONOMICS**			
Type of course	**Semester**	**Title**	**Syllabus**	**Credit**
AEC-201 Courses framed by the department	II	Select AEC course from the university pool	--	2
SEC-201 Courses framed by the department	II	Introduction to Statistical Software-SPSS	**Unit-I:** Introduction to SPSS, Creation of a database, Open and working on an Existing file, creation, transformation of variables, value labels, Basic of data analysis and Graphs preparation with the help of SPSS. **Unit II:** Data analyses in SPSS –Functions and Density Functions, Command description for SPSS – Reports, Descriptive Statistics, Compare Means, Correlation and Regression Models.	2
VAC-201 Courses framed by the department	II	Select VAC course from the swyam portal	--	2

Programme: B.A. (Honours/Honours with Research)	Year: Second	Semester: III
Subject: ECONOMICS		
Course Code: DSCC 301	**Course Title: Indian Economy**	**(Theory)**

Course Outcomes: On completion of this course, students will be able to understand the basic concepts & features of Indian economy and learn how to Indian economy plays the role in the development of the nation. On successful completion of this course students will be able to get employability skills.

Credits:4	Core Course
Max.Marks:25+75 (Internal + External)	Min. Passing Marks:

Total No. of Lectures-Tutorials-Practical(in hours per week):L-T-P:3-1-0

Unit	Topics	No. of Lectures=60
I	**Basic Concepts & Features of Indian Economy** Salient features of the Indian economy; basic economic indicators and their importance; sectorial changes in Indian economy; Salient features of recent Union Budget.	15
II	**Growth and Distribution of National Income** Growth and composition of National Income; Concept of Consumer Price Index; Whole Sale Price Index; Concept of Poverty and recent poverty elimination programmes; Income inequality and policy interventions.	15
III	**Population and Human Development** Unemployment problem–Nature and recent estimates; Government policy for removing unemployment, Human development: Concept and indices, Hunger Index, Human development index, Gender development index, Happiness index	15
IV	**Industry& Agriculture Sector** Growth and Pattern of Industrialization; Performance and problems MSME Sector; Concepts of Privatization and Disinvestment; Features and performance of Indian agriculture sector; Land reforms; pricing of agricultural products; new agricultural strategy.	15

Teaching Learning Process: Class discussions/ demonstrations, Power point presentations, Class activities/ assignments etc.

References:

- Alakh Ghosh- Indian Economy-It nature and problems.
- JalanBimal-The Indian Economic Crisis,The way Ahead.
- Rakesh Mohan, 2008, —Growth Record of Indian Economy: 1950-2008. A Story of Sustained Savings and Investment, Economic and Political Weekly,May.4
- RamaBaruetal,2010,—Inequities in Access to Health Services in India: Caste, Class and Region, EPW
- Pulapre Balakrishnan, 2007, The Recovery of India: Economic Growth in the Nehru Era, EPW, November.
- Himanshu,2010, Towards New Poverty Lines for India, Economic and Political Weekly, January.6.
- Jean Dreze and Angus Deaton, 2009, Food and Nutrition in India: Facts and Intepretations, EPW
- Mishra SK and Puri VK – Indian Economics, Himalaya Publishing House, Delhi.
- Uma Kapila, (14th edition), Indian Economy; Performances and Policies.
- Kumar, Sanjeev, 2020, The State of Indian Agriculture, Sage Publication

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses:
Suggestive digital platforms weblinks - ePG-Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal
http://heecontent.upsdc.gov.in/Home.aspx

Programme: B.A. (Honours/ Honours with Research)	Year: Second	Semester: III
Subject: ECONOMICS		
Course Code: DSCC 302	**Course Title: Public Finance**	**(Theory)**

Course Outcomes: The outcomes for the course are:

- Understand knowledge of the basics of tax and expenditure measures.
- Understand the basic problems of use of resources and distribution of income
- Understand the role and functions of the Government in an economy
- Understand fiscal policy to resolve the macroeconomic problems

Credits:4	Core Course
Max.Marks:25+75 (Internal + External)	Min. Passing Marks:

TotalNo.ofLectures-Tutorials-Practical(inhoursperweek):L-T-P:3-1-0

Unit	Topics	No. of Lectures =60
I	Introduction: Meaning and Scope of Public Finance; Public versus Private Finance; Public Goods versus Private Goods; Concept of Merit Goods; Externalities; Principle of Maximum Social Advantage	15
II	Public Expenditure: Meaning and Importance of Public Expenditure; Canons of Public Expenditure; Theories of Public Expenditure- Wagner's Principle, Wiseman Peacock Hypothesis; Effects of Public Expenditure	15
III	Public Revenue: Meaning, Nature and classification of Public Revenue; Sources of Public Revenue; taxes - Direct and Indirect Taxes, Canons of Taxation; Process of Taxation; Modern Theory of Tax Shifting; Impact and incidence of Tax; Effects of taxation.	15
IV	Public Debt: Meaning and Types of Public Debt; Canons of Public Debt; Public Debt Redemption; Public Debt Management; Effects of Public Debt, Deficit Financing	15

Teaching Learning Process: Class discussions / demonstrations, Power-Point presentations, Class activities/ assignments etc.

References:

Basic Reading List:

- R. A. Musgrave & Peggy B. Musgrave- Public Finance in Theory and Practice.
- Gruber, Jonathan- Public Finance and Public Policy, Worth
- R. J. Chelliah- Fiscal Policy in underdeveloped countries
- Janak Raj Gupta- Public Economics in India, Atlantic
- S.K. Singh- Public Finance in Theory & Practice; Public. S. Chand, New Delhi
- H. L. Bhatia- Public Finance
- T.N. Hazela, Public Finance

Suggested Continuous Evaluation Methods:
Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses:
Suggestive digital platforms weblinks - ePG-Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal
http://heecontent.upsdc.gov.in/Home.aspx

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Programme: B.A. (Honours/ Honours with Research)	Year: Second	Semester: III

Subject: ECONOMICS

Course Code: DSCC 303	Course Title: Quantitative Methods for Economics	(Theory)

Course Outcomes: On completion of this course, students will be able to understand the basic concepts Quantitative methods for economics analysis, The main objective of this paper is to train the students to use the techniques of mathematical and statistical analysis, which are commonly applied to understand and analyze economic problems. The emphasis of this paper is on understanding economic concepts with the help of quantitative methods.

Credits:4	Core Course
Max.Marks:25+75 (Internal + External)	Min. Passing Marks:

Total No. of Lectures-Tutorials-Practical (in hours per week):L-T-P:3-1-0

Unit	Topics	No. of Lectures =60
I	**Index Number** Meaning and Types of Index Number, Problems involved in the construction of index number, Types of Index Number; Laspeyres, Paasche, Fisher, Dornbish-Bowley, Marshall-Edgeworth and Kelly's Index Numbers. Concept of Ideal Index Number: Time and Factor Reversal Tests	15
II	**Time Series** Meaning, Significance and Components of Time Series – Trend, Seasonal, Cyclical and Irregular Variations, Measurement of Trend: Freehand or Graphic Method, Method of Semi-Averages, Method of Moving Averages, Method of Least Squares.	15
III	**Correlation** Meaning and Definition of Correlation, Types of Correlation, Measurement of Correlation: Scatter diagram, Correlation graph, Karl Pearson coefficient of Correlation, Spearman's Rank Correlation Coefficient, Probable and Standard Errors of Coefficient of Correlation.	15
IV	**Matrix and Determinant** Concept of Matrix and Determinant – their types, simple operations on matrices and determinants, matrix inversion and rank of matrix; Solution of simultaneous equations through Cramer's rule	15

Teaching Learning Process: Class discussions/ demonstrations, Power-point presentations, Class activities/ assignments etc.

References:

- S.P.Gupta, Statistical Methods, Sultan Chand.
- Sanchetti and Kapoor, Statistics, Sultan Chand.
- -G.C.Beri, Statistics For Managemet,Tata McGraw Hill.
- Taro Yamane, Mathematics for Economists, PHI, 1973.
- Allen R.G.D. (1974), Mathematical Analysis for Economists, Macmillan Press, London.
- Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics (3rd Edition), McGraw Hill, New Delhi.
- Mehta and Madnani, Mathematical Economics, Sultan Chand.

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses:
Suggestive digital platforms weblinks-ePG-Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal
http://heecontent.upsdc.gov.in/Home.aspx

Programme: B.A. (Honours/Honourswith Research)	Year: Second	Semester: III
Subject: ECONOMICS		
Course Code: DSEC 301	**Course Title: Money & Banking**	**(Theory)**

Course Outcomes: On completion of this course, the students will learn the role of central and commercial banks in the process of money creation and control. This course is designed to analyze the impact of money on some of the economy's key variables such as interest rates, inflation, and the banking industry.

Credits:4	Major Discipline Specific Elective Course
Max.Marks:25+75(Internal + External)	Min. Passing Marks:

Total No. of Lectures-Tutorials-Practical (in hours per week): L-T-P:3-1-0

Unit	Topics	No. of Lectures =60
I	**Money: Theory and Approaches** Money: Meaning, functions and classification, Role of money in capitalist, socialist and mixed economies, Monetary standards – Metallic and paper standards, system of note issues in India.	15
II	**Commercial Banks** Banking: Meaning and types of Banks. Functions of Commercial banks. Process of credit creation. Liabilities and assets of banks. Nationalization of commercial banks in India. Recent reforms in banking sector in India.	15
III	**Central Bank - Reserve Bank of India** Functions of Central Bank. Quantitative and qualitative methods of credit control, Role and functions of the Reserve Bank of India, Monetary Policy	15
IV	**Financial Markets** Structure and importance of Money Market. Indian Money market, Indian Capital Market,	15

Teaching Learning Process: Class discussions/ demonstrations, Power-point presentations, Classactivities/ assignments etc.

References:

- Hajela, T.N., (2009) Money and Banking, Ane Books Pvt Ltd., New Delhi.
- M.R. Baye, D.W. Jansen (1996), Money, Banking and Financial Markets, AITBS (Indian ed.)
- K.C. Sekhar: Banking – Theory and Practice, Vikas Publishing House, New Delhi (recent edition).
- S.B. Gupta, Monetary Economics, S. Chand Publications, New Delhi.
- M.L. Seth, Monetary Economics, Vikas Publications, New Delhi
- R.R. Paul, Money, Banking & International Trade, Kalyani Publications, Ludhiana.

