



DELHI TECHNOLOGICAL UNIVERSITY

(Formerly Delhi College of Engineering)

Estd. by the Government of NCT of Delhi vide Act 6 of 2009

ACADEMIC PROGRAMS (East Delhi Campus)



BACHELOR OF ARTS (HONS.) ECONOMICS

Academic Session 2017-18 onwards



COURSE CURRICULUM

**BACHELOR OF ARTS (HONS.) ECONOMICS
2017-18 onwards**



**DELHI TECHNOLOGICAL UNIVERSITY
EAST DELHI CAMPUS**

Vivek Vihar, Phase -2, Delhi-110095
www.dtu.ac.in

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SECTION A
About the University

Initially established with the name
“Delhi Polytechnic”
in the year 1941 at Kashmere Gate Campus.
In the year 1965 renamed as
Delhi College of Engineering.
Reconstituted as
Delhi Technological University in the year 2009
vide Govt. of NCT of Delhi Act 6 of 2009
Technological University.

“Committed to Foster Excellence in
Science, Engineering and Management
together”



Delhi Technological University
(Formerly Delhi College of Engineering)

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“Delhi Technological University is a non-affiliating teaching-cum-research University engaged in fostering excellence in education, research and innovations in engineering and technology, applied sciences and management.” The University is inspired by talent and driven by innovations and is firmly committed to provide industry relevant, socially responsible manpower to meet the challenges of 21st Century. The culture of research and innovations is vibrant in the DTU campus which inspires students from UG levels onwards to engage in cutting edge technology development and discover the value and worth of the knowledge acquired by them during their studies. With its illustrious history spanning over 76 years the institution is marching on the pathways of excellence and is one of the highly sought-after university for the inspired students community and faculty.

Vision

“To be a world class university through education, innovation and research for the service of humanity.”

Mission

1. To establish centres of excellence in emerging areas of science, engineering, technology, management and allied areas.
2. To foster an ecosystem for incubation, product development, transfer of technology and entrepreneurship.
3. To create environment of collaboration, experimentation, imagination and creativity.
4. To develop human potential with analytical abilities, ethics and integrity.
5. To provide environment friendly, reasonable and sustainable solutions for local & global needs.

“...DTU as a Technological University will be a significant milestone to create an academic and research environment to foster scientism and engineering excellence together. The upgradation of DCE as a Tech University is seen as a major initiative of Government of Delhi to make Delhi as the Knowledge Capital of India.”

The Inspiration

The inspiration for reconstituting Delhi College of Engineering into a Technological University in the NCT of Delhi has been derived from the fact that in the new Knowledge Age creation and dissemination of knowledge, capabilities of utilizing knowledge to create quantum jump in quality, performance and service to industry and society and thus, creating a better tomorrow has to be the hallmark of science, engineering and technology education in India. Such an effort when encapsulated with the agile layers of scientific values, unclenching faith in research integrity and professional morality ensures growth, prosperity and happiness around the world. Such an academic environment, in fact, needs to be created in the temples of higher learning, especially in the University and Institutions imparting professional education. This necessitates the requisite academic and administrative autonomy. The autonomy here becomes the freedom to excel and the associated accountability ensures a much greater commitment and compliance to high academic standards. In the context of Technological University and Engineering Institutions, we need also to cause seamless integration of science and engineering so that we succeed in creating the power of science and the might of technology together in our institutional campuses.

Learning from the international experience it goes without saying that we need to establish future Universities in India where science and technology both could flourish together, adding strength to each other's existence and contributing to the growth of interdisciplinary engineering in

an environment of scientism. What we really need to do is to create institutions and academic environment which attracts the very best talent towards science & engineering education and research both in the student community as well as in the faculty. For this we need to create the synergy between science and engineering to ensure that the very best talent is drawn towards university campuses that gravitate with the excitement of science and the thrill and joy of engineering. The DTU is firmly committed to foster this vital synergy between science and engineering.

The National Capital for many decades has been the hub for quality education and research in its premier institutions and universities. Delhi for a long time has been also known for promotion of manufacturing and production activities in both medium and small scale sectors. It has witnessed during the last two decades a significant growth of IT and ITES industries in and around Delhi. This has caused a major shift in the emphasis on shifting the hard core engineering activity to soft sectors of the knowledge economy. We could have caused a much greater resurgence of the core engineering sector if along with human resource development, we could have undertaken technology incubation and product innovation in our institutions of higher learning. DTU as a teaching-cum-research University offers a unique opportunity to create an environment of synergetic partnership between academic and industry. DTU thus, aims to cause a major departure from the conventional system of education and research. It aspires to imbibe a culture of scientific research in its technology disciplines and technology temper it its scientific research and education. The university also aspires to provide the thrill of a corporate R&D environment with a planned focus on industrially relevant projects and technology incubation.

The human resource output of DTU shall impact the growth of future engineering and technology. It will revolutionize the basis of design, systems

of manufacturing and give rise to development of new materials, next generation communication technologies, information highways and cyber networks, growth of clean energy and environment technologies and capabilities to manage technology, business and enterprises in the connected economy. In fact, the output of DTU is target to impact significantly the resurgence of the 3rd Industrial Revolution which is on the anvil given the convergence of IT and the fast developing opportunities for harnessing energy in plenty through renewable energy resources.

The research outputs of this university are of high value to India's socio-economic development and for the progress in industrially relevant science and technology. Strong linkages have been forged between teaching and research, university and industry, and university and research laboratories. Collaborative projects with industry and research institute are also a major focus area of the University.

The DTU is engaged in fostering a culture of excellence supported by qualified faculty and high quality student intake, including international students admitted through the NRI/ PIO/ Foreign Nationals quota. It has the necessary freedom and supportive layers of autonomy to nurture excellence in teaching and research. DTU is envisioned to be a pioneering institute having high productivity of quality scientific and technological human resource and brainware. We wish to benefit Industry in India from the quality of our graduate out turn and cost effective technology incubation and innovative product development. The DTU has focused its academic and research strategy on creating the Panchamrit of Academia, Industries, R&D organization, Government and Society, thus enhancing its reach as well as its share of contribution to national economy and playing its role as a partner in progress of the society.

About East Delhi Campus

The newly established East Delhi campus of DTU is functional from 2017-18 academic session. It is located at Vivek Vihar, Phase II, Delhi (in the premises of Shaheed Sukhdev College of Business Studies which has been shifted to a new campus in Rohini, Delhi). This campus endeavours to provide quality education, research and innovation in the emerging areas of management relevant to industry and society. From this academic session, it offers courses in Bachelor of Business Administration (B.B.A.), Bachelor of Arts B.A. (Hons.) in Economics and Master of Business Administration (M.B.A.) Courses on M.B.A. Business Analytics, M.B.A. with specialization in public policy shall be offered from Aug. 2018.

The prime focus of the East Delhi Campus shall be on:

- Introduction of New UG and PG programs in the emerging areas of management such as entrepreneurship and family business, public policy, business analytics and financial Markets etc. along with traditional management programs.
- Employability through industry relevant programs.
- Knowledge creation and innovation through research and development.
- Techno - entrepreneurship and knowledge enterprise development.



SECTION B
Key Functionaries

Name	Designation
Prof. Yogesh Singh	Vice Chancellor
Prof. S. K. Garg	Pro Vice Chancellor
Prof. Anu Singh Lather	Pro Vice Chancellor
Prof. Samsher	Registrar
Sh. R. K. Shukla	Link Officer to Registrar, OIC (S & P)
Sh. Anil Kumar	Deputy Registrar (Acad-PG and IRD), Link Officer to PIO
Dr. Ravinder Kaushik	Deputy Registrar, PIO, Recruitment & Estt, Legal
Prof. H C Taneja	Dean, Academics (PG)
Prof. Madhusudan Singh	Dean, Academics (UG)
Prof. Samsher	Dean, Student welfare
Prof. Ashutosh Trivedi	Dean, Industrial Research Development
Prof. S K Singh	Dean, Alumni Affairs
Prof. Vishal Verma	Dean, International Affairs
Prof. Pragati Kumar	Dean, Continuing Education
Prof. Pragati Kumar	Dean, Continuing Education
Dr. Rajni Jindal	HOD, Computer Science & Engineering
Dr. Kapil Sharma	HOD, Information Technology
Dr. S Indu	HOD, Electronics and Communication Engineering
Prof. R. S. Mishra	HOD, Mechanical & Production Engineering
Dr. Rajan Yadav	HOD, Delhi School of management
Prof. Madhusudan	HOD, Electrical Engineering
Prof. Nirendra Dev	HOD, Civil Engineering
Prof. A. K. Gupta	HOD, Environmental Engineering
Prof. D Kumar	HOD, Bio Technology
Prof. Suresh C. Sharma	HOD, Applied Physics
Dr. Sangita Kansal	HOD, Applied Mathematics
Dr. Seema Singh	HOD, Humanities
Dr. Archana Rani	HOD, Applied Chemistry and Polymer Technology
Dr. R. S. Walia	Training & Placement
Mr. Vinod Kumar	Associate Head, Computer Science & Eng.

Name	Designation
Dr. Ruchika Malhotra	Associate Head, Computer Science & Engineering
Dr. Suman Bhowmick	Associate Head, Electrical Engineering
Dr. Rachna Garg	Associate Head, Electrical Engineering
Dr. Raj Kumar Singh	Associate Head, Mechanical & Production Engineering
Dr. Atul Agarwal	Associate Head, Mechanical & Production Engineering
Dr. Rajesh Kumar	Associate Head, Mechanical & Production Engineering
Sh. Kamal Pathak	Controller of Examinations
Prof. Vipin	Chief Vigilance Officer
Sh. Anoop Lather	Public Relations Officer
Prof. Pragati Kumar	Superintendent (Exam)
Sh. Bimal Jain	Chief Project Officer / Estate Officer
Dr. Kapil Sharma	OSD (Results)
Dr. Mukhtiyar Singh	OIC, B.Tech. (Evening)
Dr. Rajeshwari Pandey	Associate Dean (Academic - UG)
Dr. S.G. Warker	Associate Dean (SW)
Sh. Vinod Bhandari	Assistant Public Information Officer
Dr. Ruchika Malhotra	Assistant Director (International Affairs)
Dr. Roli Purwar	Assistant Director (International Affairs)
Dr. Vivek Tripathi	Assistant Registrar (International Affairs)
Dr. Nitin Puri	Security Officer, Transport Officer
Dr. Raj Kumar Singh	OIC, Workshop
Rajesh Rohilla	Officer-in-charge, Guest House
Sh. Rajesh Birok	OIC, Health Centre
Prof. A.K. Gupta	Coordinator, TEQIP - III
Dr. D.K. Vishwakarma	OIC (Secrecy), OIC (GA)
Dr. Anil Singh Parihar	Additional Incharge (Secrecy)

SECTION C
Scheme and Syllabus of
B.A. (Hons.) Economics Program

Syllabus for Bachelor of Arts (Hons.) Economics

B.A. (Hons.) Economics program at the DTU's East Delhi Campus aims at providing in depth knowledge of Economics to the students. The program is designed as per the varying interests and career ambitions in the emerging areas of economics. The three years program is structured in 6 semesters.

Criteria for Assessment

All theory courses have internal assessment of 25 marks and end semester examination of 75 marks. For the courses related to projects, internal assessment is 50 marks and external

examination is 50 marks. The courses related to Lab have 40 marks as internal assessment and 60 marks for external examination. The internal assessment of the students (out of 25 marks) will be done on the basis of following suggestive components: class tests/individual presentation/ viva-voce/group discussion/ attendance etc.

The Project shall carry 100 marks i.e., marks equivalent to one course and it shall be pursued by every student under the supervision of one internal supervisor. The Internal Supervisor shall award marks out of 50 and the External Examiner shall award marks out of 50. The External Examiner shall be appointed by the University.

