

# **COURSES OF STUDIES**

FOR

THREE YEAR DEGREE COURSE

IN

**ARTS HONOURS**

**ECONOMICS HONS**

**Choice Based Credit System(CBCS)**

First & Second Semester Examination – 2020-21

Third & Fourth Semester Examination – 2021-22

Fifth & Sixth Semester Examination – 2022-23



**GOVERNMENT AUTONOMOUS COLLEGE,  
PHULBANI, KANDHAMAL**

*Govt. Autonomous College, Phulbani*

## SYLLABI FOR CBCS COURSE

Sem	CORE COURSE (14)	Ability Enhancement Compulsory Course (AECC) (2)	Ability Enhancement Elective Course (AEEC) (2) (Skill Based)	Elective: Discipline Specific DSE (4)	Elective: Generic (GE) (4)
I	CORE-I	AECC-I			GE-IA
	CORE-II				
II	CORE-III	AECC-II			GE-1B
	CORE-IV				
III	CORE-V		SEC-I		GE-2A
	CORE-VI				
	CORE-VII				
IV	CORE-VIII		SEC-II		GE-2B
	CORE-IX				
	CORE-X				
V	CORE-XI			DSE-I	
	CORE-XII			DSE-II	
VI	CORE-XIII			DSE-III	
	CORE-XIV			DSE-IV / Project	

## YEAR & SEMESTER-WISE PAPERS & CREDITS AT A GLANCE

Three-Year (6-Semester) CBCS Programme (B.A. Hons) (Economics Hons.)				
Yr.	Sl.No.	Course Structure	Code	Credit Points
<b>FIRST YEAR</b>	<b>SEMESTER-I</b>			
	1	Introductory Microeconomics	C-1.1	6
	2	Mathematical Methods for Economics – I	C-1.2	6
	3	Anthropology/English/History/Political Science	GE-1.3	6
	4	MIL Communication – Odia / MIL (AE)	AECC-1.4	6
	<b>SEMESTER-II</b>			
	5	Introductory Macroeconomics	C-2.1	6
	6	Mathematical Methods for Economics – II	C-2.2	6
<b>SECOND YEAR</b>	7	Geography/Odia/Philosophy	GE-2.3	6
	8	EVS	AECC-2.4	6
	<b>SEMESTER-III</b>			
	9	Microeconomics – I	C-3.1	6
	10	Macroeconomics – I	C-3.2	6
	11	Statistical Methods for Economics	C-3.3	6
	12	Anthropology/English/History/Political Science	GE-3.4	6
	13	Communicative English	SECC-I-3.5	6
	<b>SEMESTER-IV</b>			
	14	Microeconomics – II	C-4.1	6
15	Macroeconomics – II	C-4.2	6	
16	Research Methodology	C-4.3	6	
17	Geography/Odia/Philosophy	GE-4.4	6	
18	Quantitative & Logical Thinking	SECC-II-4.5	6	
<b>FINAL YEAR</b>	<b>SEMESTER-V</b>			
	19	Indian Economy – I	C-5.1	6
	20	Development Economics – I	C-5.2	6
	21	Public Economics	DSE-5.3	6
	22	Introductory Econometrics / Odisha Economy	DSE-5.4	6
	<b>SEMESTER-VI</b>			
	23	Indian Economy – II	C-6.1	6
	24	Development Economics – II	C-6.2	6
25	Applied Econometrics / Environmental Economics	DSE-6.3	6	
26	Research Project / International Economics	DSE-6.4	6	

**Notes:**

- C- Core Course
- GE- Generic Elective Course
- DSE- Discipline Specific Elective Course
- AECC- Ability Enhancement Compulsory Course
- SECC- Skill Enhancement Compulsory Course
- For a 6 credit course, the total teaching hours are: Minimum- 50 Hours, Maximum-65 Hours

## SEMESTER-I

### C-1.1 : INTRODUCTORY MICROECONOMICS

Full Marks – 100  
Mid Sem – 20/1hr  
End Sem – 80/3 hrs

#### UNIT - I: Exploring the Subject Matter of Economics, Markets and Welfare

The Ten Principles of Economics: How people make decisions; Working of the economy as a whole; Thinking Like an Economist: The economist as Scientist – The scientific method: Observation, Theory and more observation; Role of Assumptions; Economic Models; Why economists disagree; Graphs in Economics- coordinate system, slope, straight line & curved line

The Market Forces; Markets and Competition; The Demand and Supply curves – Market Vs Individual demand curves, Shifts in Demand and Supply Curves; Market Equilibrium and changes there in; Price Elasticity of Demand – determinants and computation; Income and Cross Elasticity of Demand; The Price Elasticity of Supply – determinants and computation; Consumer and Producer Surplus

#### UNIT - II: Theory of Consumer Choice

The Budget Constraint; Preferences – representing preferences with indifference curves; Properties of Indifference Curves; Two extreme examples of indifference curves; Optimization – Equilibrium; Change in equilibrium due to changes in income, changes in price; Income and Substitution Effect; Derivation of Demand Curve; Three applications – Demand for Giffen goods, Wages and Labour Supply, Interest rate and Household saving

#### UNIT - III: The Firm and Market Structures

Cost concepts; Production and Costs; The various measures of cost – Fixed and Variable cost, Average and Marginal cost; Cost curves and their shapes; Costs in the short run and in the long run; Economies and diseconomies of scale. Firms in Competitive Markets – What is a competitive market; Profit maximization and the competitive firm's supply curve; The marginal cost curve and the firm's supply decision; Firm's short-run decision to shut down; Firm's long-run decision to exit or enter a market; The supply curve in a competitive market – short run and long run.

#### UNIT - IV: The Input Markets

The Demand for Labour – The production function and the marginal product of labour; Value of the marginal product of labour and demand for labour; Shifts in labour demand curve; The supply of labour – the trade-off between work and leisure; Shifts in the labour supply curve; Equilibrium in the Labour Market; Other factors of production: Land and Capital; Linkages among factors of production

#### Text Book :

1. Principles of Economics, Gregory N Mankiw, 6e Cengage Learning India Private Limited, New Delhi

#### Reference Book :

- ❖ Karl E. Case and Ray C. Fair (2007): *Principles of Economics*, 8th Edition, Pearson Education Inc.
- ❖ Pindyck, Robert and Daniel Rubinfeld (2018): *Microeconomics*, 9th Edition, Pearson Education Inc

### C-1.2 : MATHEMATICAL METHODS FOR ECONOMICS - I

Full Marks – 100  
Mid Sem – 20/1hr  
End Sem – 80/3 hrs

#### UNIT - I: Preliminaries and Functions of one Real Variable

Sets and set operations; Cartesian product; relations; functions and their properties; Number systems

Types of Functions- constant, polynomial, rational, exponential, logarithmic; Graphs and graphs of functions; Limit and Continuity of functions; Limit theorems

#### UNIT - II: Derivative of a Function

Rate of change and derivative; Derivative and slope of a curve; Continuity and differentiability of a function; Rules of differentiation for a function of one variable; Application- Relationship between total, average and marginal functions

#### UNIT - III: Functions of two or more Independent Variables

Partial differentiation techniques; Geometric interpretation of partial derivatives; Partial derivatives in Economics; Elasticity of a function – demand and cost elasticity, cross and partial elasticity

**UNIT - IV: Matrices and Determinants**

Matrices: concept, types, matrix algebra, transpose, inverse, rank; Determinants: concept, properties, solving problems using properties of determinants, solution to a system of equations - Cramer's rule and matrix inversion method

**Text Book :**

1. A. C. Chiang and K. Wainwright (2005): *Fundamental Methods of Mathematical Economics*, McGraw Hill International Edition.

**Reference Book :**

- ❖ K. Sydsaeter and P. J. Hammond (2002): *Mathematics for Economic Analysis*. Pearson Educational Asia

**GE-1.3 : INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY**

**Full Marks – 100**

**Mid Sem – 15/1hr**

**End Sem Theory – 60/3 hrs**

**End Sem Practical – 25/3 hrs**

**THEORY**

**UNIT - I :**

History of Physical Anthropology and development of Modern Biological anthropology, aim, scope and its relationship with allied disciplines; Difference in the approaches of modern and traditional Biological Anthropology

**UNIT - II :**

History and development of understanding human evolution (pre-19<sup>th</sup> and post-19<sup>th</sup> Century); Theories of evolution: Lamarckism, Darwinism, Synthetic theory, and Mutation theory

**UNIT - III :**

Primates: General Characteristics, Distribution and Classification of Non human living primates. Comparative anatomy and behaviour of human and non-human primates

**UNIT - IV :**

Structure and function of an animal cell; cell theory and cell division (Mitosis and Meiosis), Mendel's Laws of inheritance and its application to man

**PRACTICAL**

**Osteology**

Introduction to Anthropology Laboratory: Dry Lab and Wet Lab, Calibration and Standardization of Instruments, Demonstration of Instruments: Anthropometry, Spreading Calliper, Sliding Calliper, Weighing Machine and Steel tape

**Somatometry**

- |                         |                                |
|-------------------------|--------------------------------|
| 1. Stature              | 6. Maximum bizygomatic breadth |
| 2. Sitting height       | 7. Bigonial breadth            |
| 3. Body weight          | 8. Morphological facial height |
| 4. Maximum head length  | 9. Head circumference          |
| 5. Maximum head breadth | 10. Minimum frontal breadth    |

**Text book recommended :**

1. Shukla B.R.K. & Rastogi, S. 1990. *Physical Anthropology & Human Genetics: An Introduction*. Plaka Prakashan. Delhi.
2. Das B.M. 2008. *Outlines of Physical Anthropology*. Kitab Mahal, New Delhi.
3. Sarkar, R. M. 2004. *Fundamentals of Physical Anthropology* (New Edition). Book World. Kolkata.
4. Mukherji, D., D. Mukherjee and P. Bharti and A. Mukhopadhyaya. 2018. *Laboratory Manual for Biological Anthropology: Revised and Enlarged 2nd Edition*. SCHOLAR Booksellers & Publishers, Kolkata.

**Suggested Readings :**

- ❖ Jurmain R., Kilgore L., Trevathan W., Ciochon R.L. (2012). *Introduction to Physical Anthropology* Wadsworth Publ., USA.
- ❖ Stanford C., Allen J.S. and Anton S.C. (2010). *Exploring Biological Anthropology. The Essentials*. Prentice Hall Publ, USA.