Suggested Continuous Evaluation Methods:
Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses:
Suggestive digital platforms weblinks - ePG-Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

Programme: B.A. (Honours/ Honours with Research)	Year: Second	Semester: III

Subject: ECONOMICS

Course Code: DSEC 302	Course Title: Economy of Uttar Pradesh	(Theory)

Course Outcomes: This paper aims to introduce students with the basic economic features of Uttar Pradesh economy, growth pattern, agriculture and rural development, and sectoral growth and development in Uttar Pradesh.

Credits:4	Major Discipline Specific Elective Course
Max.Marks:25+75 (Internal + External)	Min. Passing Marks: 40

Total No. of Lectures-Tutorials-Practical (in hours per week):L-T-P:3-1-0

Unit	Topics	No. of Lectures =60
I	**Introduction: Overview of Uttar Pradesh Economy** Nature, Features, Demographic Profile, Status of Natural Resources, Major Factors affecting growth and development in Uttar Pradesh: economic and non-economic factors in economic development of Uttar Pradesh. Sectoral growth pattern of in Uttar Pradesh.	15
II	**Agricultural and Rural Development in Uttar Pradesh** Pattern of land-holding and irrigation; production and productivity in agriculture, Farm mechanization, Crop diversification, agricultural credit, Agricultural policy and strategies in Uttar Pradesh, Rural Development – Problems and Policies.	15
III	**Industry Sector: Industrial Development in Uttar Pradesh** Major Industries in Uttar Pradesh, Pattern of Industrial Development in Uttar Pradesh, Industrial Policy of Uttar Pradesh	15
IV	**Service Sector: Service Sector Development in Uttar Pradesh** Major Service Sector in Uttar Pradesh- Education and Health, Growth pattern of Services Sector and its linkages with other sectors of Uttar Pradesh Economy.	15

Teaching Learning Process: Class discussions/ demonstrations, Power-point presentations, Classactivities/ assignments etc.

References:

- M K Agarwal, Uttar Pradesh ka Arthik Vikas.
- Sanjeev Kumar, "Agrarian Economy of Uttar Pradesh, Atlantic Publishers & Distributors
- Publications of the Government of Uttar Pradesh.
- Uttar Pradesh Human Development Report, UNDP, 2008.
- Uttar Pradesh State Development Report, Volume I & II, State Plan Division,
- http://heecontent.upsdc.gov.in/

Suggested Continuous Evaluation Methods:
Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses:
Suggestive digital platforms weblinks - ePG-Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

Programme: B.A. (Honours/ Honours with Research)	Year: Second	Semester: III
Subject: ECONOMICS		
Course Code: DSEC 303	Course Title: Economics of Infrastructure	(Theory)

Course Outcomes: This course has been designed to impart the knowledge about the importance of infrastructure in economic growth development. It will help the learners to know about the role of infrastructure in economic development. The learners will also learn about the various schemes and policies for infrastructure development in India.

Credits: 4	Major Discipline Specific Elective Course
Max. Marks: 25+75 (Internal + External)	Min. Passing Marks: 40

Total No. of Lectures-Tutorials-Practical (in hours per week):L-T-P:3-1-0

Unit	Topics	No. of Lectures=60
I	**Introduction** Nature and scope of infrastructure economics, infrastructure and its characteristics, types of infrastructure, significance of infrastructure, linkages between infrastructure and economic development, problems of infrastructure development in developing countries.	15
II	**Economic and Social Infrastructure** Physical Infrastructure: Transport, Information & Communication, energy; Social Infrastructure: Education and Health, Sources and problems of financing infrastructure	15
III	**Transport, Communication and Financial Infrastructure** Transport: Modes, problems and importance of transport system; pricing principles; Preset and issues in transport infrastructure in India; Communication: Postal services and telecommunication. Role of Banks in economic development– Progress of Banking System since nationalisation	15
IV	**Rural and Urban Infrastructure Development Schemes in India** Prime Minister Gram Sadak Yojana (PMGSY), Provision of Urban Amenities in Rural Areas(PURA); Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY); Reviving Water Harvesting Systems and Watershed; Swachh Bharat Mission (Rural and Urban); Pradhan Mantri Jan Arogya Yojana (PMJAY); PM Surya Ghar: Muft Bijli Yojana; Smart City: Key Components, Performance and Challenges.	15

Teaching Learning Process: Class discussions/ demonstrations, Power-point presentations, Class activities/ assignments etc.

References:

- Indian Council of Social Sciences Research (ICSSR), Economics of InfrastructureVol.VI, New Delhi, 1976.
- Garfield, P. J. and W. Lovjoy, Public Utility Economics, Prentice Hall, Englewood Cliffs, 1964.
- Government of India, Various Policies Documents and Reports.
- Parikh, K.S. (Ed.). India Development Reports. Oxford University Press, New Delhi.
- Button, K. (2010). Transport Economics. Edward Elgar.
- McMohan, W.W. (2000). Education and Development: Measuring the Social Benefit. Oxford University Press.

Suggested Continuous Evaluation Methods:
Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses:
Suggestive digital platforms weblinks - ePG-Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal
http://heecontent.upsdc.gov.in/Home.aspx

Programme: B.A. (Honours/ Honours with Research)	Year: Second	Semester: III
Subject: ECONOMICS		
Course Code: MGEC 301	**Course Title: Indian Economy (For Other Department)**	**(Theory)**

Course Outcomes: On completion of this course, students will be able to understand the basic concepts & features of Indian economy and learn how to Indian economy plays the role in the development of the nation. On successful completion of this course students will be able to get employability skills.

Credits:4	Minor Generic Elective Course
Max.Marks:25+75 (Internal + External)	Min. Passing Marks:

TotalNo.ofLectures-Tutorials-Practical(inhoursperweek):L-T-P:3-1-0

Unit	Topics	No. of Lectures =60
I	**Basic Concepts & Features of Indian Economy** Salient features of the Indian economy; basic economic indicators and their importance; sectorial changes in Indian economy; Salient features of recent Union Budget.	15
II	**Growth and Distribution of National Income** Growth and composition of National Income; Concept of Consumer Price Index; Whole Sale Price Index; Concept of Poverty and recent poverty elimination programmes; Income inequality and policy interventions.	15
III	**Population and Human Development** Unemployment problem–Nature and recent estimates; Government policy for removing unemployment, Human development: Concept and indices, Hunger Index, Human development index, Gender development index, Happiness index	15
IV	**Industry& Agriculture Sector** Growth and Pattern of Industrialization; Performance and problems MSME Sector; Concepts of Privatization and Disinvestment; Features and performance of Indian agriculture sector; Land reforms; pricing of agricultural products; new agricultural strategy.	15

Teaching Learning Process: Class discussions/ demonstrations, Power-point presentations, Class activities/ assignments etc.

References:

- Alakh Ghosh- Indian Economy - It nature and problems.
- Jalan Bimal - The Indian Economic Crisis,Theway Ahead.
- Rakesh Mohan, 2008, —Growth Record of Indian Economy: 1950-2008. A Story of Sustained Savings and Investment, Economic and Political Weekly, May.4
- Rama Baruetal, 2010—Inequities in Access to Health Services in India: Caste, Class and Region, EPW
- Pulapre Balakrishnan, 2007, The Recovery of India: Economic Growth in the Nehru Era, EPW, November.
- Himanshu, 2010, Towards New Poverty Lines for India, Economic and Political Weekly, January.6.
- Jean Dreze and Angus Deaton, 2009, Food and Nutrition in India: Facts and Intepretations, EPW
- Mishra SK and Puri VK – Indian Economics, Himalaya Publishing House, Delhi.
- Uma Kapila, (14th edition), Indian Economy; Performances and Policies
- Kumar, Sanjeev, 2020, The State of Indian Agriculture, Sage Publication

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses:
Suggestive digital platforms weblinks - ePG-Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal
http://heecontent.upsdc.gov.in/Home.aspx

Skill Enhancement Course (SEC)-III
B.A. (Honours/Honours with Research)
Economics, Semester-III

Course Description: During this one-week course students will obtain the necessary skills to be able to work and conduct their own empirical analyses with the statistical software STATA. This will be a good basis for the writing of an empirical seminar paper, a Bachelor dissertation.

Department	**ECONOMICS**			
Type of course	**Semester**	**Title**	**Syllabus**	**Credit**
SEC-301 Courses framed By the department	III	Introduction to STATA	**Unit-I** Features of Stata, Basic commands of STATA, Do-files and log-files, Data management, graphs, Data manipulation: Creating new variables (gen, egen, replace, recode), Missing values (mvdecode), Descriptive statistics, Correlation analysis **Unit-II** Regression analysis, Time series data analysis, Analysis of survey data, Post estimation: Hypothesis testing (test, testparm), Predict.	2

<table>
<tr><td colspan="2">Programme: B.A. (Honours/ Honours with Research)</td><td>Year: Second</td><td>Semester: IV</td></tr>
<tr><td colspan="4">Subject: ECONOMICS</td></tr>
<tr><td colspan="2">Course Code: DSCC -401</td><td>Course Title: Financial Economics</td><td>Theory</td></tr>
<tr><td colspan="4">Course Outcomes:</td></tr>
<tr><td colspan="3">Credits: 4</td><td>Core Course (CC)</td></tr>
<tr><td colspan="3">Max. Marks: 25+75 (Internal + External)</td><td>Min. Passing Marks:</td></tr>
<tr><td colspan="4">Total No. of Lectures – Tutorials - Practical (in hours per week): L-T-P: 4-1-0</td></tr>
<tr><td>Units</td><td colspan="2">Topics</td><td>No. of Lectures 60</td></tr>
<tr><td>UNIT I</td><td colspan="2">Investment Theory and Portfolio Analysis
a. Deterministic cash-flow streams
Basic theory of interest; discounting and present value; internal rate of return; evaluation criteria; fixed-income securities; bond prices and yields; interest rate sensitivity and duration; immunization; the term structure of interest rates; yield curves; spot rates and forward rates.
b. Single-period random cash flows
Random asset returns; portfolios of assets; portfolio mean and variance; feasible combinations of mean and variance; mean-variance portfolio analysis: the Markowitz model and the two-fund theorem; risk-free assets and the one-fund theorem.
c. CAPM
The capital market line; the capital asset pricing model; the beta of an asset and of a portfolio; security market line; use of the CAPM model in investment analysis and as a pricing formula.</td><td>15</td></tr>
<tr><td>UNIT II</td><td colspan="2">Money Market and Debt Market
Money market: meaning and functions- Structure of money market in India (dichotomous & heterogeneous) - Participants and instruments in Indian money market- Features of Indian money market- Reforms in Indian money market - Role of the RBI.
Debt market: meaning & functions - Segments in debt market- Participants & instruments in debt market- Role of intermediaries and the government in debt market - Recent trends in India's debt market.</td><td>15</td></tr>
<tr><td>UNIT III</td><td colspan="2">Capital market
Capital market: meaning, role and factors affecting growth of capital market - Structure of capital market- New issues or primary market: features, participants & intermediaries - Overview of issue mechanisms or methods of raising primary issues- Reforms in primary segment of Indian capital market & role of the SEBI.
Secondary market: features, participants & intermediaries - Listing of securities: types, advantages, requisites of listing - Basic mechanism of trading in securities - DEMAT- introduction to major stock exchanges in India: BSE, NSE and OTCEI- Reforms in secondary segment of Indian capital market.</td><td>15</td></tr>
<tr><td>UNIT IV</td><td colspan="2">Options and Derivatives
Introduction to derivatives and options; forward and futures contracts; options; other derivatives; forward and future prices; stock index futures; interest rate futures; the use of futures for hedging; duration-based hedging strategies; option markets; call and put options; factors affecting option prices; put-call parity; option trading strategies: spreads; straddles; strips and</td><td>15</td></tr>
</table>

	straps; strangles; the principle of arbitrage; discrete processes and the binomial tree model; risk neutral valuation.	