First Semester

Code No.	Paper	Discipline	L	T/P	Credits
BA 101	Introductory Microeconomics	Core Discipline	5	1/0	6
BA 102	Mathematical Methods for Economics – I	Core Discipline	5	1/0	6
BA 103	Environmental Studies	Ability Enhancement Course	2	0	2
BA 1xx	Generic Elective– I	Elective Course	5	1/0	6
Total			17	3	20

Second Semester

Code No.	Paper	Discipline	L	T/P	Credits
BA 111	Introductory Macroeconomics	Core Discipline	5	1/0	6
BA 112	Mathematical Methods for Economics – II	Core Discipline	5	1/0	6
BA 113	English Communication	Ability Enhancement Course	2	0	2
BA 1xx	Generic Elective– II	Elective Course	5	1/0	6
Total			17	3	20

Third Semester

Code No.	Paper	Discipline	L	T/P	Credits
BA 201	Intermediate Microeconomics - I	Core Discipline	5	1/0	6
BA 202	Intermediate Macroeconomics - I	Core Discipline	5	1/0	6
BA 203	Statistical Methods for Economics	Core Discipline	5	1/0	6
AE xxx	Ability Enhancement Elective-I	Ability Enhancement Course	2	0	2
BA 2xx	Generic Elective– III	Elective Course	5	1/0	6
Total			22	4	26

Fourth Semester

Code No.	Paper	Discipline	L	T/P	Credits
BA 211	Intermediate Microeconomics – II	Core Discipline	5	1/0	6
BA 212	Intermediate Macroeconomics – II	Core Discipline	5	1/0	6
BA 213	Introductory Econometrics	Core Discipline	5	1/0	6
AE xxx	Ability Enhancement Elective-II	Ability Enhancement Course	2	0	2
BA 2xx	Generic Elective– IV	Elective Course	5	1/0	6
Total			22	4	26

Fifth Semester

Code No.	Paper	Discipline	L	T/P	Credits
BA 301	Indian Economy – I	Core Discipline	5	1/0	6
BA 302	Development Economics – I	Core Discipline	5	1/0	6
BA 3xx	Discipline Specific Elective Course - I *	Elective Course	5	1/0	6
BA 3xx	Discipline Specific Elective Course – II *	Elective Course	5	1/0	6
Total			20	4	24

*From List of Group - I

Sixth Semester

Code No.	Paper	Discipline	L	T/P	Credits
BA 311	Indian Economy – II	Core Discipline	5	1/0	6
BA 312	Development Economics – II	Core Discipline	5	1/0	6
BA 3xx	Discipline Specific Elective Course – III *	Elective Course	5	1/0	6
BA 3xx	Discipline Specific Elective Course – IV *	Elective Course	5	1/0	6
Total			20	4	24

*From List of Group – II

Generic Elective – I

BA 104 Financial Markets and Institutions

BA 105 Financial Management

BA 106 Financial Accounting

Generic Elective – II

BA 114 Business Communication

BA 115 Customer Relationship Management

BA 116 Organizational Development

Generic Elective – III

BA 204 Marketing Management

BA 205 Sales and Distribution Management

BA 206 Investment Management

Generic Elective –IV

BA 214 Human Resource Management

BA 215 Training and Development

BA 216 Compensation Management

Group-I Discipline Specific Elective (BA 3xx)	Group-II Discipline Specific Elective (BA 3xx)
BA 303: Economics of Health and Education	BA 313: Political Economy-II
BA 304: Applied Econometrics	BA 314: Comparative Economic Development (1850-1950)
BA 305: Economic History of India (1857-1947)	BA 315: Financial Economics
BA 306: Topics in Microeconomics-I	BA 316: Topics in Microeconomics-II
BA 307: Political Economy-I	BA 317: Environmental Economics
BA 308: Money and Financial Markets	BA 318: International Economics
BA 309: Public Economics	BA 319: Dissertation/Project

Select Ability Enhancement Elective-I & II from the following:

Code	Name of Foundation Elective	LTP		
		Allocation		
		L	T	P
AE 001	Sports-I	0	0	2
AE 002	Sports-II	0	0	2
AE 003	NSS	0	0	2
AE 004	NCC	0	0	2
AE 005	Corporate Social Responsibility	2	0	0
AE 006	Environment development and Society	2	0	0
AE 007	Financial Literacy	2	0	0
AE 008	Introduction to Indian society	2	0	0
AE 009	Soft Skills and Personality Development	1	0	1
AE 010	Theatre	0	0	2
AE 011	Dance	0	0	2
AE 012	Yoga	0	0	2
AE 013	Digital Film Making	0	0	2
AE 014	Music	0	0	2
AE 015	Sociology of development	2	0	0
AE 016	Universal Human Values 1: Self and Family	2	0	0
AE 017	Universal Human Values 2: Self Society and Nature	2	0	0

SEMESTER I

BA 101: Introductory Microeconomics

5-1-0

Course Objective

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.

Unit I

Basics of Economics: Scope and method of economics: science of economics; the economic problem: scarcity and choice; Central problems of an economy: Economic Systems. Opportunity cost; marginal principle; functions & graphs.

Unit II

Demand Theory: Demand function: determinants of demand; change in demand and shift in demand. Supply function; interaction of demand & supply. Shift in supply curve. Elasticity: Types of elasticity and measures of elasticity. Parallel and intersecting demand curves. Dual pricing; consumer surplus; producer surplus.

Unit III

Consumer Behavior: Cardinal and Ordinal approaches to utility. Consumer equilibrium: properties of indifference curves; budget constraint; consumer equilibrium; price, income and substitution effects; inferior and Giffen goods. Applications of indifference curve: choice between leisure and consumption.

Unit IV

Theory of Production and Cost: Behaviour of profit maximizing firms and the production process; Production function: stages of

production; labour and capital intensive production; short run costs and output decisions; laws of return to scale; costs and output in the long run. Producers equilibrium through isoquants.

Text Books:

1. Karl E. Case and Ray C. Fair, Principles of Economics, Pearson Education Inc., 8th Edition, 2007.
2. N. Gregory Mankiw, Economics: Principles and Applications, India edition by South Western, a part of Cengage Learning, Cengage Learning India Private Limited, 4th edition, 2007.
3. Joseph E. Stiglitz and Carl E. Walsh, Economics, W.W. Norton & Company, Inc., New York, International Student Edition, 4th Edition, 2007.

BA 102: Mathematical Methods for Economics – I

5-1-0

Course Objective

The objective of this course is to teach the concepts of basic mathematics that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics and econometrics set out in this syllabus. In this course, particular economic models are the means for illustrating the method of applying mathematical techniques to economic theory in general.

Unit I

Preliminaries: Logic and proof techniques; sets and set operations; relations; functions and their properties; number systems.

Unit II

Functions: Graphs; elementary types of functions: Linear, quadratic, cubic. Sequences and series: convergence, algebraic properties and applications. Continuous functions: characterizations, properties with respect to various operations and applications

Unit III

Derivatives: Limits, Continuity and differentiability of Functions. First order and second order derivatives. their characterizations and applications. Partial and Total Derivatives and constrained optimization.

Unit IV

Economic Applications of Derivatives: Concave and convex functions. Maxima and Minima. Cost minimization and profit maximization. Lagrange Multiplier–applications to firm and consumer behavior.

Text Books:

1. K. Sydsaeter and P. Hammond, Mathematics for Economic Analysis, Pearson Educational Asia: Delhi, 2002.

BA 103: Environmental Studies

2-0-0

Course Objective

The basic objective of this paper is to highlight the basic fundamental of environmental science, complexity of ecosystems, major environmental problems including their causes and consequences. This course endeavors to provide a background to current and controversial environmental issues and possible solutions to environmental problems.

Unit I

Environmental Studies: Ecosystems, Bio-diversity and its Conservation -The Multidisciplinary Nature of Environmental Studies; Definition, scope and importance of

Environmental Studies. Biotic and abiotic components of environment, need for environmental awareness. Ecosystems: Concept of an ecosystem, structure and function of an ecosystem, producers, consumers and decomposers, energy flow in the ecosystem, ecological succession, food chains, food webs and ecological pyramids. Introduction, types, characteristic features, structures and function of different ecosystem. Bio-diversity and its Conservation: Introduction to biodiversity—definition: genetic, species and ecosystem diversity, Bio-geographical classification of India, Value of biodiversity: Consumptive use, productive use, social, ethical, aesthetic and option values, Biodiversity at global, national and local levels, India as a mega-diversity nation, Hot-spots of biodiversity, Threats to biodiversity: Habitat loss, Poaching of wildlife, man wildlife conflicts, rare endangered and threatened species (RET) endemic species of India, method of biodiversity conservation: In-situ and ex-situ conservation.

Unit II

Natural Resources: problems and prospects

- Renewable and Non-renewable Natural Resources, Concept and definition of Natural Resources and need for their management, Forest resources: Use and over-exploitation, deforestation, case studies, timber extraction, mining, dams and their effects on forests and tribal people. Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems, Water conservation, rain water harvesting, watershed management. Mineral resources: Uses are exploitation, environmental effects of extracting and using mineral resources, case studies. Food resources: World food problems, changes caused by agriculture and over-grazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies. Energy resources: Growing energy needs, renewable and non-renewable

energy sources, use of alternate energy sources, Urban problems related to energy, case studies. Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification.

Unit III

Environmental Pollution Control: Environmental Pollution, Definition, types, causes, effects and control measures of (a) Air pollution, (b) Water pollution, (c) Soil pollution, (d) Marine pollution, (e) Noise pollution, (f) Thermal pollution. Nuclear hazards. Solid waste and its management: causes, effects and control measures of urban and industrial waste, Disaster Management, Social Issues, Human Population and the Environment. Social Issues, Social movements: Chipko movement, Narmada movement. Human Population and the Environment, 5. Sustainable development, Climate change, global warming, acid rain, ozone layer depletion,

Unit IV

Environmental ethics: Issues and possible solutions, Consumerism and waste products, Wasteland reclamation. Population growth, problems of urbanization.

Text Books:

1. E. Barucha, Textbook of Environmental Studies for Undergraduate Courses, Universities Press (India) Pvt. Ltd, 2005.
2. S. Chawla, A Textbook of Environmental Studies, McGraw Hill Education Private Limited, 2012.

Generic Elective – I

BA 104: Financial Markets and Institutions	5-1-0
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Course Objective

To familiarize the students with components of Indian financial system, markets and major institutions.

Unit I

Financial System: components, features, financial system and economic development.

Unit II

Financial Markets: Money market – functions, organization and instruments, recent developments in Indian money market; Capital Markets: functions, organization and instruments, primary and secondary, financial market instruments.

Unit III

Financial Institutions: Indian banking industry- RBI, commercial banking, features, instruments, recent developments; Development Financial institutions (DFIs):overview and role in Indian economy; Life and non-life insurance organizations in India; Mutual Funds; Non-banking financial companies (NBFCs).

Unit IV

Financial Services: Merchant banking, underwriting, Housing finance, leasing, venture capital, hire purchase, factoring.

Text Books:

1. M.Y. Khan, Indian Financial System, McGraw Hill Education (India) Private Limited, 2013.
2. N. K. Gupta, M. Chopra, Financial Markets, Institutions & Services, Ane Books Pvt. Ltd., 2013.

BA 105: Financial Management

5-1-0

Course Objective

Efficient Management of a business enterprise is closely linked with the efficient management of its finances. Accordingly, the objective of the course is to acquaint the students with the overall framework of financial decision-making in a business unit.

Unit I

Financial Management: Nature, scope and objectives of financial management, Time value of money, Concept of Risk and Return (including Capital Asset Pricing Model), Valuation of Securities: Debentures, Preference shares and Equity Shares.

Sources of Financing: Classification of Sources of Finance, Security Financing, Loan Financing, Project Financing, Loan Syndication-Book Building, New Financial Institutions and Instruments (inbrief) viz. Depositories, Factoring, Venture Capital, Credit Rating, Commercial Paper, Certificate of Deposit, Stock Invest, Global Depository Receipts.

Unit II

Capital Budgeting: Concept, Importance and Appraisal Methods: Pay Back Period, Accounting Rate of Return, Net Present Value Method (NPV), Profitability Index, and IRR. Capital budgeting under Risk- Certainty Equivalent Approach and Risk Adjusted Discount Rate.

Unit III

Cost of Capital and Capital Structure: Meaning, classification and methods of calculating cost of equity capital, cost of retained Earnings, Cost of Debts, Cost of Preference Capital and Weighted Average Cost of Capital (WACC). Capital structure: Theories of Capital Structure (Net income, Net Operating Income, MM Hypothesis, Traditional Approach), Determinants of Capital structure. Leverage: Concept, significance and types of leverage: Operating and Financial leverage.

Unit IV

Dividend Decision and Working Capital Management: Retained Earnings Vs Dividend Decision, Gordon Model, Walter Model, MM Approach, Determinants of Dividend. Working capital Management: meaning and nature of Working Capital, Working Capital estimation, Inventory and Payable management.

Text Books:

1. I.M. Pandey, Financial Management, Vikas Publishing House, 2010.
2. M.Y. Khan and P.K. Jain, Financial Management, Tata McGraw Hill Education, 2013.
3. E.F. Brigham, E.F., Financial Management: Theory and Practice, Cengage Publication, 2017.

BA 106: Financial Accounting

5-1-0

Course Objective

The objective of this paper is to help students to acquire conceptual knowledge of the financial accounting and to impart skills for recording various kinds of business transactions.

Unit I

Meaning and Scope of Accounting: Objectives and nature of Accounting, Definition and Functions of Accounting, Book Keeping and Accounting, Interrelationship of Accounting with other Disciplines, Branches of Accounting, Limitation of Accounting. Accounting Principles and Standards: Accounting Principles, Accounting Concepts and Conventions, Meaning and relevance of GAAP, Accounting cycle system of accounting Introduction to Accounting Standards Issued by ICAI.

Contemporary Issues & Challenges in Accounting: Human Resource Accounting, Green Accounting, Inflation Accounting, Price level Accounting, Social Responsibility Accounting

Need and significance of International Financial Reporting Standards (IFRS).

Unit II

Journalising Transactions: Journal Entries, compound Journal entries, Opening Entry. Ledger Posting and Trial Balance: Preparation

of Ledger, Posting, Cash book, Sales and Purchase book and Trial Balance. Company Final Accounts: Preparation of Final Accounts with adjustments, Trading Account, Profit & Loss Account, Balance Sheet.

Unit III

Depreciation Accounting: Concept of Depreciation-Nature, Objectives, Methods of computing (straight line method and written down value method). Change of Method-Accounting standard 6 (ICAI), salient features of Accounting Standard (AS) - 6 (ICAI) (Revised) Revenue recognition: salient features of accounting standard (AS-9), recognition of expenses (only theory).

Unit IV

Branch Accounting: Concept of Dependent branches; accounting system; debtors system, stock and debtors system. Independent branches: Accounting System-important adjustment entries and preparation of consolidated profit and loss account and balance sheet.

Text Books

1. P.C. Tulsian, P.C., Financial Accounting, Pearson Education, 2012.
2. S.N. Maheshwari and S. K. Maheshwari, Financial Accounting, Vikas Publishing House, New Delhi, 2012.
3. A.K. Bhattacharyya, Essentials of Financial Accounting, Prentice Hall of India, 2010.
4. Rajasekran, Financial Accounting, Pearson Education, 2010.
5. S.K. Bhattacharya and J. Dearden, Accounting for Manager – Text and Cases, Vikas Publishing House, 2010.
6. M. W. E. Glautier, and B. Underdown, Accounting Theory and Practice, Pearson Education, 2010.

