

**GOVERNMENT COLLEGE (AUTONOMOUS),
BHAWANIPATNA**

(College with potential for excellence)



COURSES OF STUDIES

**FOR THREE YEAR DEGREE COURSE
IN
ARTS
(UNDER CBCS)**

SUB: ECONOMICS

Semester-I	2017	Semester-II	2018
Semester-III	2018	Semester-IV	2019
Semester-V	2019	Semester-VI	2020

Published by:
Government College (Autonomous), Bhawanipatna
Bhawanipatna-766001, Kalahandi (Odisha)
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COURSE STRUCTURE

		Paper Code	Credit Points
Semester-I	1	AECC-1	02
	2	GE-1	06
	3	CORE-1	06
	4	CORE-2	06
		TOTAL	20
Semester-II	1	AECC-2	02
	2	GE-2	06
	3	CORE-3	06
	4	CORE-4	06
		TOTAL	20
Semester-III	1	SEC-1	02
	2	GE-3	06
	3	CORE-5	06
	4	CORE-6	06
	4	CORE-7	06
		TOTAL	26
Semester-IV	1	SEC-2	02
	2	GE-4	06
	3	CORE-8	06
	4	CORE-9	06
	4	CORE-10	06
		TOTAL	26
Semester-V	1	CORE-11	06
	2	CORE-12	06
	3	DSE-1	06
	4	DSE-2	06
		TOTAL	24
Semester-VI	1	CORE-13	06
	2	CORE-14	06
	3	DSE-3	06
	4	DSE-4	06
		TOTAL	24
		GRAND TOTAL	140

C O N T E N T

	Paper Code	Page No.
1	AECC	03
2	SEC	07
3	GE	09
4	CORE	21
5	DSE	31

ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)

SEMESTER-I

AECC-1: ENGLISH COMMUNICATION

CREDITS: 2, (Theory=2)

(Total Marks: 50, Mid Sem=10, Term End=40, Duration: 2 hrs)

This course aims at enhancing the English language proficiency of undergraduate students in humanity, science and commerce streams to prepare them for the academic, social and professional expectations during and after the course. The course will help develop academic and social English competencies in speaking, listening, pronunciation, reading and writing, grammar and usage, vocabulary, syntax, and rhetorical patterns.

Students, at the end of the course, should be able to use English appropriately and effectively for further studies or for work where English is used as the language of communication.

MODULE-1: Reading Comprehension [15]

- Locate and remember the most important points in the reading
- Interpret and evaluate events, ideas, and information
- Read "between the lines" to understand underlying meanings
- Connect information to what they already know

MODULE-2: Writing [15]

Expanding an Idea	Writing a Memo	Report Writing
Creative Writing	News Story	Setting in Creative Writing
Writing a Business Letter	Letters to the Editor	Précis Writing
CV & Resume Writing	Dialog writing	Covering Letter
Writing Formal Email	Elements of Story Writing	Note Making
Information Transfer	Interviewing for news papers	

MODULE-3: Language functions in listening and conversation [06]

1. Discussion on a given topic in pairs
2. Speaking on a given topic individually

(Practice to be given using speaking activities from the prescribed textbooks)

Grammar and Usage [14]

Simple and Compound Sentences; Complex Sentences; Noun Clause; Adjective Clause; Adverb Clause; The Conditionals in English; The Second Conditional; The Third Conditional; Words and their features; Phrasal Verbs; Collocation; Using Modals; Use of Passives; Use of Prepositions; Subject-verb Agreement; Sentence as a system; Common Errors in English Usage

Examination pattern

Each reading and writing question will invite a 200 word response.

Language function questions set in context will carry 01 mark per response. There will be 15 bit questions.

Midterm test:	Writing : 1 question	04 x 01qn = 04 marks	
	Speaking: 2 questions	03x02 qns = 06 marks	
	Total	10 marks	
Term End :	MODULE-1	Reading: 05 questions	03x 05 qns= 15 marks
		(3 prose and two poetry questions)	
	MODULE-2	Writing: 03 questions	05 x 03 qns= 15 marks
	MODULE-3	Grammar & usage: 10 qns	01x 10 qns = 10 marks
	Total		40 marks

Grammar questions must be set in contexts; not as isolated sentences as used for practice in the prescribed textbook.

Book Prescribed

Vistas and Visions: An Anthology of Prose and Poetry. (Ed.)Kalyani Samantray, Himansu S. Mohapatra, Jatindra K. Nayak, Gopa Ranjan Mishra, Arun Kumar Mohanty, OBS

Texts to be studied : Prose (Decoding Newspapers, The Gold Frame, Of Truth, Lifestyle English)

Poetry (Lines Composed a few miles above Tintern Abbey, Sonnet 46 (Shakespeare), Pigeons)

All grammar and writing activities in the textbook



AECC-1: ODIA

SEMESTER-I

ଆସ୍ଥାମ୍ୟାକ-୨, ମୋଟ୍‌ଗ୍ରେଣୀପାଠଦାନ-୨୦ ଘଣ୍ଟା, ଛୁଟିଫୁଲ-୫୦, ପରୀକ୍ଷା ସମୟ-୨ ଘଣ୍ଟା
ପାଠ୍ୟପୁସ୍ତକଗଣ ଶାନ୍ତିପାଠ୍ୟକୁ ବାଛିବାକୁ ହେବ ।