Teaching Learning Process: Class Lecturers, Class discussion/demonstrations, PowerPoint presentations, Class activities and assignments etc.

Suggested Readings:

1. David G. Luenberger, *Investment Science*, Oxford University Press, USA, 1997.
2. Hull, John C., *Options, Futures and Other Derivatives*, Pearson Education, 6th edition, 2005.
3. Thomas E. Copeland, J. Fred Weston and Kuldeep Shastri, *Financial Theory and Corporate Policy*, Prentice Hall, 4th edition, 2003.
4. Richard A. Brealey and Stewart C. Myers, *Principles of Corporate Finance*, McGraw-Hill, 7th edition, 2002.
5. Stephen A. Ross, Randolph W. Westerfield and Bradford D. Jordan, *Fundamentals of Corporate Finance*. McGraw-Hill, 7th edition, 2005.
6. William Sharpe, Gordon Alexander and Jeffery Bailey, *Investments,* Prentice Hall of India, 6th edition, 2003.

Programme: B.A. (Honours/ Honours with Research)	Year: Second	Semester: IV
Subject: ECONOMICS		
Course Code: DSCC 402	**Course Title: History of Economic Thought**	**(Theory)**

Course Outcomes: This course is essential for a student who aspires for advanced training in Economics. Contemporary economic science has evolved over many centuries. The evolution of economic ideas in each instance was as much a response to immediate economic problems and policy issues as much as it was a self-conscious attempt to refine earlier analysis by correcting mistakes and filling in the gaps in analysis. Economic ideas did not evolve in isolation, but were an integral and important part of the evolution of modern social thought. Prevailing ideas of science, scientific rigour and measurement played a significant role in the shaping of economic science at each stage of its evolution. This course, tracing the history of economic thought, would enable the student to understand how contemporary economics came to be what it is.

Credits: 4	**Core Course (CC)**
Max. Marks: 25+75 (Internal + External)	Min. Passing Marks: 40

Total No. of Lectures – Tutorials – Practical (in hours per week) : L-T-P:3-1-0

Unit	Topics	No. of Lectures =60
I	**Introduction:** The history of Economic Thought and its Role; The Stages of Economic Theorising; Economics and History of Economic Thought; Classical Antiquity; Patristic Thought; The Scholastics Thought; Usury and Just Prices.	15
II	**Bullionists and Mercantilists**: Quesnay and Physiocrats: natural order, primacy of agriculture, social classes, Tableau Economique; Economic ideas of Petty, Locke and Hume; The political Economy of Enlightenment-Turgot	15
III	**The Classical System:** Thought of Adam Smith, David Ricardo, T.R. Malthus; J.S. Mill; Karl Marx	15
IV	**Neo classicism and After**: A. Marshall, K. Wicksell & the Swedish School; Economics of welfare: A.C. Pigou, A.P. Learner, V. Pareto; J. M. Keynes; Post-Keynesian and Neo Keynesian thought.	15

Teaching Learning Process: Class discussions/ demonstrations, Powerpoint presentations, Class activities/ assignments etc.

References:

- Smith, A. An Enquiry into the Nature & Causes of the Wealth of Nations.
- Ricardo, D. Principles of the Political Economy and Taxation.
- Wicksteed Commonsense of Political Economy.
- Roll, E. A History of Economic thought (Feber & Feber).
- Schumpeter, J.A. A History of Economic Analysis (George Allenand Udwin).
- Robert Lekachman A History of Economic Ideas.
- P.N. Ghosh & R. Ghosh Concise History of Economic Thought.
- D.H. Taylor A History of Economic Thought.
- Lewis H. Haney A History of Economic Thought (Macmillan).
- Charles Gide &Charles Rist A History of Economic Doctrines.
- Phillip Charles Newman The Development of Economic Thought (Prentice Hall).
- Frank A. Neft Economic Doctrine (McGraw Hill).
- William A. Scott. The Development of Economics (Application Century Crifts).
- Alexander Gray The Dev. of Economic Doctrines (Longmans).

Suggested Continuous Evaluation Methods:

Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses: Suggestive digital platforms weblinks - ePG-Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

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Programme: B.A. (Honours/Honours with Research)	Year: Second	Semester: IV
Subject: ECONOMICS		
Course Code: DSCC 403	**Course Title: Environmental Economics**	**(Theory)**

Course Outcomes: This course focuses on economic causes of environmental problems. In particular, economic principles are applied to environmental questions and their management through various economic institutions, economic incentives and other instruments and policies. The course does not require any prior knowledge of economics. The course will be useful for students aiming towards careers in the government sector, NGOs, policy analysis, business and journalism.

Credits:4	**Core Course (CC)**
Max.Marks:25+75 (Internal + External)	Min. Passing Marks: 40

Total No. of Lectures – Tutorials – Practical (in hours per week): L-T-P:3-1-0

Unit	Topics	No. of Lectures=60
I	**Introduction to Environmental Economics:** Introduction; The economy and the environment: inter-linkages; First two laws of thermodynamics. Environment as a necessity and luxury – population and environment linkage. Material Balance Principle, Entropy Law, Economic Efficiency and Market Failures.	15
II	**Environment vs Development**: Relation between development and Environmental Stress, Environmental Kuznet's Curve, Concept of Sustainable Development, Resource and Resource Scarcity, Uncertainty and rate of resource extraction	15
III	**Current Environmental Issues:** Sources and types of pollution (Air, Water, Soil, Noise, Solid waste, e-waste, Land degradation), causes and effects of environmental degradation, Energy-Environment interaction, Global Warming and role of global agencies	15
IV	**Environmental Policy of India:** Evolution of environmental policy, Environment Laws, Fiscal incentives and Contract, Environmental Impact assessment, Peoples Participation in the management of Common Property Resources; Economic Growth and Sustainable Development	15

Teaching Learning Process: Class Lecturers, Class discussion/demonstrations, PowerPoint presentations, Class activities and assignments etc

References:

- Kolstad, C.D. (2007), Environmental Economics, Oxford University Press, New Delhi.
- Kaithal, A. K. and Sanjeev Kumar: Environmental Economics
- Nick Hanley et al (2007), Environmental Economics: Theory and Practice, Palgrave MacMillan.
- Katar Singh and Anil Sisodia (2007), Environmental Economics: Theory and Application, Sage Publications, NewDelhi.
- Karpagam (2008), Environmental Economics, Sterling Publishers. New Delhi
- R.K. Lekhi et al. (2008), Development and Environmental Economics, Kalyani Publishers, Ludhiana.
- Maureen L. Cropper and Wallace E. Oates, 1992, —Environmental Economics: A Survey,‖ Journal of EconomicLiterature, Volume 30:675-740.
- Charles Kolstad, Intermediate Environmental Economics, Oxford University Press, 2nd edition, 2010.
- Robert N. Stavins (ed.), Economics of the Environment: Selected Readings, W.W. Norton, 2005

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses: Suggestive digital platforms weblinks - ePG-Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

<table>
<tr><td>Programme: B.A. (Honours/Honours with Research)</td><td colspan="2">Year: Second</td><td>Semester: IV</td></tr>
<tr><td colspan="4">Subject: ECONOMICS</td></tr>
<tr><td>Course Code: DSEC - 401</td><td colspan="2">Course Title: Agricultural Economics</td><td>Theory</td></tr>
<tr><td colspan="4">Course Outcomes: The objective of this course is to provide a detailed treatment of issues in agricultural economics to those intending to specialize in this area. Its objective is to familiarize students with policy issues that are relevant to Indian agricultural economics and enable them to analyze the issues, using basic micro-economic concepts.</td></tr>
<tr><td colspan="2">Credits: 4</td><td colspan="2">Major Discipline Specific Elective Course</td></tr>
<tr><td colspan="2">Max. Marks: 25+75 (Internal + External)</td><td colspan="2">Min. Passing Marks:</td></tr>
<tr><td colspan="4">Total No. of Lectures – Tutorials - Practical (in hours per week): L-T-P: 4-1-0</td></tr>
<tr><td>Units</td><td colspan="2">Topics</td><td>No. of Lectures 60</td></tr>
<tr><td>UNIT I</td><td colspan="2">Introduction -Agricultural Economics: Meaning, Nature and Scope, Role of agriculture in economic development; Approaches to agriculture development: Schultz, Mellor, Boserup, Lewis and Ranis –Fei</td><td>15</td></tr>
<tr><td>UNIT II</td><td colspan="2">Agricultural Production: Laws of returns in relation to agriculture; Technological changes and green revolution; Mechanization of agriculture and green revolution in India, Blue revolution & white revolution in India.</td><td>15</td></tr>
<tr><td>UNIT III</td><td colspan="2">Agricultural Prices: Relation between cost and price, Profit maximization in agricultural, Agricultural price policy in India and the role of Commission for Agricultural Cost & Prices, E-NAM</td><td>15</td></tr>
<tr><td>UNIT IV</td><td colspan="2">Strategy of Agricultural growth and Technological Progress: Capital formation in Indian Agriculture, Public and Private investment, Sustainable Agriculture and current issues in Indian Agricultural</td><td>15</td></tr>
<tr><td colspan="4">Teaching Learning Process: Class discussions/ demonstrations, Power point presentations, Class activities/ assignments, Field visits., internships, etc.</td></tr>
<tr><td colspan="4">Suggested Readings:
• Alag Y.K. Globaliosation and Agriculture Crisis in India, Deep and Deep Publications
• Bilgrami S. A.R. An Introduction to Agricultural Economics, Himalaya Publishing House
• Kumar. Sanjeev. The State of Indian Agriculture, Sage Publications
• Lekhi R.K., & Joginder Singh, Agricultural Economics, Kalyani Publishers
• Meier Gerald M. Leading Issues in Economic Development, Oxford University Press
• Mellor, John, Agricultural Development and Economic Transformation, Palgrave Macmillan
• S.R.Mehta: Sociology of Rural Development; Sage. Publications
• Sadhu A.N and Singh Amarjit, Fundamentals of Agricultural Economics, Himalaya Publication House</td></tr>
<tr><td colspan="4">Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.</td></tr>
<tr><td colspan="4">Suggested equivalent online courses: Suggestive digital platforms weblinks - ePG-Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx</td></tr>
</table>