SEMESTER II

BA 111: Introductory Macroeconomics

5-1-0

Course Objective

This course aims to introduce the students to the basic concepts of Macroeconomics. Macroeconomics deals with the aggregate economy. This course discusses the preliminary concepts associated with the determination and measurement of aggregate macroeconomic variable like savings, investment, GDP, money, inflation, and the balance of payments.

Unit I

Introduction to Macroeconomics: Basic issues studied in macroeconomics; measurement of gross domestic product; income, expenditure and the circular flow; real versus nominal GDP; price indices.

Unit II

National Income Accounting: National income accounting for an open economy; balance of payments: current and capital accounts.

Unit III

Money: Functions of money; quantity theory of money; determination of money supply and demand; credit creation; tools of monetary policy, Inflation: Inflation its causes and its social costs; hyperinflation.

Unit IV

The Closed Economy in the Short Run: Classical and Keynesian systems; simple Keynesian model of income determination; IS-LM model; fiscal and monetary multipliers.

Text Books:

1. R. Dornbusch, S. Fischer and R. Startz, Macroeconomics, McGraw Hill, 11th edition, 2010.

2. N. G. Mankiw. Macroeconomics, Worth Publishers, 7th edition, 2010.
3. O. Blanchard, Macroeconomics, Pearson Education, Inc., 5th edition, 2009.
4. R. T. Froyen, Macroeconomics, Pearson Education Asia, 2nd edition, 2005.
5. A. B. Abel and B. S. Bernanke, Macroeconomics, Pearson Education, Inc., 7th edition, 2011.
6. E. D'Souza, Macroeconomics, Pearson Education, 2009.
7. P. R. Krugman, M. Obstfeld and M. Melitz, International Economics, Pearson Education Asia, 9th edition, 2012.

BA 112: Mathematical Methods for Economics – II

5-1-0

Course Objective

This course is the second part of a compulsory two-course sequence. The objective of this course is to teach the basic concepts of basic mathematics that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics and econometrics set out in this Syllabus. In this course, particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general.

Unit I

Differential equations: First-order differential equations; integral curve, direction diagram and slope field; qualitative theory and stability.

Unit II

Linear algebra: Vector spaces: algebraic and geometric properties, scalar products, norms, orthogonality; linear transformations: properties,

matrix representations and elementary operations; systems of linear equations: properties of their solution sets; determinants: characterization, properties and applications.

Unit III

Functions of several real variables: Geometric representations: graphs and level curves; differentiable functions: characterizations, properties with respect to various operations and applications; second order derivatives: properties and applications; the implicit function theorem, and application to comparative statics problems; homogeneous and homothetic functions: characterizations and applications. Multi-variable optimization: Convex sets; geometric properties of functions: convex functions, their characterizations, properties and applications.

Unit IV

Further geometric properties of functions: Quasiconvex functions, their characterizations, properties and applications; unconstrained optimization: geometric characterizations, characterizations using calculus and applications; Constrained optimization with equality constraints: Geometric characterizations, Lagrange characterization using calculus and applications; properties of value function: envelope theorem and applications.

Text Books:

1. K. Sydsaeter and P. Hammond, Mathematics for Economic Analysis, Pearson Educational Asia: Delhi, 2002.

BA 113: English Communication

2-0-0

Course Objective

The objective of this course is to teach the students the concepts of communication, reading, writing and understanding.

Unit I

Introduction: Theory of Communication, Types and modes of Communication, Language of Communication: Verbal and Non-verbal (Spoken and Written), Personal, Social and Business, Barriers and Strategies, Intra Personal, Inter Personal and Group Communication.

Unit II

Speaking Skills: Monologue, Dialogue, Group Discussion, Effective Communication/ Mis-Communication, Interview, Public Speech.

Unit III

Reading and Understanding: Close Reading, Comprehension, Summary Paraphrasing, Analysis and Interpretation, Translation (from Indian language to English and vice-versa), Literary/Knowledge Texts.

Unit IV

Writing Skills: Documenting, Report Writing, Making notes, Letter Writing

Text Books:

1. G. Mishra, B.I. Biswas, Language through Literature, Primus Books, Delhi, 2015.
2. Fluency in English Part II, Oxford University Press, 2006.
3. Business English, Pearson, 2008.

Generic Elective – II

BA 114: Business Communication

5-1-0

Course Objective

The objective of this course is to familiarize students about the dynamics of business language, communication, presentation tools and discourse.

Unit I

Fundamental of Communication English and Career Management: Meaning and significance

of communication, Process of Communication, Principles of Effective Business Communication, 7Cs; How To Improve Command Over Spoken and Written English, Self Appraisal, Selection of Job to match your potential, Challenges of 21st Century managing carrier, Art of Effective Listening.

Unit II

Communicating in a Multicultural World:

Idea of a global world, Impact of globalization on organizational and multicultural communication, understanding culture for global communication; Etic and Emic approaches to culture, The Cross Cultural Dimensions of Business Communication, Technology and Communication, Ethical & Legal Issues in Business Communication, overcoming hurdles in cross cultural communication.

Unit III

Business letter writing and Presentation

Tools: Business letter writing and Presentation Tools: Business letters- Need, Functions and Layout of Letter Writing, Types of Letter Writing: Persuasive Letters, Request Letters, Sales Letters and Complaints; Employment related letters Interview Letters, Promotion. Letters, Resignation Letters.

Unit IV

Departmental Communication: Meaning, Need and Types, News Letters, Circulars, Agenda, Notice, Office Memorandums, Office Orders, Minutes of the meeting. Project and Report writing, How to Make a Presentation, the Various Presentation Tools, along with Guidelines of Effective Presentation.

Text Books:

1. R. Lesikar. K. Lentz, N. Pandey, L.E. Flatley Business Communication: Making Connections in a Digital World. Tata McGraw Hill Publishing Company Ltd. New Delhi, 2014.

2. K. Rentz, M. Flatley and R. Lesikar, "Business Communication: Making Connections in a Digital World", Tata McGraw Hill Publishing Company Ltd. New Delhi, 2014.
3. C. L. Boove, J. V. Thill and M. Chaturvedi, "Business Communication Today", Pearson, 2014.
4. A.C. Krizan, P. Merrier, J.P. Logan, K. C. Williams, "Business Communication", Cengage Learning, 2014.

BA 115: Customer Relationship Management	5-1-0
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Course Objective

The objective of this course is to enable the students to understand the importance of satisfying the customer in today's competitive world.

Unit I

Introduction to CRM: Definition and concepts of CRM, Components of CRM, Understanding the goal of CRM and Customer Touch Points.

Unit II

CRM Process: Introduction and Objectives of a CRM Process; an Insight into CRM and e- CRM/ online CRM, The CRM cycle i.e. Assessment Phase; Planning Phase; The Executive Phase; Modules in CRM, 4C's (Elements) of CRM Process, CRM Process for Marketing Organization, CRM Affiliation in Retailing Sector.

Unit III

Developing CRM Strategy: Role of CRM in business strategy, Managing Customer communications, ECRM- Meaning and Features, Differences between CRM and ECRM.

Unit IV

CRM Implementation: Choosing the right CRM Solution; Framework for Implementing

CRM: a Step-by-Step Process: Five Phases of CRM Projects; Development of Customizations; Beta Test and Data Import; Train and Retain; Roll out and System Hand-off; Support.

Text Books:

1. E. Peelen, and B. Rob, Customer Relationship Management, Pearson Education India, 2013.
2. F. Buttle, Customer Relationship Management, Routledge, 2015.

Reference Books

1. A. Jon, N.L. Petouhoff, and S. Kalia, Customer Relationship Management, Pearson Education, 2013.
2. P. Greenberg, CRM at the Speed of Light, Tata McGraw Hill, 2010.
3. J.K. Bhasin, Customer Relationship Management, Dreamtech Press, 2012.
4. V. Kumar and R. Werner (2012), Customer Relationship Management, Springer, 2012.

BA 116: Organizational Development

5-1-0

Course Objective

The course aims at acquainting the students with theory and practice of planned change, organizational renewal and development.

Unit I

Introduction to Organizational Development: Definition, Nature and Characteristics of Organization Development, Managing the Organization Development Process, Theories of Planned Change, Goals, Values and Assumptions of OD, Role and Competencies of the OD practitioner.

Unit II

The Diagnostic Process and Introduction to OD Interventions: Diagnosis at the Organization, Group and Individual Level, Data Collection Process, Diagnostic Methods, Challenges in Diagnosis, Diagnostic Information Feedback: Characteristics of Effective Feedback, Survey Feedback. Characteristics of Effective Interventions, Designing Interventions, The Intervention Process.

Unit III

Human Process and HRM Intervention: Sensitivity Training, Process Consultation, Third-Party Interventions, Team Building, Organization Confrontation Meeting, Intergroup Relations Interventions, Large Group Interventions: Grid OD; System for Management; Role Playing, Employee Empowerment, Performance Management Systems, Employee Wellness Interventions, Career Planning, Goal Setting, MBO.

Unit IV

Techno Structural and Strategic Interventions: Restructuring Organizations, Job Enrichment, Socio-technical Systems, TQM and Quality Circles, Culture Change, Self –Designing Organizations, Learning Organizations, Challenges and Future for the Organization, Future trends in OD, Ethical Issues in Organizational Development.

Text Books

1. T.G. Cummings & C.G. Worley, Organizational Development and Change. Cengage Learning, 2009.
2. W. French, C. H. Bell, Organizational Development. Pearson, 2007.
3. D.R. Brown & D. Harvey, D. An Experiential Approach to Organization Development. Pearson Education, 2006.

SEMESTER III

BA 201: Intermediate Microeconomics – I

5-1-0

Course Objective

The course is designed to provide a sound training in microeconomic theory to formally analyze the behaviour of individual agents. Since students are already familiar with the quantitative techniques in the previous semesters, mathematical tools are used to facilitate understanding of the basic concepts. This course looks at the behaviour of the consumer and the producer and also covers the behaviour of a competitive firm.

Unit I

Consumer Theory: PCC, ICC; Derivation of Demand Curve through indifference curves. Strong and weak preference; Revealed preference: Derivation of Indifference curve through revealed preference. Choice under risk and intertemporal choice.

Unit II

Market Structure: Perfect competition: Equilibrium in short and long run. Supply Curve of a firm. Taxation and Equilibrium of a Firm. Break-even and Shut Down Point.

Imperfect competition: Monopolistic competition and monopoly. Price discrimination. Monopoly and anti-trust policy.

Unit II

Oligopoly and Game Theory: Oligopoly: Cournot solution. Price leadership; Kinked Demand Curve. Duopoly: reaction curves. Game theory: modeling competitive situations; non cooperative games; repeated games.

Text Books:

1. H. R. Varian, Intermediate Microeconomics: A Modern Approach, W.W. Norton and Company/Affiliated East-West Press (India), 8th edition, 2010.

2. C. Snyder and W. Nicholson, Fundamentals of Microeconomics, Cengage Learning (India), 2010.

3. B. D. Bernheim and M. D. Whinston, Microeconomics, Tata McGraw-Hill (India), 2009.

BA 202: Intermediate Macroeconomics – I

5-1-0

Course Objective

This course introduces the students to formal modeling of a macro-economy in terms of analytical tools. It discusses various alternative theories of output and employment determination in a closed economy in the short run as well as medium run, and the role of policy in this context. It also introduces the students to various theoretical issues related to an open economy.

Unit I

General Price Level and Aggregate Demand: Inflation: Quantity Theory of Money; Cost Push – Demand Pull and Structural Theories. Modern Aggregate Demand function.

Unit II

Unemployment, Inflation and Aggregate Supply: Price Level and Unemployment: Phillips curve; Rational and Adaptive Expectations. Derivation of and Aggregate Supply: Sticky-wages models.

Unit III

Exchange rate determination and Balance of Payment: Disequilibrium and Methods of removal. Elasticity, absorption and monetary approaches. International financial markets.

Unit IV

Open Economy Models: Purchasing power parity; asset market approach. Trade, Investment and Exchange Rate: Equilibrium in a small open economy. Mundell-Fleming model.

Text Books:

1. R. Dornbusch, S. Fischer and R. Startz, Macroeconomics, McGraw Hill, 11th edition, 2010.
2. N. G. Mankiw. Macroeconomics, Worth Publishers, 7th edition, 2010.
3. Olivier Blanchard, Macroeconomics, Pearson Education, Inc., 5th edition, 2009.
4. Steven M. Sheffrin, Rational Expectations, Cambridge University Press, 2nd edition, 1996.
5. Andrew B. Abel and Ben S. Bernanke, Macroeconomics, Pearson Education, Inc., 7th edition, 2011.
6. Errol D'Souza, Macroeconomics, Pearson Education, 2009 .
7. Paul R. Krugman, Maurice Obstfeld and Marc Melitz, International Economics, Pearson Education Asia, 9th edition, 2012.

BA 203: Statistical Methods for Economics	5-1-0
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Course Objective

The course will teach the students basic concepts and terminology that are fundamental to statistical analysis and inference. It will then develop the notion of probability, followed by probability distributions of discrete and continuous random variables and of joint distributions. This is followed by a discussion on sampling techniques used to collect survey data. The course introduces the notion of sampling distributions that act as a bridge between probability theory and statistical inference. The syllabus also describes some topics in statistical inference that include point and interval estimation.

Unit I

Introduction and Overview: The distinction between populations and samples and between population parameters and sample statistics; the use of measures of location and variation to describe and summarize data; population moments and their sample counterparts.

Unit II

Elementary Probability Theory: Sample spaces and events; probability axioms and properties; counting techniques; conditional probability and Bayes' rule; independence.