## GE-1.3 : ACADEMIC WRITING AND COMPOSITION

Full Marks – 100  
Mid Sem – 20/1hr  
End Sem – 80/3 hrs

### **Introduction:**

*This paper seeks to train the students in the basic writing skills required for writing competently in the academic context.*

### **UNIT - I:**

Introduction to the Writing Process: with a focus on Academic Writing

### **UNIT - II:**

Writing in one's own words: Summarizing and Paraphrasing

### **UNIT - III:**

Thinking: Synthesis, Analysis, And Evaluation

### **UNIT - IV:**

Citing Resources: Editing, Book and Media Review

### **Reference Books:**

- ❖ Liz Hamp-Lyons and Ben Heasley, *Study Writing: A Course in Writing Skills for Academic Purposes* (Cambridge UP, 2006)
- ❖ Ilona Leki, *Academic Writing: Exploring Processes and Strategies*. New York: CUP, 2nd edn, 1998
- ❖ Stanley Fish, *How to Write a Sentence and How to Read One*. Harpar Perennial. 2011.
- ❖ *Literature and the art of Communication*, Cambridge University Press
- ❖ Gerald Graff and Cathy Birkenstein, *They Say/I Say: The Moves That Matter in Academic Writing*. New York: Norton, 2009

## GE-1.3 : HISTORY OF INDIA – I (EARLY TIME TO 1750)

Full Marks – 100  
Mid Sem – 20/1hr  
End Sem – 80/3 hrs

### **UNIT – I: Reconstructing Ancient Indian History**

1. Sources of Historical Writings.
2. Vedic Age : Society, Polity and Culture
3. Buddhism and Jainism : Principles and Impact

### **UNIT – II: Polity and Administration**

1. The Mauryan Empire : Conquest and Administration
2. Gupta Society : Land Grants, Peasantry and beginning of Feudal Society
3. Gupta Polity : Conquests and Administration
4. Harshavardhan : Achievements

### **UNIT – III: Early Medieval Society, Economy and Culture**

1. Post Gupta Trade and Commerce
2. Delhi Sultanate : Conquests and Administration
3. Bhakti and Sufi Movements in India
4. Development of Regional Language and Literature

### **UNIT – IV: India on the Eve of the Advent of the Mughals**

1. Sher Shah : Administration and Reforms
2. Mughal Administrative Institutions : Zabti, Mansab and Jagir
3. Religious Tolerance Sulh-i- Kul
4. Mughal Art and Architecture

### **Suggested Text Books:**

1. Upinder Singh, *History of Ancient & Early Medieval India*.
2. Romila Thappar, *The Early India*

### **Reference Reading:**

- ❖ Irfan Habib, *Medieval India*, NBT, New Delhi
- ❖ R.S. Sharma, *India's Ancient Past*
- ❖ S.A.A. Rizvi, *Wonder that was India*, Vol.II, Rupa
- ❖ *Cultural Heritage of India*, Bharatiya Vidyabhaban Series, Vol-1-IV
- ❖ A.L. Basheon (ed), *Cultural History of India*, OUP, New Delhi, 2011

## GE-1.3 : FEMINISM: THEORY AND PRACTICE

Full Marks – 100  
Mid Sem – 20/1hr  
End Sem – 80/3 hrs

**Introduction:** The aim of the course is to introduce students to contemporary debates on feminism and the history of feminist struggles. The course begins with a discussion on construction of gender and an understanding of complexity of patriarchy and goes on to analyze theoretical debates within feminism. It offers a gendered analysis of Indian society, economy and polity with a view to understanding the structures of gender inequalities. And the last section aims to understand the issues with which contemporary Indian women's movements are engaged with.

### UNIT-I: Understanding Feminism

- (i) Feminist theorizing of the sex/gender distinction; Public - Private Debate
- (ii) Understanding Patriarchy and Feminism

### UNIT-II: Theories of Feminism

- (i) Liberal and Socialist,
- (ii) Radical feminism and Eco-feminism

### UNIT-III: Feminist issues and women's participation: The Indian Experience

- (i) Women's participation in anti-colonial and national liberation movements with special focus on India
- (ii) Social Reforms Movement and position of women in India, History of Women's struggle in Post- Independent India

### UNIT-IV: Family in contemporary India and Understanding Woman's Work and Labour

- (i) Family in contemporary India - patrilineal and matrilineal practices. Gender Relations in the Family, Patterns of Consumption: Intra Household Divisions, entitlements and bargaining, Property Rights
- (ii) Understanding Woman's Work and Labour – Sexual Division of Labour, Productive and Reproductive labour, Visible - invisible work – Unpaid (reproductive and care), Underpaid and Paid work,- Methods of computing women's work , Female headed households

### Text Books :

1. Bina Agarwal, (2013) 'Gender And Green Governance', Oxford University Press, Oxford,
2. Forbes, Geraldine (1998) 'Women in Modern India'. Cambridge, Cambridge University Press
3. Geetha, V. (2002) 'Gender'. Calcutta, Stree Publications.
4. Geetha, V. (2007) 'Patriarchy'. Calcutta, Stree Publications.
5. Jagger, Alison. (1983) 'Feminist Politics and Human Nature'. U.K, Harvester Press.
6. John, Mary(2008) 'Women studies in India: A Reader', Peguin, New Delhi
7. Lerner, Gerda. (1986) 'Creation of Patriarchy'. New York. Oxford University Press.

### Reference Books :

- ❖ Banarjee, Sikata. (2007) 'Ghadijally, Rehana. (ed.) 'Urban Women in Contemporary India: A Reader'. New Delhi, Sage.
- ❖ Chakravarti, Uma. (1988) 'Beyond the Altekarian Paradigm: Towards a New Understanding of Gender Relations in Early Indian History', Social Scientist, Volume 16, No. 8.
- ❖ Desai, Neera & Thakkar, Usha. (2001) 'Women in Indian Society'. New Delhi: National Book Trust.
- ❖ Gandhi, Nandita & Shah, Nandita. (1991) 'Contemporary Women's Movement in India'. Delhi, Zubaan.
- ❖ Gupta, A and Sinha Smita, (2005) 'Empowerment of women: Language and Other Facets', Mangal Deep, New Delhi.
- ❖ Jayawardene, Kumari. (1986) 'Feminism and Nationalism in the Third World'. London, Zed Books and Conclusion.
- ❖ Nayak, Smita (2016) (eds.) 'Combating Violence Against Women: A Reality in the Making', Kalpaz, Gyan Books Pvt, Ltd, New Delhi
- ❖ Nayak, Smita (2016) (eds.) 'Gender Dynamics: The Emerging Frontiers', Research India Publications, New Delhi.
- ❖ Nayak, Smita, (2016), 'Whither Women: A Shift from Endowment to Empowerment', Edupedia, New Delhi.
- ❖ Rege, Sharmila. (2003) (ed.) 'The Sociology of Gender: The Challenge of Feminist Sociological Knowledge'. New Delhi, Sage.
- ❖ Rowbotham, Shiela. (1993) 'Women in Movements', New York and London, Routledge.
- ❖ Sangari, Kumkum & Chakravarty, Uma. (1999) (eds.) 'From Myths to Markets: Essays on Gender'. Delhi, Manohar.
- ❖ Sarkar, Tanika & Butalia, Urvashi. (1995) (eds.) 'Women and the Hindu Right'. Delhi, Kali for Women.



**AECC – 1.4 : MIL COMMUNICATIONS – ODIA**

(ଯୋଗାଯୋଗ ଅନୁବିଧି, ରୀତି ଓ ମାଧ୍ୟମ)

**Full Marks – 100**  
**Mid Sem – 20/1hr**  
**End Sem – 80/3 hrs**

**୧ମ ଏକକ / ୟୁନିଟ୍ – ୧ :**

ଯୋଗାଯୋଗର ପରିଭାଷା, ଅନୁବିଧି, ପରିସର ଓ ପ୍ରକାରଭେଦ

**୨ୟ ଏକକ / ୟୁନିଟ୍ – ୨ :**

ସାକ୍ଷାତକାର, ଭାଷଣ କଳା

**୩ୟ ଏକକ / ୟୁନିଟ୍ – ୩ :**

ସମ୍ବାଦର ପରିଭାଷା ଓ ସମ୍ବାଦ ପ୍ରସ୍ତୁତି

**୪ର୍ଥ ଏକକ / ୟୁନିଟ୍ – ୪ :**

ଓଡ଼ିଆ ଭାଷାର ବର୍ଣ୍ଣମାଳା, ବର୍ଣ୍ଣାଶୁଦ୍ଧିର ନିରାକରଣ । (ବନାନ ତୁଟି – ସାଦୃଶ୍ୟଜନିତ ଅଶୁଦ୍ଧି, ଲିଙ୍ଗଗତ ଅଶୁଦ୍ଧି, ସନ୍ଧିଗତ ଅଶୁଦ୍ଧି, ସମାସଗତ ଅଶୁଦ୍ଧି, ବଚନ ଓ ବିଭକ୍ତିଗତ ଅଶୁଦ୍ଧି, ବାକ୍ୟ ବିଧିଜନିତ ଅଶୁଦ୍ଧି, ସମାର୍ଥବୋଧକ ଶବ୍ଦାଶୁଦ୍ଧି, ପ୍ରତ୍ୟୟ ଜନିତ ଅଶୁଦ୍ଧି, ଶବ୍ଦ ସଂଯୋଗାତ୍ମକ ଓ ସ୍ଵରସଙ୍ଗତି ଜନିତ ଅଶୁଦ୍ଧି)

**ସହାୟକ ଗ୍ରନ୍ଥସୂଚୀ :**

୧. ଯୋଗାଯୋଗ ମୂଳକ ମାତୃଭାଷା (ଓଡ଼ିଆ) – ସାମଲ ବିରଞ୍ଚି ନାରାୟଣ, ସତ୍ୟନାରାୟଣ ବୁକ୍ ଷୋର, କଟକ
୨. ସଂଯୋଗ ଅନୁବିଧି – ସତ୍ୟୋଷ କୁମାର ତ୍ରିପାଠୀ, ନାଳନ୍ଦା, କଟକ
୩. ଭାଷଣ କଳା ଓ ଅନ୍ୟାନ୍ୟ ପ୍ରସଙ୍ଗ – କୃଷ୍ଣଚନ୍ଦ୍ର ପ୍ରଧାନ, ସତ୍ୟନାରାୟଣ ବୁକ୍ ଷୋର, କଟକ
୪. ପ୍ରାୟୋଗିକ ଓଡ଼ିଆ ଭାଷା – ଓଡ଼ିଶା ରାଜ୍ୟପାଠ୍ୟ ପୁସ୍ତକ ପ୍ରଣୟନ ଓ ପ୍ରକାଶନ ସଂସ୍ଥା, ଭୁବନେଶ୍ଵର
୫. ସମ୍ବାଦ ଓ ସାମ୍ବାଦିକତା – ଚନ୍ଦ୍ରଶେଖର ମହାପାତ୍ର, ଓଡ଼ିଶା ରାଜ୍ୟ ପାଠ୍ୟପୁସ୍ତକ ପ୍ରଣୟନ ଓ ପ୍ରକାଶନ ସଂସ୍ଥା, ଭୁବନେଶ୍ଵର
୬. ନିର୍ଭୁଲ ଲେଖାର ମୂଳସୂତ୍ର – ନୀଳାଦିଭୂଷଣ ହରିଚନ୍ଦନ, ପି.ସି.ଆର ପବ୍ଲିକେସନ, ଭୁବନେଶ୍ଵର
୭. ସର୍ବସାର ବ୍ୟାକରଣ – ନାରାୟଣ ମହାପାତ୍ର ଓ ଶ୍ରୀଧର ଦାସ, ନିୟୁ ଷ୍ଟୁଡେଣ୍ଟସ୍ ଷୋର, କଟକ