Programme: B.A. (Honours/Honours with Research)	Year: Second		Semester: IV
Subject: ECONOMICS			
Course Code: **DSEC - 402**	Course Title: **INDUSTRIAL ECONOMICS**		Theory
Course Outcomes: This paper introduces to students with concept of firms and its structure. The students will learn how location of industry is determined by different location theories and different types of project appraisal techniques.			
Credits: 4		**Major Discipline Specific Elective Course**	
Max. Marks: 25+75 (Internal + External)		**Min. Passing Marks:**	
Total No. of Lectures – Tutorials - Practical (in hours per week): L-T-P: 4-1-0			

Units	**Topics**	**No. of Lectures 60**
UNIT I	**Introduction to Industrial Economics** - Concept and Organization of a firm - Ownership control and objectives of a firm, Passive and active behavior of firm, Size, Growth, Profitability, Productivity, Efficiency and Capacity Utilization - Concept and measurement. Industrial policy, Classification of industries in India, Role of Public and private sectors; Recent trends in Indian industrial growth.	15
UNIT II	**Location and Regional Development of Industry** - Determinants of Industrial Location - Technical, economic, infrastructural and other factors. Theories of industrial location - Weber, August Losch, Sargant Florence, Development of Backward Regions - Government Policy and approach for the development of backward regions.	15
UNIT III	**Industrial Structure** - Alternative Patterns of Industrialization - Hoffman's hypothesis of capitalistic economies - Simon Kuznet's interpretation - Industrialization and planned economies - Cheney's Patterns of industrial changes, Exit policy **Industrial Labour** - Structure of industrial labour, Industrial relations, Social Security Measures and Labour Reforms in Indian Context.	15
UNIT IV	**Project Appraisal and Industrial Finance** - Project Appraisal Techniques – CBA, NPV and IRR, Sources of Industrial Finance - Owned, external and components of funds; IDBI, IFCI, SFCs, SIDC.	15

Teaching Learning Process: Class Lecturers, Class discussion/demonstrations, PowerPoint presentations, Class activities and assignments etc.

Suggested Readings:

- Barthwal, R.R: Industrial Economics (Wiley Eastern Ltd, New Delhi, 1985)
- Cherunilam F: Industrial Economics: Indian Perspective (3rd Edition) (Himalaya Publishing House, Mumbai, 1994)
- Ahluwalia, I.J: Industrial Growth in India (Oxford University Press, New Delhi, 1985)
- Desai B: Industrial Economy in India (3rd Edition) (Himalaya Publishing House, Mumbai, 1999)
- Divine P.J & R.M Jones et. Al: An Introduction to Industrial Economics (George Allen and Unwin Ltd, London, 1976)

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Programme: B.A. (Honours/Honours with Research)	Year: Second	Semester: IV
Subject: ECONOMICS		
Course Code: DSEC - 403	Course Title: Labour Economics	(Theory)

Course Outcomes: The course aims to provide students with a comprehensive understanding of labour markets, wages, employment, and labour-related economic policies, with a special focus on India. It equips learners with theoretical frameworks and applications needed to analyze labour market dynamics, labour welfare, and institutional aspects.

Credits:4	Major Discipline Specific Elective Course
Max. Marks: 25+75 (Internal + External)	Min. Passing Marks: 40

Total No. of Lectures – Tutorials - Practical (in hours per week):L-T-P:3-1-0

Unit	Topics	No. of Lectures=60
I	**Introduction to Labour Markets** Nature and characteristics of labour markets in developing economies; Classical, neoclassical, and dual labour market paradigms; Demand for labour: derived demand, factors affecting demand in industrial and agricultural sectors; Supply of labour: labour force participation, labour mobility, demographic influences, migration, and education; Labour market policies and institutions influencing labour supply.	15
II	**Wage Determination and Labour Remuneration** Theories of wage determination: marginal productivity, bargaining, and wage-setting under imperfect competition; Components of wages: money wages, real wages, fringe benefits, and non-wage components; Wage differentials: regional, occupational, gender-based; concept of equal pay for equal work; Minimum wage laws: objectives, challenges in implementation, and relevance in the Indian context; Incentive wage systems: bonuses, profit-sharing, and their economic implications; Wage-inflation dynamics and Phillips Curve analysis.	15
III	**Employment, Unemployment and Labour Market Issues** Concept and measurement of employment and unemployment; Types of unemployment: structural, cyclical, disguised, and seasonal; issues of underemployment; Impact of technological change, automation, and rationalization on employment; Labour market imperfections: information asymmetry, monopsony power, and labour market segmentation; Employment policies and schemes in India: assessment and effectiveness.	15
IV	**Labour Welfare, Labour Laws and Industrial Relations** Labour welfare: concepts, importance, and types of welfare measures; Social security and labour protection: social insurance, provident funds, and employee welfare schemes; Overview of major labour laws in India: Industrial Disputes Act, Factories Act, Minimum Wages Act, and Contract Labour Act; Trade unions: role, structure, and collective bargaining; Industrial conflicts, resolution mechanisms, and government's role; Contemporary issues in labour markets: informal sector, gig economy, and globalization effects.	15

Teaching Learning Process: Lectures, seminars, case studies, and tutorials

References:

- Lester, R.A. (1964). Economics of Labour, Macmillan, New York.
- Papola, T.S. & Rodgers, G. (Eds.) (1992). Labour Institutions and Economic Development in India, International Institute for Labour Studies, Geneva.
- Sen, A.K. (1975). Employment, Technology, and Development, Oxford University Press, New Delhi.
- V.V. Giri. Labour Problems and Social Welfare in India.
- McConnell, C.R., & Brue, S.L. (1986). Contemporary Labour Economics, McGraw-Hill, New York.
- Deshpande, A. (2002). The Grammar of Caste: Economic Discrimination in Contemporary India, Oxford University Press, New Delhi.

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses: Suggestive digital platforms weblinks - ePG-Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

Programme: B.A. (Honours/ Honours with Research)	**Year: Second**	**Semester: IV**
	Subject: ECONOMICS	
Course Code: **MGEC -401**	Course Title: **Financial Economics**	Theory
Course Outcomes:		
Credits: 4	**Minor Generic Elective Course (for other department students)**	
Max. Marks: 25+75 (Internal + External)	**Min. Passing Marks:**	
Total No. of Lectures – Tutorials - Practical (in hours per week): L-T-P: 4-1-0		

Units	Topics	No. of Lectures 60
UNIT I	**Investment Theory and Portfolio Analysis** **a. Deterministic cash-flow streams** Basic theory of interest; discounting and present value; internal rate of return; evaluation criteria; fixed-income securities; bond prices and yields; interest rate sensitivity and duration; immunization; the term structure of interest rates; yield curves; spot rates and forward rates. **b. Single-period random cash flows** Random asset returns; portfolios of assets; portfolio mean and variance; feasible combinations of mean and variance; mean-variance portfolio analysis: the Markowitz model and the two-fund theorem; risk-free assets and the one-fund theorem. **c. CAPM** The capital market line; the capital asset pricing model; the beta of an asset and of a portfolio; security market line; use of the CAPM model in investment analysis and as a pricing formula.	15
UNIT II	**Money Market and Debt Market** **Money market:** meaning and functions- Structure of money market in India (dichotomous & heterogeneous) - Participants and instruments in Indian money market- Features of Indian money market- Reforms in Indian money market - Role of the RBI. **Debt market:** meaning & functions - Segments in debt market- Participants & instruments in debt market- Role of intermediaries and the government in debt market - Recent trends in India's debt market.	15
UNIT III	**Capital market** Capital market: meaning, role and factors affecting growth of capital market - Structure of capital market- New issues or primary market: features, participants & intermediaries - Overview of issue mechanisms or methods of raising primary issues- Reforms in primary segment of Indian capital market & role of the SEBI. **Secondary market:** features, participants & intermediaries - Listing of securities: types, advantages, requisites of listing - Basic mechanism of trading in securities - DEMAT- introduction to major stock exchanges in India: BSE, NSE and OTCEI- Reforms in secondary segment of Indian capital market.	15
UNIT IV	**Options and Derivatives** Introduction to derivatives and options; forward and futures contracts; options; other derivatives; forward and future prices; stock index futures; interest rate futures; the use of futures for hedging; duration-based hedging strategies; option markets; call and put options; factors affecting option prices; put-call parity; option trading strategies: spreads; straddles; strips and straps; strangles; the principle of arbitrage; discrete processes and the binomial tree	15

	model; risk neutral valuation.	

Teaching Learning Process: Class Lecturers, Class discussion/demonstrations, PowerPoint presentations, Class activities and assignments etc.

Suggested Readings:

1. David G. Luenberger, *Investment Science*, Oxford University Press, USA, 1997.
2. Hull, John C., *Options, Futures and Other Derivatives*, Pearson Education, 6th edition, 2005.
3. Thomas E. Copeland, J. Fred Weston and Kuldeep Shastri, *Financial Theory and Corporate Policy*, Prentice Hall, 4th edition, 2003.
4. Richard A. Brealey and Stewart C. Myers, *Principles of Corporate Finance*, McGraw-Hill, 7th edition, 2002.
5. Stephen A. Ross, Randolph W. Westerfield and Bradford D. Jordan, *Fundamentals of Corporate Finance.* McGraw-Hill, 7th edition, 2005.
6. William Sharpe, Gordon Alexander and Jeffery Bailey, *Investments,* Prentice Hall of India, 6th edition, 2003.

Skill Enhancement Course (SEC)-III
B.A. (Honours/Honours with Research)
Economics, Semester-IV

Course Description: During this course students will obtain the necessary skills to be able to work and carry out empirical analyses with the statistical software Ms-Excel SPSS & STATA. This will be a theoretical and practical exposure to solve economic problem and analysis the economic data.