Unit III

Random Variables and Probability Distributions: Defining random variables; probability distributions; expected values of random variables and of functions of random variables; properties of commonly used discrete and continuous distributions (uniform, binomial, normal, poisson and exponential random variables). Random Sampling and Jointly Distributed Random Variables:

Density and distribution functions for jointly distributed random variables; computing expected values; covariance and correlation coefficients.

Unit IV

Sampling, Point and Interval Estimation: Principal steps in a sample survey; methods of sampling; the role of sampling theory; properties of random samples. Estimation of population parameters using methods of moments and maximum likelihood procedures; properties of estimators; confidence intervals for population parameters. Normal distribution; chi-square, t- and F-distributions; testing hypotheses related to population parameters;

Text Books:

1. J. L. Devore, Probability and Statistics for Engineers, Cengage Learning, 2010.
2. J. E. Freund, Mathematical Statistics, Prentice Hall, 1992.
3. R. J. Larsen and M. L. Marx, An Introduction to Mathematical Statistics and its Applications, Prentice Hall, 2011.
4. William G. Cochran, Sampling Techniques, John Wiley, 2007.

Generic Elective – III

BA 204: Marketing Management

5-1-0

Course Objective

The objective of this course is to familiarize the students with the foundation terms and concepts that are commonly used in marketing. It also identifies the essential elements for effective marketing practice. This course will teach the students about complete relationship between marketing and other management functions.

Unit I

Introduction to Marketing: Nature, Scope and Importance of Marketing, Basic concepts, Marketing Environment, Consumer Behavior, Market Segmentation, Targeting and Positioning.

Unit II

Product: Product Levels, Product Mix, Product Strategy, Product Development, Product Lifecycle and Product Mix. Pricing Decisions: Designing Pricing Strategies and Programmes, Pricing Techniques.

Unit III

Place: Meaning & importance, Types of Channels, Channels Strategies, Designing and Managing Marketing Channel, Retailing, Physical Distribution, Marketing Logistics and Supply Chain Management.

Unit IV

Promotion: Promotion Mix, Push vs. Pull Strategy; Promotional Objectives, Advertising-Meaning and Importance, Types, Media Decisions, Promotion Mix, Personal Selling-Nature, Importance and Process, Sales Promotion – Purpose and Types; Publicity and Public Relations- Definition, Importance and Methods. Emerging Issues in Marketing: Integrated Marketing, Online Marketing, Online Payments, Rural Marketing, Social Marketing, Green Marketing (Introductory aspects only).

Text Books

1. P. Kotler, P.Y. Agnihotri and E.U. Haque, Principles of Marketing- A South Asian Perspective, Pearson Education, 2012.
2. V.S. Ramaswamy and S. Namkumar, Marketing Management Global Perspective: Indian Context, McMillan, Delhi, 2013.

BA 205: Sales and Distribution Management

5-1-0

Course Objective

The course aims to impart the knowledge and skills needed to manage the sales force and distribution functions in a business organization so as to help gain a competitive advantage.

Unit I

Introduction to Sales Management: Nature, Scope and Importance of Sales Management, Background of Sales Management, Role and Competencies of Sales Managers, Sales Strategies, Emerging Trends in Sales management in context to Indian Market. Personal Selling Process: Importance and challenges, Types of Selling, Transactional and Relationship Selling, Sales Forecasting Methods.

Unit II

Sales Force Recruitment and Selection Process: Sales Force Training, Importance and Role of Training Programmes, Motivation and Compensation of Sales Personnel, Sales Territories and Sales Quotas. Role and Importance of Sales Personnel: Sales Budgets, Sales Audits, Legal and Ethical Issues in Sales Management, Role of Information Technology in Sales Management.

Unit III

Distribution Planning and Control: Functions of Intermediaries; Types and Role of Channel Intermediaries in India for Consumer and

Industrial products: Wholesale and Retail Structure, Channel Strategy and Design; Selection, Motivation and Evaluation of Intermediaries; Managing Channel Dynamics, Relationships and Channel Conflict; Ethical and Legal Issues in Sales and Distribution Management in Indian context.

Unit IV

Distribution System and Logistics: Physical Distribution System –Objectives and Decision Areas; Customer Service Goals; Logistics Planning; An overview of Transportation, Warehousing and Inventory Decisions; Efficient Supply Chain Management (SCM); Integration of Sales and Distribution Strategy.

Text Books

1. K.R. Still, E.W. Cundiff & N.A.P. Govoni, Sales Management. Pearson Education, New Delhi, 2014.
2. P. Sahu, Salesmanship and Sales Management, Vikas Publishing House, 2012.
3. B. Rosenbloom, Marketing Channels: A Management View, Cengage Learning, New Delhi, 2014.

BA 206: Investment Management

5-1-0

Course Objective

The objective of the course is to familiarize the students with various theories and concepts of investment in equity and bond market.

Unit I

Investment: meaning, nature and process; Investment alternatives, concept and Measurement of Investment risk and return, Identification of Investment Opportunity.

Unit II

Trading of Securities: Stock Exchange, Functions, trading system, Regulation and listing of securities.

Unit III

Valuation of Securities: equity, bonds and convertible securities.

Unit IV

Investment Analysis: Fundamental analysis; company analysis; industry analysis and economy analysis; Technical analysis; Dow Theory, Charting techniques, Volume indicators; Efficient market hypothesis.

Text Books:

1. P. Chandra, Investment Analysis and Portfolio Management, McGraw Hill Education (India) Private Limited, 2012.
2. P. Pandian, Security Analysis and Portfolio Management, Vikas publication, 2012.

SEMESTER IV

BA 211: Intermediate Microeconomics – II

5-1-0

Course Objective

The emphasis of the course is on giving conceptual clarity to the student coupled with the use of mathematical tools and reasoning. It will make students understand general equilibrium and welfare, imperfect markets and topics under information economics.

Unit I

General Equilibrium, Efficiency and Welfare: Equilibrium and efficiency under pure exchange and production; overall efficiency and welfare economics.

Unit II

Market Structure and Game Theory: Monopoly; pricing with market power; price discrimination; peak-load pricing; two-part tariff; monopolistic competition and oligopoly; game theory and competitive strategy.

Unit III

Market Failure: Externalities; public goods and markets with asymmetric information.

Text Books:

1. H. R. Varian, Intermediate Microeconomics: A Modern Approach, 8th edition, W.W. Norton and Company/Affiliated East-West Press (India), 2010.
2. C. Snyder and W. Nicholson, Fundamentals of Microeconomics, Cengage Learning (India), 2010.

BA 212: Intermediate Macroeconomics – II

5-1-0

Course Objective

The objective of the course is to introduce the students to the long run dynamic issues like

growth and technical progress. It also provides the micro-foundations to the various aggregative concepts used in the previous course.

Unit I

Schools of Macroeconomic Thoughts: Classical; Keynesians; New-Classicals and New-Keynesians.

Unit II

Economic Growth: Harrod-Domar model; Solow model; golden rule; technological progress and elements of endogenous growth.

Unit III

Consumption: Keynesian consumption function; Fisher's theory of optimal intertemporal choice; life-cycle and permanent income hypotheses; Dusenbury's Relative Income Hypothesis.

Unit I

Investment: Determinants of business fixed investment; residential investment and inventory investment, Demand for money, Fiscal and Monetary Policy: Active or passive; monetary policy objectives and targets; rules versus discretion: time consistency; the government budget constraint; government debt and Ricardian equivalence.

Text Books:

1. R. Dornbusch, S. Fischer and R. Startz, Macroeconomics, McGraw Hill, 11th edition, 2010.
2. N. G. Mankiw. Macroeconomics, Worth Publishers, 7th edition, 2010.
3. Olivier Blanchard, Macroeconomics, Pearson Education, Inc., 5th edition, 2009.
4. C. I. Jones, Introduction to Economic Growth, W.W. Norton & Company, 2nd edition, 2002.

5. Andrew B. Abel and Ben S. Bernanke, Macroeconomics, Pearson Education, Inc., 7th edition, 2011.
6. Errol D'Souza, Macroeconomics, Pearson Education, 2009.
7. Robert J. Gordon, Macroeconomics, Prentice-Hall India Limited, 2011.

BA 213: Introductory Econometrics

5-1-0

Course Objective

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.

Unit I

Nature and Scope of Econometrics:

Continuous and Discrete functions. Stochastic processes. Deterministic and Stochastic models. Behavioral and Empirical models.

Unit II

Simple Linear Regression Model: Two Variable Case 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.

Unit III

Multiple Linear Regression Model: Estimation of parameters; properties of OLS estimators; goodness of fit - R^2 and adjusted R^2 ; partial regression coefficients; testing hypotheses – individual and joint; functional forms of regression models; qualitative (dummy) independent variables.

Unit IV

Violations of Classical Assumptions:

Consequences, Detection and Remedies Multicollinearity; heteroscedasticity; Autocorrelation. Specification Analysis: Omission of a relevant variable; inclusion of irrelevant variable; JB statistic and DW Statistic.

Text Books

1. J. L. Devore, Probability and Statistics for Engineers, Cengage Learning, 2010.
2. J. E. Freund, Mathematical Statistics, Prentice Hall, 1992.
3. R. J. Larsen and M. L. Marx, An Introduction to Mathematical Statistics and its Applications, Prentice Hall, 2011.
4. D. N. Gujarati and D.C. Porter, Essentials of Econometrics, McGraw Hill, 4th edition, International Edition, 2009.
5. C. Dougherty, Introduction to Econometrics, Oxford University Press, 3rd edition, Indian edition, 2007.

Generic Elective – IV

BA 214: Human Resource Management

5-1-0

Course Objective

The objective of this course is to make students familiarize with basic concepts of human resource management and people related issues. It will provide in depth concepts of recruitment, selection, training and development.

Unit I

Human Resource Management: Concept and Functions, Role, Models, Status of HR, HR Policies, Evolution of HRM. Emerging Challenges of Human Resource Management; workforce diversity, empowerment, Downsizing; VRS; Human Capital; HRIS; Kaizen; TQM & Six Sigma

Unit II

Human Resource Planning: Human Resource Planning- Quantitative and Qualitative dimensions; Recruitment – Concept and sources; (E-recruitment, recruitment process outsourcing etc.); **Selection** – Concept and process; test and interview; placement induction. Job analysis – job description and job specification; job design; Job Enlargement; Job Enrichment and flexi-time; Career Planning; Succession Planning.

Unit III

Training and Development: Concept and Importance; Identifying Training and Development Needs; Designing Training Programmes; Role Specific and Competency Based Training; Evaluating Training Effectiveness; Management Development; Career Development.

Performance appraisal: Nature and objectives; Techniques of performance appraisal; potential appraisal and employee counseling; Internal mobility – promotions, demotion, transfers and separation. Compensation: concept and policies; job evaluation.

Unit IV

Maintenance: Employee health and safety; employee welfare; social security; Industrial relations- an overview. Grievance handling and redressal Industrial Disputes causes and settlement machinery.

Strategic HRM: HRD audit, managing globalization; technology and HRM.

Text Books:

1. G. Dessler, A Framework for Human Resource Management, Pearson, 2013.
2. D. A. Decenzo, S. P. Robbins, S. L. Verhulst, Human Resource Management, Wiley India Private Limited, 2015.

BA 215: Training and Development

5-1-0

Course Objective

This course aims to educate students the importance of training needs and the issue of human resource development in organization. The persons involved in updating management skills pose issues of design and delivery and review of training requirements, which also fulfills the objective of the given course.

Unit I

The Training Context: Nature and Scope of Training, Objectives of Training, Training Challenges, Forces Influencing Working and Learning, Role of Training in Organizations, Systematic Approach to Training. Strategic Training: Models of Training- Faculty, Customer, Matrix, Corporate University and Business Embedded Model, Snapshots of Training Practices: Training Facts and Figures, Training Investment Leaders etc.

Unit II

Training Needs Analysis: The Process and Approaches of TNA, Organizational Analysis, Requirements Analysis, Task, Knowledge, Skill, and Ability Analysis, Person Analysis, Team Work for Conducting Training Needs Analysis, TNA and Training Process Design, Output Of TNA, Focus on Small Business.

Unit III

Training Design, Delivery & Evaluation: Introduction: Training Design, Considerations in Designing Effective Training Programs: Selecting and Preparing the Training Site, Selecting Trainers, Program Design: Learning Environment, Pre-training Communication, Facilitation of Training with Focus on Trainee (Motivation of Trainee, Reinforcement, Goal setting). Transfer of Training: Conditions of Transfer, Facilitation of Transfer with Focus on Organization Intervention (Supervisor Support,

Peer Support, Trainer Support, Reward Systems, Climate etc.)

Training Methods, Implementation and Evaluation of Training Programme, Training Aids.

Unit IV

Employee Development, Career Management and Future of T & D: Approaches to Employee Development, The Development Planning Process, Companies Strategies to Provide Development, Types of MDP's, EDP's/ Seminars and Conferences, Symposia. Career Management: Traditional Career vs. Protean Career, Models of Career Development, Problems in Career Development.

Text Books

1. I.L.Goldstein, & J. K. Ford, Training in Organizations, Cengage Learning, 2009.
2. P.N. Blanchard & W. J. Thacker, Effective Training: Systems, Strategies and Practices, Pearson, 2008.
3. A. Raymond Noe, Employees Training and Development, McGraw Hill Publication, 2008.
4. O'Connor, Browner & Delaney. Training for Organizations, Cengage Learning, 2003.

BA 216: Compensation Management

5-1-0

Course Objective

The objective of this course is to enable the students to design and administer a compensation system that rewards employees fairly while stimulating them to provide goods and services that satisfy customer demands and permitting the organization to operate profitably.