ପାଠ୍ୟ-୧

ଉପାଂଶ-୧: (ଗଳ୍ପବିଭାଗ) ଗଳ୍ପ ତରଂଗ-ପ୍ରକାଶକ ସମ୍ବଲପୁର ସାହିତ୍ୟ ସଂସଦ
ଭଗବାନ ମଲାପରେ-ମହାପାତ୍ର ନୀଳମଣି ସାହୁ
ବିଷକନ୍ୟା କାହାଣୀ-ମନୋଜ ଦାସ
ଦ୍ଵିତୀୟଶ୍ଳୋକ-ରାମଚନ୍ଦ୍ର ବେହେରା
ଝୁଟି ପ୍ରଶ୍ନୋତ୍ତର ପ୍ରଶ୍ନର ଉତ୍ତର ପାଞ୍ଚଶହ ଶବ୍ଦରେ ଲେଖିବାକୁ ହେବ । (୧୦)

ଉପାଂଶ-୨: (କବିତାଗ୍ର) ଅଦ୍ଭୁତଭବାର-ସୁପ୍ରସାସ ମହାନ୍ତି
ଲକ୍ଷ୍ମୀନ-ରମାକାନ୍ତ ରଥ
କୁଞ୍ଜବିହାର-ପ୍ରତିଭା ଶତପଥୀ
ଝୁଟି ପ୍ରଶ୍ନୋତ୍ତର ପ୍ରଶ୍ନର ଉତ୍ତର ପାଞ୍ଚଶହ ଶବ୍ଦରେ ଲେଖିବାକୁ ହେବ । (୧୦)

ଉପାଂଶ-୩: (ଅବବୋଧ) ଧକଶହପଦାଶ ଶବ୍ଦର ଧକ ଅନୁଚ୍ଛଦ ପ୍ରଦାନ କରାଯିବ ।
୫ଟି ପ୍ରଶ୍ନ ପତ୍ରର ଧକ ପ୍ରତ୍ୟେକ ପ୍ରଶ୍ନକୁମ୍ପୂର୍ଣ୍ଣ । (୫x୨(୧୦=

ଉପାଂଶ-୪: (ଭାବ ସଂପ୍ରସାରଣ) କୌଣସି ଧକ ଛଳୁ ପ୍ରଶ୍ନଭାବରେ ପ୍ରଦାନ କରାଯିବ । (୧୦)

ଉପାଂଶ-୫: (ବିଭକ୍ତି ବ୍ୟାକରଣ)
ଆଠଟିରୁପାଞ୍ଚଟି ପ୍ରଶ୍ନର ଉତ୍ତର ଦେବାକୁ ହେବ । ପ୍ରତ୍ୟେକ ପ୍ରଶ୍ନକୁମ୍ପୂର୍ଣ୍ଣ ନମ୍ବର । (୫x୨=୧୦)

ପାଠ୍ୟ-୨ / Course-୨ : ସଂପର୍କ ଅନୁକ୍ରମ

- ଉପାଂଶ-୧: ସଂପର୍କର ଉତ୍ପତ୍ତିରୁଭାଷା ଅନୁକ୍ରମ ଓ ପରିସର
- ଉପାଂଶ-୨: ସଂପର୍କର ପ୍ରକାରଭେଦ କଥିତ-ଲିଖିତ ବ୍ୟକ୍ତିଗତ-ସାମାଜିକ-ସାଂସ୍କୃତିକ-ବ୍ୟାବସାୟିକ-ସାହିତ୍ୟିକ
- ଉପାଂଶ-୩: ସଂପର୍କର ବାଧକ ଓ ସଫଳସାଧନର ଦିଗ
- ଉପାଂଶ-୪: ସଂପର୍କରେ ସାହିତ୍ୟର ଭୂମିକା
- ଉପାଂଶ-୫: ସଫଳ ସଂପର୍କର ଭାଷା

ପାଠ୍ୟ-୩ / Course-୩ : ସଂପର୍କର ରାତ୍ରି ଭଙ୍ଗ ଓ ମାଧ୍ୟମ

- ଉପାଂଶ-୧: ସ୍ଵଗତକଥନ ଓ ସାମାଜିକ ଭଙ୍ଗ/ ସାହିତ୍ୟ-ମାଧ୍ୟମ ଓ ଯୋଗାଯୋଗ
- ଉପାଂଶ-୨: ଦଳଗତ ଆଲୋଚନା ଓ ବିତର୍କ
- ଉପାଂଶ-୩: ସାକ୍ଷାତ୍‌କାର
- ଉପାଂଶ-୪: ପତ୍ରଲିଖନ ପଦ୍ଧତି/ ବିବରଣୀ ଲିଖନ
- ଉପାଂଶ-୫: ବୈଜ୍ଞାନିକ ପଦ୍ଧତି ଓ ସଂପର୍କର ଭାଷାଭାଷା, ସଂସ୍କୃତ ଜ୍ଞାନା ପ୍ରେରଣା, ଦୃଶ୍ୟଶ୍ରାବ୍ୟ ସଂଚାର ବିଧାନ ଡ୍ଵେବସାଇଟ୍, ଆନ୍ତର୍ଜାତିକ ପଦ୍ଧତି ଇଣ୍ଟରନେଟ୍)

