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**MODIFIED CBCS CURRICULUM OF  
ECONOMICS HONOURS PROGRAMME**

**SUBJECT CODE = 03**

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FOR UNDER GRADUATE COURSES UNDER RANCHI UNIVERSITY



Implemented from  
Academic Session 2017-2020



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COURSE STRUCTURE FOR UNDERGRADUATE '**HONOURS**' PROGRAMME**Table AI-1: Distribution of 140 Credits** [\*wherever there is a practical there will be no tutorial and vice –versa.]

| Course<br>Theory + Practical   | Papers                            | Credits<br>Theory + Tutorial | Credits      |
|--|-----------------------------------|------------------------------|--------------|
| <b>I. Core Course</b>  | <b>(CC 1 to 14)</b>               |                              |              |
| Theory   | 14 Papers                         | 14X4=56                      | 14X5=70      |
| Practical/Tutorial*  | 14 Papers                         | 14X2=28                      | 14X1=14      |
| <b>II. Elective Course (EC)</b>  |                                   |                              |              |
| A. Discipline Specific Elective  | <b>(DSE1to4)</b>                  |                              |              |
| Theory   | 4 Papers                          | 4X4=16                       | 4X5=20       |
| Practical/ Tutorial*   | 4 Papers                          | 4X2=8                        | 4X1=4        |
| B. Generic Elective/ Interdisciplinary   | <b>(GE1to4)</b>                   |                              |              |
| Theory   | 4 Papers                          | 4X4=16                       | 4X5=20       |
| Practical/ Tutorial*   | 4 papers                          | 4X2=8                        | 4X1=4        |
| <b>III. Ability Enhancement Compulsory Courses (AECC)</b>                      |                                   |                              |              |
| 1. English/ Hindi Communication/ NH+MB/<br>Business Communication for Commerce | 1 Paper                           | 1X2=2                        | 1X2=2        |
| 2. Environmental Science   | 1 Paper                           | 1x2=2                        | 1x2=2        |
| 3. Skill Enhancement Course<br>of the Core Course opted                        | <b>(SEC 1&amp; 2)</b><br>2 Papers | 2X2=4                        | 2X2=4        |
| <b>Total Credit = 140</b>  |                                   |                              | <b>= 140</b> |

**Table AI-1.1: Course structure for B.Sc./ B.A./ B.Com.(Hons. Programme)**

| Semester                   | Honours<br>(Core Courses)<br>14 Papers | Allied<br>(Elective Courses)<br>8 Papers | Ability Enhancement<br>(Compulsory Courses)<br>4 Papers | Total Credits     |
|----------------------------|--|--|---|-------------------|
| Sem-I                      | C-1, C-2<br>(6+6=12 Credits)           | GE-1<br>(06 Credits)                     | Eng Comm./ MIL/ MIL+NH<br>(02 Credits)                  | <b>20 Credits</b> |
| Sem-II                     | C-3, C-4<br>(6+6=12 Credits)           | GE-2<br>(06 Credits)                     | EVS<br>(02 Credits)                                     | <b>20 Credits</b> |
| Sem-III                    | C-5, C-6, C-7<br>(6+6+6=18 Credits)    | GE-3<br>(06 Credits)                     | SEC-1<br>(02 Credits)                                   | <b>26 Credits</b> |
| Sem-IV                     | C-8, C-9, C-10<br>(6+6+6=18 Credits)   | GE-4<br>(06 Credits)                     | SEC-2<br>(02 Credits)                                   | <b>26 Credits</b> |
| Sem-V                      | C-11, C-12<br>(6+6=12 Credits)         | DSE-1, DSE-2<br>(6+6=12 Credits)         |   | <b>24 Credits</b> |
| Sem-VI                     | C-13, C-14<br>(6+6=12 Credits)         | DSE-3, DSE-4<br>(6+6=12 Credits)         |   | <b>24 Credits</b> |
| <b>Total = 140 Credits</b> |  |  |   |                   |

## COURSES OF STUDY FOR UNDERGRADUATE 'B. A. Hons' PROGRAMME

**Table AI-2 Subject Combinations allowed for B. A. Hons. Programme (140 Credits)**

| Honours/Core Subject<br>CC<br>14 Papers | Discipline Specific Elective<br>Subject<br>DSES<br>4 Papers | Skill Enhancement Course<br>SEC<br>2 Papers | Compulsory Course<br>AECC<br>1+1=2 Papers |
|---|---|---|---|
| Economics                               | Economics Specific  | SEC in Economics                            | Language Communication +<br>EVS           |

**Table AI-2.1 Semester wise Examination Structure for Mid Sem & End Sem Examinations:**

| Sem | Core Honours, Allied DSE, Compulsory AECC Courses |   | Examination Structure      |                            |                                     |
|-----|---|---|----------------------------|----------------------------|-------------------------------------|
|     | Code  | Papers  | Mid Semester Theory (F.M.) | End Semester Theory (F.M.) | End Semester Practical/ Viva (F.M.) |
| I   | C1  | Introductory Microeconomics +T  | 25                         | 75                         |                                     |
|     | C2  | Elementary Statistics for Economics   | 25                         | 75                         |                                     |
|     | GE1   | Refer Table AI-2.3 of the Syllabus of Subject opted   |                            |                            |                                     |
|     | AECC  | Language Communication  |                            | 100                        |                                     |
| II  | C3  | Introductory Macroeconomics +T  | 25                         | 75                         |                                     |
|     | C4  | Elementary Mathematical Methods in Economics +T   | 25                         | 75                         |                                     |
|     | GE2   | Refer Table AI-2.3 of the Syllabus of Subject opted   |                            |                            |                                     |
|     | AECC  | EVS   |                            | 100                        |                                     |
| III | C5  | Intermediate Microeconomics-I +T  | 25                         | 75                         |                                     |
|     | C6  | Intermediate Macroeconomics-I +T  | 25                         | 75                         |                                     |
|     | C7  | Public Finance +T   | 25                         | 75                         |                                     |
|     | GE3   | Refer Table AI-2.3 of the Syllabus of Subject opted   |                            |                            |                                     |
|     | SEC 1   | Elementary Computer Application Software +Lab   |                            | 100                        |                                     |
| IV  | C8  | Intermediate Microeconomics-II +T   | 25                         | 75                         |                                     |
|     | C9  | Intermediate Macroeconomics-II +T   | 25                         | 75                         |                                     |
|     | C10   | International Trade +T  | 25                         | 75                         |                                     |
|     | GE4   | Refer Table AI-2.3 of the Syllabus of Subject opted   |                            |                            |                                     |
|     | SEC 2   | Soft Skills +T  |                            | 100                        |                                     |
| V   | C11   | Indian Economy +T   | 25                         | 75                         |                                     |
|     | C12   | Development Economics +T  | 25                         | 75                         |                                     |
|     | DSE 1   | <b>Either Group 'A' or 'B'</b><br>1A Advance Mathematical Economics +T or<br>1B Economics of Agriculture +T | 25                         | 75                         |                                     |
|     | DSE 2   | 2A Economics of Health & Education +T or<br>2B Jharkhand Economy +T   | 25                         | 75                         |                                     |
| VI  | C13   | Environmental Economics +T  | 25                         | 75                         |                                     |
|     | C14   | Money Banking and Financial Markets +T  | 25                         | 75                         |                                     |
|     | DSE 3   | 3A Elementary Econometrics +T or<br>3B Agricultural Problems of India +T                                    | 25                         | 75                         |                                     |
|     | DSE 4   | 4A Theory of Demography +T or<br>4B Economics of Labour +T  | 25                         | 75                         |                                     |

**Table AI-2.2 Generic Subject Papers for B. A. Hons. Programme (140 Credits);  
All Four Papers of Any One Subject to be opted leaving aside the papers of Hons. Subject:**

| Generic Elective Subject<br>GE<br>4 Papers | Generic Elective Courses for Arts Stream<br>(GE will be other than Core Subject opted) |  |  |   |
|--|--|--|--|---|
|  | Semester I<br>GE1  | Semester II<br>GE2                             | Semester III<br>GE3                            | Semester IV<br>GE4                              |
| Hindi                                      | कला और साहित्य +T  | अनुवाद +T                                      | साहित्य और पत्रकारिता +T                       | रचनात्मक लेखन की विधाएँ +T                      |
| English                                    | Academic Writing +T  | Language & Linguistics +T                      | Literature: Poems & Short Stories +T           | Language, Literature & Culture +T               |
| Bengali                                    | History of Bengali Literature +T   | Bengali Poetry, Novel, Short Stories +T        | Bengali Poetry, Drama, Short Stories +T        | Bengali Poetry, Short Stories, Bengali Essay +T |
| Urdu                                       | Study of Poet Nazir Akbarabadi +T  | Study of Short Story Writer Prem Chand +T      | Mass Media: Principles and Practice +T         | Study of Short Story Writer +T                  |
| Sanskrit                                   | संस्कृत व्याकरण एवं व्याकरण शास्त्र का इतिहास +T                                       | भारतीय संस्कृति एवं राजनीति +T                 | आयुर्वेद की परम्परा +T                         | भाषाविज्ञान +T                                  |
| Ho   | कला, साहित्य एवं संस्कृति +T   | पारम्परिक वाद्य यंत्र +T                       | झारखण्डी समुदाय का सांस्कृतिक केन्द्र +T       | हो समुदाय की नृत्य शैलियाँ +T                   |
| Kharia                                     | कला, साहित्य एवं संस्कृति +T   | पारम्परिक वाद्य यंत्र +T                       | झारखण्डी समुदाय का सांस्कृतिक केन्द्र +T       | खड़िया समुदाय की नृत्य शैलियाँ +T               |
| Khortha                                    | कला, साहित्य एवं संस्कृति +T   | पारम्परिक वाद्य यंत्र +T                       | झारखण्डी समुदाय का सांस्कृतिक केन्द्र +T       | खोरठा समुदाय की नृत्य शैलियाँ +T                |
| Kurmali                                    | कला, साहित्य एवं संस्कृति +T   | पारम्परिक वाद्य यंत्र +T                       | झारखण्डी समुदाय का सांस्कृतिक केन्द्र +T       | कुरमाली समुदाय की नृत्य शैलियाँ +T              |
| Kurux                                      | कला, साहित्य एवं संस्कृति +T   | पारम्परिक वाद्य यंत्र +T                       | झारखण्डी समुदाय का सांस्कृतिक केन्द्र +T       | कुंडुख समुदाय की नृत्य शैलियाँ +T               |
| Mundari                                    | कला, साहित्य एवं संस्कृति +T   | पारम्परिक वाद्य यंत्र +T                       | झारखण्डी समुदाय का सांस्कृतिक केन्द्र +T       | मुण्डा समुदाय की नृत्य शैलियाँ +T               |
| Nagpuri                                    | कला, साहित्य एवं संस्कृति +T   | पारम्परिक वाद्य यंत्र +T                       | झारखण्डी समुदाय का सांस्कृतिक केन्द्र +T       | नागपुरी समुदाय की नृत्य शैलियाँ +T              |
| Panch Pargania                             | कला, साहित्य एवं संस्कृति +T   | पारम्परिक वाद्य यंत्र +T                       | झारखण्डी समुदाय का सांस्कृतिक केन्द्र +T       | पंचपरगनिया समुदाय की नृत्य शैलियाँ +T           |
| Santhali                                   | कला, साहित्य एवं संस्कृति +T   | पारम्परिक वाद्य यंत्र +T                       | झारखण्डी समुदाय का सांस्कृतिक केन्द्र +T       | संताल समुदाय की नृत्य शैलियाँ +T                |
| Geography                                  | Geomorphology +Lab   | Human Geography +Lab                           | Climatology +Lab                               | Economic Geography +Lab                         |
| History                                    | Environmental Issues in India +T   | Making of Contemporary India +T                | History of West Asia +T                        | India and her Neighbours +T                     |
| Political Science                          | An Introduction to Political Theory +T   | Indian Govt. and Politics +T                   | Comparative Govt. and Politics +T              | Public Administration +T                        |
| Psychology                                 | Introduction of psychology +Lab  | Social psychology +Lab                         | Psychopathology +Lab                           | Psychological Statistics +Lab                   |
| Sociology                                  | Indian Society and Culture +T  | Social Movement in India +T                    | Sociology of Religion +T                       | Indian Sociological Theories +T                 |
| Anthropology                               | Economic Anthropology +T   | Political Anthropology +T                      | Anthropology of Religion +T                    | Linguistic Anthropology +T                      |
| Philosophy                                 | Indian Philosophy-I +T   | Indian Philosophy-II +T                        | Indian Ethics +T                               | Western Ethics +T                               |
| Home Science                               | Human Nutrition +Lab   | Entrepreneurship for small Catering units +Lab | Current concerns in Public Health Nutrition +T | Care and Wellbeing in Human Development +Lab    |
| Mathematics                                | Object oriented Programming in C++ +T  | Econometrics +T                                | Information Security +T                        | Application of Algebra +T                       |



**Table AI-2.3 Semester wise Structure for End Sem Examinations of Generic Elective in Economics:**

| Sem        | Core Honours, Allied DSE, Compulsory AECC Courses |                                     | Examination Structure      |                            |                                     |
|------------|---|-------------------------------------|----------------------------|----------------------------|-------------------------------------|
|            | Code  | Papers                              | Mid Semester Theory (F.M.) | End Semester Theory (F.M.) | End Semester Practical/ Viva (F.M.) |
| <b>I</b>   | GE1   | Principals of Microeconomics +T     |                            | 100                        |                                     |
| <b>II</b>  | GE2   | Principals of Macroeconomics +T     |                            | 100                        |                                     |
| <b>III</b> | GE3   | Indian Economy +T                   |                            | 100                        |                                     |
| <b>IV</b>  | GE4   | Money Banking and Public Finance +T |                            | 100                        |                                     |

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**SEMESTER I**


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**4 Papers****Total 100 x 4 = 400 Marks****I. ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)**

(Credits: Theory-02)

Any One Compulsory Language Communication Prescribed by Ranchi University:  
 English Communication/ Hindi Communication / NH + MB Communication  
**(Refer AECC Curriculum of Ranchi University)**

**II. GENERIC ELECTIVE (GE 1)**

(Credits: 06)

All Four Papers (One paper to be studied in each semester) of any One Subject to be opted other than the Honours Subject. Refer Content from the Syllabus of Opted Generic Elective Subject.