Unit I

Compensation Management: Concept, principles and practices; Compensation & Organizational strategy; Monetary & Non-

Monetary Rewards, Intrinsic Rewards Cafeteria Style Compensation; Foundations of Compensation: Job evaluation – Job grading and Job design; Theories of Compensation; Compensation in a knowledge based world.

Unit II

Compensation Strategy and Policy: Developing Strategic Compensation alternatives; Issues in compensation management; Executive Compensation; Components of Compensation: D.A. Incentives Plans; Profit Sharing Schemes; Fringe, benefits & retirement benefits; Tax Efficient Compensation Package, VRS; Internal and External Equity in Reward Management.

Unit III

Payroll Accounting: Tax planning; Tax Implications of Employee Compensation Package to the Employer; Team compensation; Role of pay commissions; International compensation management; components & approaches.

Unit IV

Compensation Laws: Payment of Minimum Wages Act. and Workmen's Compensation Act.

Text Books:

1. M. Armstrong, Reward Management Practice, Improving Performance Through Reward, Kogan Page, 2012.
2. G.T. Milkovich, N. Jerry and G. Barry, Compensation, McGraw-Hill Higher Education, 2013.

Ability Enhancement Electives

AE 001: Sports-I

0-0-2

Course Objective

The objective of the course is to evolve a higher education system that is suitably blended with provision for knowledge values and skill practice where every student learns without sacrificing his/her creativity.

Unit I

Introduction to Physical Education in the Contemporary Context: Learn and demonstrate the technique of Suryanamaskar. Develop Physical Fitness through Calisthenics / Aerobics / Circuit-Training /Weight-Training and demonstrate the chosen activity. Select any one game available in the college and learn different techniques involved in its play.

Unit II

Core Physical Education-: Fitness Wellness and Nutrition: Measurement of Fitness Components – Leg-raise for Minimal Strength (Muscular Strength); Sit-ups Muscular Endurance); Harvard Step Test, Run and Walk Test (Cardiovascular Endurance); Sit and Reach Test (Flexibility) Measuring height, weight, waist circumference and hip circumference, Calculation of BMI (Body Mass Index) and Waist-Hip Ratio Engage in at least one wellness programme and write a report on it.

Unit III

Core Physical Education-: Posture, Athletic Care and First Aid: Demonstrate Stretching and Strengthening Exercises for Kyphosis, Scoliosis, Lordosis, Knock Knees, Bow Legs, Flat Foot, Back Pain and Neck Pain Illustration and Demonstration of Active and Passive Exercises. Asanas with Therapeutic Value (Any five asanas): Karnapeedasana, Padmasana, Dhanurasana, Sarvangasana, Paschimottanasana, Chakrasana, Halasana, Matsyasana, Ardhamatsyendrasana, Usthrasana, Mayurasana, Shirshasana, Vajrasana. Athletic Care and First Aid, Practice P.R.I.C.E. in First Aid.

Unit IV

Sports Administration & Management : Demonstration of Supervision activities in Sports Management. Demonstration of skills of Management. Demonstration of fixtures of various kinds in sports competitions. Demonstration of technical and non-technical purchase procedure.

Text Books:

1. G. Graham, Teaching Children Physical Education: Becoming a Master Teacher. Human Kinetics, Champaign, Illinois, USA, 2001.
2. C. B. Corbin , G. J. Welk, W. R Corbin, K. A. Welk, Concepts of Physical Fitness: Active Lifestyle for Wellness, McGraw Hill, New York, USA, 2006.
3. D. J. Anspaugh, G. Ezell and K.N. Goodman, Teaching Today Health, Mosby Publishers.
4. A. Beotra, “Drug Education Handbook on Drug Abuse in Sports,” Applied Nutrition Sciences, Mumbai, 2001.
5. R. Ammon, R.M. Southall and D.A. Blair, Sports Facility Management, West Virginia, USA: Fitness Information Technology Publishers, 2003.

AE 002: Sports-II

0-0-2

Course Objective

To objective of the course is to allow the students to learn the practical techniques and related concepts in physical education.

Unit I

Sports for all : To participate in any intramural Tournaments (one team game and one Individual Game) of choice. To participate/ attend at least 15 hours in Fitness training at Field or at Gymnasium. Participate in at least one track and one field event on Annual Sports day. To participate in Inter College Tournament

Unit II

Media and careers in physical education: Organize an event/intramural/tournament in your college. Prepare a News Report of an observed Sports competition. Create a presentation on any topic from Physical Education using an audio-visual aid. Demonstrate Warming-up / Conditioning / Cooling-down exercises.

Unit III

Management of aerobics & group training :

Measurement of Fitness Components – Leg-raise for Minimal Strength (Muscular Strength); Sit-ups (Muscular Endurance); Harvard Step Test or Run and Walk Test (Cardiovascular Endurance); Sit and Reach Test (Flexibility)

Measurement of Pulse Rate / Heart Rate at Radial Artery and Carotid Artery, Calculation of Target Heart Rate. Developing a 5-10 minute routine of aerobics with appropriate music for each component of health related physical fitness

Unit IV

Sports industry: Identify an issue or a trend in the sports industry: Players in professional or college sports, Ownership, Marketing Plan: Environmental Factors and Product Plan Draft, Paper bibliography/works cited. Sponsorship proposal Developing a budget plan for an event Athlete branding

Text books:

1. S. Covey, 7 Habits of Highly Effective People, Covey Publications, USA, 2004.
2. R.A. Magill, Motor Learning and Control: Concepts and Applications, McGraw Hill Publication, 2013.
3. L.P. Masteralexis, C. Barr and M. Humms, Principles and Practices of Sport Management, Jones and Bartlett Publisher
4. J.G. Bishop, Fitness through Aerobics, Benjamin Cummings USA, 2013.
5. K.M., Brown, Physical Activity and Health: An Interactive Approach, Jones and Bartlett Publisher, 2013.
6. T.B. Cornwell, "Sponsorship in marketing: Effective communications through sports, arts and events, " Routledge Publishers, 2013.
7. L. DeGarris, "Sports Marketing: A Practical Approach," Routledge Publishers, USA, 2015.

AE 003: NSS

0-0-2

Course Objective

The course will allow the students to learn concepts of society and structure of NSS.

Unit I

Introduction to NSS: Orientation and structure of NSS, History of Social Reforms in Modern India: Brahmo Samaj, Arya Samaj, Satya Shodhak Samaj: Principles and Functions.

Unit II

Regular activities: Distribution of working hours- association between issues and programs- community project- urban rural activities, association- modes of activity evaluation.

Unit III

Concept of society- development of Indian society: Features- Division of labor and cast system in India; Features of Indian constitution; Provisions related to social integrity and development.

Unit IV

N.S.S. Regular Activities: College campus activities, N.S.S. activities in Urban and Rural areas

Role of Non-Government Organisation (NGO) in social Reforms, Red Cross, Rotary

Text Books:

1. National Service Scheme Manual, Govt. of India, 2006.
2. R. Ahuja, Social Problems in India, Rawat Publication, 1992.

AE 004: NCC

0-0-2

Course Objective

The objective of the course is to train the students about the basic techniques and concepts in NCC.

Unit I

Introduction to NCC: National Integration & Awareness: Religions, Culture, Traditions and Customs of India, National Integration: Importance and Necessity, Freedom Struggle.

Unit II

Adventure Training: Obstacle course, Slithering, Trekking, Cycling, Rock Climbing, Para Sailing, gliding, Scuba Diving- methods and use.

Unit III

Environment Awareness and Conservation: Natural Resources: Conservation and Management. Water Conservation and Rainwater Harvesting

Unit IV

Personality Development and Leadership: Introduction to Personality Development, Factors Influencing /Shaping Personality: Physical, Social, Physiological, Philosophical and Psychological, Self Awareness Know yourself/ Insight, Change Your Mind Set, Communication Skills: Group Discussion / Lectures (Public Speaking), Leadership Traits, Types of Leadership

Text Books:

1. A. Bhogle & H. Bhogle, The Winning way, Learning from sports for managers, Westland Publications, 2011.
2. R. Sharma, The leader had no title, Simon and Schuster Ltd, Free Press, 2010.

AE 005: Corporate Social Responsibility

2-0-0

Course Objective

The objective of the course is to teach the students about business ethics, social responsibility and safety.

Unit I

Corporate social responsibility in Indian context and International: CSR–Definition, concepts, Approaches of CSR, overview of corporate social responsibility and corporate social accountability, SR Tools, National and International CSR activities, corporate philanthropy, drivers of CSR, difference between corporate governance, corporate philanthropy and CSR

Unit II

Business ethics: Concept of business ethics – meaning, Importance and factors influencing business ethics.

Unit III

Corporate social responsibility: Corporate Governance – meaning, significance, principles and dimensions. Ethical decision – making in different culture, consumer protection, environment protection, gender issues in multiculturalism, ethics and corruption, ethics and safety.

Unit IV

Benefits of CSR : Business benefits of CSR, Legislative measures of CSR: Corporate, labor, stake holders, environmental and pollution. Social Accounting, Social Auditing, SA: 8000 and Corporate Social Reporting.

Text Books:

1. H. Srivastava, The business of social responsibility, books for change, 2001.
2. CV. Baxi and A. Prasad, Corporate social responsibility – concepts and cases, Excel Books, 2005.

3. M. Mahmoudi, Global strategic management, Deep & Deep Publications Pvt. Ltd., 2005.
4. S K. Bhatia, International Human resource management – Global perspective,” Deep & Deep Publications Pvt. Ltd., 2007.

AE 006: Environment Development and Society

2-0-0

Course Objective

The main aim of the course is to cover the basic issues of environment and related problems.

Unit I

Basic Issues and Approaches: Importance of the study of ecology and society. The relation between Environment and Development, Approaches: Realism, Appropriate Technology, Ecofeminism

Conceptual clarifications: social ecology; sustainable development; sustainability.

Unit II

People: Unequal Access and Shrinking Commons

Unit III

Natural Resources: Water: depleting water resources & pollution; unequal distribution of water – (utilization of water for commercial crops, industrial use, power generation), the big dams debate. Forest: Colonial policy, diverting resources for mining and other commercial and industrial use, monoculture and loss of biodiversity, rights of forest dwelling communities. Land: modern technology, green revolution, biotechnology and impact on land, shrinking commons and its effects on rural poor.

Unit IV

Environmental issues and Problems: Environmental Pollution: Air, Water, Noise, Land and Radioactive Pollution, Problems of urban environment (pollution, health, industrial

accidents (e.g. Bhopal), occupational hazards) Climate change/Global warming. Role of Environmental Movements and the State -Environmental Movements in India – Chipko, Narmada Bachao Andolan, Chilka Lake Orissa.

Text Books:

1. R.C. Chandna, Environmental Awareness, Kalyani Publishers, 2006.
2. S.K. Agarwal, Environmental Issues and Themes, APH Publishing corporation, 1997.
3. B. John, Environment and social theory, Routledge, 1999.
4. M. Gadgil and R. Guha, Ecology and Equity: The use and Abuse of Nature in contemporary India, OUP, 1995.
5. G. Prakash, “Nature conservation and sustainable development in India,” Rawat publications, 2001.

AE 007: Financial Literacy 2-0-0

Course Objective

The main aim of the course is to teach students about basic terminology in banking. It will make the students understand the concepts of foreign exchange, financial planning and frauds.

Unit I

Banking: Definition, Role of Bank in growth of saving and Investment, Types of banks, Services offered by banks, Deposits and Loans, Types of A/c, Opening a bank A/c, How to Transact with banks, KYC norms, (A/c opening form, Address Proof), How to read bank statement, Banking products and services, Calculating Interests – Saving, FD, Simple and Compound Interest, Power of compounding Loans, Types of loans, taking a home loan, Definition of EMI, Calculation of EMI, Post office-Account and transactions.

Unit II

Foreign Exchange and Investment: Basic of foreign Exchange, Importance and Use of

Foreign Exchange, Regulator Role of RBI, mutual funds. Principles of Investment–Safety, Liquidity and Return, Investment plans, Hybrid plans-Ulip, SIP and VIP of mutual funds, index funds.

Unit III

Financial Planning: Meaning, Household financial health checkup, Important life stages, Medical and other Emergencies, ; Insurance, Meaning, Need and Wants, Loss protection, Life, non-life and health, Benefits of Insurance, Term plans, Social obligations Budgeting, Buying a house, Plan a vacation, Retirement planning, Price of procrastination, Market and financial instruments, Primary market, Secondary market, Financial Statement analysis.

Unit IV

Scams, Fraud Schemes: Insider trading, Money laundering; Consumer protection and redressal mechanism, Rights of Consumers, Applicable to financial services, Filing a complaint, Complain to entity concerned, Regulators, Arbitration, Consumer courts, Govt. Websites-(PG Portals), Investor Associations, Taxes - Meaning, Need of Taxes, Types of taxes, How taxes impact income, Income, wealth and gift tax, Service tax, STT, Stamp Duty, Tax planning v/s tax evasion, Tax rates, Tax free bonds, Tax saving investment.

Text Books:

1. S. Braunstein and C. Welch, Financial literacy: An overview of practice, research, and policy, Fed. Res. Bull, 2002.
2. A. S. Cole and Gauri Kartini Shastri, Smart money: The effect of education, cognitive ability, and financial literacy on financial market participation, Harvard Business School, 2009.
3. Gitman, Joehnk and Billingsley, Personal financial planning, Cengage Learning, 2016.
4. M. Jeff, Personal finance student edition, Prentice Hall, 2010.

AE 008: Introduction to Indian Society 2-0-0

Course Objective

The concepts related to Indian society are explained.

Unit I

Conceptualizing Indian Society: Hindu society and Diverse society (Regional, Linguistic, Religious diversities).

Unit II

People of India: Groups and Communities ; Unity in diversity; Ethnicity and ethnic identities.