ଗ୍ରନ୍ଥ ତାଲିକା

- ୧- ଗଳ୍ପତରଂଗ- ପ୍ରକାଶକ ସମ୍ବଲପୁର ସାହିତ୍ୟ ସଂସଦ ।
- ୨- ସଂଯୋଗ ଅନୁକ୍ରମବ୍ୟାବହାରିକ ଓଡ଼ିଆ ଭାଷା ଓ ପ୍ରୟୋଗାତ୍ମକ ବ୍ୟାକରଣସମ୍ବୋଧି ତ୍ରିପାଠ୍ୟ ନାଳନ୍ଦା, କଟକ ।
- ୩- ପ୍ରାୟୋଗିକ ଓଡ଼ିଆ ଭାଷା ଓଡ଼ିଶା ରାଜ୍ୟ ପାଠ୍ୟପୁସ୍ତକ ପ୍ରଣୟନ ଓ ପ୍ରକାଶନ ସଂସ୍ଥା ।
- ୪- ସମ୍ବନ୍ଧ ଓ ସାମ୍ବାଦିକଚାରସମ୍ପର୍କ ମହାପାତ୍ର, ଓଡ଼ିଶା ରାଜ୍ୟ ପାଠ୍ୟପୁସ୍ତକ ପ୍ରଣୟନ ଓ ପ୍ରକାଶନ ସଂସ୍ଥା ।
- ୫- କବିତାଗ୍ରୀ ।
- ୬- ଆଧୁନିକ ଓଡ଼ିଆ ବ୍ୟାକରଣ ଧନେଶ୍ଵର ମହାପାତ୍ର ।



MODULE-1: कविता

- (i) कबीर - साखी : १ से १०
- (ii) तुलसी - विनयपत्रिका - पद १ और २
- (iii) प्रसाद - मधुमय देश
- (iv) निराला - भिक्षुक
- (v) अज्ञेय - हिरोशिमा

MODULE-2: गद्य

- (i) रामचन्द्र शुक्ल - उत्साह
- (ii) हजारी प्रसाद द्विवेदी - कुटज
- (iii) हरिशंकर परसाई - सदाचार का तावीज

MODULE-3: शब्द ज्ञान

- (i) शब्द सुद्धि
- (ii) बाक्य सुद्धि
- (iii) पययिवाची शब्द
- (iv) विलोम शब्द

MODULE-4: सामान्य ज्ञान

- (i) निबंध लेखन

अंक विभाजन:

विभाग - (क)	अपर्युक्त इकाइयों I, II और IV से 03 प्रश्न पूछे जाएँगे। उनमें से 02 के उत्तर लिखने होंगे। (प्रत्येक उत्तर 700- 1000 शब्दों के बिच)	10X2=20
विभाग - (ख)	अपर्युक्त इकाइयों I और II से 04 पद्यांश / गद्यांश पूछे जाएँगे। जिनमें से 02 के उत्तर लिखने होंगे। (प्रत्येक उत्तर 400-500 शब्दों के बिच)	05X2=10
विभाग - (ग)	युनिट III से अति संक्षीप्त प्रश्न पूछे जाएँगे।	02X5=10
	End Semester	40
	Internal	10
	Total	50

पाठ्य पुस्तक:

हिन्दी प्रसून - सं डॉ अंजुमन आरा, प्लानेट भी, कटक

SEMESTER-II

ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)

AECC-II: ENVIRONMENT STUDIES (ENVS)

(CREDITS: 2, Theory=2)

(Total Marks: 50, Mid Sem=10, Term End=40, Duration: 2 hrs)

MODULE-1: Introduction to environmental studies and Ecosystem [BOTANY Dept]

Multidisciplinary nature of environmental studies;

Scope and importance; Concept of sustainability and sustainable development.

Ecosystems : [ZOOLOGY Dept]

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 aquatic ecosystems (ponds) (8 lectures)

MODULE-2:

Natural Resources: Renewable and Non-renewable Resources [ZOOLOGY Dept]

- Land resources and land use 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 & inter-state).
- Energy resources : Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies. (8 lectures)

MODULE-3: Biodiversity and Conservation [BOTANY Dept]

- 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. (8 lectures) [BOTANY Dept]

MODULE-4: Environmental Pollution [CHEMISTRY Dept]

- 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.
- global warming, ozone layer depletion. (8 lectures)

References:

1. Singh, J.S., Singh, S.P. and Gupta, S.R. 2014. *Ecology, Environmental Science and Conservation*. S.Chand Publishing, New Delhi.
2. Das and Mishra . Man and Environment.
3. S. Swain. Environmental Studies.
4. M C Dash. Fundamental of Ecology.
5. Shukla and Chandel. A Text Book of Plant Ecology.

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SKILL ENHANCEMENT COURSE (SEC)

SEMESTER-III

SEC-1: COMMUNICATIVE ENGLISH AND WRITING SKILL

(CREDITS: 2, Theory=2)

(Total Marks: 50, Mid Sem=10, Term End=40, Duration: 2 hrs)

MODULE-1: Communication Process: 10 Marks (1 long question / 2 short questions)

- Process of Communication, Characteristics of Business Communication, Inter-personal, Intra-personal and Group communication
- Definition, Objectives, Process, Channels and importance of Communication
- Principles of effective communication and Barriers to effective Communication.
- Types of Communication – Written, Verbal, Non-verbal, informal and Formal and Grape-vine
- Written Communication – Writing letters for inquiries, orders, complaints and claims, Condolence, Complement letters.