**III. CORE COURSE –C 1:**

(Credits: Theory-05, Tutorial-01)

**Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for******Mid Semester Examination (MSE):***

*There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.*

***End Semester Examination (ESE):***

*There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**INTRODUCTORY MICROECONOMICS****Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

*This course is designed to expose the students 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.*

**Course outline****1. Exploring the subject matter of Economics**

Why do we study economics? Scope and method of economics: the economic problem: Scarcity and choice; the question of what to produce, how to produce and to distribute output; science of economics; reading and working with graphs.

**2. Supply and Demand: How Markets work, Markets and Welfare**

Markets and competition; determinants of individual demand/supply; demand/supply schedule and demand/supply curve; market versus individual demand/supply; shift in the demand/supply curve, demand and supply together; how do prices allocate resources; elasticity and its application; control on prices; taxes and the costs of taxation; consumer surplus; producer surplus.

**3. The Households**

The consumption decision – budget constraint, consumption and income/price change, demand for all other goods and price changes; description of preference (representing preferences with indifference curves)

**4. The firm and market Structure**

Behavior of Profit maximizing firm (under perfect competition & monopoly) short run costs and output decisions; Costs and Output in the long run; Concept of Revenue in different Markets.

**5. Input market land Labor Market**

Labor markets-basic concepts (derived demand, productivity of an input marginal revenue product); demand for labor; input demand curves; shift in input demand curves; competitive labor markets, land markets, characteristics.

**Basic Readings:**

- Karl E. Case and Ray C. Fair, Principles of Economics, Pearson Education Inc., 8<sup>th</sup> Edition, 2007
  - N. Gregory Mankiw, Economics: Principles and Applications, Indian edition by South western, a part of Cengage learning, Cengage Learning India Private Limited, 4<sup>th</sup> edition, 2007
  - Joseph E. Stiglitz and Carl E. Walsh, Economics, W.W. Norton & Company, Inc., New York, international Student Edition, 4<sup>th</sup> Edition, 2007.
-

**IV. CORE COURSE- C 2:**

(Credits: Theory-05, Tutorial-01)

**Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for  
Mid Semester Examination (MSE):***

*There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.*

***End Semester Examination (ESE):***

*There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**ELEMENTARY STATISTICS FOR ECONOMICS****Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

*This course provides knowledge of elementary statistical methods which are useful for the students in understanding the empirical aspects of economic application.*

**Course outline****1. Introduction to statistics**

Definition and Scope, Data collection, Primary and Secondary data, Census and sampling methods, Graphic, Diagrammatic and Tabular presentation of data.

**2. Central tendency and Dispersion**

Measures of central tendency; Mean, Median, Mode, Geometric mean and Harmonic mean, Measures of dispersion; Range, Mean deviation, Standard deviation, Coefficient of variation, Quartile deviation, Measurement, Moments, Skewness and Kurtosis.

**3. Correlation and Regression**

Correlation – Simple, Coefficient of correlation – Karl Pearson and Rank Correlation, Regression Analysis, Least squares Method, Interpretation of regression Coefficient, Time Series, Concept and estimation of trend line.

**4. Index Numbers**

Index numbers – concept, Price, relative, quantity relative, value relative, Laspeyer's, Paasche's and Fisher's Test for ideal index no.; Problems in the construction and limitations of index number, Construction of Cost of Living Index.

**5. Probability**

Elementary concepts and rules of probability

**Basic Readings:**

- Statics for business and Economics R.P.HOODA Macmillan India Ltd.
- Introduction to the theory of Statics, Alexander M.Mood. Franklin A. Graybill Duane C.Boes.
- Statistical Methods, P.N.Arora, Sumeet Arora, S.Arora. S.Chand & Company Ltd.

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**SEMESTER II**


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**4 Papers****Total 100 x 4 = 400 Marks****I. ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)**

(Credits: Theory-02)

**Marks : 100 (ESE: 3Hrs) =100****Pass Marks Th ESE = 40***Instruction to Question Setter for**End Semester Examination (ESE):**There will be **objective type test** consisting of hundred questions of 1 mark each. Examinees are required to mark their answer on **OMR Sheet** provided by the University.***AECC – ENVIRONMENT STUDIES****Theory: 30 Lectures****Unit 1 : Introduction to environmental studies**

Multidisciplinary nature of environmental studies;

Scope and importance; Concept of sustainability and sustainable development.

**(2 lectures)****Unit 2 : Ecosystems**

What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems :

Forest ecosystem

Grassland ecosystem

Desert ecosystem

Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

**(2 lectures)****Unit 3 : Natural Resources : Renewable and Non--renewable Resources**

Land resources and landuse change; Land degradation, soil erosion and desertification.

Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations.

Water : Use and over--exploitation of surface and ground water, floods, droughts, conflicts over water (international &amp; inter--state).

Energy resources : Renewable and non renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

**(5 lectures)****Unit 4 : Biodiversity and Conservation**

Levels of biological diversity : genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots

India as a mega--biodiversity nation; Endangered and endemic species of India

Threats to biodiversity : Habitat loss, poaching of wildlife, man--wildlife conflicts, biological invasions; Conservation of biodiversity : In--situ and Ex--situ conservation of biodiversity.

Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.

**(5 lectures)**

#### **Unit 5 : Environmental Pollution**

Environmental pollution : types, causes, effects and controls; Air, water, soil and noise pollution

Nuclear hazards and human health risks

Solid waste management : Control measures of urban and industrial waste.

Pollution case studies.

**(5 lectures)**

#### **Unit 6 : Environmental Policies & Practices**

Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture

Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).

Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context.

**(4 lectures)**

#### **Unit 7 : Human Communities and the Environment**

Human population growth: Impacts on environment, human health and welfare.

Resettlement and rehabilitation of project affected persons; case studies.

Disaster management : floods, earthquake, cyclones and landslides.

Environmental movements : Chipko, Silent valley, Bishnois of Rajasthan.

Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.

Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi).

**(3 lectures)**

#### **Unit 8 : Field work**

Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc.

Visit to a local polluted site--Urban/Rural/Industrial/Agricultural.

Study of common plants, insects, birds and basic principles of identification.

Study of simple ecosystems--pond, river, Delhi Ridge, etc.

**(Equal to 4 lectures)**

**Suggested Readings:**

- Raziuddin, M., Mishra P.K. 2014, *A Handbook of Environmental Studies*, Akanaksha Publications, Ranchi.
- Mukherjee, B. 2011: *Fundamentals of Environmental Biology*. Silverline Publications, Allahabad.
- Carson, R. 2002. *Silent Spring*. Houghton Mifflin Harcourt.
- Gadgil, M., & Guha, R. 1993. *This Fissured Land: An Ecological History of India*. Univ. of California Press.
- Gleeson, B. and Low, N. (eds.) 1999. *Global Ethics and Environment*, London, Routledge.
- Gleick, P. H. 1993. *Water in Crisis*. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
- Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll. *Principles of Conservation Biology*. Sunderland: Sinauer Associates, 2006.
- Grumbine, R. Edward, and Pandit, M.K. 2013. Threats from India's Himalaya dams. *Science*, 339: 36--37.
- McCully, P. 1996. *Rivers no more: the environmental effects of dams*(pp. 29--64). Zed Books.
- McNeill, John R. 2000. *Something New Under the Sun: An Environmental History of the Twentieth Century*.
- Odum, E.P., Odum, H.T. & Andrews, J. 1971. *Fundamentals of Ecology*. Philadelphia: Saunders.
- Pepper, I.L., Gerba, C.P. & Brusseau, M.L. 2011. *Environmental and Pollution Science*. Academic Press.
- Rao, M.N. & Datta, A.K. 1987. *Waste Water Treatment*. Oxford and IBH Publishing Co. Pvt. Ltd.
- Raven, P.H., Hassenzahl, D.M. & Berg, L.R. 2012. *Environment*. 8th edition. John Wiley & Sons.
- Rosencranz, A., Divan, S., & Noble, M. L. 2001. *Environmental law and policy in India*. Tripathi 1992.
- Sengupta, R. 2003. *Ecology and economics: An approach to sustainable development*. OUP.
- Singh, J.S., Singh, S.P. and Gupta, S.R. 2014. *Ecology, Environmental Science and Conservation*. S. Chand Publishing, New Delhi.
- Sodhi, N.S., Gibson, L. & Raven, P.H. (eds). 2013. *Conservation Biology: Voices from the Tropics*. John Wiley & Sons.
- Thapar, V. 1998. *Land of the Tiger: A Natural History of the Indian Subcontinent*.
- Warren, C. E. 1971. *Biology and Water Pollution Control*. WB Saunders.
- Wilson, E. O. 2006. *The Creation: An appeal to save life on earth*. New York: Norton.
- World Commission on Environment and Development. 1987. *Our Common Future*. Oxford University

**II. GENERIC ELECTIVE (GE 2):**

(Credits: 06)

All Four Papers (One paper to be studied in each semester) of any One Subject to be opted other than the Honours Subject. Refer Content from the Syllabus of Opted Generic Elective Subject.

**III. CORE COURSE -C 3:**

(Credits: Theory-05, Tutorial-01)

**Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for  
Mid Semester Examination (MSE):***

*There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.*

***End Semester Examination (ESE):***

*There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**INTRODUCTORY MACROECONOMICS****Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

*This course aims to introduce the students 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. This introduces the students to various concept of money, and simple income determination model of a closed economy*

**Corse outline****1. Introduction to macroeconomics and National Accounting**

Basic issues studies in macroeconomics; measurement of gross domestic product; income, expenditure and the circular flow; real versus nominal GDP; price indices; national income accounting for an open economy; balance of payment: current and capital accounts.

**2. Money**

Definition of money, broad and narrow money, function of money; quantity theory of money; determination of money supply and demand; creation; tools of monetary policy.

**3. Inflation**

Concept, cost push, demand pull and mixed inflation, Social costs of inflation

**4. The Closed Economy income determination model in the Short Run**

Classical and Keynesian systems; simple Keynesian model of income determination; multiplier, balanced budget multiplier

**Basic Readings:**

- Dornbusch, Fischer and Startz, Macroeconomics, McGraw Hill, 11<sup>th</sup> edition, 2010.
- N. Gregory Mankiw. Macroeconomics, Worth Publishers, 7<sup>th</sup> editon, 2010.
- Olivier Blanchaed, Macroeconomics, Pearson Education, Inc., 5<sup>th</sup> edition, 2009.
- Richard T. Froyen, Macroeconomics, Pearson Education Asia, 2<sup>nd</sup> edition, 2005.
- Andrew B. Abel and Ben S. Bernanke, Macroeconomics, Pearson Education, Inc., 7<sup>th</sup> edition, 2011
- Errol D'Souza, Macroeconomics, Pearson Education 2009.
- Paul R. Krugman, Maurice Obstfeld and marc Melitz, International Economics, Pearson Education Asia, 9<sup>th</sup> edition, 2012.



**IV. CORE COURSE -C 4:**

(Credits: Theory-05, Tutorial-01)

**Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for******Mid Semester Examination (MSE):***

*There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.*

***End Semester Examination (ESE):***

*There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**ELEMENTARY MATHEMATICAL METHODS IN ECONOMICS****Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

*The objective of this course is to transmit the body of basic mathematics that enables the study of economic theory, at the undergraduate level, specifically the course on microeconomics theory, macroeconomics theory, international trade etc 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. The level of sophistication at which the material is to be taught is indicated by the contents of the prescribed textbook.*

**Course outline****1. Preliminaries**

Sets and set operations; relation; functions and their properties; number systems.

**2. Functions of one real variable**

Graphs; elementary types of function: quadratic, polynomial, power, exponential, logarithmic; sequences and series; continuous functions: properties with respect to various operations and applications; differentiable functions: characterizations, properties with respect to various operation and applications; second order derivatives: properties and applications. Concept of MR, MC, relationship between Total, Average, Marginal (Rev. & Cost).

**3. Single – variable optimization**

Geometric properties of function: local and global optima: geometric characterizations, characterizations using calculus and applications Profit maximization models.

**4. Exponential and Logarithmic functions and Logarithmic Derivation**

Exponential functions, Logarithmic functions, compound interest, Present values and capital values, derivatives of exponential and Logarithmic functions, Problem of capital and interest, Elasticity of a function, Elasticity of demand, Cost elasticity and Normal cost conditions.

**5. Integration**

Definite integrals, Indefinite integrals and inverse differentiation, technique of integration, Relation between average and marginal concepts, application in consumer's surplus.

**Basic Readings:**

- K. Sydsaeter and P. Hammond, Mathematics for Economic Analysis, Pearson Educational Asia: Delhi, 2002
  - Chiang, Alpha C and Wainright Kevin Fundamental Methods of Mathematical Economics, Mc Graw Hill Education
  - Allen, RGD Mathematical analysis for Economists
  - Yamane, Taro (1975) mathematics Prentice Hall of India, New Delhi
  - Koutsoyianis, A (1977) Theory of Econometrics (2nd Ed.) The Macmillan Press Ltd., London
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**SEMESTER III**


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**5 Papers****Total 100 x 5 = 500 Marks****I. SKILL ENHANCEMENT COURSE SEC 1:**

(Credits: Theory-02)

**Marks : 100 (ESE: 3Hrs) =100****Pass Marks Th ESE = 40***Instruction to Question Setter for**End Semester Examination (ESE):**There will be **objective type test** consisting of hundred questions of 1 mark each. Students are required to mark their answer on **OMR Sheet** provided by the University.***ELEMENTARY COMPUTER APPLICATION SOFTWARES:**

A Common Syllabus Prescribed by Ranchi University

**Theory: 30 Lectures****Objective of the Course***The objective of the course is to generate qualified manpower in the area of Information Technology (IT) and Graphic designing which will enable such person to work seamlessly at any Offices, whether Govt. or Private or for future entrepreneurs in the field of IT.***A. INTRODUCTION TO COMPUTER SYSTEM****Basic Computer Concept**Computer Appreciation - Characteristics of Computers, Input, Output, Storage units, CPU, Computer System. **(1 Lecture)****Input and Output Devices**

Input Devices - Keyboard, Mouse, joystick, Scanner, web cam,

Output Devices- Soft copy devices, monitors, projectors, speakers, Hard copy devices, Printers – Dot matrix, inkjet, laser, Plotters. **(4 lectures)****Computer Memory and Processors**

Memory hierarchy, Processor registers, Cache memory, Primary memory- RAM, ROM, Secondary storage devices, Magnetic tapes, Floppy disks, hard disks, Optical Drives- CD-ROM, DVD-ROM, CD-R, CD-RW, USB Flash drive, Mass storage devices: USB thumb drive. Managing disk Partitions, File System. Basic Processor Architecture, Processor speed, Types of processor.