Unit III

Theoretical perspectives I: Indological/ Textual (G.S. Ghurye, L. Dumont Structural – Functional M.N. Srinivas, S.C. Dube). Marxian (D.P. Mukherjee, A.R. Desai)

Unit IV

Theoretical perspectives II: Civilizational view (N.K. Bose, Surajit Sinha). Subaltern perspective (B.R. Ambedkar, David Hardiman).

Text Books:

1. R. W. Stern, Changing India, Cambridge University Press, 2003.
2. D.N. Dhanagare, Themes and perspectives in Indian sociology, Rawat Publication, 1998.
3. S.C. Dube The Indian Villages, R and K Publication, 1967.
4. Dumont, Louis, The Caste System and its implications, Vikas publications, 1970.
5. D. Hardiman, The coming of the Devi :Adivasi Assertion in western India, Oxford University Press, 1987.

AE 009: Soft Skills and Personality Development	2-0-0
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Course Objective

The aim of the course is to teach the students concepts of spoken and written communication.

Unit I

Conceptual Understanding of Communication; Cognition and Re-Cognition; Types of communication: Oral, Verbal, Non-verbal, Kinesics, Interpersonal, Group and Mass Communication, Communion, Barriers to communication; Values and Belief system.

Unit II

Spoken Communication; Art of debating, Elocution, Stage Anchoring, Group Discussion; Interviews; Quiz; Use of Jargon, Slangs and Vocabulary for effective Communication; Voice Modulation and Intonation; Clarity; Brevity; Articulation of thought and speech; Assertiveness; Affirmation.

Unit III

Written Communication, KISS rule; Resume writing; Letter writing; Taking notes; Recording minutes and preparing proceedings of meetings; Role of empathy and compassion.

Unit IV

Self-assessment; Self awareness; Self-esteem, Self-confidence; Perception and observation skills; Benefits of Meditation and Self-Hypnosis, Goal setting and career planning. Practical: Debate, Declamation; Presentation exercises and written communication exercises.

Text Books:

1. A. Barker, Improve Your Communication Skills, Kogan Page India Pvt Ltd., 2011.
2. A. Doff and C. Jones, Language in Use (Upper-Intermediate), Cambridge University, 1997.

3. J. Seely, The Oxford Guide to Writing and Speaking, Oxford University Press, 2005.
4. S. Khera, You Can Win, Macmillan Books, 2000.
5. S. Covey, 7 Habits of Highly Effective People, Simon and Schuster, 1990.
6. J. Collin, Perfect Presentation, Video Arts Marshal, 1999.
7. J. Rogers, Effective Interviews, Video arts Marshal, 1998.
8. R. Heller, "Effective Leadership: Essential Manager Series," DK Publishing, 2002.

AE 010: Theatre	0-0-2
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Course Objective

The objective of this course is to familiarize students about the concepts of theatre acting.

Unit I

Concept of Acting in Indian Classical theatre.

Unit II

Western styles of theatre acting.

Unit III

Basics of the following: Acting in Grotowski's Poor Theatre, Modern concept of Actor training with reference to Meyerhold, Bertold Brecht and Constantin Stanislavesky; Artaudian acting, Theatre of Cruelty; Theatre of Absurd.

Unit IV

Acting for Camera—Knowledge of camera frames and movement within the confines of a frame, blocking, difference between theatre and Camera acting, Concentration, Acting consistently for different takes, acting scenes out of order, Auditions, acting exercises, Art of Dubbing.

Text Books:

1. R. Boleslavsky, Richard, Acting: the First Six Lessons, New York Theatre Arts, 1994.

2. U. Hagen, Respect for Acting, Macmillan Press, 1973.
3. A. Hodge, Twentieth Century Actor Training, London and New York, 2000.
4. Stanislavski, Konstantin, An Actor's Work: A Student's Diary, Routledge, 2008.
5. J. Comey, The Art of Film Acting, Focal Press, 2002.
6. P. B. Zarrilli, Acting (Re) Considered, Routledge, 2003.
7. C. Hassey, Acting for Film, Allworth Press, 2003.

AE 011: Dance

0-0-2

Course Objective

The aim of the course is to teach the students about basic workouts, exercises, expressions and contemporary dance.

Unit I

Basic workout, Introduction to Hip Hop and B-Boying with a simple choreography

Unit II

Exercise like: Rolling, jumping, moving shoulders. Footwork, Floor steps, Beat knowledge.

Unit III

Freestyle combination along with House dance style. Expressions class: Body expressions, Face expressions.

Unit IV

Introduction of Contemporary Dance. Basic exercise of Contemporary Dance. Exercise for flexibility, Floor steps, Spinning and Balancing. Introduction to Jazz. Basic exercise and proper routine practice.

Text Books:

1. Jonathan Burrows, A Choreographer's Handbook, Routledge, 2010.

2. Jacqueline M. Smith-Autard, Dance Composition: A Practical Guide to Creative Success in Dance Making, Routledge, 2004.

AE 012: Yoga

0-0-2

Course Objective

The objective of the course is to familiarize students with meaning and importance of yoga and teach them various asanas.

Unit I

Origin of Yoga & its brief development, Meaning of Yoga & its importance, Yoga as a Science of Art (Yoga Philosophy), Meaning of meditation and its types and principles.

Unit II

Classification of Yoga/Types of Yoga, Hatha Yoga, Raja Yoga, Laya Yoga, Bhakti Yoga, Gyan Yoga, Karma Yoga, Asthang Yoga.

Unit III

Principles of Yogic Practices, Meaning of Asana, its types and principles, Meaning of Pranayama, its types and principles, Meaning of Kriya its types and principles.

Unit IV

Yogic therapies and modern concept of Yoga, Naturopathy, Hydrotherapy, Electrotherapy, Meso-therapy, Acupressure, acupuncture. Meaning and importance of prayer, Psychology of mantras, Different mudras during prayers.

Text Books:

1. W. Broad, The Science of Yoga: The Risks and the Rewards, Simon and Schuster, 2012.
2. S. V. Devananda, The Complete Illustrated Book of Yoga, Harmony, 1995.

AE 013: Digital Film Making 0-0-2

Course Objective

The objective of this course is to familiarize the students with the history of cinema and digital video cinematography and editing.

Unit I

History of Cinema, Research & Script: Early Cinema, Development of Classical Indian & Hollywood Cinema, History of Global Film including European Film (1930-present), Origin of Classical narrative cinema-Soundless film, Exploration of film and analysis of the three-part beginning, middle and end of story (Finding and Collecting materials and facts related to your story. Where and How to find the materials related to your story. Things to consider before sketching down your story), Script (Scriptwriting Process and its various phases), Film Grammar for Scriptwriting.

Unit II

Digital Video Cinematography: Introduction to Digital Video Cinematography: Cinematography, Interactivity and emotions through Cinematography, Building blocks, Compositions.

Unit III

Lenses and Cameras : Types of lenses: Zoom Lens, Prime Lens, Types of Cameras: HD Cameras, Basics of Film Camera, Difference between, Film Camera and Digital Camera, DSLR and HDSLR Cameras, Lighting, Psychology of light, Visual Environment, Directional Effect of Light, Lighting design process, Three-point lighting, High-Key lighting, Low Key lighting, Construction of a Shot, Color, Contrast, Deep Focus, Shallow Focus, Depth of Field, Exposure, Racking focus, Frame Rate, Telephoto shot, Zoom shot.

Unit IV

Digital Video Editing: Effective Editing, Principles of Video Editing, Non-Linear Editing

(NLE) Concept, The Three-Point Edit, Non-Linear Editing (NLE) Techniques, Working in the Timeline, Transitions, Key framing, Applying Filters, Ingesting. Advanced Editing Techniques -NLE Compositing, Color Correction & Color Grading, Working on Audio, Titling

Text Books:

1. Mark Brindle and Chris Jones, The Digital Filmmaking Handbook, Quercus, 2014.

AE 014: Music

0-0-2

Course Objective

The objective of this course is to familiarize the students with the basics of raga and vedic music.

Unit I

Study of the following terms: Mela (Thāt), ĀshrayRāga, Rāga, Lakshana, Shruti, Alankar, Gamak, Vadi - Samvādi Anuvādi - Vivādi, Vakraswara, Varjit-Swara.

Unit II

Biographies & contributions of the following: Jaidev, MansinghTomar, AbdulKarim Khan, Tyagaraja, Pt. Bhattachande, Pt. Ravi Shankar

Unit III

Study of following: Rāgas & TālaRāga-Yaman, Jaunpuri, Khamaj. Tāla- Ektāl, Jhaptāl, Khyāl, MaseetKhani – Razakhani gat, Dhrupad, Tarana, Meend, Soot, Murki, Kan, Khatka, Krintan, Harmony, Melody. Writing of BhattachandeSwarlipiPaddhati. Writing of Tālasand Compositions in Notation. Detailed study of Rāgas (Rāga- Bihag, Malkauns, VrindavaniSarang) and comparative study of Rāgas. Essay, ShastriyaSangeet (Classical Music) & SugamSangeet (Light Music)

Unit IV

Vedic Music – SamvedicSangeet, Swara, Vadya, Bhakti, Vikār. General study of Natyashastra, SangeetRatnakar.

Text Books:

2. V.K.Garg and L.K.Garg, "Sangeet Visharad," Sangeet Karyalay, 2013.
3. T. J. Singh, "Indian Music," Sangeet research academy, 1995.
4. V. N. Bhatkhande, "Mallika Part II & III," Kramik Pustak.

AE 015: Sociology of development**2-0-0****Course Objective**

The objective of this course is to familiarize the students with the concepts of growth, Modernization, Gender and disparities.

Unit I

Concepts Progress, Growth, Modernization and Development Theory Adam Smith, Karl Marx, Talcott Parsons. Development of Underdevelopment, Dependency and World Capitalist System-A.G.Frank, Paul Baran, Samir Amin, Immanuel Wallerstein, Critique and Alternative to Development

Unit II

Gender and Development, Culture and Development, Environment and Development, Human Development Index, Gender Development Index Gandhi and Schumacher on Alternative development model Appropriate Technology, Sustainable Development

Unit III

Understanding India's Development Debate on the Development Model in India: Nehru, Gandhi, Ambedkar, New Economic Policy

Unit IV

Disparities in Development: Class, Caste, Gender, Tribe, Region and Religion, Social Exclusion in the era of Globalization, **Social Exclusion:** Minorities and the other Marginalized Development of the Marginalized: Perspectives and Challenges

Text books:

1. D. K. Singha Roy, "Social Development and the Empowerment of Marginalized Groups," Sage Publications, 2001.
2. A.R. Desai, "Essays on Modernisation of Underdeveloped Societies Vol I and II," Thacker and Company Ltd.
3. D. Jean and A. Sen, "India Development and Participation," Oxford University Press, 2002.
4. P.W. Preston, "Development Theory An Introduction," Blackwell Publishers, Oxford, 1996.

AE 016: Universal Human Values 1: Self and Family**2-0-0****Course Objective**

The objective of this course is to teach the students concepts of human value, time management and prosperity.

Unit I

Motivation and Objectives of Human Values Course.

Introduction to the objectives of the course. Content and process of the course including mode of conduct. Daily life as lab for the course. Activities in the course.

Unit II

Purpose of Education How human being has a need for Knowledge, what should be the content of knowledge, how the content should be discussed in education. Complimentarily of skills and values, how the current education system falls short.

Unit III

Time Management: How does one deal with myriads of activities in college? Focus of the mind. Concept of Preconditioning. How preconditioning affects our thinking, behavior,

work, relationships, society and nature. How do we develop pre-conditioning? What are the various sources of preconditioning? How do we evaluate our Preconditioning? How do we come out of it?

Unit IV

Concept of prosperity-Material goods and knowledge of one's physical needs is essential for feeling of prosperity. What role others have played in making material goods available to me: Identifying from one's own life. Idea of Society. What is a society? What constitutes a society? What systems are needed for a society to work? What is the purpose of society and various systems which are working in it? How understanding of Human Nature is important in order to understand the purpose of Society and various social systems? And what happens when this understanding is lacking?

Idea of decentralization of politics, economics, education, justice etc. Its comparison with centralized systems. The idea of Swaraj. Various social initiatives by NGOs, social organizations and other people. (If time permits)

Balance in nature Balance which already exists in nature. How human beings are disturbing the balance. Resource depletion and pollution. Our own role in wastage of electricity, water and in use of plastics. Waste management. (Show episode on city waste from SatyamevaJayate 2.) Issues like global warming, animal extinction. Show —Story of Stuffl documentary film. — Homel film can also be used.

Text books:

1. A. Leonard, The Story of Stuff, Free Press, 2011.
2. M. K. Gandhi, The Story of My Experiments with Truth, Beacon Press, 1957.
3. J Krishnamurthy, On Education, Official repository, 1993.
4. Hermann Hesse, Siddhartha, Bantam Books. 1981.

AE 017: Universal Human Values 2: Self Society and Nature 2-0-0

Course Objective

The objective of this course is to teach the students about society and relationships.

Unit I

Understanding society and nature on the basis of self and human relationships. Existence of self and body. Identifying needs and satisfying needs of self and body. Self observations. Handling peer pressure family. Hostel and institute as extended family. Real life examples.

Unit II

Student relationship. Shraddha. Guidance. Goal of education. Material order, plant order, animal order and human order.

Unit III

Water, food, mineral resources, Pollution, Role of technology, Mutual enrichment not just recycling.

Unit IV

Recapitulation on society. Five major dimensions of human society. Fulfilment of the individual as major goal. Justice in society. Equality in human relationships as naturally acceptable. Establishment of society with abhaya (absence of fear), being through holistic education in just order.