MODULE-2: Analytical Grammar: 10 Marks (1 x 10 = 10)

- **Vocabulary** : Phrasal Verbs, Synonyms, Antonyms, Idioms, Commercial Terms, Countable and uncountable Nouns, Tense Patterns, Modal Verbs, Prepositions and Phrasal Verbs, The Imperatives, Interrogative, The Passive, Direct and Reported Speech.

MODULE-3: WRITING SKILL: 10 Marks (1 long question/ 2 short questions)

- Writing paragraph, developing ideas into paragraphs, writing personal letters and notes, writing applications, official letters and business letters, writing curriculum vitae/resume, writing e-mails, sms, advertisement and short notes.

MODULE-4: Creative Skills 10 Marks (1 long question)

- Reporting (on issues, events and business matters), Note making and summarising, Description of objects/events/process, Writing and designing pamphlet/brochure, Writing Review/ comment.

Recommended reading:

1. Fluency in English – Part I & II, Oxford University Press.
2. A. J. Thomson & A. V. Martinet, Practice English Grammar.
3. L. Gartside (ELBS) Modern Business Letters.
4. Business English, Pearson, 2008
5. Pradhan, Bhende and Thakur – Business Communication, Himalaya Publishing House.
6. U. S. Rai & M. S. Rai, Business Communication, Himalaya Publishing House, Bombay.
7. Language, Literature and Creativity, Orient Blackswan 2013

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SEMESTER-IV

SEC-2: BASIC COMPUTER APPLICATION

(CREDITS: 2, Theory=2)

(Total Marks: 50, Mid Sem=10, Term End=40, Duration: 2 hrs)

Total Classes: 30 (Thirty)

MODULE-1: 4 classes

Introduction: Introduction to computer system: Computer, Hardware , Software, Types of software, Types of Computer, uses of computer.

MODULE-2: 6 Classes

Human Computer Interface: Operating system as user interface, utility programs, Input and output devices: Keyboard, Mouse, Joystick, Scanner (OCR, OBR, OMR, MICR), Digital Camera, Touch Screen. Monitor, Printer, Plotter,

Windows-Introduction, functions, properties and different versions, working with Start Menu, Control Panel, Explorer, Desktop and Icons, My computer, Recycle bin, My Document, Good practices to make the windows run efficiently.

MODULE-3: 6 classes

Memory: Primary, secondary, auxiliary memory, RAM, ROM, cache memory, hard disks, optical disks, USB storage, Memory Card, C.P.U., registers,ALU, Control Unit, system bus, processors(only basic idea about function and type).

MODULE-4: 5 classes

VIRUS –Meaning, function, characteristics and types, Uses of Firewall and Antivirus.

Electronic mail and its features- inbox, composing mails, sending mail, thrash, spam folder in email.

MODULE-5: 9 classes

Introduction to Ms.Office:

Ms.Word: Creating a file, Page formatting, editing, printing, saving a file, bullet and numbering, spell check, indenting, paragraph formatting, find and replace.

Ms. Excel: Spread sheet and its uses, Setting column and row, Inserting formula and uses of various functions(AND, IF, NOT, OR, SUM, MAX, COUNT, COUNTA, COUNTIF, AVERAGE), use of Auto sum, Formatting cell, printing, copying and saving.

Ms.Power Point: Features, Uses, Menus, Tool bar, template and wizard, creating animation and effects, saving, deleting and opening a presentations. characteristics of a good presentation.

Reference Book:

1. Computer Fundamental by PK Sinha – BPB publication.
2. Ms.Office 2007 by Rutkoshy, Seguin – BPB publication.
3. Goel, Computer Fundamentals, Pearson Education, 2010.

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GENERIC ELECTIVE (GE)

EDUCATION

SEMESTER-I

GE-1: VISION OF EDUCATION IN INDIA :ISSUES AND CONCERNS

(CREDITS: 6, Theory=4 + Practical=2)

(Total Marks: 100, Mid Sem=15, Practical=25, Term End=60: Duration: 3 hrs.)

MODULE-1: Normative vision of Indian Education

Normative orientation of Indian Education: A historical enquiry.

Constitutional provisions on education that reflect national ideas : Democracy, Equity, Liberty, Secularism and social justice

India as an evolving nation state : Vision, nature and salient feature – Democratic and secular polity, federal structure : Implications for educational system .

Aims and purposes of education drawn from the normative vision.

MODULE-2: Vision of Indian Education : Four Indian thinkers

An overview of salient features of the “Philosophy and Practice” of education advocated by these thinkers.

Rabindranath Tagore : Liberationist pedagogy

M.K. Gandhi : Basic Education

Jiddu Krishnamurty : Education for Individual and social Transformation

Sir Aurobindo : integral Education

MODULE-3: Concern for Equality in Education: Concerns and Issues

Universalisation of school education

(i) Issues of (a) Universal enrollment , (b) Universal Retention, (c) Universal success

(ii) Issues of quality and equity

MODULE-4: Concern for Equality in Education

Equality of Educational opportunity

Prevailing nature and forms of inequality including Dominant and Minor groups and the related issues.