Programme: B.A. (Honours/ Honours with Research)	**Year: Second**	Semester: IV
Subject: ECONOMICS		
Course Code: SEC-401	**Course Title: Computer Application in Economics**	**Practical**

Course Outcomes: Computer Application in Economic Analysis equips students with essential skills in utilizing statistical software for economic analysis. In today's data-driven world proficiency in these tools is crucial for conducting thorough economic research, data analysis, and report generation.

Learning analysis

- To prepare chart/graphs with the Ms-Excel, SPSS, and STATA.
- To carry out empirical analyses with the statistical software Ms-Excel, SPSS, and STATA.

Credits: 2	**Skill Enhancement Course**
Max. Marks: 40+60 (Internal-Theory + External-Practical)	**Min. Passing Marks:**

Total No. of Lectures – Tutorials - Practical (in hours per week): L-T-P: 4-1-0

Units	**Topics**	**No. of Lectures 30**
UNIT I	Statistical Analysis using Statistical Software: Descriptive statistics: mean, median, mode, variance; Univariate and bivariate analysis; Probability Theory; Hypothesis testing: t-tests, chi-square tests, ANOVA; Confidence intervals and p-values; Non-parametric tests; Interpreting statistical results.	15
UNIT II	Application of correlation and regression on different economic datasets –	15

Teaching Learning Process: Class Lecturers, Class discussion/demonstrations, PowerPoint presentations, Class activities and assignments etc.

Suggested Readings:

- Gujrati DN.et.al. (2011): Basic Econometrics, Tata McGraw- Hill/Irwin.
- George Darren (2011): SPSS for Windows Step by Step: A simple Guide and Reference, Pearson Education, Prentice Hall.
- Foster J Jeremy (2001), Data Analysis Using SPSS for Windows Versions 8-10: A Beginner's Guide, Education, Delhi. Sage Publishing Ltd.
- Gupta S.C. —Fundamentals of Statistics‖ S. Chand• & Sons New Delhi (1993)
- Spiegel, Murry R —Theory and problems of Statistics‖ (Schaum's outline series,• McGraw Hill, 1992) Karmal P.H. and Polasek M. —Applied Statistics for Economists (4th edition), Pitman, Australia

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Programme: B.A. (Honours/ Honours with Research)		**Year: Second**	Semester: IV
Subject: ECONOMICS			
Course Code: VAC-401	Course Title: **Environmental Studies**		Theory + Practical

Course Outcomes: The course will empower the undergraduate students by helping them to:

i. Gain in-depth knowledge on natural processes and resources that sustain life and govern economy.

ii. Understand the consequences of human actions on the web of life, global economy, and quality of human life.

Credits: 2	**Value Addition Course**
Max. Marks: 100 (External)	**Min. Passing Marks:**

Total No. of Lectures – Tutorials - Practical (in hours per week): L-T-P: 2-0-0

Units	Topics	No. of Lectures 30
UNIT I	**Introduction to Environmental Studies** Multidisciplinary nature of environmental studies; components of environment: atmosphere, hydrosphere, lithosphere, and biosphere; **Scope and importance;** Concept of sustainability and sustainable development; SDGs; Recent environment policy of India	15
UNIT II	Natural Resources **Land resources:** Minerals, soil, agricultural crops, natural forest products, medicinal plants, and forest-based industries and livelihoods; Land cover, land use change, land degradation, soil erosion , and desertification; Causes of deforestation; Impacts of mining and dam building on environment, forests, biodiversity. **Water resources:** Natural and man-made sources; Uses of water; Over exploitation of surface and ground water resources; Floods, droughts, and international &interstate conflicts over water **Energy resources:** Renewable and non-renewable energy sources; Use of alternate energy sources; Growing energy needs; Energy contents of coal, petroleum, natural gas and bio gas; Agro-residues as a biomass energy source	15

Teaching Learning Process: Class Lecturers, Class discussion/demonstrations, PowerPoint presentations, Class activities and assignments etc.

Suggested Readings:

- Analysis of achievement of Sustainable Development Goals of any country.
- Gain insights of sustainability framework for an industrial acitivty using activity worksheets
- Use of environmental activity worksheets to understand interdependence and interactions between different environmental components.
- Gadgil, M. and Guha, R. (1993). This Fissured Land: An Ecological History of India. University of California Press, Berkeley, USA. (pp. 1-245).
- McCully, P. (1996). Rivers no more: the environmental effects of dams, In: Silenced Rivers: The Ecology and Politics of Large Dams, Zed Books, New York, USA. Page. 29-64.
- Raven, P.H, Hassenzahl, D.M., Hager, M.C, Gift, N.Y. and Berg, L.R. (2015). Environment, 9th Edition. Wiley Publishing, USA. Chapters 10, 11, 12, 13 (Pages: 180-263); Chapter 14 (Pages: 272-275); Chapter 15 (Pages: 286-289).
- 4. Singh, J.S., Singh, S.P. and Gupta, S.R. (2017). Ecology, Environmental Science and Conservation. S. Chand Publishing, New Delhi. Chapter 25 (Pages: 623-663).

Programme: B.A. (Honours/Honours with Research)	Year: Third	Semester: V
Subject: ECONOMICS		Theory
Course Code: DSCC - 501	Course Title: **Economics of Growth and Development**	
This course introduces students to the basics of growth & development economics, with in-depth discussions of the concepts of growth, development, poverty, inequality, demography and globalization. This course begins with a discussion of alternative conceptions of Economic growth & development and their justification. It then proceeds to aggregate models of and cross-national comparisons of the growth experience that can help evaluate these models. The course deals with technological progress and selected dimensions of environmental problems along with globalization.		
Credits: 4	**Core Course**	
Max. Marks: 25+75 (Internal + External)	**Min. Passing Marks:**	
Total No. of Lectures – Tutorials - Practical (in hours per week): L-T-P: 4-1-0		

Units	Topics	Lectures 60
I	**Introduction**- Concept of Economic growth and development, differences and alternative measures of growth & development, characteristics of developing and developed countries, determinants of economic development, obstacles of development	15
II	**Poverty and Inequality measurement** - Concept of poverty, vicious circle of poverty; Measurement of Poverty - Absolute Poverty, Poverty Line, Poverty Gap, FGT poverty, and multidimensional poverty index; Concept of inequality, Kuznet's Inverted U- Hypothesis, Lorenz curve, Gini Coefficients and aggregate measures of inequality; Concept of Human Development and Its Indices – GDI, PQLI, HDI, HPI	15
III	**Theories of Economic Growth** - Balanced vs unbalanced growth, Big Push Theory, Rostow's stages of economic growth; Classical theory of economic growth; Harrod-Domar models of economic growth **Technological Progress and Economic Growth**- Technological Progress embodied and disembodied; Neutral and Non-Neutral (Hicks and Harrod)	15
IV	**Theories of Development**- Nelson's Level equilibrium trap, Lewis's theory of unlimited supply of labour **Development and International Issues**- International aspects of economic development; International trade, FDI, FII, Regional cooperation and developing countries.	15

Teaching Learning Process: Class Lecturers, Class discussion/demonstrations, PowerPoint presentations, Class activities and assignments etc.

Suggested Readings:

- Banerjee, A., Benabou, R., Mookerjee, D. (eds.) (2006). Understanding poverty. OxfordUniversity Press.
- Basu K (1998). Analytic Development Economics (OIP): The Less Developed Economy Revisited. Oxford University Press
- Charles I. Jones (2013). Introduction to Economic Growth, Viva-Norton Student Edition,second edition.
- Gerald M. Meier (2010). Leading Issues in Economic Development, OUP, Eighth edition, 2010
- Ray, D. (1999). Development Economics. Oxford India Paperbacks.
- Sen, A. (2000). Development as freedom. Oxford University Press.
- Thirlwall, A.P. (2022), Growth and Development, Macmillan, London,
- Todaro M and Stephen Smith (2020). Economic Development, Pearson Education Ltd.
- Yujiro Hayami and Yoshihisa Godo, (2009) Development Economics- From the Poverty to the
- Wealth of Nation, Oxford University Press, IIIrd Edition.

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses: Suggestive digital platforms weblinks - ePG-Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

Programme: B.A. (Honours/Honours with Research)	**Year: Third**	**Semester: V**

Subject: ECONOMICS

Course Code: **DSCC-502**	Course Title: **Introductory Econometrics**	Theory

This course provides a comprehensive introduction to basic econometric concepts and techniques. It covers statistical concepts of hypothesis testing, estimation and diagnostic testing of simple and multiple regression models. The course also covers the consequences of and tests for misspecification of regression models.

Credits: 4	**Core Course (CC)**
Max. Marks: 25+75 (Internal + External)	**Min. Passing Marks:**

Total No. of Lectures – Tutorials - Practical (in hours per week): L-T-P: 4-1-0

Units	Topics	Lectures 60
I	**Introduction** - Nature and scope of econometrics; Theoretical Probability Distributions: Theory of Estimation: Estimation of parameters; properties of estimators. **Hypothesis Testing** - Testing of hypotheses: defining statistical hypotheses; Simple and composite hypotheses; Null and alternative hypothesis; Type I and Type II errors, Critical region; Neyman-Pearson lemma; Power of a test; Test statistics: Z, Chi square, t and F tests,	15
II	Simple Regression estimation of model by method of ordinary least squares; properties of estimators; goodness of fit; tests of hypotheses; scaling and units of measurement; confidence intervals; Gauss-Markov theorem; forecasting ability; Introduction to different functional forms of regression models	15
III	Multiple Regression estimation of parameters by OLS method; Goodness of fit - R^2 and adjusted R^2; Partial regression coefficients; testing hypotheses – individual and joint; Introduction to qualitative (dummy) independent variables.	15
IV	Violations of Classical Assumptions: Cause, Consequences, Detection and Remedies - Multicollinearity; Heteroscedasticity; Autocorrelation.	15

Teaching Learning Process: Class Lecturers, Class discussion/demonstrations, PowerPoint presentations, Class activities and assignments etc.

Suggested Readings:

- Johnston & Dinardo. Econometric Methods, 4th edition, The McGraw-Hill Companies,Inc.
- Damodar Gujarati, Dawn C Porter and Sangeetha Gunasekar. 2013. Basic Econometrics , 5th edition, Tata McGrawHill Education Pvt. Ltd.
- Johnston J, Econometric Methods, 2nd edition,McGraw-Hill.
- Madnani GMK. 2024. Introduction to Econometrics: Principles and Applications. New Delhi: CBS Publishers & Distributors Pvt Ltd.
- Jay L. Devore. 2010. Probability and Statistics for Engineers, Cengage Learning.
- Koutsoyiannis A. Theory of Econometrics, 2nd edition, Macmillan.