**(5 lectures)****Numbers Systems and Logic Gates**

Decimal number system, Binary number system, Octal number system, Hexadecimal number system, Inter-conversion between the number systems. Basic Logic gates-AND, OR, NOT, Universal logic gates- NAND, NOR

**(3 lectures)****Computer Software**

Computer Software- Relationship between Hardware and Software, System Software, Application Software, Compiler, Names of some high level languages, Free domain software.

**(2 Lectures)**

**Internet & its uses**

History of Internet, WWW and Web Browsers: Web Browsing software, Surfing the Internet, Chatting on Internet, Basic of electronic mail, Using Emails, Document handling, Network definition, Common terminologies: LAN, WAN, MAN, Node, Host, Workstation, Bandwidth, Network Components: Servers, Clients, Communication Media. Wireless network

**(3 Lectures)****Operating system-Windows**

Operating system and basics of Windows, The User Interface, Using Mouse and Moving Icons on the screen, The My Computer Icon, The Recycle Bin, Status Bar, Start and Menu & Menu-selection, Running an Application, Windows Explorer Viewing of File, Folders and Directories, Creating and Renaming of files and folders, Opening and closing of different Windows, Windows Setting, Control Panels, Wall paper and Screen Savers, Setting the date and Sound, Concept of menu Using Help, Advanced Windows, Using right Button of the Mouse, Creating Short cuts, Basics of Window Setup, Notepad, Window Accessories

**(2 Lectures)****B. MICROSOFT OFFICE 2007 AND LATEST VERSIONS****Word Processing**

Word processing concepts: saving, closing, Opening an existing document, Selecting text, Editing text, Finding and replacing text, printing documents, Creating and Printing Merged Documents, Character and Paragraph Formatting, Page Design and Layout. Editing and Checking. Correcting spellings. Handling Graphics, Creating Tables and Charts, Document Templates and Wizards, Mail merge and Macros.

**(3 Lectures)****Microsoft Excel (Spreadsheet)**

Spreadsheet Concepts, Creating, Saving and Editing a Workbook, Inserting, Deleting Work Sheets, entering data in a cell / formula Copying and Moving from selected cells, handling operators in Formulae, Functions: Mathematical, Logical, statistical, text, financial, Date and Time functions, Using Function Wizard. Formatting a Worksheet: Formatting Cells changing data alignment, changing date, number, character or currency format, changing font, adding borders and colors, Printing worksheets, Charts and Graphs – Creating, Previewing, Modifying Charts. Integrating word processor, spread sheets, web pages. Pivot table, goal seek, Data filter and scenario manager

**(4 Lectures)****Microsoft Power Point (Presentation Package)**

Creating, Opening and Saving Presentations, Creating the Look of Your Presentation, Working in Different Views, Working with Slides, Adding and Formatting Text, Formatting Paragraphs, Drawing and Working with Objects, Adding Clip Art and other pictures, Designing Slide Shows, Running and Controlling a Slide Show, Printing Presentations. Creating photo album, Rehearse timing and record narration. Master slides.

**(3 Lectures)****Reference Books**

- Nishit Mathur, Fundamentals of Computer , Aph publishing corporation(2010)
- Misty E. Vermaat, Microsoft word 2013 1<sup>st</sup> Edition (2013).
- Satish Jain, M.Geeta, MS- Office 2010 Training Guide, BPB publication (2010)
- Joan Preppernau, Microsoft PowerPoint 2016 step by step, Microsoft press(2015)
- Douglas E Corner, The Internet Book 4<sup>th</sup> Edition, prentice –Hall(2009)
- Faithe wempen, word 2016 in depth 1<sup>st</sup> edition, que publishing(2015)
- Steven welkler, Office 2016 for beginners, Create Space Independent publishing Plateform (2016)

## SKILL ENHANCEMENT LAB- SEC 1 LAB

### A. MS-WORD LAB ASSIGNMENT

1. Write down the following Paragraph OR any one provided by your teacher;

Without a doubt, the Internet is one of the most important inventions of modern times. The Internet is a global interconnected computer networks which allow each connected computer to share and exchange information with each other. The origins of the Internet can be traced to the creation of Advanced Research Projects Agency Network (ARPANET) as a network of computers under the auspices of the U.S. Department of Defense in 1969.

Apply following effects on The paragraph:

- i. Paragraph **font-size** and **font-type** must be 12 Verdana.
- ii. Paragraph **alignment** must be justified and double line spacing.
- iii. **Highlight** the “(ARPANET)” with green color.
- iv. Make the “Internet” keywords **Bold and Italic**.
- v. Insert any “**WordArt**” and a **symbol** to your document.
- vi. Insert a **clipart** to your document.
- vii. Add following lines to your document:  
Internet, Intranet, Extranet, URL, WWW, Networking, Protocols, HTTP, TCP/IP

2. Create a Table of following fields:

Name, Surname, Age, Gender, Job and apply the following effects

- i. Insert 10 records
- ii. Font size should be 12
- iii. Title size should be 14
- iv. Font type should be Times new Roman
- v. Title color should be blue
- vi. Text color should be black
- vii. Table border should be 2

3. Write a letter on ‘Road Safety’ and send to ‘Multiple Recipients’ using mail merge.

4. Type the paragraph given below:

Today, the Internet is a public, cooperative and self-sustaining facility accessible to hundreds of millions of people worldwide. Physically, the Internet uses a portion of the total resources of the currently existing public telecommunication networks. Technically, what distinguishes the Internet is its use of a set of protocols called TCP/IP (for Transmission Control Protocol/Internet Protocol). Two recent adaptations of Internet technology, the intranet and the extranet, also make use of the TCP/IP protocol. Today, the Internet is a public, cooperative and self-sustaining facility accessible to hundreds of millions of people worldwide. Physically, the Internet uses a portion of the total resources of the currently existing public telecommunication networks. Technically, what distinguishes the Internet is its use of a set of protocols called TCP/IP (for Transmission Control Protocol/ Internet Protocol). Two recent adaptations of Internet technology, the intranet and the extranet, also make use of the TCP/IP protocol.

Apply the following:

- i. Change Internet into Internets at a time
- ii. Highlight TCP/IP in red color
- iii. Replace protocol into protocols
- iv. Find the word "Public"

## **B. MICROSOFT EXCEL LAB ASSIGNMENT**

### **Basic Formatting and Spreadsheet Manipulation**

1. Add rows and columns to an existing spreadsheet
2. Reformat data (center, comma and currency styles, bold, text color)
3. Work with a simple formula (product) and function (sum)

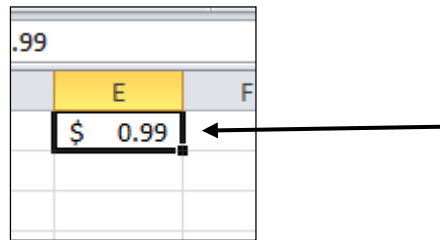
### **Assignment**

1. Create a workbook as shown below.
2. To enter new rows or columns, simply click on the row or column header to select the whole row or column. Then right click with the mouse and choose insert.
3. Add the new row for S Spade with the data that's shown below (between the original rows 7 and 8).
4. Add a column for gender and the data as shown below (between the original columns A and B). Enter the appropriate gender for yourself in the last row.

| A        | B           | C           | D               |
|----------|-------------|-------------|-----------------|
| Name     | Male/Female | Genre       | Number of Songs |
| J Smith  | F           | Blues       | 50              |
| B Doe    | M           | Country     | 110             |
| S Spade  | F           | Country     | 200             |
| F Zappa  | M           | Blues       | 1400            |
| F Zappa  | M           | Alternative | 2300            |
| J Smith  | F           | Alternative | 150             |
| S Spade  | F           | Blues       | 1000            |
| B Doe    | M           | Blues       | 75              |
| yourname | M           | Blues       | 800             |

5. Center the data in columns B and C. Do this by selecting the whole column and click the center icon on the ribbon.
6. Bold the data in row 1, the column headings (ensure that the data all remains visible within the column boundaries).
7. Change the font color for row 1 to Blue.
8. Change the format of the data in column D to comma style (no decimal places showing). There is an icon on the home tab that sets it to comma style easily.
9. Add two new column labels to the right of the current columns; **Unit Price** and **Total Cost**. (They will be in columns E and F.) These two columns of data should be currency type so that the dollar sign is shown. There is an icon to quickly format the selected column as currency type.
10. All tunes are \$.99, so enter that value for all rows in Column E. You can copy quickly by using the **Auto Fill** handle and drag that amount down. When you over your mouse over the tiny square in

the bottom right hand corner of the active cell, your mouse shape will become a skinny plus sign, and you can click and drag that cell to make a copy.



11. Calculate Total Cost (column F) as *column D times Column E*. You will type in a formula like this into cell F2: **=D2\*E2** (Be sure to begin the formula with an equal sign)
12. Use the AutoFill (skinny plus sign) again to copy the formula down column F; down to F10. Double check the picture below to make sure yours has the correct values
13. Add a border to all of the cells (A1-f10) using the Borders tool in the Fonts group on the Home Tab.
14. Change the page layout to landscape. Do this by clicking the Page Layout tab on the ribbon and then to Orientation to Landscape.
15. Save the file.
16. Click in cell F11 and Use the sum function or the shortcut icon that looks like  $\Sigma$  to get the total of the Total Cost column.
17. Ensure that the data is all visible within the column boundaries. Make the columns wider if needed.
18. Save the workbook. Your final spreadsheet should look like the following when printed.

| Name     | Male/Female | Genre       | Number of Songs | Unit Price | Total Cost  |
|----------|-------------|-------------|-----------------|------------|-------------|
| J Smith  | F           | Blues       | 50              | \$ 0.99    | \$ 49.50    |
| B Doe    | M           | Country     | 110             | \$ 0.99    | \$ 108.90   |
| S Spade  | F           | Country     | 200             | \$ 0.99    | \$ 198.00   |
| F Zappa  | M           | Blues       | 1,400           | \$ 0.99    | \$ 1,386.00 |
| F Zappa  | M           | Alternative | 2,300           | \$ 0.99    | \$ 2,277.00 |
| S Spade  | F           | Blues       | 1,000           | \$ 0.99    | \$ 990.00   |
| J Smith  | F           | Alternative | 150             | \$ 0.99    | \$ 148.50   |
| B Doe    | M           | Blues       | 75              | \$ 0.99    | \$ 74.25    |
| yourname | M           | Blues       | 800             | \$ 0.99    | \$ 792.00   |

\$ 6,024.15

**Create a sample table given below in Excel**

- Using formula find Total
- Find the maximum value using MAX function from the **Units** column
- Find minimum value from **Total** column

| Order Date | Region  | Rep      | Item    | Units | Unit Cost | Total    |
|------------|---------|----------|---------|-------|-----------|----------|
| 1/6/2016   | East    | Jones    | Pencil  | 95    | 1.99      | 189.05   |
| 1/23/2016  | Central | Kivell   | Binder  | 50    | 19.99     | 999.50   |
| 2/9/2016   | Central | Jardine  | Pencil  | 36    | 4.99      | 179.64   |
| 2/26/2016  | Central | Gill     | Pen     | 27    | 19.99     | 539.73   |
| 3/15/2016  | West    | Sorvino  | Pencil  | 56    | 2.99      | 167.44   |
| 4/1/2016   | East    | Jones    | Binder  | 60    | 4.99      | 299.40   |
| 4/18/2016  | Central | Andrews  | Pencil  | 75    | 1.99      | 149.25   |
| 5/5/2016   | Central | Jardine  | Pencil  | 90    | 4.99      | 449.10   |
| 5/22/2016  | West    | Thompson | Pencil  | 32    | 1.99      | 63.68    |
| 6/8/2016   | East    | Jones    | Binder  | 60    | 8.99      | 539.40   |
| 6/25/2016  | Central | Morgan   | Pencil  | 90    | 4.99      | 449.10   |
| 7/12/2016  | East    | Howard   | Binder  | 29    | 1.99      | 57.71    |
| 7/29/2016  | East    | Parent   | Binder  | 81    | 19.99     | 1,619.19 |
| 8/15/2016  | East    | Jones    | Pencil  | 35    | 4.99      | 174.65   |
| 9/1/2016   | Central | Smith    | Desk    | 2     | 125.00    | 250.00   |
| 9/18/2016  | East    | Jones    | Pen Set | 16    | 15.99     | 255.84   |
| 10/5/2016  | Central | Morgan   | Binder  | 28    | 8.99      | 251.72   |
| 10/22/2016 | East    | Jones    | Pen     | 64    | 8.99      | 575.36   |
| 11/8/2016  | East    | Parent   | Pen     | 15    | 19.99     | 299.85   |
| 11/25/2016 | Central | Kivell   | Pen Set | 96    | 4.99      | 479.04   |
| 12/12/2016 | Central | Smith    | Pencil  | 67    | 1.29      | 86.43    |
| 12/29/2016 | East    | Parent   | Pen Set | 74    | 15.99     | 1,183.26 |

### **C. MS-POWERPOINT LAB ASSIGNMENT**

#### **Activity 1 : Using Text & Background/Themes**

- i. Create one new slide and insert any text.
- ii. To make your slide more attractive, use the themes or background.
- iii. Make sure it apply for every slide not only one slide.

#### **Activity 2 : Apply Custom Animation On Text**

- i. Use the custom animation to add effects on your text. Set the text move after you click the mouse.
- ii. If you have more than one text, add effects for each of text.

#### **Activity 3 : Insert Image & WordArt**

- i. Insert one new blank slide.
- ii. Choose one pictures or clip art from any source and insert in your new slide.
- iii. Using the WordArt, make a note or title on your picture.
- iv. Use the custom animation again to add effects on your picture and WordArt.

#### **Activity 4 : Insert Text Box**

- i. Insert one new blank slide.
- ii. Use the text box to insert one paragraph of text and adjust your text.

#### **Activity 5 : Insert Smart Art**

- i. Insert one new blank slide.
- ii. Insert the Smart Art and put your text on the Smart Art.



**Activity 6 : Insert Audio**

- i. Back to your first slide and insert one audio on that slide. The audio must play automatically when you show your slide.
- ii. Make sure the speaker also not appear when you show your slide. (the icon).
- iii. The audio must play when you show alls your slide, not only one slide.