Inequality in schooling : Public-private schools, Rural-urban schools, single teachers schools and many other forms of inequalities in school systems and the process leading to disparity.

Idea of common school system

MODULE-5: Education and Development – an interface

Education for National Development : Education Commission (1964-66)

Emerging trends in the interface between:

Political process and education

Political process and education

Economic Development and Education

Social cultural – changes in Education

REFERENCES

1. Agrawal, J.C. & Agrawal S.P. (1992). Role of UNESCO in Educational, Vikas Publishing House, Delhi.
2. Anand, C.L et.al. (1983). Teacher and Education in Emerging in Indian Society, NCERT, New Delhi.
3. Govt. of India (1986). National Policy on Education, Min. of HRD, New Delhi.
4. Govt. of India (1992). Programme of Action (NPE). Min of HRD,
5. Mani, R.S. (1964). Educational Ideas and Ideals of Gandhi and Tagore, New Book Society, New Delhi.
6. Manoj Das (1999). Sri Aurobindo on Education, National Council for Teacher Education, New Delhi.
7. Mistry, S.P. (1986). Non-formal Education-An Approach to Education for All, Publication, New Delhi.
8. Mohanty, J., (1986). School Education in Emerging Society, sterling Publishers.
9. Mukherji, S.M., (1966). History of Education in India, Acharya Book Depot, Baroda.
10. Naik, J.P. & Syed, N., (1974). A Student's History of Education in India, MacMillan, New Delhi.

PRACTICAL: Mark 25 / Credit- 2

Each student is required to prepare a term paper on the educational ideas of any Indian Thinkers or on any contemporary issues on Education.

Distribution of Marks : Record=20 marks; Viva voce=05 marks

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EDUCATION
SEMESTER-II

GE-2: ASSESSMENT AND EVALUATION TECHNIQUES

(CREDITS: 6, Theory=4 + Practical=2)

(Total Marks: 100, Mid Sem=15, Practical=25, Term End=60: Duration: 3 hrs.)

MODULE-1: The Measurement, Evaluation and Assessment Process

Educational Testing and Assessment : Context, Issues and Trends.

The Role of Measurement, Evaluation and Assessment in Teaching.

Instructional Goals and objectives : Foundation for Assessment.

Types of Assessment: Placement, Formative, Diagnostic and Summative.

MODULE-2: Classroom tests and Assessment

Planning classroom tests and assessment

Constructing objective test items: simple forms and multiple choice forms.

Constructing Essay type questions: Form and uses; suggestions for scoring essay questions.

MODULE-3: Alternative Techniques of Assessment

Observational Technique: Observation schedule, Anecdotal Records, Rating scales, Checklists

Self – reporting Techniques: Interview, portfolio, questionnaire and inventories.

Peer – appraisal: “Guess who” technique, sociometric technique.

MODULE-4: Processing and Reporting in Assessment

Processing qualitative evaluation data: Content Analysis

Considerations for reporting the performance

Scheme of reporting: criterion – reformed and non reformed interpretation.

Combining mark or grades over different subjects and reporting results of assessment to different users.

MODULE-5: Contemporary Trends in Assessment

Marks vs Grading system

Credit system

Concept of Continuous and Comprehensive Evaluation (CCE)

Computers in student evaluation

REFERENCES

1. Aggrawal, J.C. (1997). Essentials of Examination System, Evaluation, Tests and Measurement. New Delhi: Vikas Publishing House Pvt Ltd.
2. Banks, S.R. (2005). Classroom Assessment: Issues and Practices. Boston: Allyn & Bacon.
3. Blooms, B.S.(1956). Taxonomy of Educational Objectives. New York: Longman Green and Company
4. Cooper, D. (2007). Talk About Assessment, Strategy and Tools to Improve Learning. Toronto: Thomson Nelson
5. Earl, L.M. (2006). Assessment as Learning: Using Classroom Assessment to Maximize Student Learning. Thousand Oaks, California: Corwin Press
6. Gronlund, N.E. (2003). Assessment of student Achievement. Boston: Allyn & Bacon.
7. Kaplan, R.M. & Saccuzzo. D.P. (2000). Psychological Testing, Principles, Applications & Issues. California: Wordsworth.
8. Linn, R.L. & Gronlund, N.E. (2000). Measurement and Assessment in Teaching London: Merrill Prentice Hall.

PRACTICAL: Mark 25 / Credit- 2

Achievement Test Construction

Each student is required to construct 50 objective based objective type test items along with a blue print.