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses: Suggestive digital platforms weblinks - ePG-Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

Programme: B.A. (Honours/Honours with Research)	Year: Third	Semester: V
Subject: ECONOMICS		
Course Code: DSCC - 503	**Course Title:** Indian Public Finance	**(Theory)**
Course Objective: This paper combines a thorough understanding of fiscal institutions with a careful analysis of the issues which underline budgetary policies in general and Indian experience in particular.		
Credits: 4	**Core Course (CC)**	
Max. Marks: 25+75 (Internal + External)	**Min. Passing Marks:**	
Total No. of Lectures -Tutorials-Practical (in hours per week): L-T-P: 4-1-0		

Unit	Contents	Lectures 60
I	**Public Expenditure:** Reforms in expenditure budgeting (programmme and performance budgeting); zero based budgeting Trends of government expenditure in India; Trends of expenditure of State Governments in India; Fiscal Responsibility and Budget Management Act 2003 (key features).	15
II	**Taxation:** Major taxes of central & state governments; Indian tax system: salient characteristics; The problems of tax compliance and tax evasion in India; Tax reforms in India; Direct Tax Code (DTC); Goods and Services Tax (GST); Major trends of tax revenue of the Centre and State governments.	15
III	**Public Debt & Deficit Financing:** Public Debt Management in India; Meaning of deficit financing; Advantages and risk of deficit financing; Various concepts of deficits; Deficit financing in India-present policy.	15
IV	**Indian Federal Finance:** Division of functions and resources between Centre and States; Financial imbalance; Gadgil Formula; Pranab Formula; Finance Commission and its recommendations (latest Finance Commissions).	15

Teaching Learning Process: Class discussions/ demonstrations, Power point presentations, Class activities/ assignments, Field visits., internships, etc.

Suggested Readings:

- Bagchi, A. (2006), Readings in Public Finance', Oxford University Press
- Edgardo, M. Favaro and Lahiri, Ashok K. (2004) Fiscal Policies and Sustainable Growth in India', Oxford University Press, New Delhi
- Economic Survey, Government of India
- Hajela, T.N. (2009), Public Finance', Ane Books Pvt. Ltd., New Delhi
- Srivastava, D.K. (ed.) (2000) 'Fiscal Federalism in India: Contemporary challenges', NIPFP, New Delhi
- Srivastava, D.K. (ed.) (2004) 'State Level Fiscal Reforms in India', vol. I & vol. II, Deep & Deep Publications, New Delhi
- Sudipto Mundle (ed.), Public Finance', Oxford University Press, New Delhi
- Sury, M.M. (1998), 'Fiscal Federalism in India', Indian Tax Institute, Delhi
- Sury, M.M. (ed.) (2008) 'Taxation in India: 1925 to 2007', New Century, Delhi
- Vital, B.P.R. and Sastry, M.L. (2001) 'Fiscal Federalism in India', Oxford University Press, New Delhi
- R.B.I. Bulletin, R.B.I., Mumbai
- Reports on Currency and Finance, R.B.I., Mumbai
- R.B.I. Handbook on Indian Economy, R.B.I., Mumbai
- R.B.I. Handbook on State Government Finance, R.B.I., Mumbai
- Public Finance Statistics, Government of India.

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses: Suggestive digital platforms weblinks - ePG-Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

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Programme: B.A. (Honours/Honours with Research)	Year: Third	Semester: V
Subject: ECONOMICS		
Course Code: DSEC - 501	**Course Title:** Economics of Health	**(Theory)**

Course Objective: This is a course in applied economics, which will introduce the students to the study of health as components of human capital in the framework of economic theory.

Learning Outcomes: The students will learn the role of health in human development. They will be able to apply economic theory to understand the demand for health care, market failure in health insurance, economic evaluation of health care programmes and the role of public policy in the healthcare industry.

Credits: 4	**Elective Course (EC)**
Max. Marks: 25+75 (Internal + External)	**Min. Passing Marks:**

Total No. of Lectures - Tutorials-Practical (in hours per week): L-T-P: 4-1-0

Unit	Contents	Lectures 60
I	**Introduction to Health Economics** -Scope of health economics; Economic growth, development and health outcomes; Historical perspective on health and economic development; Health and health care; Core principles of Public Health; Social determinants of health; Social Science approaches to health; externalities in health and health care	15
II	**Microeconomics and health care** - Application of consumer theory; Production of health and health care; General equilibrium: Pareto Optimality; Imperfect market for health and health care; Health Insurance: Principal-agent problem, moral Hazards, adverse selection	15
III	**Health & Equity** - Efficiency, Effectiveness and Equity; Explanations of inequality: Social Cohesion and Social Capital; Measurement of inequality	15
IV	**Health Financing** - State vis-à-vis market: Public Good, Merit Good; Different forms of Financing: role of state; Private Out-of-pocket expenditure and its implications; Health financing in India	15

Teaching Learning Process: Class discussions/ demonstrations, Power point presentations, Class activities/ assignments, Field visits., internships, etc.

Suggested Readings:

- Bhattacharya, J., Hyde, T., Tu, P. (2014). Health Economics, Palgrave Macmillan.
- Moody B. 2019. The Economics of Health and Healthcare. Hayle Medical
- Sherman Folland, Allen Goodman. The Economics of Health. Pearson Education
- World Development Report (1993). Investing in Health. The World Bank.
- World Health Organisation (2013) . The economics of the social determinants of health and health inequalities: A resource book. World Health Organisation.
- Government of India (2005), Report of National Commission on Macroeconomics and Health, Ministry of Health and Family Welfare, New Delhi
- Sen A. Why health equity? Health Economics 2002; 11: 659-666.
- Faulland S (2008) The Economics of Health and Health Care, 5th Edition.
- Berman, P. and M. E. Khan (edited) (1988), Paying for India's Health Care, Sage, New Delhi.
- AK Shiva Kumar, Chen LC, Choudhury M, et al. Financing health care for all: challenges and opportunities. Lancet 2011; 377: 668-679.
- Arrow, K. J. (1963), "Uncertainty and the Welfare Economics of Medical Care", The American Economic Review, 43(5), pp. 941-973.

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses: Suggestive digital platforms weblinks - ePG-Pathshala, IGNOU & UPRTOU, WHO online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

Programme: B.A. (Honours/Honours with Research)		Year: Third	Semester: V
Subject: ECONOMICS			
Course Code: DSEC - 502	Course Title: Economics of Education		(Theory)

Course Objective: The main objective of this course is to provide the theoretical tools and framework to understand impact of education and society and economy. This course intends to impart the knowledge and understanding of various sources of financing for different levels and nature of education. The course exposes students to Indian education sector; its scope challenges.

Learning Outcome: 1. To be able to appreciate centrality of education in development process. 2. To able to conduct cost-benefit analysis for investment on education 3. To be able to examine and analyse potential impacts policy changes on education sector

Credits: 4	**Elective Course (EC)**
Max. Marks: 25+75 (Internal + External)	**Min. Passing Marks:**

Total No. of Lectures - Tutorials-Practical (in hours per week): L-T-P: 4-1-0

Unit	Contents	Lectures 60
I	Economics of Education - Meaning and Scope of Economics of Education; Centrality Education in Development; Education & Human Resource Development; Economic growth and development Linkages; Education as signalling device in labour market; Human Capital Index	15
II	The Economic Return to Education - Education as an Investment; Estimating the Economic Return to Education; Monetary and Non-Monetary Benefits of Education; Externalities; Education and Economic Growth	15
III	Education Planning and Finance - Education planning techniques; Cost – Benefit Analysis/rate return of expenditure on education- public vs private; Education and earnings relationship; Theories of Public Expenditure, Resource Mobilisation and Utilisation; Investment Trade-off between school vs higher education; Public Financing of Education in India; International Perspective on Public Financing of Education	15
IV	Education in India - Indian perspective to education, Sarva Shiksha Abhiyan; Right to Education with special reference to Constitution of India; National Education Policy 2020: scope and challenges; Socio-economic inequality in access to higher education; Brain Drain.	15

Teaching Learning Process: Class discussions/ demonstrations, Power point presentations, Class activities/ assignments, Field visits., internships, etc.

Suggested Readings:

- Belfield, C.R. (2000), Economic Principles for Education: Theory and Evidence, Edward Elgar Publishing.
- Deka, B. (2000), Higher Education in India: Development and Problems, Atlantic Publishers &Dist.
- Jha, P., Das, S., Mohanty, S.S. and Jha, N.K. (2008), Public Provisioning of Elementary Education in India, Sage Publications India Pvt. Ltd.
- Kraay, A. (2018). Methodology for a World Bank Human Capital Index. World Bank Policy Research Working Paper, (8593).
- Government of India (2022), National Education Policy 2020, New Delhi.

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses: Suggestive digital platforms weblinks - ePG-Pathshala, IGNOU & UPRTOU, WHO online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

Programme: B.A. (Honours/ Honours with Research)		**Year: Third**	**Semester: V**
Subject: ECONOMICS			
Course Code: MGEC - 501	**Course Title:** Indian Public Finance		**(Theory)**
Course Objective: This paper combines a thorough understanding of fiscal institutions with a careful analysis of the issues which underline budgetary policies in general and Indian experience in particular.			
Credits: 4	**Minor Generic Elective Course (For other department students)**		
Max. Marks: 25+75 (Internal + External)	**Min. Passing Marks:**		
Total No. of Lectures -Tutorials-Practical (in hours per week): L-T-P: 4-1-0			

Unit	Contents	Lectures 60
I	**Public Expenditure:** Reforms in expenditure budgeting (programmme and performance budgeting); zero based budgeting Trends of government expenditure in India; Trends of expenditure of State Governments in India; Fiscal Responsibility and Budget Management Act 2003 (key features).	15
II	**Taxation:** Major taxes of central & state governments; Indian tax system: salient characteristics; The problems of tax compliance and tax evasion in India; Tax reforms in India; Direct Tax Code (DTC); Goods and Services Tax (GST); Major trends of tax revenue of the Centre and State governments.	15
III	**Public Debt & Deficit Financing:** Public Debt Management in India; Meaning of deficit financing; Advantages and risk of deficit financing; Various concepts of deficits; Deficit financing in India-present policy.	15
IV	**Indian Federal Finance:** Division of functions and resources between Centre and States; Financial imbalance; Gadgil Formula; Pranab Formula; Finance Commission and its recommendations (latest Finance Commissions).	15

Teaching Learning Process: Class discussions/ demonstrations, Power point presentations, Class activities/ assignments, Field visits., internships, etc.