**Activity 7 : inserting Video**

- i. Insert one new slide and insert one short video

**Activity 8 : Save File**

- i. Save your file

**Activity 9 : Create Photo Album & Hyperlink**

- i. Insert one new slide and put a text ex: "My Photo Album"
- ii. Create one photo album and adjust your text and your photos
- iii. Save your photo album with a new file
- iv. Make a hyperlink to your photo using the text "My Photo Album"

**Reference Books:**

- Faithe wempen, word 2016 in depth 1<sup>st</sup> edition, que publishing(2015)
  - steven welkler, Office 2016 for bignners, Create Space Independent publishing plateform(2016)
  - Elaine Marmel, office 2016 simplified, 1<sup>st</sup> Edition, John wiley and sons Inc(2016)
  - Patrice-Anne Rutledge, Easy office 2016 1st edition, Que publishing(2016)
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**II. GENERIC ELECTIVE (GE 3)**

(Credits: 06)

All Four Papers (One paper to be studied in each semester) of any One Subject to be opted other than the Honours Subject. Refer Content from the Syllabus of Opted Generic Elective Subject.

**III. CORE COURSE -C 5:**

(Credits: Theory-05, Tutorial-01)

**Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for******Mid Semester Examination (MSE):***

*There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.*

***End Semester Examination (ESE):***

*There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**INTERMEDIATE MICROECONOMICS-I****Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

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

**Course Outline****1. Consumer's Equilibrium**

Utility (Marshall and Hicks approach); Substitution effects (Hicks and Slutsky); Consumer's surplus (Marshall and Hicks approach).

**2. Theory of Production and Costs**

Production function; Isoquants; law of variable proportion; returns to scale; Different concepts of costs and cost curves under traditional theory; Equilibrium of the firm; Expansion path.

**3. Market Structure**

Market firms – perfect and imperfect markets; Equilibrium of a firm – perfect competition; monopoly and price discrimination; Measure of monopoly power; Monopolistic competition; Duopoly; oligopoly.

**4. Factor Pricing**

Marginal productivity theory of distribution; Adding up problem; Rent – concepts, Ricardian and Modern theory of rent; Interest – Classical and Keynesian theories; Profits – innovation, risk and uncertainty theories.

**Basic Readings:**

- Hal R. Varian, Intermediate Microeconomics, a Modern Approach, W.W. Norton and company / Affiliated East-West Press (India), 8<sup>th</sup> edition, 2010. The workbook by Varian and Bergstrom may be used for problems.
- C. Snyder and W. Nicholson, Fundamentals of Microeconomics, engage Learning (India), 2010.
- B. Douglas Bernheim and Michael D. Whinston, Microeconomics, Tata McGraw-Hill (India),2009.

**IV. CORE COURSE -C 6:**

(Credits: Theory-05, Tutorial-01)

**Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for  
Mid Semester Examination (MSE):***

*There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.*

***End Semester Examination (ESE):***

*There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**INTERMEDIATE MACROECONOMICS-I****Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

*This course introduces the students to elementary theories of output and employment determination, concept of Consumption and investment functions, as well as simple income determination model in a closed economy including IS-LM curves. It also introduces the concept of unemployment.*

**Course outline****1. Theories Output and Employment**

Say's Law' of markets and the classical theory of employment; Keynes objection to the classical theory; aggregate demand and aggregate supply function, the principle of effective demand.

2. **Consumption function** – average and marginal propensity to consume; factors influencing consumption spending
3. **Investment** – autonomous and induced Investment; marginal efficiency of capital and marginal efficiency of investment, determining factors,
4. **Simple income determination models** in a closed economy, Keynesian and classical models, IS-LM income and interest determination
5. **Unemployment** types and causes, inflation and unemployment

**Basic Readings:**

- Dornbusch, Fischer and Startz, macroeconomics, McGraw Hill, 11<sup>th</sup> edition, 2010.
- N. Gregory Mankiw, macroeconomics, Woorth publishers, 7<sup>th</sup> edition, 2010.
- Olivier Blanchaed, macroeconomics, Pearson Education, Inc., 5<sup>th</sup> edition, 2009.
- Steven M. Sheffrin, Rational expectations, Cambridge University Prss, 2<sup>nd</sup> edition, 1996.
- Andrew B. Abel and Ben S. Bernanke, Macroeconomics, Pearson Education, Inc., 7<sup>th</sup> edition, 2011
- Errol D'Souza, Macroeconomics, Pearson Education 2009.
- Paul R. Krugman, Maurice Obstfeld and marc Melitz, International Economics, Pearson Education Asia, 9<sup>th</sup> edition, 2012.

**V. CORE COURSE -C 7:**

(Credits: Theory-05, Tutorial-01)

**Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for******Mid Semester Examination (MSE):***

*There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.*

***End Semester Examination (ESE):***

*There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**PUBLIC FINANCE****Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

*The course introduces the students various concept of public finance that includes principles of taxation, public expenditure, public debt and budgets, structure of federal finance.*

**Course Outline****1. Nature and Scope of Public finance**

Meaning and Scope of public finance; Distinction between private and public finance; Public good vs. private goods; The principle of Maximum Social advantage; market failure; Role of the government.

**2. Public Expenditure**

Meaning, classification and principle of public expenditure; Canons and effects of public expenditure; Trends in public expenditure and causes of growth of public expenditure in India.

**3. Taxation**

Sources of public revenue; Taxation – Meaning, canon and classification of taxes; Division of tax burden – the Benefit and ability-to-Pay approaches; Impact and incidence of taxes; Taxable capacity; Effects of taxation; Characteristics of a good tax system; major trends in tax revenue of the central and state governments in India. GST and VAT

**4. Public Debt and Financial Administration**

Sources of public borrowing; Effects of public debt; methods of debt redemption; the public budget – kinds of budget; Economic and functional classification of the budget.

**5. Financial decentralization in India**

Centre State Financial Relationship, Role of Finance Commission, and baic Features of 14<sup>th</sup> Finance Communication

**Basic Readings:**

- J. Hindriks , G. Myles: Intermediate Public Economics, MIT Press, 2006
  - H. Rosen, T. Gayer: Public Finance, 9<sup>th</sup> ed., Mcgraw Hill/ Irwin, 2009
  - Joseph E. stiglitz, Economics of the Public Sector, W.W. Norton & Company, 3<sup>rd</sup> edition, 2000.
  - R.A. Musgrave and P.B. Musgrave, public Finance in theory & Practice, McGraw Hill Publications, 5<sup>th</sup> edition, 1989.
  - Harvey Rosen, Public Finance McGraw Hill Publications, 7<sup>th</sup> edition, 2005
  - Mahesh Purohit, Value Added Tax : Experiences f India and Other countries 2007.
  - Kaushik basu and a. Maertens (ed), the New oxford Companion to Economics in India, Oxford University Press, 2013.
  - M.M. Sury, Government Budgeting in India, 1990
  - M. Govinda Rao, Changing Contours of Federal Fiscal arrangements in India, Amaresh bagchi (ed) reading in Public Finance, Oxford University Press.2005
  - Paul Samuelson, 1955, - Diagrammatic Exposition of a theory of public expenditure, Review of Economics and Statistics, Volume 37.
  - Shankar Acharya, 2005, - Thirty years of Tax Reform in India, Economic and Political Weekly , May 14-20
  - Rangarajan and D.K Srivastava, 2005, - Fiscal Deficit and Government Debt: Implication for Growth and Stabilization”, Economic and Political Weekly, July 2 -8.
  - M. Govinda Rao, 2011 Goods and Services Tax: A Gorilla, Chimpanzee or a Genius lik Primates? Economic and political Weekly, February 12-18.
  - Report of the 14<sup>th</sup> Finance Commission, 2015-20
  - Economic Survey, Government of India (Latest).
  - State Finances; A Study of Budgets, Reserve Bank of India (Latest).
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**SEMESTER IV****5 Papers****Total 100 x 5 = 500 Marks****I. SKILL ENHANCEMENT COURSE SEC 2:**

(Credits: Theory-02)

**Marks : 100 (ESE 3Hrs) =100****Pass Marks Th ESE = 40*****Instruction to Question Setter for******End Semester Examination (ESE):***

*There will be two group of questions. Group A is compulsory and will contain three questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2& 3 will be short answer type of 5 marks. Group B will contain descriptive type six questions of 20 marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**SOFT SKILLS****Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

*The course intends to transfer soft skills and numeric ability skills to the students which will help them in accessing job opportunities particularly in the banking sector*

**1. Resume writing and Interview skills**

Resume Writing: What is Resume? Types of Resume? Chronological, Functional and Mixed Resume, Steps in preparation of Resume. Interview Skills: Common interview Questions, Attitude, Body Language, The mock interviews, Phone interviews, Behavioral Interviews.

**2. Group discussion (GD) and team building**

Group Discussion: Group Discussion Basics, GD Topics for Practice, Points for GD Topics, Case-Based and Article based Group Discussions, Points for Case Studies, and Notes on Current Issues for GD.

**3. Numerical Ability**

Average, Percentage, Profit and Loss, Simple Interest, Compound Interest, Time and Work, Pipes and Cisterns, -Time and Distance, Problems on Trains, Boats and Streams Calendar, Ratios and Proportions.

**Basis Readings:**

- 1. Agarwal.R.S (2010) Quantitative Aptitude, S.Chand and Sons
- 2. Prasad. L.M (2000) Organizational Behavior S.Chand
- Khera. Shiv. You Can Win MC Millan Books, Revised Edition

**II. GENERIC ELECTIVE (GE 4)**

(Credits: 06)

All Four Papers (One paper to be studied in each semester) of any One Subject to be opted other than the Honours Subject. Refer Content from the Syllabus of Opted Generic Elective Subject.

**III. CORE COURSE -C 8:**

(Credits: Theory-05, Tutorial-01)

**Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for******Mid Semester Examination (MSE):***

There will be **two** group of questions. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type** six questions of five marks each, out of which any four are to answer.

***End Semester Examination (ESE):***

There will be **two** group of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of ten questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type** six questions of fifteen marks each, out of which any four are to answer.

**Note:** There may be subdivisions in each question asked in Theory Examinations.

**INTERMEDIATE MICROECONOMICS-II****Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

*This course is a sequel to intermediate Microeconomics I. The emphasis will be on giving conceptual clarity to the student coupled with the use of mathematical tools and reasoning. It covers general equilibrium welfare and imperfect markets*

**Course Outline****1. Equilibrium, Efficiency and Welfare**

Equilibrium and efficiency under pure exchange and production; Pareto efficiency & limitations, Pigou, Pareto & Social welfare function;

**2. Market failure**

Externalities; public goods; Pigovian welfare economics

**3. Imperfect Market Structure**

Monopoly power, price discrimination, monopolistic competition, classical approach, oligopoly; meaning, types, models, classical & kinked demand curves, price leadership models,

**Basic Readings:**

- Hal R. Varian, Intermediate Microeconomics, a Modern 8<sup>th</sup> edition, W.W. Norton and Company/Affiliated East-West Press (India), 2010. The Workbook by Varian and Bergstrom could be used for problems.
- C. Snyder and W. Nicholson, Fundamentals of Microeconomics, Cengage Learning (India). 2010.

**IV. CORE COURSE -C 9:**

(Credits: Theory-05, Tutorial-01)

**Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for  
Mid Semester Examination (MSE):***

*There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.*

***End Semester Examination (ESE):***

*There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**INTERMEDIATE MACROECONOMICS-II****Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

*This Description is a sequel to intermediate macroeconomics I. in this course; the students are introduced to monetary economics which includes quantity theory of money, fiscal and monetary policy. It also introduces some recent school of macroeconomic thought*

**Course Outline****1. Quantity theory of money**

Fisher, Cambridge & Keynesian theory of Price and Friedman's Restatement of the quantity theory

**2. Fiscal and Monetary Policy**

Fiscal Policy target & instruments; monetary policy objectives, targets & instruments; the government budget constraint; government debt.

**3. Some recent Schools of Macroeconomics Thoughts**

New-Classical and New-Keynesians.

**Basic Readings:**

- Dornbusch, Fischer and Startz, Macroeconomics, McGraw Hill, 11<sup>th</sup> edition, 2010.
- N. Gregory Mankiw. Macroeconomics, Worth Publishers, 7<sup>th</sup> edition, 2010.
- Olivier Blanchard, Macroeconomics, Pearson Education, Inc., 5<sup>th</sup> edition,2009
- Charles I. Jones, Introduction to Economic Growth, W.W. north & Company, 2<sup>nd</sup> edition,2002
- Andrew B. Abel and Ben S. Bernanke, Macroeconomics, Pearson Education, Inc., 7<sup>th</sup> edition, 2011
- Errol D'Souza, Macroeconomics, Pearson Education 2009.
- Robert J. Gordon, Macroeconomics, Prentice-Hall India Limited, 2011.



**V. CORE COURSE -C 10:**

(Credits: Theory-05, Tutorial-01)

**Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for  
Mid Semester Examination (MSE):***

*There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.*

***End Semester Examination (ESE):***

*There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**INTERNATIONAL TRADE****Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

*In the economic situation trade is becoming very important. The objective of this course is to introduce the students various theories of international trade, gains from trade, tariff and quota balance of payments and the role of multilateral agencies.*

**1. Importance of Trade and Trade theories**

Importance of the study of international economics; Inter-regional and international trade; Theories of absolute advantage, comparative and opportunity cost; Heckscher – Ohlin Theory of trade – its main features, assumptions and limitations

**2. Gains from Trade**

Gain from Trade – their measurement and distribution: Trade as an engine of economic growth; Concept of terms of trade and their importance in the theory of trade;

**3. Tariffs and Quotas**

Types of tariffs and quotas; their impact in partial equilibrium analysis; Free trade and policy of tariffs in relation to economic growth with special reference to India; Concept of optimum tariff.

**4. Balance of trade and Balance Payments and multilateral agencies**

Concepts and components of balance of trade and Balance of Payments; Equilibrium and disequilibrium in Balance of Payments; Consequences of disequilibrium in Balance of Payments; Various measures to correct deficit in the Balance of Payments; Relative merits, demerits and limitations of devaluation; Concept and implication of foreign trade multiplier, Functions of IMF, World Bank and GATT/WTO

**Basic Readings:**

- Baghwati.J.N.(ed); International Trade, Selected Readings ,Cambridge University Press.
- Kirdleberger; International Business
- Paul R krugman, Maurice Obsfeld: International Economics ,Theory& Practice ,(Peason)

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**SEMESTER V**


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**4 Papers****Total 100 x 4 = 400 Marks**

(Credits: Theory-05, Tutorial-01)

**I. ECONOMICS SPECIFIC (DSE 1):****Either Group 'A' or 'B'****Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for******Mid Semester Examination (MSE):***

*There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.*

***End Semester Examination (ESE):***

*There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**DSE 1A. ADVANCE MATHEMATICAL ECONOMICS****Theory: 75 Lectures; Tutorial:15 Lectures****1. Functions of two and more than two variables**

Diagrammatic representation of plane sections of surfaces; Functions of several variable in economic theory; Production function and iso product curves; Utility function and indifference curves.