Distribution of Marks : Record=20 marks; Viva voce=05 marks

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ENGLISH
SEMESTER-I

GE-1: ACADEMIC WRITING AND COMPOSITION

(CREDITS: 6, Theory=6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

MODULE-1: Instruments of writing I

- Vocabulary development: synonyms and antonyms; words used as different parts of speech; vocabulary typical to 'science' and 'commerce'
- Collocation; effective use of vocabulary in context

MODULE-2: Instruments of writing II

- Syntax: word order; subject-predicate; subject-verb agreement; simple, complex, compound, compound-complex sentences; structure and uses of active and passive sentences
- Common errors in Indian writing

MODULE-3: Academic writing I

- What is academic writing?
- The formal academic writing process: the 'what' and the 'how' of writing; use of cohesive and transitional devices in short and extended pieces of writing

MODULE-4: Academic writing II

- Paragraph writing: topic sentence, appropriate paragraph development ; expository, descriptive, narrative and argumentative paragraphs
- Extended pieces of writing: process development using comparison-contrast, cause and effect, argumentation, and persuasion

MODULE-5: Research writing: writing research papers and projects

- Mechanics of research writing; principles of citation; summarizing and paraphrasing
- Identifying a potential research topic; preparing a synopsis; literature review; data collection and analysis; deriving conclusions from analysis

Texts prescribed

1. K Samantray, *Academic and Research Writing: A Course for Undergraduates*, Orient BlackSwan
2. Leo Jones (1998) *Cambridge Advanced English: Student's Book* New Delhi: CUP
3. Stanley Fish (2011) *How to Write a Sentence*

Pattern of examination: End Semester examination [80 marks]

Using texts (600 -700 words), students will be tested for

- Use of vocabulary in context **05 bits X 02 marks= 10marks**
- Use of grammar in context **05 bits X 02 marks= 10 marks**
- Use of cohesive and transitional devices in one paragraph **10 bits X 02 marks=20 marks**
- Writing two paragraphs (expository/ descriptive/ narrative/argumentative) using topic sentences **2qns x 10 marks= 20marks**
- Correcting in-text citation from given input **5bits x 02 marks=10marks**
- Preparing a correct version of Works Cited page from given input **05bits x 02 marks= 10marks**

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ENGLISH
SEMESTER-II

GE-2 : MODERN INDIAN LITERATURE

(CREDITS: 6, Theory=6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

The paper aims at introducing students to the richness and diversity of modern Indian literature written in many languages and translated into English.

MODULE-1: Historical Overview

Background, definition of the subject and historical perspectives will be covered.

MODULE-2: The Modern Indian Novel

Fakir Mohan Senapati: *Six Acres and a Third* Or U. R. Ananthamurthy: *Sanskara*

MODULE-3: The Modern Indian Short Story

Selected stories by Fakir Mohan Senapati: "Rebati", Rabindra Nath Tagore: "Post Master"
Premchand: "The Shroud", Ishmat Chughtai: "Lihaaf"

MODULE-4: Modern Indian Life Writing

Excerpts from M.K. Gandhi's *Story of My Experiments with Truth* (First two chapters), Amrita Pritam's *The Revenue Stamp* (first two chapters), *Autobiography* by Rajendra Prasad (chapter six & seven)

MODULE-5: The Modern Indian Essay

A. K. Ramanujan "Is there an Indian Way of Thinking? An Informal Essay" *Collected Essays*, OUP, 2013

"Decolonising the Indian Mind" by Namwar Singh. Tr. Harish Trivedi *Indian Literature*, Vol. 35, No. 5 (151) (Sept.-Oct., 1992), pp. 145-156

G. N. Devy's introduction to *After Amnesia*, pp. 1-5, *The G. N. Devy Reader*, Orient BlackSwan, 2009.

Suggested Readings:

1. Sisir Kumar Das, *History of Indian Literature 1910-1956, Triumph and Tragedy*, Sahitya Akademi, New Delhi, 2000
2. Amit Chaudhuri, *The Vintage Book of Modern Indian Literature*, 2004
3. M.K. Naik, *A History of Indian English Literature*, Sahitya Akademi, 2004

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HISTORY

SEMESTER-I

GE-1 : MAKING OF CONTEMPORARY INDIA

(CREDITS: 6, Theory=6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

MODULE-1: Towards Independence and Emergence of the New State Government of India Act 1935, Negotiations for Independence and Popular Movements
Partition: Riots and Rehabilitation.

MODULE-2: Making of the Republic The Constituent Assembly

Drafting of the Constitution

MODULE-3: Integration of Princely States

MODULE-4: Non Aligned Movement

MODULE-5: Economy Society and Culture c 1950-1970s; The Land Question, Planned Economy, Industry.

ESSENTIAL READINGS

1. Granville Austin, *Indian Constitution: Cornerstone of a Nation*, New Edition, OUP, 2011_Francine Frankel, *India's Political Economy*,
2. 1947-2004, New Delhi: Oxford University Press, 2006.
3. Paul Brass, *The Politics of India Since Independence*, Cambridge:
4. Cambridge University Press, 1994. Ram Chandra Guha, *India after*
5. Gandhi: *The History of the World's Largest Democracy*, New Delhi:
6. Picador, 2007

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HISTORY

SEMESTER-II

GE-2: HISTORY OF INDIA (C. 1857 - 1950)

(CREDITS: 6, Theory=6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

MODULE-1: Cultures changes and Social and Religious Reform Movements:

The advent of printing and its implications

Reform and Revival: Brahma Samaj, and Ramakrishna and Vivekananda, Arya Samaj, Caste: sanskritisation and Westernization trends

MODULE-2: Nationalism: Trends up to 1919:

Formation of INC, Moderates and extremists trends in INC.; Swedish movement Revolutionaries

MODULE-3: Gandhian nationalism after 1919: Ideas and Movements:

Mahatma Gandhi: his Perspectives and Methods

Rowlett Act, Jallianwala Bagh Massacre, Non- Cooperation, Civil Disobedience, Quit India Formation and Role of INA

States people movements and Integration of princely states

MODULE-4: Communalism:

Ideologies and practices, RSS, Hindu Maha Sabha, Muslim League.