**ମୂଲ୍ୟ ବିଭାଜନ ପଦ୍ଧତି : (ସବୁଥିରୁ ବିକଳ ପଡ଼ିବ)**

(କ) ପଢ଼ର ମୋଟ ନମ୍ବର – ୧୦୦

(ଖ) ଅନ୍ତଃପରୀକ୍ଷା – ୨୦ ଓ ମୁଖ୍ୟ ପରୀକ୍ଷା – ୮୦

(ଗ) ନିର୍ଦ୍ଧାରିତ ପାଠ୍ୟର ସବୁ ଏକକ(ୟୁନିଟ୍)ରୁ ବିକଳସହ ଦୁଇଟି ଲେଖାଏଁ ମୋଟ ୮ଟି ୧୫ନମ୍ବର ବିଶିଷ୍ଟ ଦୀର୍ଘ ପ୍ରଶ୍ନ ପଡ଼ିବ । ବିଦ୍ୟାର୍ଥୀଙ୍କୁ ୪ଟି ପ୍ରଶ୍ନର ଉତ୍ତର ଦେବାକୁ ହେବ । (୧୫ x ୪ = ୬୦)

(ଘ) ନିର୍ଦ୍ଧାରିତ ପାଠ୍ୟର ସବୁ ଏକକରୁ ୧୨ଟି ଅତିସଂକ୍ଷିପ୍ତ ପ୍ରଶ୍ନ ପଡ଼ିବ । ସେଥିରୁ ୧୦ଟି ପ୍ରଶ୍ନର ଉତ୍ତର ଦେବାକୁ ହେବ । (୧୦ x ୨ = ୨୦)

**AECC-1.4 : MIL (ALTERNATIVE ENGLISH)**

**Full Marks – 100**  
**Mid Sem – 20/1hr**  
**End Sem – 80/3 hrs**

**Introduction:**

The paper is focused upon developing one fundamental skills of Language learning; reading which needs a thorough rethink and revision. In order to build a strong base for acquisition of the communication skills, suitable reading content is selected from diverse areas in prose form. This would boost the learner's competence in expressive and comprehension skills. The well researched language exercises in the form of usage, vocabulary and grammar is the other area that should attract the teacher and learner to work out for giving decent shape to the mastery of English language.

**UNIT - I: Short Story**

- a. Jim Corbett-The Fight between Leopards
- b. Dash Benhur- The Bicycle
- c. Dinanath Pathy- George V High School
- d. Alexander Baron- The Man who knew too much
- e. Will F Jenkins- Uneasy Homecoming

**UNIT - II: Prose**

- a. Mahatma Gandhi- The way to Equal Distribution
- b. S Radhakrishnan- A Call to Youth
- c. C V Raman-Water- The Elixir of Life
- d. Harold Nicolson- An Educated Person
- e. Claire Needell Hollander- No Learning without Feeling

**UNIT - III:**

Comprehension of a passage and answering the questions

**UNIT - IV:**

Language exercises-test of vocabulary, usage and grammar

**Text Books:**

1. All Stories and Prose pieces

**Reference Books:**

- ❖ *The Widening Arc: A Selection of Prose and Stories*, Ed. A R Parhi, S Deepika, P Jani, Kitab Bhavan, Bhubaneswar.
- ❖ *A Communicative Grammar of English*, Geoffrey Leech.
- ❖ *A University Grammar of English*, Randolph Quirk and Sidney Greenbaum
- ❖ *Developing Reading Skills*. F. Grellet. Cambridge: Cambridge University Press, 1981.

**SEMESTER-II**

**C-2.1 : INTRODUCTORY MACROECONOMICS**

**Full Marks – 100**  
**Mid Sem – 20/1hr**  
**End Sem – 80/3 hrs**

**UNIT - I: Basic Concepts in Macroeconomics**

Macro vs. Micro Economics; Limitations of Macroeconomics; Stock and Flow variables, Equilibrium and Disequilibrium, Partial and General Equilibrium Statics – Comparative Statics and Dynamics; National Income Concepts – GDP, GNP, NDP and NNP at market price, factor cost, real and nominal; Disposable personal Income.

**UNIT - II: Measurement of Macroeconomic Variables**

Output, Income and Expenditure Approaches; Difficulties of Estimating National Income; National Income Identities in a simple 2-sector economy and with government and foreign trade sectors; Circular Flows of Income in 2, 3 and 4-sector economies; National Income and Economic Welfare; Green Accounting.

**UNIT - III: Money and Changes in its Value**

Evolution and Functions of Money, Quantity Theory of Money – Cash Transactions, Cash Balances and Keynesian Approaches, Value of Money and Index Number of Prices Inflation – Meaning, Causes, and Anti-Inflationary Measures; Classical, Keynesian, Monetarist and Modern Theories of Inflation, Inflationary Gap, Deflation-Meaning, Causes, and Anti-Deflationary Measures, Depression and Stagflation; Inflation vs. Deflation.

**UNIT - IV: Determination of National Income**

The Classical Approach - Say's Law, Theory of Determination of Income and Employment with and without saving and Investment; Basics of Aggregate Demand and Aggregate Supply and Consumption-Saving- Investment Functions, The Keynesian Approach- Basics of Aggregate Demand and Aggregate Supply and Consumption, Saving, Investment Functions; The Principle of Effective Demand; Income Determination in a Simple 2-Sector Model; Changes in Aggregate Demand and Income- The Simple Investment Multiplier

**Text Book:**

1. N. Gregory Mankiw (2010): *Macroeconomics*, 7th edition, Cengage Learning India Private Limited, New Delhi

**Reference Book:**

- ❖ Richard T. Froyen (2005): *Macroeconomics*, 2nd Edition, Pearson Education Asia, New Delhi.

**C-2.2 : MATHEMATICAL METHODS FOR ECONOMICS - II**

**Full Marks – 100**  
**Mid Sem – 20/1hr**  
**End Sem – 80/3 hrs**

**UNIT - I: Linear models:**

Input- Output Model: Basic concepts and structure of Leontief's open and static Input-Output model; Solution for equilibrium output in a three industry model; The closed model.

**UNIT - II: Second and Higher Order Derivatives and Integration:**

Technique of higher order differentiation; Interpretation of second derivative; Second order derivative and curvature of a function; Concavity and convexity of functions; Points of inflection, Derivative of Implicit Function; Higher Order Partial Derivative.

Indefinite Integrals; Rules of Integration; Techniques of Integration: Substitution Rule, Integration by parts, and Partial Fractions; Definite Integral – Area Interpretation.

**UNIT - III: Single and Multivariable Optimization:**

Optimum values and extreme values; Relative maximum and minimum; Necessary versus sufficient conditions - First and Second derivative tests (using Hessian Determinants); Economic applications thereof, First and second order condition for extrema of multivariable functions; Convex functions and convex sets.

**UNIT - IV: Optimization with Equality Constraints:**

Effects of a constraint; Finding stationary value – Lagrange-Multiplier method (Two variable single constraint case only): First and second order condition; The Bordered Hessian determinant.

**Text Book:**

1. A. C. Chiang and K. Wainwright (2005): *Fundamental Methods of Mathematical Economics*, McGraw Hill International Edition.

**Reference Book:**

- ❖ K. Sydsaeter and P. J. Hammond (2002): *Mathematics for Economic Analysis*. Pearson Educational Asia

**GE-2.3 : GEOGRAPHY OF INDIA**

**Full Marks – 100**  
**Mid Sem – 15/1hr**  
**End Sem Theory – 60/3 hrs**  
**End Sem Practical – 25/3 hrs**

**THEORY**

**UNIT - I:**

Physiographic Divisions of India, soil and vegetation, climate (characteristics and classification)

**UNIT - II:**

Population: Distribution and growth, Demographic structure, Distribution of population by race, religion, language and tribes, urbanisation

**UNIT - III:**

Mineral and power resources: distribution and utilisation of iron ore, coal, Petroleum, Natural gas, Nuclear Minerals: Irrigation, Cropping pattern, Production & distribution of rice, wheat, Tea, Coffee

**UNIT - IV:**

Industrial development: Iron and steel, Aluminum, Automobile and Information technology Transport in India: Road, Rail and Airways, Waterways

**PRACTICAL**

1. Study and interpretation of topographic Maps
2. Cartograms – Pair-Bar diagram, complex bar, wheel diagram
3. Maps drawing – Simple dot maps, Multiple dot maps
4. Practical record and viva-voce

**Text Books:**

1. Sharma, T.C. (2013) Economic Geography of India. Rawat Publication, Jaipur
2. Khullar, D. R. India: A Comprehensive Geography

**Reading List:**

- ❖ Deshpand C. D., 1992: India: A Regional Interpretation, ICSSR, New Delhi
- ❖ Johnson, B. L.C., ed. 2001. Geographical Dictionary of India, Vision Books, New Delhi
- ❖ Sdyasuk Galina and P. Sengupta (1967): Economic Regionalisation of India, Census of India

**GE-2.3 : ସାହିତ୍ୟ ଅଧ୍ୟୟନ**

**Full Marks – 100  
Mid Sem – 20/1hr  
End Sem – 80/3 hrs**

**୧ମ ଏକକ / ୟୁନିଟ୍ – ୧ : ଗଞ୍ଜ ସାହିତ୍ୟ**

ରେବତୀ – ଫକୀର ମୋହନ ସେନାପତି

ବୁଢ଼ା ଶଙ୍ଖାରି – ଲକ୍ଷ୍ମୀକାନ୍ତ ମହାପାତ୍ର

ଶିକାର – ଭଗବତୀ ଚରଣ ପାଣିଗ୍ରାହୀ

**୨ୟ ଏକକ / ୟୁନିଟ୍ – ୨ : ଉପନ୍ୟାସ ସାହିତ୍ୟ**

ଶାସ୍ତି – କାହ୍ନୁଚରଣ ମହାନ୍ତି, ଫ୍ରେଣ୍ଡ୍‌ସ୍ ପବ୍ଲିଶର୍ସ, କଟକ

**୩ୟ ଏକକ / ୟୁନିଟ୍ – ୩ : ନାଟକ**

ଶେଷ କଥା – ଡକ୍ଟର ନାରାୟଣ ସାହୁ, ସତ୍ୟନାରାୟଣ ବୁକ୍ ଷୋର, କଟକ

**୪ର୍ଥ ଏକକ / ୟୁନିଟ୍ – ୪ : ରମ୍ୟ ରଚନା**

ବାଇ ମହାନ୍ତି ପାଞ୍ଜି (ପ୍ରଥମ ବିଡ଼ା) – ଗୋପାଳ ଚନ୍ଦ୍ର ପ୍ରହରାଜ

ବରୁଆ – ଗୋବିନ୍ଦ ତ୍ରିପାଠୀ

ସାଧୁ ସଙ୍ଗ – ଚୌଧୁରୀ ହେମକାନ୍ତ ମିଶ୍ର

**ସହାୟକ ଗ୍ରନ୍ଥସୂଚୀ :**

୧. କାହ୍ନୁଚରଣ ବିଶେଷାଙ୍କ, କୋଣାର୍କ, ଓଡ଼ିଶା ସାହିତ୍ୟ ଏକାଡେମୀ

୨. ଓଡ଼ିଆ କ୍ଷୁଦ୍ରଗଞ୍ଜର ଇତିହାସ – ବୈଷ୍ଣବ ଚରଣ ସାମଲ, ଫ୍ରେଣ୍ଡ୍‌ସ୍ ପବ୍ଲିଶର୍ସ, କଟକ

୩. ଓଡ଼ିଆ କଥାସାହିତ୍ୟର କଥା ଓ ରମ୍ୟରଚନା – ମହାପାତ୍ର ନୀଳମଣି ସାହୁ, ଓଡ଼ିଶା ବୁକ୍ ଷୋର, କଟକ

୪. ଶାସ୍ତି – କାହ୍ନୁଚରଣ ମହାନ୍ତି, ଫ୍ରେଣ୍ଡ୍‌ସ୍ ପବ୍ଲିଶର୍ସ, କଟକ

୫. ଉପର ସତୁରୀ ଓଡ଼ିଆ ନାଟକ – ହେମନ୍ତ କୁମାର ଦାସ, ଗ୍ରନ୍ଥମନ୍ଦିର, କଟକ

୬. ଶେଷ କଥା – ନାରାୟଣ ସାହୁ, ସତ୍ୟନାରାୟଣ ବୁକ୍ ଷୋର, କଟକ

## GE-2.3 : INDIAN PHILOSOPHY

Full Marks – 100  
Mid Sem – 20/1hr  
End Sem – 80/3 hrs

### UNIT – I:

Salient features of Indian philosophy, Carvaka epistemology and metaphysic, Jainism Syadvada and Anekantavada