Text Books:

1. R. R. Gaur, R. Sangal, G. P. Bagaria, Human Values and Professional Ethics Excel Books, New Delhi, 2010.
2. A. Nagaraj, JeevanVidya: Ek Parichaya, Jeevan Vidya Prakashan, 1999.
3. A.N. Tripathi, Human Values, New Age Intl. Publishers, New Delhi, 2003.

SEMESTER V

BA 301: Indian Economy – I

5-1-0

Course Objective

The objective of the course is to review major trends in economic indicators and policy debates in India in the post-Independence period, with particular emphasis on paradigm shifts and turning points.

Unit I

Economic Development since Independence:

Major features of the economy at independence; growth and development under different policy regimes—goals, constraints, institutions and policy framework;

Unit II

An assessment of performance: Sustainability and regional contrasts; structural change, savings and investment.

Unit III

Regional Imbalances: Income; Education and health. Poverty and malnutrition.

Unit IV

Poverty, Inequality and unemployment: Basis poverty and inequality; Types of unemployment; Trends, measures and issues.

Text Books:

1. J. Dreze and A. Sen. An Uncertain Glory: India and its Contradictions, Princeton University Press, 2013.
2. P. Balakrishnan, The Recovery of India: Economic Growth in the Nehru Era, Economic and Political Weekly, 2007.
3. R. Mohan, Growth Record of Indian Economy: 1950-2008. A Story of Sustained Savings and Investment, Economic and Political Weekly, 2008.

4. S.L. Shetty, India's Savings Performance since the Advent of Planning, in K.L. Krishna and A. Vaidyanathan, editors, Institutions and Markets in India's Development, 2007.

5. R.M. Himanshu, Towards New Poverty Lines for India, Economic and Political Weekly, 2010.

6. J. Dreze and A. Deaton, Food and Nutrition in India: Facts and Interpretations, Economic and Political Weekly, 2009.

7. R.M. Himanshu, Employment Trends in India: A Re-examination, Economic and Political Weekly, 2011.

8. R. Baru, 2010, —Inequities in Access to Health Services in India: Caste, Class and Region, Economic and Political Weekly, 2010.

9. G. G. Kingdon, The Progress of School Education in India, Oxford Review of Economic Policy, 2007.

BA 302: Development Economics – I

5-1-0

Course Objective

The objective of the first part of this course is to discuss alternative conceptions of development and their justification. The student will be able to learn to aggregate models of growth and cross-national comparisons of the growth experience that can help evaluate these models. The axiomatic basis for inequality measurement is used to develop measures of inequality and connections between growth and inequality are explored. The student will be able to link political institutions to growth and inequality by discussing the role of the state in economic development and the informational and incentive problems that affect state governance.

Unit I

Conceptions of Development: Alternative measures of development, documenting the international variation in these measures, comparing development trajectories across nations and within them.

Unit II

Growth Models and Empirics: The Harrod-Domar model, the Solow model and its variants, endogenous growth models and evidence on the determinants of growth.

Unit III

Poverty and Inequality: Definitions, Measures and Mechanisms Inequality axioms; a comparison of commonly used inequality measures; connections between inequality and development, Poverty Measures: Poverty measurement; characteristics of the poor; Poverty Mechanism: mechanisms that generate poverty traps and path dependence of growth processes.

Unit IV

Political Institutions and the Functioning of the State: The determinants of democracy; alternative institutional trajectories and their relationship with economic performance; within-country differences in the functioning of state institutions; state ownership and regulation; government failures and corruption.

Text Books

1. D. Ray, Development Economics, Oxford University Press, 2009.
2. P. Dasgupta, Economics: A Very Short Introduction, Oxford University Press, 2007.
3. A. Banerjee, R. Benabou and D. Mookerjee, Understanding Poverty, Oxford University Press, 2006.
4. K. Basu, The Oxford Companion to Economics in India, OUP, 2007.
5. A. Sen, Development as Freedom, OUP, 2000.

6. D. Acemoglu and J. Robinson, Economic Origins of Dictatorship and Democracy, Cambridge University Press, 2006.
7. R. Putnam, Making Democracy Work: Civic Traditions in Modern Italy, Princeton University Press, 1994.

Group – I Discipline Specific Electives

BA 303: Economics of Health and Education	5-1-0
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Course Objective

The objective of this course is to provide a microeconomic framework to analyze, among other things, individual choice in the demand for health and education, government intervention and aspects of inequity and discrimination in both sectors. It also gives an overview of health and education in India.

Unit I

Role of Health and Education in Human Development: Importance in poverty alleviation; health and education outcomes and their relationship with macroeconomic performance.

Unit II

Microeconomic Foundations of Health Economics: Demand for health; uncertainty and health insurance market; alternative insurance mechanisms; market failure and rationale for public intervention; equity and inequality. Evaluation of Health Programs: Costing, cost effectiveness and cost-benefit analysis; burden of disease. Health Sector in India: An Overview: Health outcomes; health systems; health financing.

Unit III

Education: Investment in Human Capital: Rate of return to education: private and social; quality of education; signaling or human capital;

theories of discrimination; gender and caste discrimination in India.

Unit IV

Education Sector in India: An Overview
Literacy rates, school participation, school quality measures.

Text Books:

1. J. William, Principles of Health Economics for Developing Countries, World Bank Institute Development Studies, 1999.
2. World Development Report, Investing in Health, The World Bank, 1993.
3. R.G. Ehrenberg and R.S. Smith, Modern Labor Economics: Theory and Public Policy, Addison Wesley, 2005.

BA 304: Applied Econometrics

5-1-0

Course Objective

The aim of this course is to provide a foundation in applied econometric analysis and develop skills required for empirical research in economics. The students will learn the topics including specification and selection of regression models, dynamic econometric models, advanced methods in regression analysis and panel data models.

Unit I

Stages in Empirical Econometric Research

Unit II

Regression Diagnostics and Specification:

Misspecification; functional forms; model selection. Advanced Topics in Regression Analysis: Dynamic Econometric Models: distributed lag models; autoregressive models; instrumental variable estimation; simultaneous equation models.

Unit III

Panel Data Models: Methods of estimation; fixed effects model; random effects model.

Unit IV

Introduction to Econometric Software

Package: GRETU; E-VIEWS; STATA (any one).

Text Books:

1. J. M. Wooldridge, Econometrics, Cengage Learning, India Edition, 2009.
2. D. Asteriou and S. Hall, Applied Econometrics: A Modern Approach, Palgrave Macmillan, 2007.
3. D. Gujarati, Econometrics by Example, Palgrave Macmillan, 2011.

BA 305: Economic History of India (1857-1947)

5-1-0

Course Objective

This course teaches the student to analyze key aspects of Indian economic development during the second half of British colonial rule. In doing so, it investigates the place of the Indian economy in the wider colonial context, and the mechanisms that linked economic development in India to the compulsions of colonial rule. This course provides links directly to the course on India's economic development after independence in 1947.

Unit I

Introduction: Colonial India: Background and Introduction:

Overview of colonial economy. Macro Trends: National Income; population; occupational structure, Agriculture Agrarian structure and land relations; agricultural markets and institutions – credit, commerce and technology; trends in performance and productivity; famines.

Unit II

Railways and Industry: Railways; the de-industrialisation debate; evolution of entrepreneurial and industrial structure; nature of industrialisation in the interwar period; constraints to industrial breakthrough; labor relations.

Unit III

Economy and State in the Imperial Context: The imperial priorities and the Indian economy; drain of wealth; international trade,

Unit IV

Capital flows and the colonial economy – changes and continuities; government and fiscal policy.

Text Books:

1. L. Subramanian, History of India 1707-1857, Orient Blackswan, 2010.
2. S. Guha, Mortality decline in early 20th century India, Indian Economic and Social History Review (*IESHR*), pp 371-74 and 385-87, 1991.
3. T. Roy, The Economic History of India 1857-1947, Oxford University Press, 3rd edition, 2011.
4. J. Krishnamurty, Occupational Structure, Dharma Kumar (editor), The Cambridge.
5. Economic History of India, Vol. II, (henceforth referred to as CEHI), 2005, Chapter 6.
6. I. Habib, Indian Economy 1858-1914, A People's History of India, Vol.28, Tulika, 2006.

BA 306: Topics in Microeconomics - I **5-1-0**

Course Objective

Topics in Microeconomics- I introduces the students to elementary game theory under complete information. The aim of this course is to introduce the basic concepts of game theory in a way that allows students to use them in solving simple problems. The course will deal with the solution concepts for normal form and extensive form games along with a variety of economic applications.

Unit I

Normal form games: The normal form; dominant and dominated strategies; dominance solvability; mixed strategies; Nash equilibrium; symmetric single population games; applications.

Unit II

Extensive form games with perfect information: The game tree; strategies; subgame perfection; backward induction in finite games; commitment; bargaining; other applications.

Text Book:

1. M. J. Osborne, An Introduction to Game Theory, Oxford University Press, New Delhi, 2004.

BA 307: Political Economy-I **5-1-0**

Course Objective

This course explores changes in the organisation of production, labour market institutions and corporate structure. It goes on to study the consequences of globalization, especially of financial flows, for the role of the state, economic performance, gender issues, environment, human welfare and development.

Unit I

Introduction and Historical Overview: Perspective on political economy with a historical overview: capitalist development in the pre-second world war period, the 'golden age' and later.

Unit II

Changing Dynamics of Capitalist Production, Organizational Form and Labour Process: Fordist and post-fordist production; changing dynamics of organization of production, markets and labour process; the changing nature of job security and labour rights.

Unit III

The State in the Era of Globalisation: Welfare, Development and Autonomy
Globalisation and the limits of the welfare state, development and state autonomy.

Unit IV. The Changing Role of Finance
The changing role of finance in capital accumulation and corporate structure; finance and globalisation - financialisation, financial liberalisation and financial crisis. The Social Dimension :Globalisation and uneven development – growth, inequality and exclusion, New Perspectives: Gender in work, accumulation and globalisation; issues in environment and sustainability; alternatives ahead.

Text Books:

1. M. Beaud, A History of Capitalism, 1500-2000, trans. by Tom Dickman and Anny Lefebvre, New York: Monthly Review Press, 2001.
2. A. Amin, Post-Fordism: A Reader, Blackwell, 1994.
3. F. Tonkiss, Contemporary Economic Sociology: Globalisation, Production, Inequality, Chapter 4 (Fordism and After), Routledge India 2008 reprint, 2006.
4. S. Hymer, The Multinational Corporation and the Law of Uneven Development, in H. Radice, International Firms and Modern Imperialism, Penguin Books, 1975.
5. G. Gereffi, J. Humphrey and T. Sturgeon, —The Governance of Global Value Chains||, Review of International Political Economy, Volume 12: 78–104, 2005.
6. N. Reddy, Economic Globalisation, Past and Present – The Challenges to Labour in K.S. Jomo. & K. Khay Jin, Globalization and Its Discontents, *Revisited*, Sephis -Tulika Books, 2003.

BA 308: Money and Financial Markets	5-1-0
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Course Objective

This course exposes students to the theory and functioning of the monetary and financial sectors of the economy. It highlights the organization, structure and role of financial markets and institutions. It also discusses interest rates, monetary management and instruments of monetary control. It teaches the financial and banking sector reforms and monetary policy with special reference to India.

Unit I

Money: Concept, functions, measurement; theories of money supply determination. Role of financial markets and institutions: Problem of asymmetric information – adverse selection and moral hazard; financial crises. Money and capital markets: organization, structure and reforms in India; role of financial derivatives and other innovations.

Unit II

Interest Rates: Determination; sources of interest rate differentials; theories of term structure of interest rates; interest rates in India.

Unit III

Banking System: Balance sheet and portfolio management, Indian banking system: Changing role and structure; banking sector reforms.

Unit IV

Central Banking and Monetary Policy: Functions, balance sheet; goals, targets, indicators and instruments of monetary control; monetary management in an open economy; current monetary policy of India.

Text Books:

1. F. S. Mishkin and S. G. Eakins, Financial Markets and Institutions, Pearson Education, 6th edition, 2009.

2. F. J. Fabozzi, F. Modigliani, F. J. Jones, M. G. Ferri, Foundations of Financial Markets and Institutions, Pearson Education, 3rd edition, 2009.
3. M. R. Baye and D. W. Jansen, Money, Banking and Financial Markets, AITBS, 1996.
4. R. Mohan, Growth with Financial Stability- Central Banking in an Emerging Market, Oxford University Press, 2011
5. L. M. Bhole and J. Mahukud, Financial Institutions and Markets, Tata McGraw Hill, 5th edition, 2011.
6. M. Y. Khan, Indian Financial System, Tata McGraw Hill, 7th edition, 2011.
7. N. Jadhav, Monetary Policy, Financial Stability and Central Banking in India, Macmillan, 2006.
8. R.B.I. – Report of the Working Group: Money Supply Analytics and Methodology of Compilation, 1998.
9. R.B.I. Bulletin, Annual Report and Report on Currency and Finance.

BA 309: Public Economics	5-1-0
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Course Objective

The course deals with the nature of government intervention and its implications for allocation, distribution and stabilization. Inherently, this study involves a formal analysis of government taxation and expenditures. The course will allow a student to learn about public goods, market failures and externalities. The course is divided into two sections, one dealing with the theory of public economics and the other with the Indian public finances.

Unit I

Fiscal functions: an overview: Public Goods: definition, models of efficient allocation, pure and impure public goods, free riding.

Unit II

Externalities: The problem and its solutions, taxes versus regulation, property rights, the Coase theorem.

Unit III

Taxation: Its economic effects; dead weight loss and distortion, efficiency and equity considerations, tax incidence, optimal taxation, Tax System: structure and reforms.