**2. Constrained Maximum and Minimum Values**

Consumer's equilibrium, Producer's equilibrium, Expansion path

**3. Partial Derivatives and Total Differentials**

Technique of Partial differentiation; Economic applications of partial derivatives – homogeneous functions, Euler's theory and other properties of homogeneous production function; Linear and homogeneous production function – Cobb-Douglas production function; Concept and technique of total differentiation; Economic application of total differentiation – marginal rate of substitution and elasticity of substitution.

**4. Integral calculus and Differential Equations**

Definite integrals, Indefinite integrals and inverse differentiation, Relation between average and marginal concepts, Linear differential equation and their integration, Simultaneous linear differential equations, Orthogonal curves and surface systems; Other differential equations; Dynamic forms of demand supply function.

**5. Market Structure/Pricing**

Concept of equilibrium of the firm under perfect competition; Monopoly; Price discrimination; Monopolistic Competition; subsidies and taxes; economies of scale; market equilibrium.

**6. Matrix Algebra**

Types of Matrices; Determinants – Inverse, rank, Cremer's rule; Simultaneous equations – homogeneous, non – homogeneous;

**7. Input –output Analysis, Linear Programming**

Input- output analysis; the simple closed and open model; Simon-Hawkins condition; Linear Programming – basic concepts, primal and dual, basic theorems of Linear Programming; graphical method.

**8. Game Theory**

Introduction and concepts – simple and mixed strategy; saddle point solution; prisoners dilemma; pay-off matrix of a game – two-person-two commodity and zero-sum game.

**Basic Readings:**

- A.C.Chiang- Fundamentals of Mathematical Economics, Mc Graw Hill. New York
- R.G.D Allen- Mathematics for Economics, Mc Milan Press.
- Taro Yamane- Mathematics for Economics- An Elementary Survey Prentice Hall of India, Pvt.Ltd.New Delhi.

**OR****DSE 1B. ECONOMICS OF AGRICULTURE****Theory: 75 Lectures; Tutorial:15 Lectures**

1. Nature, Scope and Role of Agricultural Economics
2. Role of Land, Labor and Capital in Agriculture
3. Theory of Productions: Factor-Product relationship, Factor-Factor relationship, Product-Product relationship.
4. Cost relationship and Profit maximization
5. Agricultural, Price Determination
6. Supply behavior in Agriculture
7. Farm Size and Productivity, Farm Management
8. Risk and uncertainty in Farming

**Basic Readings -**

- I. Sadhu A.N., Singh Amarjeet: Fundamentals of\_ Agricultural Economics, Himalayan Publishing House
  - 2.Raju V.T. & Vishnu Shankar Rao: Economics of Farm Production and Management; Oxford & IBH Publishing Co. Pvt. Ltd.
  - Bilgramy, S.R.: An Introduction to Agricultural Economics
  - Sony, R.N.: {Leading Issues in Agricultural Economics
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**II. ECONOMICS SPECIFIC (DSE 2):**

(Credits: Theory-05, Tutorial-01)

**Either Group 'A' or 'B'****Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for  
Mid Semester Examination (MSE):***

*There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.*

***End Semester Examination (ESE):***

*There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**DSE 2A. ECONOMICS OF HEALTH & EDUCATION****Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

*This importance of education and health in improving well-being is reflected in their inclusion among the Millennium Development Goals adopted by the United Nations member states, which include among other goals, achieving universal primary education, reducing child mortality, improving maternal health combating diseases. This course provides 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.*

**Course Outline****1. Role of Health and Education in Human Development**

Importance in poverty alleviation; health and education outcomes and their relationship with macroeconomic performance.

**2. 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.

**3. Evaluation of Health Programs**

Costing, cost effectiveness and cost-benefit analysis; burden of disease.

**4. Health Sector in India: An Overview**

Health outcomes; Health systems; health financing.

**5. Education: Investment in Human Capital**

Rate of return to education: private and social; quality of education; significance or human capital; theories of discrimination; gender and caste discrimination in India.

**6. Education Sector in India: An Overview**

Literacy rates, school participation, school quality measures.

**Basic Readings:**

- William, Jack Principles of Health Economics for Developing Counties, World Bank Institute Development Studies, 1999.
- World Development Report, Investing in Health, The World Bank, 1993.
- Ronald G., Ehrenberg and Robert S., Smith, Modern Labor Economics: Theory and Public Policy, Addison Wesley, 2005.

**OR****DSE 2B. JHARKHAND ECONOMY****Theory: 75 Lectures; Tutorial:15 Lectures**

1. Economic growth and structure of Jharkhand's economy , sectoral composition , Growth in SDP and per capita NSDP in last decade, Agricultural and industrial growth in Jharkhand
2. Demographic features of Jharkhand: population growth, sex ratio, density, literacy, Composition of work force, rural urban composition etc.. Special Reference Census 2001 and 2011, inter district variations
3. Status of poverty, unemployment, food security malnutrition, education and Health indicators in Jharkhand, major initiatives, Issues of agricultural and rural Development, major programs and schemes, poverty alleviation programs; particularly, MGNREGA, PMGSY, NRLM, etc and., Food security schemes
4. Land, forest and environmental issues in Jharkhand: land reforms and agrarian Relations, tribal land alienation, development induced displacement impacts and Policy initiatives; Forest issues and implementation of FRA, Environmental Degradation and policy in the state
5. Five year plans in Jharkhand, strategy and achievement in X and XI<sup>th</sup> plan, TSP and SCSP, Public finance trends in Jharkhand, industrial policy in Jharkhand and industrial development

**Basic Readings:**

- Jharkhand Samanya gyan ; Manish Ranjan
  - Micro Planning of Jharkhand; Kunal Vikram
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**III. CORE COURSE -C 11:**

(Credits: Theory-05, Tutorial-01)

**Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE) =40****Instruction to Question Setter for  
Mid Semester Examination (MSE):**

There will be two group of questions. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type** six questions of five marks each, out of which any four are to answer.

**End Semester Examination (ESE):**

There will be two group of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of ten questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type** six questions of fifteen marks each, out of which any four are to answer.

**Note:** There may be subdivisions in each question asked in Theory Examinations.

**INDIAN ECONOMY****Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

Using appropriate analytical frameworks, this course reviews major trends in economic indicators and policy debates in India in the post-Independence period, with particular emphasis on paradigm shift and turning point. Given the rapid change taking place in India, the reading list will have to be updated annually. This course has special reference for the Jharkhand economy in changing economic scenario.

**Course Outline****1. Economic Development since Independence**

Major feature of the economy at independence; growth and development under different policy regimes – goals, constraints, institution and policy framework; an assessment of performance – sustainability and regional contrasts; structural change, savings and investment.

**2. Population and Human Development**

Demographic trends and issues; health and malnutrition.

**3. Growth and Distribution**

Trends and policies in poverty, inequality and unemployment.

**4. India's foreign trade:**

Composition, direction trends, balance of payment situation

**5. Policies and Performance in Agriculture**

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

**6. Policies and Performance in Industry**

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

**7. Some recent initiative for inclusive development** Make in India, Skill India Mission, Jan Dhan Yojana, National Rural Livelihood Mission, and MNREGA etc.**8. Introduction to Jharkhand Economy** Structure, trends, Demography

**Readings:**

- Jean Dreze and Amartya Sen 2013. *An Uncertain Glory: India and its Contradictions*, Princeton University Press.
  - Pulapre Bankrishnan, 2007, *the Recovery of India: Economic Growth in the Nehru Era*, Economic and Political Weekly, November.
  - Rakesh mohan, 2008 – *Growth Record of Indian Economy: 1950-2008. A Story of Sustained Savings and Investment*, Economic and Political Weekly May.
  - S.L. Shetty, 2007, - *India's savings Performance since the Advent of Planning*, in K.L. Krishna and A. vaidyanathan, editors, *institutions and Markets in India's Development*.
  - Himanshu 2010, *Towards New poverty Lines for India*, Economic and Political Weekly, January,
  - Jean Dreze and Angus Deaton, 2009, *food Nutrition in India: Facts and Interpretations*, Economic and Political Weekly, February,
  - Himanshu. 2011, - *Employment trends in India: A Re-Examination*, Economic and Political Weekly, September.
  - Rama Baru et al. 2010, *Inequities in Access to Health Services in India: Caste, Class and Region*, Economic and Political Weekly, September.
  - Geeta h. Kingdom, 2007, - *The Progress of School Education in India*, Oxford Review of Economic Policy.
  - J.B.G. Tilak, 2007, - *Post Elementary Education, Poverty and Development in India*, International Journal of Educational Development.
  - T. Dyson, 2008, - *India's Demographic Transition and its Consequences for Development* in Uma Kapila, editor, *Economy Since Independence*, 19<sup>th</sup> edition, Academic Foundation.
  - Kaushik Basu, 2009, - *China and India: Idiosyncratic Paths to High Growth*, Economic and Political Weekly, June.
  - K. James, 2008, - *Glorifying Malthus: Current Debate on Demographic Dividend in India*, Economic and Political Weekly, June.
  - Reetika Khera, 2011, 2011, - *India's Public Distribution System: Utilization and Impact* Journal of Development Studies.
  - Aniruddh Krishna and Devendra Bajpai, 2011, - *Lineal Spread and Radial Dissipation: Experiencing Growth in Rural India, 1992-2005*, Economic and Political Weekly, September.
  - Kaushik basu and A. maertens, eds, 2013, *The New Oxford Companion to Economics*, Oxford University oress.
  - Government of Jharkhand Economic Survey various issues.
-

**IV. CORE COURSE -C 12:**

(Credits: Theory-05, Tutorial-01)

**Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for  
Mid Semester Examination (MSE):***

*There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.*

***End Semester Examination (ESE):***

*There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**DEVELOPMENT ECONOMICS****Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

*The course begins with a discussion of alternative conception of development and their justification. It then proceeds to aggregate models of growth and cross-national comparisons of the growth experience that can help evaluate these models. The connections between growth and inequality are explored. The course ends by linking political institution to growth and inequality by discussing the role of the state in economic development and the informational and incentive problems that affect state governance.*

**Course Outline****1. Conceptions of development**

Alternative measures of development, HDI, GDI, GEM international comparisons

**2. Growth models and Empirics**

The Harrod-Domar model, the Solow and its variants, endogenous models and evidence on the determinations of growth

**3. Poverty and Inequality : Definitions, Measures and Mechanisms**

Inequality axioms; a comparison of commonly used inequality measure; connections between inequality and development; poverty measurement; characteristics of the poor; mechanisms that generate poverty traps and path dependence of growth processes.

**4. Role of Planning Commission, NITI Aayog and future of Planning****Readings:**

- Debraj Raj, Development Economics, Oxford University Press, 2009.
- Partha Dasgupta, Economics, A Very Short Introduction, Oxford University Press, 2007.
- Abhijit Banerjee, Roland Benabou and Dilip Mookerjee, Understanding Poverty, Oxford University Press 2006.
- Kaushik Basu, The oxford Companion to Economics in India, OUP, 2007.
- Amartya Sen, Development as Freedom, OUP, 2000.
- Daron Acemoglu and James Robinson, Economic Origins of Dictatorship and Democracy, Cambridge University Press, 2006
- Robert Putnam, Making Democracy Work; Civic Traditions in Modern Italy Princeton University Press, 1994.



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**SEMESTER VI**


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**4 Papers****Total 100 x 4 = 400 Marks**
**I. ECONOMICS SPECIFIC (DSE 3):** (Credits: Theory-05, Tutorial-01)  
**Either Group 'A' or 'B'**
**Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE) =40**
***Instruction to Question Setter for  
Mid Semester Examination (MSE):***

*There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.*

***End Semester Examination (ESE):***

*There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**DSE 3A. ELEMENTARY ECONOMETRICS**
**Theory: 75 Lectures; Tutorial:15 Lectures**
**Course Description**

*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.*

**Course Outline**
**1. Nature and Scope of Econometrics**
**2. Statistical Concepts**

Normal Distribution; ( $\psi^2$ ) chi-sq, t- and F – distribution; estimation of parameters; properties of estimators; testing of hypotheses: defining statistical hypotheses; distributions of test statistics; testing hypotheses related to population parameters; type I and II errors; power of a test; tests for comparing parameters from two samples.

**3. 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 and units of measurement; confidence intervals; Gauss-markov theorem; forecasting.

**4. 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 form of regression models; qualitative (dummy) independent variables.

**5. Violation of Classical Assumptions; Consequences, Detection and Remedies**

Multicollinearity; heteroscedasticity; serial correlation.

**6. Specification Analysis**

Omission of a relevant variable; inclusion of irrelevant variable; tests of specification errors.

**Basic Readings:**

- Jay L. Devore, probability and Statistics for Engineers. Cengage Learning, 2010.
- John. E freund, Mathematical Statistics, Prentice Hall, 1992
- Richard J. Larsen and Morris L. Marx, an Introduction to Mathematical Statistics and its Applications, Prentice Hall, 2011.
- D.N. Gujarati and D.C. Porter, Essentials of Econometrics, McGraw Hill 4<sup>th</sup> edition, International Edition, 2009.
- Christopher Dougherty, Introduction to Econometrics, Oxford University Press, 3<sup>rd</sup> edition, Indian edition, 2007

**OR****DSE 3B. AGRICULTURAL PROBLEMS OF INDIA****Theory: 75 Lectures; Tutorial:15 Lectures****1. Rural Economy of India**

Structure of Indian economy; place of agriculture in rural economy; composition of the Indian rural economy; Farm sector and non-farm sector; diversification of agriculture; agriculture and allied activities ( Fisheries, horticulture, floriculture); in India; its growth, problems and state policies, cattle wealth of India and dairying; rural industrialization : food processing and agro based industries; development of rural infrastructure.

**2. Development of Agriculture**

Role and important of agriculture in economic development: linkages between the agriculture sector and the non agriculture sector, changing nature of linkages; agricultural recourses in India: land utilization cropping pattern; irrigation in India, command area development and flood control; trends in agriculture growth and agriculture productivity; pattern of agricultural development: regional variation Agrarian relations, Land reforms and Agricultural Labor in India Agrarian relations, historical evolution. Land reforms program during post independence in India; Agricultural labor, characteristics and problems.

**3. Technological Changes in Agriculture**

Technological in agriculture; traditional techniques and practices; HYV seeds – fertilizer, water technology (green revolution); sustainable agriculture; emerging trends in agricultural technology; dry land farming; use of bio-technology techniques.