### UNIT – II:

Buddhism- The Four Noble Truths, Doctrine of Dependent origination, No Soul Theory, Nirvana

### UNIT – III:

Samkhya- Purusa, Prakriti, Theory of causation Yoga- Astanga Yoga

### UNIT – IV:

Nyaya- Theory of Inference, Vaisheshika- Padarthas (Categories)

#### **Prescribed Books:**

1. Dutta and Chatterjee: An Introduction to Indian Philosophy

#### **Books for Reference:**

- ❖ C.D Sharma: A critical Survey of Indian Philosophy
- ❖ G.C Nayak: Bharatiya Darshana (Odia)
- ❖ B.B. Choudhury: Bharatiya Darshana Ruparekha (Odia Translated book)

## AECC-2.4 : ENVIRONMENTAL STUDIES

Full Marks – 100  
Mid Sem – 20/1 hr  
End Sem – 80/3 hrs

### UNIT – I

The Environment: The Atmosphere, Hydrosphere, Lithosphere, Biosphere, Ecology, Ecosystem, Biogeochemical Cycle (Carbon Cycle, Nitrogen Cycle), Environment Pollution: Air Pollution, Water Pollution, Soil Pollution, Radiation Pollution

### UNIT – II

Population Ecology: Individuals, Species, Pollution, Community, Control Methods of Population, Urbanization and its effects on Society, Communicable Diseases and its Transmission, Non-Communicable Diseases

### UNIT – III

Environmental Movements in India: Grass root Environmental movements in India, Role of women, Environmental Movements in Odisha, State Pollution Control Board, Central Pollution Control Board

### UNIT – IV

Natural Resources: Conservation of Natural Resources, Management and Conservation of Wildlife, Soil Erosion and Conservation, Environmental Laws: Water Act, 1974, Air Act, 1981, The Wildlife (Protection) Act, 1972, Environment Protection, 1986, Natural Disasters and their Management

#### **Books Recommended:**

- ❖ Dash MC and Mishra PC, Man and Environment, McMillan, London.
- ❖ Mishra PC and Das MC, Environment and Society, McMillan, London.
- ❖ Odeem EP, Fundamentals of Ecology, Natraj Publication.
- ❖ Mishra DD, Fundamental Concept in Environmental Studies, S. Chand, New Delhi.
- ❖ Asthana DK and Asthana Meera, A Text book of Environmental Studies, S. Chand, New Delhi.
- ❖ Bharuach Erach, Textbook for Environmental Studies, Universities Press India Pvt. Ltd., Hyderabad.

## SEMESTER-III

### C-3.1 : MICROECONOMICS - I

Full Marks – 100  
Mid Sem – 20/1hr  
End Sem – 80/3 hrs

#### UNIT - I: Consumer Theory I

Preferences and Utility, Axioms of Rational Choice, Utility, Trades and Substitutions, Indifference curves; Mathematics of Indifference curves, Utility functions for specific preferences, the many good case; Utility Maximization and choice: the 2-good case (graphical analysis), the n-good case, Indirect utility function, the Lump sum principle, Expenditure minimization, properties of expenditure function.

#### UNIT - II: Consumer Theory II

The Income and Substitution Effects: Demand function, changes in income, changes in a goods price- Direct and Indirect Approaches (Slutsky), the Individual's Demand Curve, Compensated (Hicksian) demand curves and functions, demand elasticity, Consumer Surplus, Demand relationships among goods, the 2-good case, substitutes and complements, Net (Hicksian) substitutes, and Complements, Substitutability with many goods.

#### UNIT - III: Production Theory and Costs

Production Functions: Marginal productivity, Production with One Variable Input (labour) and with Two-Variable Inputs, Isoquant Maps and the Rate of Technical Substitution, Returns to Scale, Elasticity of Substitution, Some Simple Production Functions: Linear, Fixed Proportions, Cobb-Douglas; Technical Progress.

Definition of Cost and its properties, Cost minimizing input choices (Optimization principles, Expansion Path), Cost Functions and Shift in Cost Curves, Long-Run versus Short-Run Cost Curves.

#### UNIT - IV: Profit Maximization

The Nature and Behavior of Firms, Marginal Revenue – Relationship between Average and marginal revenue, Short-Run Supply by a Price-Taking Firm, Profit Functions and its Properties, Profit maximization – General conditions, Input demands.

#### Text Book Recommended:

1. C. Snyder and W. Nicholson (2012): Microeconomic Theory: Basic Principles and Extensions, 11th Edition, Cengage Learning, Delhi, India.

#### Reference Books:

- ❖ H. R. Varian (2010): Intermediate Microeconomics: A Modern Approach, 8th Edition, W.W. Norton and Company/Affiliated East-West Press (India). The workbook by Varian and Bergstrom may be used for problems.

### C-3.2 : MACROECONOMICS - I

Full Marks – 100  
Mid Sem – 20/1hr  
End Sem – 80/3 hrs

#### UNIT - I: Consumption and Investment

Consumption – Income Relationship, Propensities to Consume and the Fundamental Psychological Law of Consumption; Implications of Keynesian Consumption Function; Factors Influencing Consumption Function; Measures to Raise Consumption Function; Absolute, Relative, Permanent and Life – Cycle Hypotheses

Autonomous and Induced Investment, Residential and Inventory Investment, Determinants of Business Fixed Investment, Decision to Invest and MEC, Accelerator and MEI, Theories of Investment.

#### UNIT - II: Demand for and Supply of Money

Demand for Money – Classical, Neoclassical and Keynesian Approaches, The Keynesian Liquidity Trap and its Implications, Supply of Money, The Theory of Money Supply Determination and Money Multiplier, Measures of Money Supply in India.

#### UNIT - III: Aggregate Demand and Aggregate Supply

Derivation of Aggregate Demand and Aggregate Supply Curves in the IS-LM Framework; Nature and Shape of IS and LM curves; Interaction of IS and LM curves and Determination of Employment, Output, Prices and Investment; Changes in IS and LM curves and their Implications for Equilibrium.

#### UNIT - IV: Inflation, Unemployment and Expectations, and Trade Cycles

Inflation – Unemployment Trade off and the Phillips Curve – Short run and Long run Analysis; Adaptive and Rational Expectations; The Policy Ineffectiveness Debate; Meaning and Characteristics of Trade Cycles; Hawtrey's Monetary Theory, Hayek's Over-investment Theory and Keynes' views on Trade Cycles.

**Text Book:**

1. N. Gregory Mankiw (2010): *Macroeconomics*, 7<sup>th</sup> edition, Cengage Learning India Private Limited, New Delhi.

**Reference Book:**

- ❖ Richard T. Froyen (2005): *Macroeconomics*, 2<sup>nd</sup> Edition, Pearson Education Asia, New Delhi.

### C-3.3 : STATISTICAL METHODS FOR ECONOMICS

**Full Marks – 100**  
**Mid Sem – 20/1hr**  
**End Sem – 80/3 hrs**

**UNIT - I: Data Collection and Measures of Central Tendency and Dispersion**

Basic concepts: population and sample, parameter and statistics; Data Collection: primary and secondary data, methods of collection of primary data; Presentation of Data: frequency distribution; cumulative frequency; graphic and diagrammatic representation of data; Measures of Central Tendency: mean, median, mode, geometric mean, harmonic mean, their relative merits and demerits; Measures of Dispersion: absolute and relative - range, mean deviation, standard deviation, coefficient of variation, quartile deviation, their merits and demerits; Measures of skewness and kurtosis.

**UNIT - II: Correlation and Regression Analysis**

Correlation: scatter diagram, sample correlation coefficient - Karl Pearson's correlation coefficient and its properties, probable error of correlation coefficient, Spearman's rank correlation coefficient. Two variable linear regression analysis - estimation of regression lines (Least square method) and regression coefficients - their interpretation and properties, standard error of estimate.

**UNIT - III: Time Series and Index Number**

Time Series: definition and components, measurement of trend- free hand method, methods of semi-average, moving average and method of least squares (equations of first and second degree only), measurement of seasonal component; Index Numbers: Concept, price relative, quantity relative and value relative; Laspeyer's and Fisher's index, family budget method, problems in construction and limitations of index numbers, test for ideal index number.

**UNIT - IV: Probability Theory and Sampling**

Probability: Basic concepts, addition and multiplication rules, conditional probability; Meaning of Sampling, Types of Sampling: Probability Sampling versus Non-Probability Sampling; Simple Random Sampling and its selection, Systematic Sampling, Multi-stage Sampling, Quota Sampling; Error: Sampling and Non-sampling.

**Text book:**

1. S. C. Gupta (2017): *Fundamentals of Statistics*, Himalaya Publishing House, Delhi

**Reference Book:**

- ❖ Murray R. Spiegel (2017): *Theory & Problems of Statistics*, Schaum's publishing Series.

### GE-3.4 : ARCHAEOLOGICAL ANTHROPOLOGY

**Full Marks – 100**  
**Mid Sem – 15/1hr**  
**End Sem Theory – 60/3 hrs**  
**End Sem Practical – 25/3 hrs**

#### THEORY

**UNIT - I :**

Introduction, Definition and scope of archaeological anthropology; Relation with other disciplines; Methods of studying archaeological anthropology.

**UNIT - II :**

Methods of Estimation of Time and Reconstruction of the Past; Absolute dating methods: Radiocarbon<sup>14</sup> dating (C<sup>14</sup>), Potassium-Argon, Dendochronology, Fission Track Dating; Relative dating methods: Stratigraphy, Palaeontology, Palynology.

**UNIT - III :**

Geochronology of Pleistocene Epoch; Glacial and Interglacial; Pluviation and Inter Pluviation; Different types of geoclimatic events.

**UNIT - IV :**

Understanding Culture; Technique of tool manufacture and estimation of their relative efficiency; Classification of tools: primary and combination of fabrication techniques; Earliest evidence of culture in the world: Konso, Oldorgesaille, Olduvai Gorge, Pirro Nord, Damanisi, Attirampakkam, Isampur, Kuliana.