Suggested Readings:

- Bagchi, A. (2006), Readings in Public Finance', Oxford University Press
- Edgardo, M. Favaro and Lahiri, Ashok K. (2004) Fiscal Policies and Sustainable Growth in India', Oxford University Press, New Delhi
- Economic Survey, Government of India
- Hajela, T.N. (2009), Public Finance', Ane Books Pvt. Ltd., New Delhi
- Srivastava, D.K. (ed.) (2000) 'Fiscal Federalism in India: Contemporary challenges', NIPFP, New Delhi
- Srivastava, D.K. (ed.) (2004) 'State Level Fiscal Reforms in India', vol. I & vol. II, Deep & Deep Publications, New Delhi
- Sudipto Mundle (ed.), Public Finance', Oxford University Press, New Delhi
- Sury, M.M. (1998), 'Fiscal Federalism in India', Indian Tax Institute, Delhi
- Sury, M.M. (ed.) (2008) 'Taxation in India: 1925 to 2007', New Century, Delhi
- Vital, B.P.R. and Sastry, M.L. (2001) 'Fiscal Federalism in India', Oxford University Press, New Delhi
- R.B.I. Bulletin, R.B.I., Mumbai
- Reports on Currency and Finance, R.B.I., Mumbai
- R.B.I. Handbook on Indian Economy, R.B.I., Mumbai
- R.B.I. Handbook on State Government Finance, R.B.I., Mumbai
- Public Finance Statistics, Government of India.

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses: Suggestive digital platforms weblinks - ePG-Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

Programme: B.A. (Honours/Honours with Research)	Year: Third	Semester: VI
	Subject: ECONOMICS	
Course Code: DSCC 601	**Course Title: International Economics**	**(Theory)**

Course Outcomes: To provide students with a clear understanding of fundamental international economic principles, trade theories, policy instruments, and the working of the international monetary system. The course emphasizes the practical application of these concepts with specific reference to India's external sector and policy environment.

Credits: 4	**Core Course (CC)**
Max.Marks:25+75 (Internal + External)	**Min. Passing Marks:**

Total No. of Lectures – Tutorials – Practical (in hours per week): L-T-P:3-1-0

Unit	Topics	Lectures 60
I	**Basic Concepts and Theories of International Trade** Introduction to international trade: nature, importance, and major trends; Classical trade theories: absolute advantage, comparative advantage, and opportunity cost; Modern trade theory: Heckscher-Ohlin model; Gains from trade, terms of trade, and patterns of specialization.	15
II	**Trade Policy Instruments and Economic Integration** Tariffs: types (specific, ad valorem, compound), incidence and effects on welfare; Non-tariff barriers: quotas, subsidies, import licensing, and standards; Trade restrictions under imperfect competition and strategic trade policy overview.	15
III	**International Monetary System:** Evolution of the international monetary system: gold standard, Bretton Woods system, and post-Bretton Woods era; International liquidity and special drawing rights (SDRs). **Balance of Payments and Foreign Exchange Markets:** Structure of balance of payments: current account, capital account, and official reserves; Disequilibrium in balance of payments and adjustment mechanisms; Foreign exchange market: spot and forward markets, exchange rate determination; Exchange rate systems: fixed, flexible (floating), and managed float regimes.	15
IV	**India's Foreign Trade, External Sector Policies and Institutions** Composition and direction of India's exports and imports; Foreign direct investment (FDI) and foreign portfolio investment (FPI) patterns and policies; India's trade relations with major partners and participation in multilateral agreements. Role and functions of the International Monetary Fund (IMF), World Bank, and WTO.	15

Teaching Learning Process: Combination of lectures, case studies, presentations, and group discussions with real-world data analysis.

References:

- Krugman, P., Obstfeld, M. & Melitz, M., International Economics: Theory and Policy, latest edition, Pearson.
- Salvatore, D., International Economics, latest edition, Wiley.
- Carbough, R., International Economics, Cengage Learning.
- Government of India, Ministry of Commerce & Industry reports and WTO literature.
- Selected research articles and policy reviews for applied understanding

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses: Suggestive digital platforms weblinks – ePG - Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

Programme: B.A. (Honours/ Honours with Research)		Year: Third	Semester: VI
Subject: ECONOMICS			
Course Code: **DSCC -602**	Course Title: **Multivariate Data Analysis**		**Practical**

Course Description: Large amount of data is collected on many different variables across disciplines in order to understand the underlying process(es). The multivariate analysis of data deals with examining interrelationship between three or more equally important variables or explaining of variation in, usually one (or more than one) dependent variable(s) on the basis of two or more independent (explaining) variables. With the availability of inexpensive, fast and efficient computing resources and statistical packages there has been a growth in the application of these techniques. This course introduces the student to various multivariate data analysis tools. The focus is on cross-disciplinary application of these techniques.

Learning outcome:

1. Introduce the language of multivariate data analysis
2. Understand the characteristics of multivariate quantitative research, including strengths and weaknesses
3. Understand the principles and characteristics of the multivariate data analysis techniques

Credits: 4	Core Course (CC)
Max. Marks: 25+75 (Internal-Theory + External-Practical)	Min. Passing Marks:

Total No. of Lectures – Tutorials - Practical (in hours per week): L-T-P: 4-1-0

Units	Topics	Lectures 60
I	**Introduction:** Univariate analysis versus multivariate analysis. Organization and summarization of multivariate data. **Multivariate Normal Distribution:** Multivariate normal distribution. Linear transformations of normally distributed random vectors. Marginal distributions. Testing for normality. **Multivariate Sampling Distribution:** Sampling from a multivariate normal distribution. Distribution of the sample mean vector. Wishart and Hotelling's T2 distributions. Multivariate version of the central limit theorem.	15
II	**Statistical Inference: One-sample Case -** Hotelling's T2 test for one mean vector. Confidence regions. Simultaneous confidence statements. Large sample inferences about a mean vector. Large sample inferences about multinomial proportions. **Two-sample Case -** Hotelling's T2 test for multivariate matched samples. Repeated measures design. Two independent samples. Confidence regions and Simultaneous confidence intervals. Large sample inferences.	15
III	**Multivariate Analysis of Variance (MANOVA) and MANCOVA:** **MANOVA:** Differences between Univariate (ANOVA) and Multivariate (MANOVA) Analysis; Categorical Independent Variables (IVs) and two or more continuous Dependent Variables (DVs), Concept of Centroids and Sum of Squares and Cross-Products (SSCP) matrices, Multivariate test statistics: Wilks' Lambda, Pillai's Trace, Hotelling's Trace, and Roy's Largest Root; and Post-Hoc Tests: Bonferroni adjustments, Discriminant Analysis, and Roy-Bargmann step-down procedures **MANCOVA:** Incorporating one or more continuous independent variables (covariates) into a MANOVA model -Controlling for confounding variables and reducing error variance, Assessing group differences on the adjusted dependent variables; Testing the assumption of homogeneity of regression slopes	15
IV	**Principal Components Analysis and Factor Analysis:** Principal components from population variance-covariance matrix and from population correlation matrix. Principal components from sample variance-covariance matrix and from sample correlation matrix; The orthogonal factor model. Estimation. Factor analysis based on population and sample information. Factor rotation. **Cluster Analysis:** Measures of similarity. Hierarchical clustering methods. Non-hierarchical clustering methods. Clustering Admissibility. Applications.	15

Teaching Learning Process: Class Lecturers, Class discussion/demonstrations, PowerPoint presentations, Class activities and assignments etc.

Suggested Readings:

- Afifi A., May S. and Clark V.A. (2012) Practical Multivariate Analysis, CRC Press, Taylor &Francis, Boca Raton.
- Johnson R.A. and Wichern D.W. (2002) Applied Multivariate Statistical Analysis, Prentice Hall of India Pvt Ltd., New Delhi.

Kumar

- Sharma S. (1996) Applied Multivariate Techniques, John Wiley and Sons, New York.
- Alt M. (1990) Exploring Hyperspace–A Non-mathematical Explanation of Multivariate Analysis, McGraw-Hill Book Company, New York
- Everitt B.S. and Dunn G. (2001), Applied Multivariate Data Analysis, Arnold, London.
- Haan C.T. (1977) Statistical Methods in Hydrology, The Iowa State University Press/Ames.
- Harris R.J. (1985) A Primer in Multivariate Statistics, Academic Press, New York.
- Manly B.F.J. (1994) Multivariate Statistical Methods–A Primer, Chapman and Hall, London.
- Anderson, T. W. (2003). An introduction to multivariate statistical analysis. 3rd Edition. John Wiley & Sons.
- Byrne, B. M. (2016). Structural equation modeling with AMOS: basic concepts, applications, and programming. 3rd Edition. Routledge.
- Nargundkar R. (2008). Marketing Research: Text and Cases. 3rd Edition, Tata McGraw Hill.
- 12. Zikmund, W. G., Babin, B. J., Carr, J. C., & Griffin, M. (2012). Business research methods. 9th Edition,Cengage Learning.

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Programme: B.A. (Honours/ Honours with Research)	Year: Third	Semester: VI
Subject: ECONOMICS		
Course Code: DSCC -603	**Course Title: Indian Economic Thought**	**(Theory)**

Course Objectives: This course will develop an interest among students regarding understanding of Indian Economic thoughts.

Course outcomes: On successful completion of this course students will be able to:

- CO-1 familiar with the basic economic ideas of Mahatma Gandhi.
- CO-2 familiar with modern economic thoughts after 19th century;

Credits : 4	**Core Course (CC)**
Max. Marks: 25+75 (Internal + External)	**Min. Passing Marks:**

Total No. of Lectures – Tutorials – Practical (in hours per week): L-T-P:4-1-0

Unit	Topics	Lectures 60
I	**Ancient Indian Economic Thought** - Valluvar: The idea of wealth, welfare state, poverty & begging. Kautilya: The Idea of Welfare State, Interest & Profit, Agriculture, Wage Policy	15
II	Dadabbhai Naoroji: Theory of Economic Drain, The idea of Poverty; M.G. Ranade:, Economic Backwardness of India, Opposition to Theory of Drain; G.K. Gokhale: Indian Finance & Surplus budget, Public Expenditure, Decentralization of Power	15
III	Economic thought of Mahatma Gandhi; Dr. Ambedkar; Dr. Ram Manohar Lohia; Pt. Deendayal Upadhya and Ch. Charan Singh	15
IV	Economic ideas of C.N. Vakil, J.K. Metha, M.N. Roy, Gadgil and VKRV Rao	15

Teaching Learning Process: Class discussions/ demonstrations, Powerpoint presentations, Class activities / assignments, Field visits, internships, etc.