**4. State and Agriculture**

Agriculture finance in India; importance; types of requirements; sources; non-institutional and institutional; existing rural credit delivery system (multiagency approach); agricultural marketing in India; markets and marketing functions, channels of distribution of various commodities, regulated market and warehousing; role of cooperatives in agriculture.

Agriculture planning in India: decentralized planning and indicative planning; incentives in agriculture; price and non-price incentives; input subsidies; agriculture Price policies (APP), Nature of demand and supply of agricultural products, need for state intervention; objectives of APP instruments and evaluation; food security in India and public distribution system.

**Basic Readings:**

- Dutt, R. KPM Sundharam: Indian Economy
- Mishra, S.K.& V.K. Puri: Indian Economy
- Govt. of India: Economic Survey
- Mishra & Puri: Bhartiya Arthashastra

**II. ECONOMICS SPECIFIC (DSE 4):**

(Credits: Theory-05, Tutorial-01)

**Either Group 'A' or 'B'****Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for******Mid Semester Examination (MSE):***

*There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.*

*End Semester Examination (ESE): be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**DSE 4A. THEORY OF DEMOGRAPHY****Theory: 75 Lectures; Tutorial:15 Lectures****I. Introduction**

Population study and demography; its relation with other disciplines; Theories of population— Malthus, Optimum Theory of population and Theory of demographic transition; Historical Evidence of population growth in developed and developing countries, Demographic Characteristics of Developed and Under Developed countries.

**2. Sources of Demographic Data in India**

Sources of Demographic data in India; Census - civil registration system and demographic surveys, National Family Health Survey I and II — their relative merits and demerits.

**3. Health Survey****Techniques of Analysis**

Crude birth and death rates, age Specific birth and death rates; standardized birth and death rates - study of fertility; total fertility rate, gross reproduction rate and net reproduction rate; study of marital status — life table; meaning of its columns and its uses; reproductive and child health in India — temporal and spatial variation in sex ratios.

**4. Population Projection**

Techniques of population projection — concept of stationary, stable and quasi- stationary population; ageing of population in India — changes in family structure and old age security.

**5. Population Policy**

Salient feature of population census of 1971,1981,1991,2001 and2011; evolution of population policy in India; shift in policy focus from population control to family welfare and to women empowerment; demographic status and household behavior — education, women's autonomy and fertility - Population, health, poverty and environment linkage in India; the new population policy.

**Basic Readings:**

- 1.Agrawal U.D. (1999), Population Projections and Their Accuracy, B.R. Publishing Corporation, New Delhi
- 2. Bhende, A.A. and T.R. Kanitkar: Principles of Population Studies, Himalaya Publishing House Bombay.
- Bogue, D.G.: Principles of Demography

**OR****DSE 4B. ECONOMICS OF LABOUR****Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

*This paper exposes the students to theoretical as well as empirical issues of agricultural labor and industrial labor with special reference to India. In the process it covers issues pertaining the wage theories, employment policies, trade unions and collective bargaining to the globalised economy and social security measures.*

**1. Labor Economics and Labor Problems**

Meaning and concepts of labor – Definition, nature, scope and importance of Labor economics – Nature of labor Problems – labor market segmentation Labor in the unorganized sector – Child Labor – Industrial Labor Organization (ILO)

**2. Labor in India**

Meaning and characteristics of Industrial Labor in India – Employment in organized sector – Meaning and objectives of Trade Unions – trade Union movement in India – Problems and drawbacks of the movement in India – Measures to strengthen the Trade Union Movement in India – Industrial disputes: meaning and causes and effects of industrial disputes – prevention of Industrial disputes and the machinery of setting the Industrial Disputes in India – Labor Legislation in India- Indian Labor Laws and Practice in relation to international standards.

**3. Agriculture Labor in India**

Meaning and characteristics of agriculture labor in India, casual labor and attached labor and bonded labor – The problems of agriculture labor in India – Government measures to improve the conditions of agriculture labor – Employment in agriculture sector – marginalization minimum wages, NREGP.

**4. Wages**

Wage determination – classical, neo-classical and bargaining theories of wage determination- wage differentials in India – Asymmetric information and efficiency of labor markets in wage determination – productivity and wage relationship – non wage component of labor remuneration – types of wages in India – the need for State Regulation of wages – National Wage Policy and Wage Board in India.

**5. Social Security Measures of Labor in India**

The meaning and the need for social security measure in India – present status of social security in India – social assistance and social insurance – review and appraisal of State's policies with respect to social security and labor welfare in India – Social Security Legislations in India : Workmen's Compensation Act, 1923, Employees' State Insurance Scheme Act, 1948, Maternity Benefits Act, 1961 and the Provident Fund Act, 1952 – Labor Welfare funds – Unemployment insurance – Second National Commission on Labor (1999), Arjun Sengupta Committee report.

**Basic Reading**

- Dr. B. PThyagi (2009), Economics of labor and Social Welfare – Revised Edition Sage Publication, New Delhi
- 2.George .J.Borgas ;Lobor Economics
- Rechard .P.Chaykowski. Modern Lobor Economics

**III. CORE COURSE -C 13:**

(Credits: Theory-05, Tutorial-01)

**Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for  
Mid Semester Examination (MSE):***

*There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.*

***End Semester Examination (ESE):***

*There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**ENVIRONMENTAL ECONOMICS****Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

*This course introduces students to concepts, methods and policy options in managing the environment using tools of economic analysis. This course should be accessible to anyone with an analytical mind and familiarity with basic concepts of economics. The course will be useful for student aiming towards careers in the government sector, policy analysis, business, journalism and international organizations.*

**Course Outline****1. Introduction**

Key environmental issues and problems, economic way of thinking about these problems, basic concepts from economics; Pareto optimality and market failure in the presence of externalities; property rights and other approaches.

**2. The Design and Implementation of Environmental Policy**

Overview, Pigouvian taxes and effluent fees, tradable permits, implementation of environmental policies in India and international experience; transboundary environmental problems; economics of climate change.

**3. Environmental Valuation Methods and Applications**

Valuation of non-market goods and services-theory and practice; measurement methods; cost-benefit analysis of environmental policies and regulations.

**4. Sustainable Development**

Concepts; measurement; perspectives from Indian experience

**Basic Readings:**

- Roger Perman, Yue Ma, Michael Common, David Maddison and James McGilvaray "Natural Resource and Environmental Economics", Pearson Education/Addison Wesley, 4<sup>th</sup> edition, 2011
- Charles Kolstad, "Intermediate Environmental Economics", Oxford University Press, 2<sup>nd</sup> edition, 2010.
- Robert N. Stavins (ed.), "Economics of the Environment : Selected reading", W.W. Norton, 6<sup>th</sup> edition, 2012
- Robert Solow, "An Almost Practical Step toward Sustainability," Resources for the Future 40<sup>th</sup> anniversary lecture, 1992.
- Kenneth Arrow et al., "Are We Consuming Too Much?" Journal of Economic Perspectives, 18(3): 147-172, 2004.
- IPCC (Intergovernmental Panel on Climate Change), Fifth Assessment Report (forthcoming 2014)

**IV. CORE COURSE -C 14:**

(Credits: Theory-05, Tutorial-01)

**Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100****Pass Marks (MSE + ESE) =40*****Instruction to Question Setter for******Mid Semester Examination (MSE):***

*There will be two group of questions. Group A is compulsory and will contain five questions of very short answer type consisting of 1 mark each. Group B will contain descriptive type six questions of five marks each, out of which any four are to answer.*

***End Semester Examination (ESE):***

*There will be two group of questions. Group A is compulsory and will contain two questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2 will be short answer type of 5 marks. Group B will contain descriptive type six questions of fifteen marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**MONEY BANKING AND FINANCIAL MARKETS****Theory: 75 Lectures; Tutorial:15 Lectures****Course description**

*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. Financial and banking sector reforms and monetary policy with special reference to India are also covered.*

**Course Outline****1. Money**

Concept, functions, measurement; theories of money supply determination.

**2. Financial Institutions, Markets, Instruments and Financial Innovations**

- a) Role of financial markets and institutions; problem of asymmetric information – adverse selection and moral hazard; financial crises
- b) Money and capital markets: organization, structure and reforms in India; role of financial derivatives and other innovations.

**3. Banking System**

- (a) Balance sheet and portfolio management.
- (b) Indian banking system: Changing role and structure; banking sector reforms.

**4. Central Banking and Monetary Policy**

Functions, balance sheet; goals, indicators and instruments of monetary control; monetary management in an open economy; current monetary policy of India.

**Readings**

- F.S. Mishkin and S. G. Eakins, Financial Markets and institution, Pearson Education, 6 the edition, 2009.
- F. J. Fabozzi, f Modigliani, F. J. Jones, M. G. Ferri, Foundations of Financial markets and Institutions, Pearson Education, 3<sup>rd</sup> editin. 2009.
- L.M. Bhole and J. mahukud, financial Institutions and Markets, Tata McGraw Hill, 5<sup>th</sup> edition, 2011.
- M. Y. khan, Indian Financial System, Tata McGraw Hill, 7<sup>th</sup> edition, 2011.
- Various latest issues of R.B.I. Bulletins, Annual Reports, reports on Currency and Finance and Reports of the Working Group, IMF staff Papers.

COURSES OF STUDY FOR **GENERIC ELECTIVE 'B. A. Hons'** PROGRAMME IN  
"ECONOMICS"

**SEMESTER I****GENERIC ELECTIVE****1 Paper****Total 100 x 1 = 100 Marks****I. GENERIC ELECTIVE (GE 1)**

(Credits: Theory-05, Tutorial-01)

- All Four Generic Papers (One paper to be studied in each semester) of Economics to be studied by the Students of **Other than Economics Honours**.
- Students of **Economics Honours** must Refer Content from the **Syllabus of Opted Generic Elective Subject**.

**Marks : 100 (ESE 3Hrs) =100****Pass Marks Th ESE = 40***Instruction to Question Setter for**End Semester Examination (ESE):*

*There will be two group of questions. Group A is compulsory and will contain three questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2& 3 will be short answer type of 5 marks. Group B will contain descriptive type six questions of 20 marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**PRINCIPALS OF MICROECONOMICS****Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

*This Course intends to expose the student to the basic principles in Microeconomic Theory and illustrate with applications.*

**Course Outline****1. Introduction**

- a) Problem of scarcity and choice: scarcity, choice and opportunity cost; Production possibility frontier; economic systems.
- b) Demand and supply: law of demand, determinants of demand, shifts of Demand versus movements along a demand curve, market demand, and law of supply, Determinants of supply, shifts of supply versus movements along a supply Curve, market supply, and market equilibrium.
- c) Consumer surplus and producer surplus.
- d) Elasticity: price elasticity of demand, calculation of elasticity, determinants of price elasticity and other elasticities.

**2. Consumer Theory**

a) Budget constraint, concept of utility, diminishing marginal utility, Diamond Water paradox, income and substitution effects; consumer choice: indifference Curves, derivation of demand curve from indifference curve and budget constraint.

**3. Production and Costs**

a) Production: behavior of profit maximizing firms, production process, Production functions, law of variable proportions, choice of technology, isoquant and isocost lines, cost minimizing equilibrium condition.

b) Cost: costs in the short run, costs in the long run, revenue and Profit maximizations, minimizing losses, short run industry supply curve, Economies and diseconomies of scale, long run adjustments.

**4. Perfect Competition —**

a) Assumptions: theory of a firm under perfect competition, demand and Revenue; equilibrium of the firm in the short run and long run; long Run industry supply curve: increasing, decreasing and constant cost Industries.

**Basic Readings:**

- Case Karl E. & Ray C. Fair, Principles of Economics, Pearson Education, inc., 8<sup>th</sup> edition, and 2007.
  - Hal R. Varian, Intermediate Microeconomics, a Modern 8<sup>th</sup> edition, W.W. Norton and Company/Affiliated East-West Press (India), 2010. The Workbook by Varian and Bergstrom could be used for problems.
  - C.Snyder and W. Nicholson, Fundamentals of Microeconomics, engage Learning (India). 2010.
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**SEMESTER II****GENERIC ELECTIVE****1 Paper****Total 100 x 1 = 100 Marks**

(Credits: Theory-05, Tutorial-01)

**II. GENERIC ELECTIVE (GE 2)****Marks : 100 (ESE 3Hrs) =100****Pass Marks Th ESE = 40*****Instruction to Question Setter for******End Semester Examination (ESE):***

*There will be two group of questions. Group A is compulsory and will contain three questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2& 3 will be short answer type of 5 marks. Group B will contain descriptive type six questions of 20 marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**PRINCIPALS OF MACROECONOMICS      Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

*This course introduces the students of the basic concepts in Macroeconomics. Macroeconomics deals with the aggregate economy. In this course, the students are introduced the definition, measurement of the macroeconomic variables like GDP, consumption savings, investment and balance of payments. The course also discusses various theories of determining GDP in the short run.*

**Course Outline****1. Introduction**

What is macroeconomics? Macroeconomic issues in an economy.

**2. National Income Accounting**

Concepts of GDP, GNP, NDP and NNP: Measurement of national income, its limitation, nominal and real income.

**3. Keynesian theory of consumption and investment.**

Consumption function- meaning factors influencing consumption spending, concept of MPC, APC, MPS and APS, Investment function-meaning and factors affecting investment, Marginal efficiency of capital autonomous and induced investment, concept of multiplier.

**4. Money in Modern Economy**

Concept of money in modern economy and its functions; quantity theory money, cash transaction and cash balance approach, credit creation.

**Basic Readings:**

- Richard T.Froyen, Macroeconomics Theories and Policies, Published by Dorling Kindersley(India) 8<sup>th</sup> Ed.
- N. Gregory Mankiw, Macroeconomics, Worth publishers, 7<sup>th</sup> edition, 2010.
- Olivier Blanchard, Macroeconomics, Pearson Education, Inc., 5<sup>th</sup> edition, 2009.
- Steven M. Sheffrin, Rational expectations, Cambridge University Press, 2<sup>nd</sup> edition

**SEMESTER III****GENERIC ELECTIVE****1 Paper****Total 100 x 1 = 100 Marks**

(Credits: Theory-05, Tutorial-01)

**III. GENERIC ELECTIVE (GE 3)****Marks : 100 (ESE 3Hrs) =100****Pass Marks Th ESE = 40***Instruction to Question Setter for**End Semester Examination (ESE):*

*There will be two group of questions. Group A is compulsory and will contain three questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2& 3 will be short answer type of 5 marks. Group B will contain descriptive type six questions of 20 marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**INDIAN ECONOMY****Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

*Using appropriate analytical frameworks, this course reviews major trends in economic indicators and policy debates in India in the post-Independence period with particular emphasis on paradigm shifts and turning points.*

**Course Outline****1. Economic Development since Independence**

Major features of the economy at independence; growth and development under different policy regimes-goals, constraints, institutions and policy framework; an assessment of performance-sustainability and regional contrasts; structural change, savings and investment.