## PRACTICAL

Typo-technological Analysis of Prehistoric Tools: Identification, Interpretation and Drawings of the tool Types

1. Core Tool Types
2. Flake Tool Types
3. Blade Tool Types
4. Microlithic Tool Type
5. Neolithic Tool Type

### Text book recommended :

1. Bhattacharya D.K. (1990). *An introduction to Prehistoric Archaeology*, Delhi, Hindustan Publishing Corporation.
2. Rammi Reddy, V. 1987. *Elements of Prehistory*, New Delhi: Mittal Publications
3. Sankalia H.D. (1964). *Stone Age Tools*. Poona Deccan College

### Suggested Readings :

- ❖ Allchin and Allchin (1993). *The Rise of Civilization of India and Pakistan*. Cambridge University Press
- ❖ Bhattacharya D.K. (1978). *Emergence of Culture in Europe*, Delhi, B.R. Publication.
- ❖ Bhattacharya D.K. (1979). *Old Stone Age Tools and Techniques*. Calcutta, K.P. Bagchi Company
- ❖ Bhattacharya D.K. (1996). *Palaeolithic Europe*. Netherlands, Humanities Press.
- ❖ Champion et al. (1984). *Prehistoric Europe*. New York, Academic Press.
- ❖ Fagan B.M. (1983). *People of Earth: An Introduction*. Boston, Little, Brown & Company.
- ❖ Phillipson D. W. (2005). *African Archaeology*. Cambridge, Cambridge University Press.
- ❖ Renfrew, C. and Paul Bahn *Archaeology* 1996
- ❖ Sankalia H.D. (1964). *Stone Age Tools*. Poona Deccan College

## GE-3.4 : LANGUAGE AND LINGUISTICS

Full Marks – 100  
Mid Sem – 20/1hr  
End Sem – 80/3 hrs

### Introduction:

*This paper aims to offer the students some fundamental knowledge in Linguistics and English Language Teaching (ELT). It also seeks to acquaint the students with the variety of English that people come in contact with in contemporary times with a special emphasis on Asia and in particular, India.*

### UNIT - I:

Language : What is Language, Linguistics, Branches and Scope, Applied Linguistics Global Englishes: Who Speaks English today? Standard Language and Language Standards, Language Variation, Postcolonial English, Pidgin and Creole, English in Asia and Europe

### UNIT - II:

Phonology and Morphology

### UNIT - III:

Syntax

### UNIT - IV:

Semantics

### Reference Books:

- ❖ *Introductory book on Linguistics and Phonetics* by R L Varshney
- ❖ *Global Englishes: A Resource Book for Students*, Jennifer Jenkins, 3<sup>rd</sup> Edn, Special Indian Edition, Routledge, 2016
- ❖ *An Introduction to Language and Communication*,
- ❖ A R Parhi, 'Localising the Alien: Newspaper English and the Indian Classroom', *English Studies in India*, Springer, 2018.
- ❖ Adrian Akmajian, R. A. Demers, Ann K Farmer and R. M. Harnish, Prentice Hall of India, 2012
- ❖ David Crystal, *Linguistics*
- ❖ Braj B Kachru, *The Indianization of English* (OUP)
- ❖ David Crystal, *English as a World Language*



## GE-3.4 : HISTORY OF INDIA II (1750-1950)

Full Marks – 100  
Mid Sem – 20/1hr  
End Sem – 80/3 hrs

### UNIT – I: Foundation and Expansion of British Rule

1. Battle of Plessey (1757) and Conquest of Bengal
2. Conquest of Mysore and Maharashtra
3. Expansion through Diplomacy: Subsidiary Alliance and Doctrine of Lapse

### UNIT – II: Consolidation of British Rule and Indian Responses

1. Peasant & Tribal Resistance against British Rule: Sanyasi Reballion (1763); Kondh Rebellion in Ghumusar, Santal Rebellion
2. Revolt of 1857: Nature and Significance
3. Land Revenue Settlements: Permanent Settlement, Ryotwari and Mahalwari Settlement

### UNIT – III: Social and Cultural Policies

1. Socio-Religious Reform Movements: Brahma Samaj, Arya Samaj, Theosophical Society, Aligarh Movement.
2. Growth of Press and Education
3. Issues of Caste and Gender: Jyotiba Phule- Women Question and Issues, Depressed Class.

### UNIT – IV: Indian National Movement

1. Politics of Moderates and Extremists (1885-1920)
2. Gandhian Mass Movements (Non-Cooperation, Civil Disobedience and Quit India Movements), (1920-1940)
3. Communal Politics and Partition
4. Making of the Democratic Constitution

#### Suggested Text Books:

1. A.R. Desai, Social Background of Indian Nationalism, Popular, Mumbai
2. Priyadarshi Kar, Comprehensive History of Modern India.

#### Reference Reading:

- ❖ Sumit Sarkar, Modern India : 1885-1947, Mac Millon.
- ❖ B.R.Mani, Debrahminising History: Dominance and Resistance in Indian Society, Manohar, New Delhi, First Published 2005.
- ❖ Chandra Bharil, Social and Political Ideas of B.R. Ambedkar, Aalekh Publishers, Jaipur, 1977.
- ❖ Sumit Sarkar, Modern India (1885-1947), Mac Millan, Delhi, First Published 1983.
- ❖ Hirendra N.Mukherjee, Gandhi, Ambedkar and the Extirpation of Untouchability, PPT, New Delhi.

## GE-3.4 : GOVERNANCE: ISSUES AND CHALLENGES

Full Marks – 100  
Mid Sem – 20/1hr  
End Sem – 80/3 hrs

**Objectives:** This paper deals with concepts and different dimensions of governance highlighting the major debates in the contemporary times. There is a need to understand the importance of the concept of governance in the context of a globalizing world, environment, administration, development. The essence of governance is explored through the various good governance initiatives introduced in India.

### UNIT-I: Government and governance: concepts

- (i) Governance: Meaning, Nature and Types
- (ii) Role of State in the Era of Globalisation: State, Market and Civil Society

### UNIT-II : Good Governance

- (i) Good Governance
- (ii) Sustainable Development and Governance

### UNIT-III: Local Governance

- (i) Democratic Decentralization: Institutions of Local Governance (PRIs),
- (ii) People' Participation in Local Governance & Deepening Democracy

### UNIT-IV : Good Governance Initiatives In India

- (i) Public Service Guarantee Acts & Electronic Governance
- (ii) Citizens Charter & Right to Information, Corporate Social Responsibility

**Text Books:**

1. A Baviskar, ((1995) The Belly of the River: Tribal Conflict Over Development in the Narmada Valley', Delhi, Oxford University Press.
2. A. Parel (2000) (ed) 'Gandhi, Freedom and Self-Rule', New Delhi, Lexington Books.
3. B. Parekh, (1997) 'Gandhi: A Brief Insight', Delhi, Sterling Publishing Company.
4. B. Parekh, (1999) 'Colonialism, Tradition and Reform: An Analysis of Gandhi's Political Discourse', New Delhi, Sage Publication.
5. D. Hardiman, (2003) 'Gandhi in his Time and Ours'. Delhi, Oxford University Press.

**Reference Books:**

- ❖ R Iyer, (ed) (1993) 'The Essential Writings of Mahatma Gandhi', New Delhi, Oxford University Press.
- ❖ R. Ramashray, (1984) 'Self and Society: A Study in Gandhian Thought', New Delhi, Sage Publication.

## SECC-I-3.5 : COMMUNICATIVE ENGLISH

(Enriching Linguistic Knowledge & Communication Proficiency)

**Full Marks – 100**  
**Mid Sem – 20/1hr**  
**End Sem – 80/3 hrs**

### UNIT-I : BUSINESS COMMUNICATION AND GRAMMAR

Why English Communication is Essential and How to Improve the Skill?

Introduction to Voice and Accent, Why do we have such different accents? Accent Training-Consequences, Voice and accent in the Enterprise Industry, Globally Comprehensible Accent, Introduction to Phonetics, International Phonetic Alphabet

Consonant Sounds

Vowels

Diphthongs

A Few Phonic Rules

Word Stress: Syllables

Intonation : Intonation and Stress

Pacing and Chunking : Common Patterns of Pacing, Importance of Chunking

Fluency

Indianisms : Errors relating to Grammar, Vocabulary

### UNIT-II : GRAMMAR

English: Spoken Versus Written Communication

Nouns : Kinds of Nouns, Activity 3: Noun Ping-pong, Nouns-Number, Noun-Gender, Countable and Uncountable Nouns

Pronouns : Reflexive Pronouns, Relative Pronouns, Demonstrative Pronouns, Interrogative Pronouns, Indefinite pronouns, Activity 4: Sentence Auction

Adjectives : Activity 5 : Picture perfect, Positioning of adjectives, Comparative Degrees of Adjectives, Order of Adjectives

Adverbs : Kinds of Adverb, Degree of Comparison, Word Order with Adverbs, Activity 6: Relay Race

Prepositions : Activity 7: Treasure Hunt, Activity 8: Route Map, Prepositions with Adjectives, Nouns and Verbs

Conjunctions : Coordinating conjunctions, Subordinating Conjunctions, Correlative Conjunctions, Connecting Adverbs, Activity 9: The Socks Story

Verbs : Verb Classification, List of irregular verbs, Activity 10: Word Search

Subject and verb agreement, Activity 11: Tossed Word Salad, Activity 12: The Sentence Pageant Determiners and Modifiers : Kinds of determiners, The Definite and the Indefinite Article, Definite Article: The, Activity 13: Proof Reading

Tenses : Reference Table, Present Tense, Activity 14: Instruction Manual, Activity 15: Commentary, Past Tense, Activity 16: The Chain List, Activity 17: Transcription, Future Tense, Activity 18: This Week for You, Activity 19: Verb Grand Prix

Punctuation : Forms of Punctuation

Punctuation : Forms of Punctuation

### UNIT-III : READING COMPREHENSION

Reading – A 7 Step Process, Techniques to enhance students' reading skills, Types of reading skills, Skimming, Scanning, Extensive reading, Intensive reading, Three levels of Reading, Improving your reading speed, Reading Comprehension Practice Exercises

Reading Comprehension Practice Exercises

**Text Books:**

1. Communicative English – Odisha State Higher Education Council, Bhubaneswar

## SEMESTER-IV

### C-4.1 : MICROECONOMICS - II

Full Marks – 100  
Mid Sem – 20/1hr  
End Sem – 80/3 hrs

#### UNIT - I: Firm Supply and Equilibrium

Market Environments; Pure competition; Supply decision of a competitive firm and Exceptions; Inverse Supply Function; Profits and Producer's Surplus; Long Run Supply Curve of a Firm; Long Run Average Costs; Short Run and Long Run Industry Supply; Industry Equilibrium in Short and Long Run; Meaning of Zero Profits; Economic Rent

#### UNIT - II: General Equilibrium, Efficiency and Welfare

The Edgeworth Box; Trade; Pareto Efficient Allocations; Existence of equilibrium and efficiency; The Welfare Theorems and their implications; The Firm; Production and the Welfare Theorems; Production possibilities, comparative advantage and Pareto efficiency

#### UNIT - III: Market Imperfections: Monopoly and Oligopoly

Barriers to Entry, Profit Maximization and Output Choice, Monopoly and resource Allocation, Monopoly, Product Quality and Durability, Price Discrimination, Second Degree Price Discrimination through Price Schedules, Regulation of Monopoly, Dynamic Views of Monopoly. Monopolistic competition; Price output determination; excess capacity under monopolistic competition

#### UNIT - IV: Game Theory

The Payoff Matrix of a Game; Nash Equilibrium; Mixed Strategies; The Prisoner's Dilemma; Repeated Games; Enforcing a cartel; Sequential Games; A Game of entry deterrence. Oligopoly – Choosing a strategy; Quantity and price leadership; Simultaneous Quantity Setting; Example of Cournot Equilibrium; Simultaneous Price Setting; Collusion

#### Text Book:

1. H. R. Varian (2010): Intermediate Microeconomics: A Modern Approach, 8<sup>th</sup> Edition, W.W. Norton and Company/Affiliated East-West Press (India). The workbook by Varian and Bergstrom may be used for problems.