MODULE-5: Independence and Partition

Negotiations for independence; Indian Independence Act 1947; Partition

ESSENTIAL READINGS

Judith Brown, Gandhi's rise to Power, 1915-22.

Paul Brass, The Politics of India Since Independence, OUP, 1990.

Bipan Chandra, Nationalism and Colonialism in Modern India, 1979.

Bipan Chandra, Rise and Growth of Economic Nationalism in India.

Mohandas K. Gandhi, An Autobiography or The Story of My Experiments with Truth.

Ranajit Guha, ed., A Subaltern Studies Reader.

Peter Hardy, Muslims of British India.

Mushirul Hasan, ed., India's Partition, Oxford in India Readings.

John R. McLane, Indian Nationalism and the Early Congress.

Jawaharlal Nehru, An Autobiography.

Gyanendra Pandey, The Construction of Communalism in colonial north India.

Sumit Sarkar, Modern India, 1885-1947.

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SANSKRIT

SEMESTER-I

GE-1: MORAL TEACHINGS AND BASICS OF SANSKRIT

(CREDITS: 6, Theory=6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

(‘a’ karanta, ‘i’ karanta, ‘ī’ karanta, ‘u’ karanta, ‘ū’ karanta, ‘in’ bhaganta, Mātr, Pitr, Asmad, Yusmad, Tad(sabdarupas). Lat, Lañ, Vidhiliñ, Lṛt, Lot and Litlakaras of Path, Ni, Kr, Sev, Han, Pā, Dā, Śru, Śī and Krīñ in the form of Ātmanepada, Parasmaipada or Ubhayapada whichever is applicable. (Dhaturupas)

MODULE-1 & 2: *Hitopodeśa* (From *Kathamukha* to *Gṛdhravidalakatha*) 30 Marks

Long Question-1

15 Marks

Short Questions-3

5×3= 15 Marks

MODULE-3 & 4: *Yaksaprasna of Mahabharata*

30 Marks

Long Question-1

15 Marks

Explanation - 1

8 Marks

Textual Translation of a Verse

7 Marks

MODULE-5: *Śabdarupa & Dhaturupa*

20 Marks

Śabdarupa -5

2×5= 10 Marks

Dhaturupa -5

2×5= 10 Marks

Books for Reference:

1. *Hitopadesah(Mitralabhah)* (Ed.) Kapildev Giri, Chaukhamba Publications, Varanasi.
2. *Hitopadesah (Mitralabhah)* (Ed.) N.P. Dash and N.S. Mishra, Kalyani Publishers, New Delhi
3. *Vyakaranadarpana*, The Odisha State Bureau of Text Book Preparation and Production, Bhubaneswar, 2013
4. Critical edition of the *Mahabharata*, (Ed.) V.S. Sukthankar, BORI, Pune *Mahabharata*, Gitapress, Gorakhpur

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SANSKRIT

SEMESTER-II

GE-2: POETRY & HISTORY OF SANSKRIT LITERATURE (SANSGE-2)

(CREDITS: 6, Theory=6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

1. Meghadutam- (Purvamegha)	50 Marks
MODULE-1: Long Question-1	15 Marks
MODULE-2: Short Questions-2	15 Marks (7 ½ X 2)
MODULE-3: i) Explanation of One Verse ii) Translation of One Verse	12 Marks 08 Marks
2. History of Sanskrit Literature-II	30 Marks
MODULE-4: (<i>Gitikavyas&Khandakavyas</i>) Long Question-1 Short Question-1	10 Marks 05 Marks
MODULE-5: (<i>Gadyakavyas, Kathasahitya</i>) Long Question-1 Short Question-1	10 Marks 05 Marks

Books for Reference:

1. *Meghadutam* (Ed.) S.R. Ray, Sanskrit Pustak Bhandar, 38 Cornwallis St., Calcutta
2. *Meghadutam* (Ed.) M.R. Kale, Motilal Banarsidass, Delhi
3. *Meghadutam* (Ed.) Radhamohan Mahapatra, Books and Books, Vinodvihari, Cuttack, 1984
4. *Meghadutam* (Ed.) B.S. Mishra, Vidyapuri, Cuttack, 1st Edn-1999
5. *Samskrta Sahitya ka Itihasa*, Baladeva Upadhyaya, Choukhamba, Varanasi.
6. *Samskrta Sahitya ka Ruparekha*, Vacaspati Goreilla, Choukhamba Vidyabhavan, Varanasi.
7. *Samskrta Sahitya Itihasa*, H.K. Satapathy, Kitab Mahal, Cuttack