**2. Population and Human Development**

Demographic trends and issues; education; health and malnutrition

**3. Growth and Distribution**

Trends and policies in poverty; inequality and unemployment

**4 .Agriculture (Policies and Performance)**

Growth, Productivity, agrarian structure and technology, capital formation, pricing and procurement.

**5. Industry (Policies and Performance)**

Growth, productivity, diversification, small scale Industries, competition policy, foreign investment, Industrial Policy.

**Basic Readings**

- Jean Dreze and Amartya Sen, 2013. *An Uncertain Glory: India and its Contradictions*, Princeton University Press.
  - Pulapre Balakrishna, 2007, *The Recovery of India: Economic Growth in the Nehru Era*, Economic and Political Weekly November.
  - Rakesh Mohan, 2008,- *Growth Record of Indian Economy: 1950-2008. A Story of Sustained Savings and Investment*, Economic and Political Weekly, May.
  - S.L. Shetty, 2007, *India's Savings Performance since the Advent of Planning*, in K.L. Krishna and A. Vaidyanathan, editors, *Institutions and Markets in India's Development*.
  - Hlimanshu, 2010-*Towards New Poverty Lines for India*, Economics and Political Weekly, January.
  - Jean Dreze and Angus Deaton, 2009, - *Food and Nutrition in India : Facts and Interpretations*, Economic and Political Weekly, February.
  - Himanshu, 2011-*Employment Trends in India; A Re-examinations*, Economic and Political Weekly September.
  - Rama Baru et val, 2010-*Inequities in Access to Health Services in India: Caste, Class and Region*, Economic and Political Weekly, September.
  - Geeta G. Kingdon, 2007, - *The Progress of School Education in India*, Oxforx Review of Economic Policy.
  - J.B.G.Tilak 2007;: *Post Elementary Education, Poverty and Development in India*, International Journal of Educational Development .
  - T. Dyson, 2008, - *India's Demographic Transition and its Consequences for Development* in Uma Kapila, editor, *Indian Economic since Independence*, 19<sup>th</sup> edition, Academic Foundation.
  - Kaushik Basu, 2009,-*China and India; Idiosyncratic Paths to High Growth*, Economic and Political Weekly, September.
  - K. James, 2008 — *Glorifying Malthus : Current Debate on Demographic Dividend in India* Economic and Political Weekly, June.
  - Reetika Khera, 2011-*India's Public Distribution System: Utilization and Impact* Journal of Development Studies.
  - Aniruddha Krishna and Devendra bajpai, 2011-*Lineal Spread and Radial Dissipation: Experiencing Growth in Rural India, 1992-2005*, Economic and Political Weekly September.
  - Kaushik Basu and A. Maertens, eds, 2013, *Oxford Companion to Economics*. Oxford University Press.
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**SEMESTER IV****GENERIC ELECTIVE****1 Paper****Total 100 x 1 = 100 Marks**

(Credits: Theory-05, Tutorial-01)

**II. GENERIC ELECTIVE (GE 4)****Marks : 100 (ESE 3Hrs) =100****Pass Marks Th ESE = 40*****Instruction to Question Setter for******End Semester Examination (ESE):***

*There will be two group of questions. Group A is compulsory and will contain three questions. Question No.1 will be very short answer type consisting of ten questions of 1 mark each. Question No.2& 3 will be short answer type of 5 marks. Group B will contain descriptive type six questions of 20 marks each, out of which any four are to answer.*

*Note: There may be subdivisions in each question asked in Theory Examinations.*

**MONEY BANKING AND PUBLIC FINANCE****Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

*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. Financial and banking sector reforms and monetary policy with special reference to India are also covered.*

**Course Outline****I. Money**

Concept, functions, measurement; theories of money supply and determination.

**2. Financial Institutions, Markets, Instruments and Financial Innovations**

(a) Role of financial markets and institutions; financial crisis.

(b) Money and capital markets: organization, structure and reforms in India;

**3. Interest Rates**

Determination; source of interest rate differentials

**4. Indian banking system**

Changing role and structure; banking sector reforms.

**5. 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.

**6. Theory of Taxation**

Ability to pay, Benefit principle, Canons of taxation, shifting, Incidence and of Taxes.

7. Monetary and Fiscal policies, Direct-Tax, Indirect-Tax,(GST).Goods and Services Tax, Analysis of Budget.

**Basic Readings:**

- F.S. Mishkin and S.G. Eakins, Financial Markets and Institutions, Pearson Education, 6<sup>th</sup> edition, 2009.
  - F.J. Fabozzi, F. Modigliani, F.J. Jones, M.G. Ferri, Foundations of Financial Markets and Institutions, Pearson Education, 3<sup>rd</sup> Edition, 2009.
  - L.M. Bhole and J. Mahukud, Financial Institutions and markets, Tata McGraw Hill, 5<sup>th</sup> edition, 2011.
  - M.Y. Khan Indian Financial System, Tata McGraw Hill, 7<sup>th</sup> edition, 2011.
  - Various latest issues of RBI Bulletins, Annual reports, Reports on Currency and Finance and reports of the working group, IMF Staff papers.
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**SAMPLE CALCULATION FOR SGPA & CGPA FOR UNDERGRADUATE 'B.Sc./B.A./B.Com  
Honours & General' PROGRAMME**

**Distribution of Credits Semester wise for Undergraduate Honours Courses**

**Table B-1: UG (B.A./ B.Sc./B.Com. Hons. Programme)**

**Semester wise distribution of 140 Credits**

|              | <b>C.C</b> | <b>AECC</b> | <b>GE</b> | <b>SEC</b> | <b>DSE</b> | <b>Total credits</b> |
|--------------|------------|-------------|-----------|------------|------------|----------------------|
| Semester I   | 12         | 02          | 06        |            |            | 20                   |
| Semester II  | 12         | 02          | 06        |            |            | 20                   |
| Semester III | 18         |             | 06        | 02         |            | 26                   |
| Semester IV  | 18         |             | 06        | 02         |            | 26                   |
| Semester V   | 12         |             |           |            | 12         | 24                   |
| Semester VI  | 12         |             |           |            | 12         | 24                   |
|              | <b>84</b>  | <b>04</b>   | <b>24</b> | <b>04</b>  | <b>24</b>  | <b>140</b>           |

CC=Core Course; AECC=Ability Enhancement Compulsory Course; GE=Generic Elective; SEC=Skill Enhancement Course; DSE=Discipline Specific Elective

**Table B-2: UG (B.A./ B.Sc./B.Com. Programme)**

**Semester wise distribution of 120 Credits**

|              | <b>C.C</b> | <b>AECC</b> | <b>GE</b> | <b>SEC</b> | <b>DSE</b> | <b>Total credits</b> |
|--------------|------------|-------------|-----------|------------|------------|----------------------|
| Semester I   | 18         | 02          |           |            |            | 20                   |
| Semester II  | 18         | 02          |           |            |            | 20                   |
| Semester III | 18         |             |           | 02         |            | 20                   |
| Semester IV  | 18         |             |           | 02         |            | 20                   |
| Semester V   |            |             |           | 02         | 18         | 20                   |
| Semester VI  |            |             |           | 02         | 18         | 20                   |
|              | <b>72</b>  | <b>04</b>   |           | <b>08</b>  | <b>36</b>  | <b>120</b>           |

CC=Core Course; AECC=Ability Enhancement Compulsory Course; GE=Generic Elective; SEC=Skill Enhancement Course; DSE=Discipline Specific Elective

**Table B-3: Sample calculation for SGPA for B.Sc./B.A./B.Com Honours Programme**

| Course              | Credit     | Grade Letter | Grade Point | Credit Point<br>(Credit X Grade) | SGPA<br>(Credit<br>Point/Credit) |
|---------------------|------------|--------------|-------------|----------------------------------|----------------------------------|
| <b>Semester I</b>   |            |              |             |                                  |                                  |
| C-1                 | 06         | A            | 8           | 48                               |                                  |
| C-2                 | 06         | B+           | 7           | 42                               |                                  |
| AECC-1              | 02         | B            | 6           | 12                               |                                  |
| GE-1                | 06         | B            | 6           | 36                               |                                  |
| <b>Total</b>        | <b>20</b>  |              |             | <b>138</b>                       | <b>6.9 (138/20)</b>              |
| <b>Semester II</b>  |            |              |             |                                  |                                  |
| C-3                 | 06         | B            | 6           | 36                               |                                  |
| C-4                 | 06         | C            | 5           | 30                               |                                  |
| AECC-2              | 02         | B+           | 7           | 14                               |                                  |
| GE-2                | 06         | A+           | 9           | 54                               |                                  |
| <b>Total</b>        | <b>20</b>  |              |             | <b>134</b>                       | <b>6.7 (134/20)</b>              |
| <b>Semester III</b> |            |              |             |                                  |                                  |
| C-5                 | 06         | A+           | 9           | 54                               |                                  |
| C-6                 | 06         | O            | 10          | 60                               |                                  |
| C-7                 | 06         | A            | 8           | 48                               |                                  |
| SEC-1               | 02         | A            | 8           | 16                               |                                  |
| GE-3                | 06         | O            | 10          | 60                               |                                  |
| <b>Total</b>        | <b>26</b>  |              |             | <b>238</b>                       | <b>9.15 (238/26)</b>             |
| <b>Semester IV</b>  |            |              |             |                                  |                                  |
| C-8                 | 06         | B            | 6           | 36                               |                                  |
| C-9                 | 06         | A+           | 9           | 54                               |                                  |
| C-10                | 06         | B            | 6           | 36                               |                                  |
| SEC-2               | 02         | A+           | 9           | 18                               |                                  |
| GE-4                | 06         | A            | 8           | 48                               |                                  |
| <b>Total</b>        | <b>26</b>  |              |             | <b>192</b>                       | <b>7.38 (192/26)</b>             |
| <b>Semester V</b>   |            |              |             |                                  |                                  |
| C-11                | 06         | B            | 6           | 36                               |                                  |
| C-12                | 06         | B+           | 7           | 42                               |                                  |
| DSE-1               | 06         | O            | 10          | 60                               |                                  |
| DSE-2               | 06         | A            | 8           | 48                               |                                  |
| <b>Total</b>        | <b>24</b>  |              |             | <b>186</b>                       | <b>7.75 (186/24)</b>             |
| <b>Semester VI</b>  |            |              |             |                                  |                                  |
| C-13                | 06         | A+           | 9           | 54                               |                                  |
| C-14                | 06         | A            | 8           | 48                               |                                  |
| DSE-3               | 06         | B+           | 7           | 42                               |                                  |
| DSE-4               | 06         | A            | 8           | 48                               |                                  |
| <b>Total</b>        | <b>24</b>  |              |             | <b>192</b>                       | <b>8.0 (192/24)</b>              |
| <b>CGPA</b>         |            |              |             |                                  |                                  |
| <b>Grand Total</b>  | <b>140</b> |              |             | <b>1080</b>                      | <b>7.71 (1080/140)</b>           |

**Table B-4: Sample calculation for CGPA for B.Sc./B.A./B.Com Honours Programme**

| Semester I             | Semester II             | Semester III             | Semester IV              | Semester V               | Semester VI             |
|------------------------|-------------------------|--------------------------|--------------------------|--------------------------|-------------------------|
| Credit:20;<br>SGPA:6.9 | Credit:20;<br>SGPA: 6.7 | Credit:26;<br>SGPA: 9.15 | Credit:26;<br>SGPA: 7.38 | Credit:24;<br>SGPA: 7.75 | Credit:24;<br>SGPA: 8.0 |

Thus CGPA= (20x6.9+20x6.7+26x9.15+26x7.38+24x7.75+24x8.0)/140=7.71

**Table B-5: Sample calculation for SGPA for B.A./B.Sc./B.Com. Program**

| Course              | Credit     | Grade Letter | Grade Point | Credit Point<br>(Credit X Grade) | SGPA<br>(Credit Point/Credit) |
|---------------------|------------|--------------|-------------|----------------------------------|-------------------------------|
| <b>Semester I</b>   |            |              |             |                                  |                               |
| DSC - 1A            | 06         | B            | 6           | 36                               |                               |
| DSC - 2A            | 06         | B+           | 7           | 42                               |                               |
| DSC - 3A            | 06         | C            | 5           | 30                               |                               |
| AECC – 1            | 02         | B            | 6           | 12                               |                               |
| <b>Total</b>        | <b>20</b>  |              |             | <b>120</b>                       | <b>6.0 (120/20)</b>           |
| <b>Semester II</b>  |            |              |             |                                  |                               |
| DSC - 1B            | 06         | B            | 6           | 36                               |                               |
| DSC - 2B            | 06         | B            | 6           | 36                               |                               |
| DSC - 3B            | 06         | C            | 5           | 30                               |                               |
| AECC – 2            | 02         | A+           | 9           | 18                               |                               |
| <b>Total</b>        | <b>20</b>  |              |             | <b>120</b>                       | <b>6.0 (120/20)</b>           |
| <b>Semester III</b> |            |              |             |                                  |                               |
| DSC - 1C            | 06         | A            | 8           | 48                               |                               |
| DSC - 2C            | 06         | A+           | 9           | 54                               |                               |
| DSC - 3C            | 06         | A            | 8           | 48                               |                               |
| SEC – 1             | 02         | A            | 8           | 16                               |                               |
| <b>Total</b>        | <b>20</b>  |              |             | <b>166</b>                       | <b>8.3 (166/20)</b>           |
| <b>Semester IV</b>  |            |              |             |                                  |                               |
| DSC - 1D            | 06         | C            | 5           | 30                               |                               |
| DSC - 2D            | 06         | B            | 6           | 36                               |                               |
| DSC - 3D            | 06         | B+           | 7           | 42                               |                               |
| SEC - 2             | 02         | A+           | 9           | 18                               |                               |
| <b>Total</b>        | <b>20</b>  |              |             | <b>126</b>                       | <b>6.3 (126/20)</b>           |
| <b>Semester V</b>   |            |              |             |                                  |                               |
| DSE - 1A            | 06         | B            | 6           | 36                               |                               |
| DSE - 2A            | 06         | A+           | 9           | 54                               |                               |
| DSE - 3A            | 06         | A            | 8           | 48                               |                               |
| SEC – 3             | 02         | B            | 6           | 12                               |                               |
| <b>Total</b>        | <b>20</b>  |              |             | <b>150</b>                       | <b>7.5 (150/20)</b>           |
| <b>Semester VI</b>  |            |              |             |                                  |                               |
| DSE - 1B            | 06         | B+           | 7           | 42                               |                               |
| DSE - 1B            | 06         | B            | 6           | 36                               |                               |
| DSE - 1B            | 06         | C            | 5           | 30                               |                               |
| SEC - 4             | 02         | C            | 5           | 10                               |                               |
| <b>Total</b>        | <b>20</b>  |              |             | <b>118</b>                       | <b>5.9 (118/20)</b>           |
| <b>CGPA</b>         |            |              |             |                                  |                               |
| <b>Grand Total</b>  | <b>120</b> |              |             | <b>800</b>                       | <b>6.67 (800/120)</b>         |