#### Reference Books:

- ❖ C. Snyder and W. Nicholson (2012): Microeconomic Theory: Basic Principles and Extensions, 11<sup>th</sup> Edition, Cengage Learning, Delhi, India.
- ❖ Pindyck, Robert and Daniel Rubinfeld (2018): Microeconomics, 9<sup>th</sup> Edition, Pearson Education Inc.

### C-4.2 : MACROECONOMICS - II

Full Marks – 100  
Mid Sem – 20/1hr  
End Sem – 80/3 hrs

#### UNIT - I: Modeling Economic Growth

Accumulation of Capital in the basic Solow Model; supply and demand for goods, growth in the capital stock and the steady state, Golden rule level of capital: Comparing steady states, transition to the golden rule steady state with too much and too little capital, Population Growth, Technological Progress- Solow version, Beyond Solow Model and Endogenous Growth.

#### UNIT - II: Open Economy and Macroeconomic Policy

Balance of payments- concept; meaning of equilibrium and disequilibrium in balance of payments; Determination of foreign exchange rate- the balance of payments theory; Fixed versus flexible exchange rates; Short-run open economy model- the basic Mundell-Fleming model; Macroeconomic Policies – Fiscal policy, Crowding –out and Crowding – in; Monetary policy and instruments, the Transmission Mechanism; Effectiveness of macroeconomic policies in open and closed economies.

#### UNIT - III: Classical and Keynesian Macroeconomics Thoughts

Keynes versus classics: Classical macroeconomics, Employment and output determination, Say's law, the quantity theory of money, Keynes's General theory: Keynes's main propositions; analysis of the labour market, Keynes's critique of Say's law and Quantity theory of money, the orthodox Keynesian school, underemployment equilibrium in the Keynesian model, the Phillips curve and orthodox Keynesian school.

#### UNIT - IV: Monetarist and New Classical Macroeconomic Thoughts

The orthodox monetarist school, the Quantity Theory of Money approach, the expectations augmented Phillips curve analysis, the orthodox monetarist school and stabilization policy. New Classical Economics: The influence of

Robert e Lucas Jr, the structure of new classical models: the Rational Expectations hypothesis; and policy implications.

**Text Book:**

1. N. Gregory Mankiw (2010): *Macroeconomics*, 7<sup>th</sup> edition, Cengage Learning India Private Limited, New Delhi

**Reference Book:**

- ❖ Brian Snowden and Howard R Vane (2005): *Modern Macroeconomics: Its Origins, Development and Current State*, Edward Elgar

### C-4.3 : RESEARCH METHODOLOGY

Full Marks – 100

Mid Sem – 20/1hr

End Sem – 80/3 hrs

**UNIT - I: Basics of Research**

Introduction to Research: Meaning, Objectives, Motivation, Types, Approaches, Significance, Research Process, Criteria of Good Research; Qualities of a Good Researcher, Research as a Career

**UNIT - II: Research Problem**

Defining the Research Problem: What is a Research Problem? Selecting the Problem, Necessity of Defining the Problem, Technique Involved in Defining a Problem; Research Design: Meaning, Need, Features of a Good Design, Important Concepts Relating to Research Design, Different Research Designs, Basic Principles of Experimental Designs

**UNIT - III: Issues in Research**

Measurement in Research, Measurement Scales, Sources of Error in Measurement, Tests of Sound Measurement, Techniques of Measurement Tools, Scaling and Important Scaling Technique Research Ethics: codes and ethics, permissions to research, responsibilities, confidentiality, feedback, participatory research; Research Proposal and literature review: research proposal, review of literature, levels of analysis, using the library and internet, abstracting, word processing, plagiarism, Concept of IPR

**UNIT - IV: Actions in Research**

English in report writing: words, sentences, paragraph, writing style; The Report: improving quality, sections, drawing conclusions, evaluation checklists, persistence; Common Citation Styles

**Text Book:**

1. Kothari, C. R. (2004): *Research Methodology: Methods and Techniques*, New Age International Private Limited Publishers, New Delhi.

**Reference Book:**

- ❖ Guthrie, G. (2010): *Basic Research Methods*, Sage Publications India Private Limited, New Delhi.

### GE-4.4 : HUMAN GEOGRAPHY

Full Marks – 100

Mid Sem – 15/1hr

End Sem Theory – 60/3 hrs

End Sem Practical – 25/3 hrs

#### THEORY

**UNIT - I:**

Meaning and scope of Human Geography; Major Themes; Contemporary Relevance and subfields

**UNIT - II:**

Major races of mankind, their characteristics and distribution, Cultural Realms of the world; Religion and Language of World

**UNIT - III:**

World distribution of population, world Population Growth, Population Composition; Demographic Transition Theory

**UNIT - IV:**

Types & Patterns of Rural Settlements; Urban Settlements; Definition, size and functional classification, characteristics, Trends and Patterns of World Urbanization

**PRACTICAL**

1. Population distribution by multiple dots and population density
2. Decadal Population Growth- Time series graphs, bar diagrams
3. Pie Diagram showing occupational structure and population composition
4. Population Projection by A.P and GP method
5. Practical Record and Viva voce

**Text Book:**

1. Hussain, Majid (2012) Human Geography. Rawat Publications, Jaipur

**Reading List:**

- ❖ Hassan, M.I. (2005) Population Geography, Rawat Publications, Jaipur
- ❖ Daniel, P.A. and Hopkinson, M.F. (1989) The Geography of Settlement, Oliver & Boyd, London.
- ❖ Johnston R; Gregory D, Pratt G. et al. (2008) The Dictionary of Human Geography, Blackwell Publication.
- ❖ Jordan-Bychkov et al. (2006) The Human Mosaic: A Thematic Introduction to Cultural Geography. W. H. Freeman and Company, New York.
- ❖ Kaushik, S.D. (2010) Manav Bhugol, Rastogi Publication, Meerut.
- ❖ Maurya, S.D. (2012) Manav Bhugol, Sharda Pustak Bhawan. Allahabad.
- ❖ Hussain, Majid (2012) Manav Bhugol. Rawat Publications, Jaipur

**GE-4.4 : ପ୍ରାଚୀନ, ମଧ୍ୟଯୁଗ ଓ ଆଧୁନିକ ଓଡ଼ିଆ ସାହିତ୍ୟ**

**Full Marks – 100**  
**Mid Sem – 20/1hr**  
**End Sem – 80/3 hrs**

**୧ମ ଏକକ / ୟୁନିଟ୍ – ୧ : ସାରଳା ମହାଭାରତରେ କାହାଣୀ ସତ୍ୟଆତ୍ମ**

ତୁଳସୀବଣ ବାଘ

ଗଙ୍ଗା ବୋଇଲେ ଥିବି ଗାଁଗା ବୋଇଲେ ଯିବି

**୨ୟ ଏକକ / ୟୁନିଟ୍ – ୨ : ବଳରାମ ଦାସ ଓ ଜଗନ୍ନାଥ ଦାସଙ୍କ କାହାଣୀ**

ବଳରାମ ଦାସଙ୍କ ବଉଳା ଅଧ୍ୟାୟ ଓ ମୃଗୁଣୀ ସ୍ତୁତି

ଜଗନ୍ନାଥ ଦାସଙ୍କ କପୋତ ଉପାଖ୍ୟାନ ଓ ପିଙ୍ଗଳା ଉପାଖ୍ୟାନ

**୩ୟ ଏକକ / ୟୁନିଟ୍ – ୩ : ମଧ୍ୟକାଳୀନ ସାହିତ୍ୟ ସ୍ରଷ୍ଟାଙ୍କ ସଂକ୍ଷିପ୍ତ ପରିଚୟ**

ଦାନକୃଷ୍ଣ ଦାସ, କବିସମ୍ରାଟ ଉପେନ୍ଦ୍ର ଭଞ୍ଜ

**୪ର୍ଥ ଏକକ / ୟୁନିଟ୍ – ୪ : ଆଧୁନିକ ଯୁଗର ସାହିତ୍ୟ ସ୍ରଷ୍ଟାଙ୍କ ସଂକ୍ଷିପ୍ତ ପରିଚୟ**

ରାଧାନାଥ ରାୟ, ଫକୀର ମୋହନ ସେନାପତି, ଗଙ୍ଗାଧର ମେହେର

**ସହାୟକ ଗ୍ରନ୍ଥସୂଚୀ :**

୧. ଓଡ଼ିଆ ସାହିତ୍ୟର ଇତିହାସ – ମାୟାଧର ମାନସିଂହ, ଗ୍ରନ୍ଥ ମନ୍ଦିର, କଟକ
୨. ଓଡ଼ିଆ ସାହିତ୍ୟର ଇତିହାସ – ସୂର୍ଯ୍ୟନାରାୟଣ ଦାଶ (୨ୟ ଓ ୩ୟ ଭାଗ), ଗ୍ରନ୍ଥ ମନ୍ଦିର, କଟକ
୧. ଓଡ଼ିଆ ସାହିତ୍ୟର ଇତିହାସ (୧୮୦୩-୧୯୨୦) – ନଟବର ସାମନ୍ତରାୟ, ବାଣୀ ଭବନ, ଭୁବନେଶ୍ୱର
୩. ଆଲୋକ ଓ ଅମୃତର କବି ଗଙ୍ଗାଧର – ମଣାହ କୁମାର ମେହେର, ପଦାପତି, ଭୁବନେଶ୍ୱର

## GE-4.4 : ETHICS: THEORY AND PRACTICE

Full Marks – 100  
Mid Sem – 20/1hr  
End Sem – 80/3 hrs

### UNIT – I:

Definition, Nature and Scope of Ethics, Distinction between moral and Non-moral action.

### UNIT – II:

Distinction between factual and moral judgement, objects of moral judgement.

### UNIT – III:

Moral Standards: Hedonism, Mill's Utilitarianism, And Kant's Rigorism.