Unit IV

Indian Public Finances: Budget, deficits and public debt, Fiscal federalism in India

Text Books:

1. J. Hindriks, G. Myles: Intermediate Public Economics, MIT Press, 2006.
2. H. Rosen, T. Gayer: Public Finance, 9th ed., McGraw-Hill/Irwin, 2009.
3. J. E. Stiglitz, Economics of the Public Sector, W.W. Norton & Company, 3rd edition, 2000.
4. R.A. Musgrave and P.B. Musgrave, Public Finance in Theory & Practice, McGraw Hill Publications, 5th edition, 1989.
5. J. Cullis and P. Jones, Public Finance and Public Choice, Oxford University Press, 1st edition, 1998.

SEMESTER VI

BA 311: Indian Economy – II 5-1-0

Course Objective

This course will enable the student to examine sector-specific policies and their impact in shaping trends in key economic indicators in India. The objective of the course is to highlight major policy debates and evaluate the Indian empirical evidence.

Unit I

Macroeconomic Policies and Their Impact:

Fiscal Policy; trade and investment policy; financial and monetary policies; labour regulation.

Unit II

Policies and Performance in Agriculture:

Growth; productivity; agrarian structure and technology; capital formation; trade; pricing and procurement.

Unit III.

Policies and Performance in Industry:

Growth; productivity; diversification; small scale industries; public sector; competition policy; foreign investment.

Unit IV

Trends and Performance in Services: Real Estate; IT enabled services and Banking and Insurance.

Text Books:

1. S. Acharya, Macroeconomic Performance and Policies 2000-8, In Shankar Acharya and Rakesh Mohan, editors, India's Economy: Performances and Challenges: Development and Participation, Oxford University Press, 2010.
2. R. Mohan, India's Financial Sector and Monetary Policy Reforms, in Shankar

Acharya and Rakesh Mohan, editors, India's Economy: Performances and Challenges: Development and Participation, Oxford University Press, 2010.

3. P. Balakrishnan, R. Golait and P. Kumar, Agricultural Growth in India Since 1991, RBI DEAP Study no. 27, 2008.
4. B.N. Goldar and S.C. Aggarwal, Trade Liberalisation and Price-Cost Margin in Indian Industries, The Developing Economics, 2005.
5. P. Goldberg, A. Khandelwal, N. Pavcnik and P. Topalova, Trade Liberalisation and New Imported Inputs, American Economic Review, Papers and Proceedings, 2009.
6. K. Sen, Trade, Foreign Direct Investment and Industrial Transformation in India, In Premachandra Athukorala, editor, The Rise of Asia, Routledge, 2010.
7. A. Ahsan, C. Pages and T. Roy, Legislation, Enforcement and Adjudication in Indian Labour Markets: Origins, Consequences and the Way Forward, in D. Mazumdar and S. Sarkar, editors, Globalization, Labour Markets and Inequality in India, Routledge, 2008.

BA 312: Development Economics – II 5-1-0

Course Objective

The course teaches the basic demographic concepts and their evolution during the process of development. The structure of markets and contracts is linked to the particular problems of enforcement experienced in poor countries. The governance of communities and organizations is studied and this is then linked to questions of sustainable growth.

Unit I

Demography and Development: Demographic concepts; birth and death rates, age structure, fertility and mortality; demographic transitions during the process of development; gender bias in preferences and outcomes and evidence on unequal treatment within households; connections between income, mortality, fertility choices and human capital accumulation; migration.

Unit II

Land, Labor and Credit Markets: The distribution of land ownership; land reform and its effects on productivity; contractual relationships between tenants and landlords; land acquisition; nutrition and labor productivity, Credit Markets: Informational problems and credit contracts; microfinance; inter-linkages between rural factor markets.

Unit III

Individuals, Communities and Collective Outcomes: Individual behavior in social environments, multiple social equilibria; governance in organizations and in communities; individual responses to organizational inefficiency.

Unit IV. Environment and Sustainable Development

Defining sustainability for renewable resources; a brief history of environmental change; common-pool resources; environmental externalities and state regulation of the environment; economic activity and climate change. Globalization: Globalization in historical perspective; the economics and politics of multilateral agreements; trade, production patterns and world inequality; financial instability in a globalized world.

Text Books

1. D. Ray, Development Economics, Oxford University Press, 2009.

2. P. Dasgupta, Economics, A Very Short Introduction, Oxford University Press, 2007.
3. A. Banerjee, R. Benabou and D. Mookerjee, Understanding Poverty, Oxford University Press, 2006.
4. T. Schelling, Micromotives and Macrobias, W. W. Norton, 1978.
5. A. O. Hirschman, Exit, Voice and Loyalty: Responses to Decline in Firms, Organizations and States, Harvard University Press, 1970.

Group 2

Discipline Specific Electives

BA 313: Political Economy-II 5-1-0

Course Objective

Employing perspectives from alternative schools of thought, the objective of this course is to explore the development of the structure and institutions of capitalist economies and their relationship to social and political forces.

Unit I

Analysing Social Change in Historical Perspective: The method of historical materialism; the transition from feudalism to capitalism; capitalism as a historical process – alternative perspectives.

Unit II

Capitalism as an Evolving Economic System: Basic features; accumulation and crisis; the modern corporation; monopoly capitalism—alternative perspectives.

Unit III

The State in Capitalism: The state and the economy – contestation and mutual interdependence; the state as an arena of conflict; imperialism – the basic foundations.

Text Books:

1. J. Gurley, The Materialist Conception of History, Ch.2.1 in R. Edwards, M. Reich and T. Weisskopf (ed.), The Capitalist System, 2nd edition, 1978.
2. O. Lange, Political Economy, vol. 1, 1963, Chapters 1 and 2.
3. E.K. Hunt, History of Economic Thought, M.E. Sharpe, Shilpi Publications, 2004.
4. Irfan Habib, 1995, Capitalism in History, Social Scientist, Vol. 23: 15-31.
5. R.L. Heilbroner, Capitalism, in The New Palgrave Dictionary of Modern Economics, Macmillan, 1987. Also reprinted as Chapter 2 in Behind the Veil of Economics by R.L. Heilbroner, W.W. Norton, 1988.
6. P. Sweezy, The Theory of Capitalist Development, Monthly Review Press, 1942

BA 314: Comparative Economic Development (1850-1950) 5-1-0

Course Objective

The aim of this course is to investigate selected issues in comparative historical perspective over the 19th century and the first few decades of the 20th century. The course will allow student to focus on a set of countries, which followed clearly diverse trajectories and patterns of growth to achieve their industrial transition and compares the outcomes of these diverse trajectories on sectoral change, inter-sectoral relations, labour processes and industrial relations and also compare the role of the state in facilitating the respective trajectories.

Unit I

Introduction and Perspectives on Comparative Economic Development. An Overview of Economic Development of the countries selected for case studies.

Unit II

Agriculture: Agrarian surplus and the role of the peasantry in economic development.

Unit III

Industry: The industrial revolution in Britain; Industrialisation in late industrialisers.

Unit IV

The Factory System and Making of the Industrial Working Class Division of labour, structure of industrial authority, organisation of work and industrial production, relationship between workers and managers, The Role of the State in Industrial and Developmental Transition

Text Books:

1. E.J. Hobsbawm, World of Labour: Further studies in the history of labour, London Weidenfeld & Nicholson, 1984.
2. E.J. Hobsbawm, Industry and Empire: An Economic History of Britain since 1750, Weidenfeld & Nicholson, 1968.
3. Peter Mathias, The First Industrial Nation, An Economic History of Britain, 1700-1914. 2nd edition Methuen, 1983.
4. T. Nakamura, Economic Growth in Pre-War Japan, Tr. by Robert A Feldman, Yale University Press, 1983.
5. K. Okochi, B. Karsh and S. Levine, Workers and Employees in Japan, The Japanese Employment Relations System, University of Tokyo, 1965.
6. Y. Hayami, A Century of Agricultural Growth in Pre-War Japan: Its Relevance to Asian Development, University of Minnesota Press, 1975.
7. Chalmers Johnson, MITI and the Japanese Miracle: The Growth of Industrial Policy 1925-1975, Stanford University Press, 1982.

BA 315: Financial Economics 5-1-0

Course Objective

This course introduces students to the economics of finance. Some of the basic models used to benchmark valuation of assets and derivatives are studied in detail; these include the CAPM, and the Binomial Option Pricing models. The course will provide students an introduction to corporate finance.

Unit I

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; immunisation; the term structure of interest rates; yield curves; spot rates and forward rates.

Unit II

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.

Unit III

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;

Unit IV

Corporate Finance: Patterns of corporate financing: common stock; debt; preferences; convertibles; Capital structure and the cost of capital; corporate debt and dividend policy; the Modigliani-Miller theorem.

Text Books:

1. D. G. Luenberger, Investment Science, Oxford University Press, USA, 1997.
2. Hull, John C., Options, Futures and Other Derivatives, Pearson Education, 6th edition, 2005.
3. T. E. Copeland, J. Fred Weston and Kuldeep Shastri, Financial Theory and Corporate Policy, Prentice Hall, 4th edition, 2003.
4. R. A. Brealey and Stewart C. Myers, Principles of Corporate Finance, McGraw-Hill, 7th edition, 2002.
5. S. A. Ross, Randolph W. Westerfield and Bradford D. Jordan,
6. Fundamentals of Corporate Finance. McGraw-Hill, 7th edition, 2005.
7. B. G. Malkiel, A Random Walk Down Wall Street, W.W. Norton & Company, 2003.
8. W. Sharpe, Gordon Alexander and Jeffery Bailey, Investments, Prentice Hall of India, 6th edition, 2003.

BA 316: Topics in Microeconomics - II 5-1-0

Course Objective

This course will enable the student to learn the concepts of repeated games and games with incomplete information. Ideas related to asymmetric information among the interacting economic agents would be the main focus of this course. The students learn the concept of Bayesian, perfect Bayesian equilibrium and ends with the application of game theory to analyse moral hazard, adverse selection and signalling problems.

Unit I

Repeated Games: Finitely repeated games and backward induction; infinitely repeated games; history dependent strategies; one-step deviation property; the repeated prisoners' dilemma; idea of folk theorem.

Unit II

Simultaneous move games with incomplete information (Bayesian games).

Strategies; Bayesian Nash equilibrium; auctions; other applications.

Unit III

Extensive form games with imperfect information.

Strategies; beliefs and sequential equilibrium; applications.

Unit IV

Information economics: Adverse selection; moral hazard; signalling games.

Text Books:

1. M. J. Osborne, An Introduction to Game Theory, Oxford University Press, New Delhi, 2004.
2. H. Gravelle and R. Rees, Microeconomics, Pearson Education, 2nd edition, 1992.

BA 317: Environmental Economics 5-1-0
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Course Objective

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. Economic implications of environmental policy are also addressed as well as valuation of environmental quality, quantification of environmental damages, tools for evaluation of environmental projects such as cost-benefit analysis and environmental impact assessments.

Unit I

Introduction: What is environmental economics; review of microeconomics and welfare economics.

Unit II

The Theory of Externalities: Pareto optimality and market failure in the presence of externalities; property rights and the coase theorem.

Unit III

The Design and Implementation of Environmental Policy: Overview; pigouvian taxes and effluent fees; tradable permits; choice between taxes and quotas under uncertainty; implementation of environmental policy. International Environmental Problems: Trans-boundary environmental problems; economics of climate change; trade and environment. Measuring the Benefits of Environmental Improvements: Non-Market values and measurement methods; risk assessment and perception.

Unit IV

Sustainable Development: Concepts; measurement.

Text Books:

1. C. Kolstad, Intermediate Environmental Economics, Oxford University Press, 2nd edition, 2010.
2. R. N. Stavins, Economics of the Environment: Selected Text Books, W.W. Norton, 5th edition, 2005.
3. Roger Perman, Yue Ma, James McGilvray and Michael Common, Natural Resource and Environmental Economics, Pearson Education/Addison Wesley, 3rd edition, 2003.
4. Maureen L. Cropper and Wallace E. Oates, 1992, —Environmental Economics: A Survey, Journal of Economic Literature, Volume 30:675-740.

BA 318: International Economics**5-1-0****Course Objective**

This course will allow the students to develop a systematic exposition of models that try to explain the composition, direction, and consequences of international trade, and the determinants and effects of trade policy. It will teach analytical account of the causes and consequences of the rapid expansion of international financial flows in recent years. Although the course is based on abstract theoretical models, students will also be exposed to real-world examples and case studies.

Unit I

Introduction: What is international economics about? An overview of world trade.

Unit II

Theories of International Trade: The Ricardian, specific factors, and Heckscher-Ohlin models; new trade theories; the international location of production Trade Policy: Instruments of trade policy; political economy of trade policy; controversies in trade policy.

Unit III

International Macroeconomic Policy: Fixed versus flexible exchange rates; international monetary systems

Unit IV

Firms in the global economy: Outsourcing and multinational enterprises. Financial globalization and financial crises.

Text Books:

1. P. Krugman, M. Obstfeld, and M. Melitz, International Economics: Theory and Policy, Addison-Wesley (Pearson Education Indian Edition), 9th edition, 2012.
2. D. Salvatore, International Economics: Trade and Finance, John Wiley International Student Edition, 10th edition, 2011.

BA 319: Dissertation/Project**5-1-0**

A student is required to work on a project dissertation under the supervision of assigned faculty member by the department. The student is required to select a research problem preferably on a topic related with contemporary issues in economics. It is mandatory for the students to get advance written approval of the supervisor before finalization of the topic. Each student shall prepare a detailed research proposal and the copy of the same is required to be submitted to faculty co-ordinator duly signed by the supervisor.



DCE
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DELHI TECHNOLOGICAL UNIVERSITY

(Formerly Delhi College of Engineering)

EAST DELHI CAMPUS

Vivek Vihar, Phase -2, Delhi-110095

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