**Table B- 6: Sample calculation for CGPA for B.A./B.Sc./B.Com. Program**

| Semester I              | Semester II             | Semester III            | Semester IV             | Semester V              | Semester VI             |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Credit:20;<br>SGPA: 6.0 | Credit:20;<br>SGPA: 6.0 | Credit:20;<br>SGPA: 8.3 | Credit:20;<br>SGPA: 6.3 | Credit:20;<br>SGPA: 7.5 | Credit:20;<br>SGPA: 5.9 |

Thus CGPA= (20x6.0+20x6.0+20x8.3+20x6.3+20x7.5+20x5.9)/120=6.67



## MARKS DISTRIBUTION FOR EXAMINATIONS AND FORMAT OF QUESTION PAPERS

**Marks Distribution of Mid Semester Theory Examinations:****Table No. C1:** Marks distribution of Theory Examinations of Mid Semester

| Topic    | Code | Full Marks | Pass Marks | Time | Group-A<br>(Very short answer type Compulsory Questions)<br>No. of Questions x Marks = F.M. | Group-B<br>(Descriptive Questions with Choices)<br>No. of Questions x Marks = F.M. | Total No. of Questions to Set |         |
|----------|------|------------|------------|------|---|--|-------------------------------|---------|
|          |      |            |            |      |   |  | Group A                       | Group B |
| Mid Sem* | T15  | 15         | 6          | 1 Hr | 5 x 1 =5  | 2 (out of 3) x 5 =10   | 5                             | 3       |
|          | T25  | 25         | 10         | 1 Hr | 5 x 1 =5  | 4 (out of 6) x 5 =20   | 5                             | 6       |

**Marks Distribution of End Semester Theory Examinations:****Table No. C2:** Marks distribution of Theory Examinations of End Semester

| Topic   | Code     | Full Marks | Pass Marks | Time  | Group-A#<br>(Very short answer type Compulsory Questions)<br>No. of Questions x Marks = F.M. | Group-B<br>(Descriptive Questions with Choices )<br>No. of Questions x Marks = F.M. | Total No. of Questions to Set |         |
|---------|----------|------------|------------|-------|--|---|-------------------------------|---------|
|         |          |            |            |       |  |   | Group A#                      | Group B |
| End Sem | T60      | 60         | 24         | 3 Hrs | Q.No.1 (10x1) + 1x5 =15  | 3 (out of 5) x 15 =45   | 2                             | 5       |
|         | T75      | 75         | 30         | 3 Hrs | Q.No.1 (10x1) + 1x5 =15  | 4 (out of 6) x 15 =60   | 2                             | 6       |
|         | T100     | 100        | 40         | 3 Hrs | Q.No.1 (10x1) + 2x5 =20  | 4 (out of 6) x 20 =80   | 3                             | 6       |
|         | T50 +T50 | 50X2=100   | 20         | 3 Hrs | 2 x 5 =10  | 2 (out of 3) x 20 =40   | 2                             | 3       |

# Question No.1 in Group-A carries 10 very short answer type 1 Mark Questions.

**Marks Distribution of Mid/End Semester Practical Examinations:****Table No. C3:** Marks distribution of Practical Examinations of End Semester

| Topic   | Code | Full Marks | Pass Marks | Time  | Distribution of Marks |        |      | Total No. of Questions to Set           |
|---------|------|------------|------------|-------|-----------------------|--------|------|---|
|         |      |            |            |       | Experiment            | Record | Viva |   |
| End Sem | P25  | 25         | 10         | 3 Hrs | 15                    | 5      | 5    |   |
|         | P50  | 50         | 20         | 3 Hrs | 30                    | 10     | 10   | Pr. with components of both papers      |
|         | P75  | 75         | 30         | 3 Hrs | 45                    | 15     | 15   | Pr. with components of all three papers |
|         | P100 | 100        | 40         | 3 Hrs | 60                    | 20     | 20   | Pr. with components of all four papers  |

**Abbreviations :** T= Theory Examination, P= Practical Examination.

**Mid Sem\*** : There will be 15 Marks Theory Examination in Practical Subjects and 25 Marks Theory Examination in Non-Practical Subjects/ Papers. 25 Marks Theory Examination may include 10 Marks questions from Assignment/ Project/ Tutorial where ever applicable.

**Note** : There may be subdivisions in each question asked in Theory Examinations.

## FORMAT OF QUESTION PAPER FOR MID SEM EXAMINATION

OF

SUBJECTS WITH PRACTICAL



## Ranchi University, Ranchi

Mid Sem No.Exam Year**Subject/ Code****F.M.** =15**Time**=1Hr.**General Instructions:**

समान्य निर्देश :

- i. **Group A** carries very short answer type compulsory questions.  
(खंड 'A' में अत्यंत लघु उत्तरीय अनिवार्य प्रश्न हैं।)
- ii. **Answer 2 out of 3** subjective/ descriptive questions given in **Group B**.  
(खंड 'B' के तीन में से किन्हीं दो विषयनिष्ठ/ वर्णनात्मक प्रश्नों के उत्तर दें।)
- iii. Answer in your own words as far as practicable.  
(यथासंभव अपने शब्दों में उत्तर दें।)
- iv. Answer all sub parts of a question at one place.  
(एक प्रश्न के सभी भागों के उत्तर एक साथ लिखें।)
- v. Numbers in right indicate full marks of the question.  
(पूर्णांक दायीं ओर लिखे गये हैं।)

**Group A**

1. .... [5x1=5]
2. ....
3. ....
4. ....
5. ....

**Group B**

6. .... [5]
7. .... [5]
8. .... [5]

**Note:** There may be subdivisions in each question asked in Theory Examination.

## FORMAT OF QUESTION PAPER FOR MID SEM EXAMINATION

OF

SUBJECTS WITHOUT PRACTICAL



## Ranchi University, Ranchi

Mid Sem No.Exam Year

**Subject/ Code**

**F.M.** =25**Time**=1Hr.

**General Instructions:**

समान्य निर्देश :

- i. **Group A** carries very short answer type compulsory questions.  
(खंड 'A' में अत्यंत लघु उत्तरीय अनिवार्य प्रश्न हैं।)
- ii. **Answer 4 out of 6** subjective/ descriptive questions given in **Group B**.  
(खंड 'B' के छः में से किन्हीं चार विषयनिष्ठ/ वर्णनात्मक प्रश्नों के उत्तर दें।)
- iii. Answer in your own words as far as practicable.  
(यथासंभव अपने शब्दों में उत्तर दें।)
- iv. Answer all sub parts of a question at one place.  
(एक प्रश्न के सभी भागों के उत्तर एक साथ लिखें।)
- v. Numbers in right indicate full marks of the question.  
(पूर्णांक दायीं ओर लिखे गये हैं।)

**Group A**

- |         |         |
|---------|---------|
| 1. .... | [5x1=5] |
| 2. .... |         |
| 3. .... |         |
| 4. .... |         |
| 5. .... |         |

**Group B**

- |          |     |
|----------|-----|
| 6. ....  | [5] |
| 7. ....  | [5] |
| 8. ....  | [5] |
| 9. ....  | [5] |
| 10. .... | [5] |
| 11. .... | [5] |

**Note:** There may be subdivisions in each question asked in Theory Examination.

## FORMAT OF QUESTION PAPER FOR END SEM EXAMINATION

OF

AECC NH + MB COMMUNICATION



## Ranchi University, Ranchi

End Sem No.Exam Year

**Subject/ Code**

**F.M.** =50**P.M.**=20**Time**=1.5Hrs.

**General Instructions:**

- i. **Group A** carries short answer type **compulsory** questions.  
(खंड 'A' में लघु उत्तरीय अनिवार्य प्रश्न हैं।)
- ii. **Answer 2 out of 3** subjective/ descriptive questions given in **Group B**.  
(खंड 'B' के तीन में से किन्हीं दो विषयनिष्ठ/ वर्णनात्मक प्रश्नों के उत्तर दें।)
- iii. Answer in your own words as far as practicable.  
(यथासंभव अपने शब्दों में उत्तर दें।)
- iv. Answer all sub parts of a question at one place.  
(एक प्रश्न के सभी भागों के उत्तर एक साथ लिखें।)
- v. Numbers in right indicate full marks of the question.  
(पूर्णांक दायीं ओर लिखे गये हैं।)

**Group A**

- |         |  |     |
|---------|--|-----|
| 1. .... |  | [5] |
| 2. .... |  | [5] |

**Group B**

- |         |  |      |
|---------|--|------|
| 3. .... |  | [20] |
| 4. .... |  | [20] |
| 5. .... |  | [20] |

**Note:** There may be subdivisions in each question asked in Theory Examination.

## FORMAT OF QUESTION PAPER FOR END SEM EXAMINATION

OF

SUBJECTS WITH PRACTICAL



## Ranchi University, Ranchi

End Sem No.Exam Year

**Subject/ Code**

**F.M.** =60**P.M.**=30 (Including Mid Sem)**Time**=3Hrs.**General Instructions:**

- i. **Group A** carries very short answer type **compulsory** questions.
- ii. **Answer 3 out of 5** subjective/ descriptive questions given in **Group B**.  
(खंड 'B' के पाँच में से किन्हीं तीन विषयनिष्ठ/ वर्णनात्मक प्रश्नों के उत्तर दें।)
- iii. Answer in your own words as far as practicable.  
(यथासंभव अपने शब्दों में उत्तर दें।)
- iv. Answer all sub parts of a question at one place.  
(एक प्रश्न के सभी भागों के उत्तर एक साथ लिखें।)
- v. Numbers in right indicate full marks of the question.  
(पूर्णांक दायीं ओर लिखे गये हैं।)

### Group A

- |    |            |           |
|----|------------|-----------|
| 1. |            | [10x1=10] |
|    | i. ....    | [10x1=10] |
|    | ii. ....   |           |
|    | iii. ....  |           |
|    | iv. ....   |           |
|    | v. ....    |           |
|    | vi. ....   |           |
|    | vii. ....  |           |
|    | viii. .... |           |
|    | ix. ....   |           |
|    | x. ....    |           |
| 2. | .....      | [5]       |

### Group B

- |    |       |      |
|----|-------|------|
| 3. | ..... | [15] |
| 4. | ..... | [15] |
| 5. | ..... | [15] |
| 6. | ..... | [15] |
| 7. | ..... | [15] |

**Note:** There may be subdivisions in each question asked in Theory Examination.

## FORMAT OF QUESTION PAPER FOR END SEM EXAMINATION

OF

SUBJECTS WITHOUT PRACTICAL



## Ranchi University, Ranchi

End Sem No.Exam Year

**Subject/ Code**

**F.M.** =75**P.M.**=40 (Including Mid Sem)**Time**=3Hrs.

**General Instructions:**

- i. **Group A** carries very short answer type **compulsory** questions.
- ii. **Answer 4 out of 6** subjective/ descriptive questions given in **Group B**.  
(खंड 'B' के छः में से किन्हीं चार विषयनिष्ठ/ वर्णनात्मक प्रश्नों के उत्तर दें।)
- iii. Answer in your own words as far as practicable.  
(यथासंभव अपने शब्दों में उत्तर दें।)
- iv. Answer all sub parts of a question at one place.  
(एक प्रश्न के सभी भागों के उत्तर एक साथ लिखें।)
- v. Numbers in right indicate full marks of the question.  
(पूर्णांक दायीं ओर लिखे गये हैं।)

**Group A**

1. [10x1=10]
- i. ....
  - ii. ....
  - iii. ....
  - iv. ....
  - v. ....
  - vi. ....
  - vii. ....
  - viii. ....
  - ix. ....
  - x. ....

2. .... [5]

**Group B**

3. .... [15]
4. .... [15]
5. .... [15]
6. .... [15]
7. .... [15]
8. .... [15]

**Note:** There may be subdivisions in each question asked in Theory Examination.

## FORMAT OF QUESTION PAPER FOR END SEM EXAMINATION

OF

GE, SEC, GENERAL &amp; AECC HINDI/ ENGLISH COMMUNICATION



## Ranchi University, Ranchi

End Sem No.Exam Year

**Subject/ Code**

**F.M.** =100

**P.M.**=40

**Time**=3Hrs.

**General Instructions:**

- i. **Group A** carries very short answer type **compulsory** questions.
- ii. **Answer 4 out of 6** subjective/ descriptive questions given in **Group B**.  
(खंड 'B' के छः में से किन्हीं चार विषयनिष्ठ/ वर्णनात्मक प्रश्नों के उत्तर दें।)
- iii. Answer in your own words as far as practicable.  
(यथासंभव अपने शब्दों में उत्तर दें।)
- iv. Answer all sub parts of a question at one place.  
(एक प्रश्न के सभी भागों के उत्तर एक साथ लिखें।)
- v. Numbers in right indicate full marks of the question.  
(पूर्णांक दायीं ओर लिखे गये हैं।)

**Group A**

- |    |            |           |
|----|------------|-----------|
| 1. |            | [10x1=10] |
|    | i. ....    |           |
|    | ii. ....   |           |
|    | iii. ....  |           |
|    | iv. ....   |           |
|    | v. ....    |           |
|    | vi. ....   |           |
|    | vii. ....  |           |
|    | viii. .... |           |
|    | ix. ....   |           |
|    | x. ....    |           |
| 2. | .....      | [5]       |
| 3. | .....      | [5]       |

**Group B**

- |    |       |      |
|----|-------|------|
| 4. | ..... | [20] |
| 5. | ..... | [20] |
| 6. | ..... | [20] |
| 7. | ..... | [20] |
| 8. | ..... | [20] |
| 9. | ..... | [20] |

**Note:** There may be subdivisions in each question asked in Theory Examination.