### UNIT – IV:

Environmental Ethics: Anthropocentrism and Non- Anthropocentrism, Deep Ecology

#### Prescribed Books:

1. J.N. Sinha- A Manual of Ethics
2. Peter Singer- Practical Ethics

#### Books for Reference:

- ❖ H. Sahoo(ed) Ethics theory and practice

## SECC-II-4.5 : QUANTITATIVE AND LOGICAL THINKING

Full Marks – 100  
Mid Sem – 20/1hr  
End Sem – 80/3 hrs

### I. QUANTITATIVE APTITUDE & DATA INTERPRETATION

#### UNIT – I :

Whole numbers, Integers, Rational and irrational numbers, Fractions, Square roots and Cube roots, Surds and Indices, Problems on Numbers, Divisibility  
Steps of Long Division Method for Finding Square Roots:

#### UNIT – II :

Basic concepts, Different formulae of Percentage, Profit and Loss, Discount, Simple interest, Ratio and Proportion, Mixture

#### UNIT – III :

Time and Work, Pipes and Cisterns, Basic concepts of Time, Distance and Speed; relationship among them

#### UNIT – IV :

Concept of Angles, Different Polygons like triangles, rectangle, square, right angled triangle, Pythagorean Theorem, Perimeter and Area of Triangles, Rectangles, Circles

#### UNIT – V :

Raw and Grouped Data, Bar Graphs, Pie charts, Mean, Median and Mode, Events and Sample Space, Probability

### II. LOGICAL REASONING

#### UNIT – I :

Analogy basing on kinds of relationships, Simple Analogy; Pattern and Series of Numbers, Letters, Figures. Coding-Decoding of Numbers, Letters, Symbols (Figures), Blood relations

#### UNIT – II :

Logical Statements– Two premise argument, More than two premise argument using connectives

#### UNIT – III :

Venn Diagrams, Mirror Images, Problems on Cubes and Dices

#### Books Prescribed :

1. Quantitative And Logical Thinking – Odisha State Higher Education Council, Bhubaneswar

## SEMESTER-V

### C-5.1 : INDIAN ECONOMY - I

**Full Marks – 100**  
**Mid Sem – 20/1hr**  
**End Sem – 80/3 hrs**

#### **UNIT - I: Basic Characteristics of Indian Economy as a Developing Economy**

Indian Economy in the Pre-British Period; The Structure and Organization of Villages and Towns; Industries and Handicrafts in Pre-British India; Colonialism; Economic Consequences of British Rule; Decline of Handicrafts and Progressive Ruralization; The Land System and Commercialization of Agriculture; Industrial Transition; Colonial Exploitation and Impacts – Underdevelopment; Colonization and Modernization; State Policies and Economic Underdevelopment; The Current State of Indian Economy

#### **UNIT - II: Population and Human Development**

Population Growth and Economic Development – size, growth and future of population; Causes of rapid population growth; Population and economic development; Population policy; Demographic issues– Sex and Age Composition of population; Demographic Dividend; Urbanization and Migration; Human Resource Development – Indicators and importance of Human Resource Development; Education policy; Health and nutrition

#### **UNIT - III: National Income in India – The Growth Story and Current Challenges**

Trends in national and per capita income; Changes in sectoral composition of national income; Regional disparities in Growth and Income; Savings and Investment and Economic Growth – The Linkage; Poverty – Estimation and Trends, Poverty Alleviation Programs– MGNREGA, NRLM, SJSRY; Inequality –Measures and trends in India; Unemployment– Nature, Estimates, Trends, Causes and Employment Policy

#### **UNIT - IV: Economic Planning in India**

Rationale, Features, Objectives, Strategies, Achievements and Assessment of Planning in India; Eleventh Five Year Plan– Objectives, Targets and Achievements; Twelfth Five Year Plan – Vision and Strategy; From Planning to NITI– Transforming India’s Development Agenda

#### **Text Book:**

1. Misra, S. K. and Puri V. K. Indian Economy — Its Development Experience. Himalaya Publishing House, Mumbai

#### **Reference Books:**

- ❖ Dutt R. and Sundharam K. P. M. *Indian Economy*. S. Chand & Company Ltd., New Delhi.
- ❖ Indian Economy Datt and Sundharam, Gaurav Datt and Ashwani Mahajan, S Chand Publications, 7<sup>th</sup> Revised Edition
- ❖ Indian Economy Since Independence, ed by Uma Kapila, Academic Foundation, Revised Nineteenth Edition 2008-09
- ❖ Government of India (Current Year): Economic Survey, Ministry of Finance, New Delhi

### C-5.2 : DEVELOPMENT ECONOMICS - I

**Full Marks – 100**  
**Mid Sem – 20/1hr**  
**End Sem – 80/3 hrs**

#### **UNIT - I: Study of Economic Development**

Development Economics as subject; economic growth and economic development; Characteristics of underdeveloped countries – vicious cycle of poverty and cumulative causation; obstacles to economic development; measures of economic development – national and per capita income, basic needs approach, capabilities approach, three core values of development, PQLI, HDI, HPI, MDPI, GDI; capital formation and economic development.

#### **UNIT - II: Theories of Economic Growth and Development**

Classical theory, Marxian theory; Schumpeterian theory; Rostow’s stages of economic growth; Solow model and convergence with population growth and technical progress.

#### **UNIT - III: Poverty, Inequality, Agriculture, Industry and Development**

Measuring poverty: Head Count Ratio, Poverty Gap Ratio, Squared Poverty Ratio, FGT Ratio; Measuring Inequality – Lorenz curve and Kuznets’ inverted U hypothesis; Growth, poverty and inequality; Policy options – some basic considerations.

Agriculture, Industry and Economic Development: Role of agriculture; Transforming traditional agriculture; Barriers to agricultural development; Role of industrialization; Interdependence between agriculture and industries – A model of complementarities between agriculture and industry; terms of trade between agriculture and industry; functioning of markets in agrarian societies; interlinked agrarian markets.

**UNIT - IV: Institutions and Economic Development:**

Role of institutions in economic development; Characteristics of good institutions and quality of institutions; The pre-requisites of a sound institutional structure; Different measures of institutions – aggregate governance index, property rights and risk of expropriation; The role of democracy in economic development; Role of markets and market failure; Institutional and cultural requirements for operation of effective private markets; Market facilitating conditions; Limitations of markets in LDCs; Corruption and economic development – tackling the problem of corruption.

**Text book:**

1. Todaro, Michael P and Stephen C Smith (2006): *Economic Development*, 8th Edition, Pearson

**Reference Books:**

- ❖ Debraj Ray (2009): *Development Economics*, Oxford University Press.
- ❖ Thirlwall, A P (2011): *Economics of Development*, 9th Edition, Palgrave Macmillan

**DSE-5.3 : PUBLIC ECONOMICS**

**Full Marks – 100**  
**Mid Sem – 20/1hr**  
**End Sem – 80/3 hrs**

**UNIT - I: Introduction to Public Finance and Public Budgets**

Public Finance: meaning and scope, distinction between public and private finance; public good versus private good; Principle of maximum social advantage; Market failure and role of government; Public Budget: kinds of budget, economic and functional classification of the budget; Balanced and unbalanced budget; Balanced budget multiplier; Budget as an instrument of economic policy.

**UNIT - II: Public Expenditure**

Meaning, classification, principles, cannons and effects, causes of growth of public expenditure, Wagner's law of increasing state activities, Peacock-Wiseman hypotheses.

**UNIT - III: Public Revenue**

Sources of Public Revenue; Taxation - meaning, cannons and classification of taxes, impact and incidence of taxes, division of tax burden, the benefit and ability to pay approaches, taxable capacity, effects of taxation, characteristics of a good tax system, major trends in tax revenue of central and state governments in India.

**UNIT - IV: Public Debt**

Sources, effects, debt burden – Classical/ Ricardian views, Keynesian and post-Keynesian views; shifting - intergenerational equity, methods of debt redemption, debt management, tax versus debt.

**Text Books:**

1. J. Hindriks and G. Myles (2006): *Intermediate Public Economics*, MIT Press.

**Reference Book:**

- ❖ R. A. Musgrave and P. B. Musgrave (1989): *Public Finance in Theory and Practices*. McGraw Hill
- ❖ Bhatia H L (2018): *Public Finance*. Vikas Publishing House.

**DSE-5.4 : INTRODUCTORY ECONOMETRICS**

**Full Marks – 100**  
**Mid Sem – 20/1hr**  
**End Sem – 80/3 hrs**

**UNIT - I: Introduction**

Definition, Nature and scope of econometrics; Theoretical Probability Distributions: Binomial, Poisson and Normal distributions: their properties Theory of Estimation: Estimation of parameters; properties of estimators – small sample and asymptotic properties; point and interval estimation.

**UNIT - II: Hypothesis Testing**

Testing of hypotheses: defining statistical hypotheses; Simple and composite hypotheses; Null and alternative hypothesis; Type I and Type II errors, Critical region; Neyman-Pearson lemma; Power of a test; Test statistics: z, chi square, t and F.

**UNIT - III: Linear Regression Analysis**

Two variable linear regression model – Assumptions; Least square estimates, Variance and covariance between Least square estimates; BLUE properties; Standard errors of estimates; Coefficient of determination; Inference in a two variable linear regression model; ANOVA; Forecasting. Introduction to multiple regression models.

**UNIT - IV: Violation of Classical Assumptions**

Heteroscedasticity, Multicollinearity and Auto-correlation: Meaning, consequences, tests and remedies.



**Text Book:**

1. Gujarati, D & Sangeetha (2007); "Basic Econometrics", McGraw Hill Book Co.

**OR**

**DSE-5.4 : ODISHA ECONOMY**

**Full Marks – 100**  
**Mid Sem – 20/1hr**  
**End Sem – 80/3 hrs**

**UNIT - I: Odisha Economy before 1947**

Orissa's Economy in the Nineteenth Century: Benevolence or Exploitation, Forces of Nature, Animal Power, The Company Steps in, Public Works and Public Health, Education, Disintegration of Village Economy, New Social Environment, Changing Position of Social Classes, The Moneylenders, The Borrowers, Money-flows from Village to Metropolis, Pauperization of Peasantry, The Wage Earners, Demographic Changes, Profiting from Rural Adversity; Diarchy in 1919 and Separation of Provincial Finances from Central Government in 1937; Emergence of Federal Finance (Ref.: Das 1976a and 1976b, GoO 2016).

**UNIT - II: Macro Economy of Odisha**

A macro glance of Odisha economy: aggregate income, broad sectoral decomposition, performance of districts, employment, child labour and bonded labour, employment programmes, consumption expenditure, cost of living; Odisha State public finances (Chapter 14 and 15 of Ref 1; & Chapter 2 and 9 of Ref 2).

**UNIT - III: Agriculture, Industry, Infrastructure and Environment in Odisha**

Agriculture: land ownership and land tenure, agricultural wages and rural unemployment, production and productivity of major crops, agricultural inputs, agricultural policy; Animal Husbandry; Fisheries (Chapter 1 to 3 of Ref 1; & Chapter 3 of Ref 2)

Industry: Investment, industrial policy, and the growth of large industries, mining and quarrying; Construction; tertiary sector: tourism, transport and power; Water Resources, Forest Resources (Chapter 4 to 8 of Ref 1; & Chapter 4 & 5 of Ref 2).

**UNIT - IV: Social Sector in Odisha**

Poverty: income poverty and inequality; health sector: outcomes, infrastructure, finance, public health, NRHM; education: Literacy, Primary education, secondary education, higher education, SSA; human development (Chapter 9 to 13 of Ref 1; & Chapter 7 & 8 of Ref 2).

**Text Book:**

1. Nayak, P., Panda, S. C., Pattanaik, P. K. (2016): The Economy of Odisha: A Profile, Oxford University Press, New Delhi.