Suggested Readings:

- Kapila Uma, Indian Economy: Performance and Policies, Academic Foundation
- Kumar Sanjeev, Crop Diversification and Food Security in India, Mittal Publications
- Uttar Pradesh State Development Report, Volume I&II, State Plan Division, Planning Commission, Government of India, 2014.
- Agarwal M.K. Uttar Pradesh Mein Arthik Vikas, New Royal
- Madan, Sushila, Information Technology, Taxman Allied Services, New Delhi.
- UP Human Development Reports and UP-SDR - 2022
- Relevant UP Government Publications

This course can opt as an elective / value–added course by the students of the following subjects: Open to all

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses: Suggestive digital platforms web links – ePG - Pathshala, IGNOU & UPRTOU, online study material SVAYAM Portal, http://heecontent.upsdc.gov.in/Home.aspx

Programme: B.A. (Honours/ Honours with Research)	Year: Third	Semester: VI
Subject: ECONOMICS		
Course Code: DSEC - 601	**Course Title: Demography**	**(Theory)**

Course Outcomes: To understand the fundamentals of Social Demography and how it is related to other sciences and social sciences. To understand the world population scenario and sources of demographic data. To understand the important concepts of size, growth, distribution and characteristics of Indian population. To familiarize the students with the components of population change and its contribution in change over the time. To get the overview of much solicited demographic techniques of estimating life expectancy and future population size. It also includes understanding the thinking and planning about the future population by setting some short term and long term goals.

Learning Outcomes:

a) To understand the fundamentals of population studies and how it is related to other sciences and social sciences

b) To understand the important concepts of size, growth, distribution and characteristics of Indian population.

c) To acquaint students with how populations, change over time, and why

d) To introduce students to intermediate concepts in demography

Credits: 4	**Elective Course (EC)**
Max. Marks: 25+75 (Internal + External)	**Min. Passing Marks:**

Total No. of Lectures – Tutorials - Practical (in hours per week):L-T-P:3-1-0

Unit	Topics	Lectures 60
I	**An Introduction to Demography** Introduction to Demography, Nature and significance of Demography, Interrelation between Sociology and Demography; Sources of Data - Demographic Year Books, Population Census, Sample Registration System	15
II	**Population Theories** Theories of Population: Malthusian Theory, Optimum Theory; Theories of Demographic Transition: Blacker and Boserup; Socio-economic theories of Population - Marx, Leibenstein, Approaches of Meadows, Becker and Easterlin.	15
III	**Trends of World & India Population** Growth of World & India's Population: History of Growth, Population trends since 20th century, Causes of Population Explosion; International Aspects of Population Growth and distribution; Age and Sex Structure in more developed and less developed countries; Population Pyramids.	15
IV	**Measurement of Fertility, Mortality and Nuptiality** Fertility - Meaning & Concepts; Factors affecting Fertility; Levels and trends of fertility in developed and developing Countries Mortality - Meaning & Concepts; Factors affecting Mortality; Life Tables - Construction & Uses; Concepts of stationary, stable and quasi stationary population. Nuptiality - Meaning and Concepts; Determinants of Nuptiality; Trends in average age of marriage; Marital dissolution	15

Teaching Learning Process: Lectures, seminars, case studies, and tutorials

References:

- Bhende, A. A., & Kanitkar, T., 2014, Principles of Population Studies, Himalaya Publishing House.
- F, R., & Pathak, K. B., 2016, In Techniques of Demographic Analysis., Essay, Himalaya Publishing House.
- Preston, S. H., Heuveline, P., & Guillot, M., 2001, Demography: Measuring and Modeling Population Processes, Blackwell Publishing.
- Shryock, H. S., & Siegel, J. S., 1971, The Methods and Materials of Demography, U.S. Bureau of The Census.
- Spiegelman, M., 1980, Introduction to Demography, Harvard University Press.

- Srinivasan, K., 1998, Basic Demographic Techniques and Applications, Sage Publications.
- Premi, M.K. et al 1983. An Introduction to Social Demography. New Delhi:Vikas Publishing House.
- Yusuf Farhat, Jo M. Martius and David A. Seans (2016). Methods of Demographic Analysis. Springer Netherlands.
- Rowland, D. (2003). Demographic Methods and Concepts. OUP.
- Preston, Samuel H., Heuveline, P. & Guillot, Michel (2001). Demography: Measuring and Modeling Population Processes. Oxford: Blackwell Publishers.
- Bouge, D.J. (1971). Principles of Demography, John Wiley, New York.
  Harper, S. (2018). Demography: A Very Short Introduction, Cambridge University Press.
  Weinstein, J. & Pillai, V.K. (2015).Demography: The Science of Population. Rowman & Littlefield Publications.

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses: Suggestive digital platforms weblinks – ePG - Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

Programme: B.A. (Honours / Honours with Research)	**Year: Third**	**Semester: VI**
Subject: ECONOMICS		
Course Code: DSEC - 602	**Course Title: Gender Economics**	**(Theory)**

Course Outcomes: The course introduces students to the economic analysis of gender issues, focusing on inequalities, labour market disparities, social and economic empowerment, and policy measures aimed at gender equity. It provides a framework to understand how gender interacts with economic processes and development.

Credits: 4	
Max. Marks: 25+75 (Internal + External)	**Elective Course (EC)**
Total No. of Lectures – Tutorials – Practical (in hours per week): L-T-P:3-1-0	**Min. Passing Marks:**

Unit	Topics	Lectures 60
I	**Introduction to Gender Economics and Basic Concepts** Definition, scope, and significance of gender economics; Concepts of sex, gender, and gender roles; Gender divisions in household and market economies; Theories of gender and economics: feminist economics, social reproduction theory; Measurement of gender inequality: Gender Development Index (GDI), Gender Inequality Index (GII).	15
II	**Gender in Labour Markets and Employment** Gender segregation in labour markets: occupational segregation and wage differentials; Female labour force participation: trends, determinants, and barriers; Concepts of unpaid work and care economy; Gender discrimination and labour market policies; Intersectionality: how class, caste, and ethnicity intersect with gender in economic participation.	15
III	**Gender and Human Capital** Gender disparities in education and skill development; Gender and health outcomes: access, nutrition, maternal health; Impact of education and health on women's economic empowerment; Social norms and cultural factors affecting human capital accumulation.	15
IV	**Gender Policies and Economic Empowerment** Gender mainstreaming in economic policy and planning; Women's entrepreneurship and access to credit and financial services; Role of legal frameworks and social safety nets in promoting gender equality; Case studies of gender-sensitive policies in India and globally; Emerging challenges: violence against women, gender and technology, climate change impacts.	15

Teaching Learning Process: Lectures, seminars, case studies, and tutorials

References:

- Agarwal, B. (1994). A Field of One's Own: Gender and Land Rights in South Asia, Cambridge University Press.
- Kabeer, N. (1999). Resources, Agency, Achievements: Reflections on the Measurement of Women's Empowerment, Development and Change.
- Chant, S. (2007). Gender, Generation and Poverty: Exploring the 'Feminisation of Poverty' in Africa, Asia and Latin America, Edward Elgar Publishing.
- World Bank (2012). World Development Report: Gender Equality and Development.
- Sen, A. (1990). Gender and Cooperative Conflicts, in Persistent Inequalities.
- Deshpande, A. (2002). The Grammar of Caste: Economic Discrimination in Contemporary India, Oxford University Press.

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses:

Suggestive digital platforms weblinks - ePG-Pathshala, IGNOU & UPRTOU online study material SVAYAM Portal http://heecontent.upsdc.gov.in/Home.aspx

Programme: B.A. (Honours/ Honours with Research)		Year: Third	Semester: VI

Subject: ECONOMICS

Course Code: MGEC -601	Course Title: Indian Economic Thought	(Theory)

Course Objectives: This course will develop an interest among students regarding understanding of Indian Economic thoughts.

Course outcomes: On successful completion of this course students will be able to:

- CO-1 familiar with the basic economic ideas of Mahatma Gandhi.
- CO-2 familiar with modern economic thoughts after 19th century;

Credits : 4	**Minor Generic Elective Course (for other department students)**
Max. Marks: 25+75 (Internal + External)	Min. Passing Marks:

Total No. of Lectures – Tutorials – Practical (in hours per week): L-T-P:4-1-0

Unit	Topics	No. of Lectures 60
I	**Ancient Indian Economic Thought** - Valluvar: The idea of wealth, welfare state, poverty & begging. Kautilya: The Idea of Welfare State, Interest & Profit, Agriculture, Wage Policy	15
II	Dadabbhai Naoroji: Theory of Economic Drain, The idea of Poverty; M.G. Ranade:, Economic Backwardness of India, Opposition to Theory of Drain; G.K. Gokhale: Indian Finance & Surplus budget, Public Expenditure, Decentralization of Power	15
III	Economic thought of Mahatma Gandhi; Dr. Ambedkar; Dr. Ram Manohar Lohia; Pt. Deendayal Upadhya and Ch. Charan Singh	15
IV	Economic ideas of C.N. Vakil, J.K. Metha, M.N. Roy, Gadgil and VKRV Rao	15

Teaching Learning Process: Class discussions/ demonstrations, Powerpoint presentations, Class activities / assignments, Field visits, internships, etc.

Suggested Readings:

- Kapila Uma, Indian Economy: Performance and Policies, Academic Foundation
- Kumar Sanjeev, Crop Diversification and Food Security in India, Mittal Publications
- Uttar Pradesh State Development Report, Volume I&II, State Plan Division, Planning Commission, Government of India, 2014.
- Agarwal M.K. Uttar Pradesh Mein Arthik Vikas, New Royal
- Madan, Sushila, Information Technology, Taxman Allied Services, New Delhi.
- UP Human Development Reports and UP-SDR - 2022
- Relevant UP Government Publications

This course can opt as an elective / value–added course by the students of the following subjects: Open to all

Suggested Continuous Evaluation Methods: Assignment, Internal, Quiz, PPT presentation, External Examination etc.

Suggested equivalent online courses: Suggestive digital platforms web links – ePG - Pathshala, IGNOU & UPRTOU, online study material SVAYAM Portal, http://heecontent.upsdc.gov.in/Home.aspx

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