**Reference Book:**

- ❖ GoO (Latest): Odisha Economic Survey, Planning and Convergence Department, Directorate of Economics and Statistics, Government of Odisha, Bhubaneswar.
- ❖ GoO (2004): *Human Development Report 2004 Orissa*, Planning and Coordination Department, Government of Odisha, Bhubaneswar.
- ❖ GoO (2018): 80 Years Odisha Budget: Commemorative Volume, Department of Finance, Bhubaneswar.

## SEMESTER-VI

### C-6.1 : INDIAN ECONOMY - II

Full Marks – 100  
Mid Sem – 20/1hr  
End Sem – 80/3 hrs

#### UNIT - I: Agricultural Development in India

Indian Agriculture: nature, importance, trends in agricultural production and productivity, factors determining production, land reforms, new agricultural strategies and green revolution, rural credit; Agricultural marketing and warehousing.

#### UNIT - II: Industrial Development in India

Trends in industrial output and productivities; Industrial Policies of 1948, 1956, 1977 and 1991; Industrial Licensing Policies – MRTP Act, FERA and FEMA; Growth and problems of SSIs, Industrial sickness; Industrial finance; Industrial labour.

#### UNIT - III: Tertiary Sector, HRD and the External Sector

Tertiary Sector: growth and contribution of service sector to GDP of India, share of services in employment; Human development – concept, evolution, measurement; HRD: indication, importance, education in India, Indian educational policy; Health and Nutrition.

Foreign Trade: role, composition and direction of India's foreign trade, trends of export and import in India, export promotion versus import substitution; Balance of Payments of India; India's Trade Policies; Foreign Capital – FDI, Aid and MNCs.

#### UNIT - IV: Indian Economy and Environment

Environmental Policies in India: The Environment (Protection) Act 1986, The Environment (Protection) Rules 1986, The National Forest Policy 1988, Policy statement for Abatement of Pollution 1992, National Conservation Strategy and Policy Statement on Environment and Development 1992, The National Environment Appellate Authority Act 1997, National Environmental Policy 2006; Global deal with Climate Change: Introduction, Intergovernmental Panel for Climate Change (IPCC), Impact of Climate Change on India, Global Response on Climate Change, Possible Role of India.

#### Text Book:

1. Misra, S. K. and Puri V. K. Indian Economy — Its Development Experience. Himalaya Publishing House, Mumbai

#### Reference Books:

- ❖ Dutt R. and Sundharam K. P. M. *Indian Economy*. S. Chand & Company Ltd., New Delhi.
- ❖ Indian Economy Datt and Sundharam, Gaurav Datt and Ashwani Mahajan, S Chand Publications, 7th Revised Edition
- ❖ Indian Economy Since Independence, ed by Uma Kapila, Academic Foundation, Revised Nineteenth Edition 2008-09
- ❖ Government of India (Current Year): Economic Survey, Ministry of Finance, New Delhi

### C-6.2 : DEVELOPMENT ECONOMICS II

Full Marks – 100  
Mid Sem – 20/1hr  
End Sem – 80/3 hrs

#### UNIT - I: Population and Development

Demographic concepts : birth and death rates, age structure, fertility and its determinants, the Malthusian population trap and the microeconomic household theory of fertility; costs and benefits of population growth and the model of low level equilibrium trap; rural-urban migration – the Harris Todaro migration model and policy implications

#### UNIT - II: Dualism and Economic Development

Dualism – geographic, social and technological; the theory of cumulative causation (Myrdal); the regional inequalities in the context of economic development; the inverted U relationship; international inequality and the centre periphery thesis; dependency, exploitation and unequal exchange; the dualistic development thesis and its implications

#### UNIT - III: Environment and Development

Basic issues of environment and development – Development and environment inter-linkage; Poverty, environmental degradation and externalities; common property resources, renewable and non-renewable resources; concept of sustainable development; basics of climate change

**UNIT - IV: International Trade and Economic Development and Financing Economic Development**

Trade and economic development; export led growth; terms of trade and economic growth – the Prebisch Singer Hypothesis; trade strategies for development – import substitution vs. export promotion; international commodity agreements; trade vs aid.

Saving, capital formation and economic development; financial sector and economic development; taxation, public borrowing and economic development; inflation, foreign finance, investment and foreign aid – controversies and opportunities

**Text Book:**

1. Todaro, Michael P and Stephen C Smith (2006): *Economic Development*, 8<sup>th</sup> Edition, Pearson.

**Reference Book:**

- ❖ Thirlwall, A P (2011): *Economics of Development*, 9<sup>th</sup> Edition, Palgrave Macmillan.

**DSE-6.3 : APPLIED ECONOMETRICS**

**Full Marks - 100**  
**Mid Sem – 20/1 hr**  
**End Sem – 80/3 hrs**

**UNIT-I :**

Stages in Empirical Econometric Research

**UNIT-II : Regression Diagnostics and Specification**

Misspecification; functional forms; model selection.

**UNIT-III : Advanced Topics in Regression Analysis**

*Selected Topics:* Dynamic Econometric Models: distributed lag models; autoregressive models; instrumental variable estimation; simultaneous equation models.

**UNIT-IV : Panel Data Models**

Methods of estimation; fixed effects model; random effects model.

**UNIT-V : Introduction to Econometric Software Package**

Use of econometric software, types of software packages. Use and features of GRETL, SHASAM, & SPSS.

**Suggested Books:**

1. Jeffrey M. Wooldridge, *Econometrics*, CENGAGE learning, India Edition, 2009.
2. Dimitrios Asteriou and Stephen Hall, *Applied Econometrics: A Modern Approach*, Palgrave Macmillan, 2007.
3. Damodar Gujarati, *Econometrics by Example*, Palgrave Macmillan, 201

**OR**

**DSE-6.3 : ENVIRONMENTAL ECONOMICS**

**Full Marks - 100**  
**Mid Sem – 20/1 hr**  
**End Sem – 80/3 hrs**

**UNIT - I: Economy and Environment**

Nature and Scope of Environmental Economics- Environment and Economy interaction; Environment as a public good- Serious environmental problems of Developing Countries – Air pollution, water pollution and deforestation.

Global environmental problems, trade and environment, International Cooperation for Environmental Protections, Montreal and other protocols.

**UNIT - II: The Economics of Pollution and Climate change**

Pollution as externality, The market Approach to optimal pollution, Property rights and market bargain theorems, Coase theorem; Pigouvian Taxation, Subsidies and optimal pollution; Climate change – concept, causes, effects and management.

**UNIT - III: Valuation of Environmental Damage**

Methods and difficulties of environmental valuation, Economic value, Use value, Option value, Existence value; Direct and Indirect Valuation of Environmental Goods: The hedonic price approach, Contingent valuation, Travel cost approach.

**UNIT - IV: Natural Resources and Sustainable Development**

Natural resources- Renewable and exhaustible; Tragedy of commons, People's Participation in the management of common property resources; Sustainable Development Concepts, Sustainability rules, Indicators of sustainability, Solow/Hartwick, Natural capital stock, Safe Minimum Standard.

**Text Book:**

1. Bhattacharya, R. N. (2002): Environmental Economics: An Indian Perspectives, OUP, New Delhi

**Reference Book:**

- ❖ Kolstad, C.D (1999); Environmental Economics Oxford University Press, New Delhi

**DSE-6.4 : INTERNATIONAL ECONOMICS**

**Full Marks - 100**  
**Mid Sem – 20/1 hr**  
**End Sem – 80/3 hrs**

**UNIT - I: Importance of Trade and Trade Theories**

Importance of the study of International Economics; Inter-regional and international trade; Theories of Trade-absolute advantage (Adam Smith), comparative advantage (David Ricardo) and opportunity cost (Haberler); Heckscher-Ohlin theory of trade — its main features, assumptions and limitations (Leontief Paradox) Factor Price Equalization theorem.

**UNIT - II: Trade Policy and International Economic Institutions**

Concepts of terms of trade and their importance; Doctrine of reciprocal demand – Offer curve technique; Gains from trade ;Trade as an Engine of Growth and Concept of immiserizing growth, Tariffs and quotas – their impact in partial equilibrium analysis; General Equilibrium analysis of tariff and the concept of optimum tariff, Functions of IMF (Conditional Clause), Role of IMF in international liquidity, Reforms for the emergence of international monetary system; World Bank and WTO; Their achievements and failures; Their Role from the point of view of India.

**UNIT - III: Exchange Rate**

Concept and Types of Exchange Rate (bilateral vs. trade-weighted exchange rate, cross exchange rate, spot, forward, futures), Demand for and Supply of foreign exchange, Exchange Rate Determination: Mint Parity Theory, Purchasing-Power Parity Theory, Fixed versus Flexible exchange rate.

**UNIT - IV: Balance of Trade and Payments**

Concepts and components of balance of trade and balance of payments; Disequilibrium in balance of payments; Various measures to correct deficit in BOPs (Expenditure switching and expenditure reducing policies, Direct control), Depreciation Vs. Devaluation; Elasticity approach to devaluation, Foreign trade multiplier- Concept and implications.

**Text Book:**

1. Mannur H. G (Recent Edition) *International Economics*, Vikash Publishing

**Reference Books:**

- ❖ Salvatore Dominick, *International Economics*, WileIndia.
- ❖ Sodersten Bo and Reed J, *International Economics*, McMillan Publisher

**OR**

**DSE-6.4 : DISSERTATION / RESEARCH PROJECT**

**Full Marks – 100**  
**End Sem Project– 100**

**(College can give this choice only for students with above 60% aggregate marks)**

**Introduction :** The project is intended to establish the connection between Economics as confined to the text books and class rooms and Economics at play in the ground. It is expected to give an empirical content to the subject. Economics is defined as the study of mankind in the ordinary business of life. It studies individual as well as group behavior. Project work at the undergraduate level is an in-depth study on a topic chosen by the student. The objective of the project work for the students at undergraduate level is to expose students to the social and real world contexts in which the subjects taught in the classroom have applications. Therefore, the topic must be related to the field of study the student is enrolled. It is undertaken with the guidance of a faculty supervisor, and involves a prolonged period of investigation and writing. The supervisor is supposed to help the student and mentor him/her throughout, from selection of the topic to submission of the project report. The project output will be a project report written on the topic, chosen by the student and approved by the guide, in about 10000 words.

The process of project preparation typically comprises of an investigation of a particular topic, based on the application of philosophical and theoretical knowledge available in the already existing scientific literature and other published sources of information. The student may use already available data (texts, documents, artworks or existing data sets) or she may go for collection of data from the field. The final report should ideally have the following sections.

1. Abstract (in about 500 words) containing a summary of the entire report.
2. Introduction of the topic, arguments for choosing such a topic and the key investigation propositions.
3. A review of the existing knowledge on the topic
4. Information on the data and data treatment tools used in the study
5. An analysis of data and findings
6. Conclusions
7. References

A good research project requires sincere efforts and honest dedication from students. Moreover, it requires an engagement of the student with an issue under probe for a fairly long period of time compared to their preparations of subjects for the examination. A successful completion of the project report has several positive learning outcomes for the student. It empowers the student with the life skill of patience and persistence. It also helps the student to locate her theoretical understandings in the context of socio-economic and political realities.

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