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SOCIOLOGY

SEMESTER-I

GE-1: INTRODUCTION TO SOCIOLOGY

(CREDITS: 6, Theory=6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

- MODULE-1: Sociology:** Definition and Subject matter, Nature and Scope, Emergence of Sociology, Sociology and its relationship with Anthropology, Political Science, Economics, and History
- MODULE-2: Basic Concepts:** Society, Culture, Community, Institutions, Association, Social Structure, Status and Role, Norms and Values, Folkways and Mores
- MODULE-3: Individual and Society :** Individual and society, Socialization, Stages and agencies of Socialization, The Concept of Group : Types of Groups – Primary and Secondary groups, In-Group and Out-group, Reference Group
- MODULE-4: Social Stratification:** Caste, Class, Power, Gender and Race. Theories of Stratification – Functionalist, Marxist, Weberian. Social mobility and its determinants.
- MODULE-5: Social Control:** Meaning and types, Formal and Informal social control, Agencies of Social control
- Social Processes:** Associative and Dissociative processes – Cooperation, Assimilation, accommodation, Competition, and conflict

SOCIOLOGY

SEMESTER-II

GE-2: INDIAN SOCIETY

(CREDITS: 6, Theory=6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

MODULE-1 : Composition of Indian Society : Religious composition, ethnic composition, caste composition. Unity in Diversities. Threats to National Integration: Communalism, Castesim, Linguism and Regionalism.

MODULE-2: Historical moorings and bases of Hindu Social Organization, Varna, Ashrama and Purushartha. Doctrine of Karma.

MODULE -3 : Marriage and Family in India. Hindu marriage as Sacrament, Forms of Hindu Marriage. The Hindu joint family: Patriarchal and Matriarchal systems. Hindu Marriage Act of 1955. Changes in Marriage and Family.

MODULE-4 : The Caste system in India: Origin, Features and Functions. Caste and Class, The Dominant Caste, Changes in Caste system, Caste and Politics in India. Constitutional and legal provisions for the Scheduled Castes, Scheduled Tribe.

MODULE-5: Social Change in Modern India: Sanskritization, Westernization, Secularization, and Modernization.

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ANTHROPOLOGY

SEMESTER-III

GE-3: ANTHROPOLOGY OF RELIGION, POLITICS AND ECONOMY

(CREDITS: 6, Theory=4 + Practical=2)

(Total Marks: 100, Mid Sem=15, Practical=25, Term End=60: Duration: 3 hrs.)

MODULE-1: Anthropological approaches to understand religion- magic, animism, animatism, totemism, naturism; witchcraft and sorcery; Religious specialists: shaman, priests, mystics;

MODULE-2: Overview of Anthropological Theories of Religion; Religion as the sacrality of ecological adaptation and socialness.

MODULE-3: Economic institutions: principles of production, distribution, and consumption in simple and complex societies; critical examination of relationship between economy and society through neoclassical, substantivist, and neo-Marxist approaches, various forms of exchange: barter, trade and market; Forms of currencies; reciprocities: generalized, balanced and negative.

MODULE-4: Political institutions: concepts of power and authority; types of authority; state and stateless societies; law and justice in simple and complex societies; the prospects for democracy and tolerance among and within the world's diverse civilizations; the meaning and sources of identity in complex contemporary societies; the origins of modern politics, its institutions, and cultures, both Western and non-Western.

MODULE-5: Interrelationship between religion, politics and economy; religious conversion and movements, emergence of new religious sects in the global order.

PRACTICAL: Mark 25 / Credit- 2

Case study of any of the social institute (religion, economic, political) with respect to culture perspective.

Suggested Readings:

1. Durkheim E. (1986). The elementary forms of the religious life, a study in religious sociology. New York: Macmillan.
2. Benedict A. (2006). Imagined Communities: Reflections on the Origin and Spread of Nationalism. Verso
3. Gledhill J. (2000). Power and Its Disguises: Anthropological Perspectives on Politics. 2nd ed. London: Pluto Press.
4. Ellis F. (2000). A framework for livelihood analysis. In Rural Livelihoods and Diversity in Developing Countries. Oxford: Oxford University Press.
5. Henrich J, Boyd R, Bowles S, Camerer C, Fehr E, Gintis H, McElreath R, Alvard M et al. (2005). 'Economic Man' in cross-cultural perspective: Behavioral experiments in 15 small-scale societies. Behavior and Brain Science. 28(6):795-815;

6. Lambek. M. (2008) A Reader in the Anthropology of Religion.
7. Eller JD. (2007). Introducing Anthropology of Religion. New York: Routledge.
8. Glazier SD. (1997). Anthropology of Religion: A Handbook. Westport, CT: Greenwood Press.
9. Barbara M. (2011). Cultural Anthropology. New Jersey: Pearson Education.
10. Ember CR. (2011). Anthropology. New Delhi: Dorling Kindersley.
11. Malinowski B. (1922) Argonauts of the Western Pacific. London: Routledge.
12. Polanyi K. et al (1957), Trade and Market in the Early Empires. Chicago: Henry Regnery Company.
13. Balandier G. (1972). Political Anthropology. Middlesex: Penguin.

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ANTHROPOLOGY

SEMESTER-IV

GE-4: TRIBAL CULTURES OF INDIA

(CREDITS: 6, Theory=4 + Practical=2)

(Total Marks: 100, Mid Sem=15, Practical=25, Term End=60: Duration: 3 hrs.)

MODULE-1: Concept of tribes and its problematic nature, General and specific characteristics of tribes, Classification and distribution of tribes based on their economy, occupation and religion,

MODULE-2: Racial elements among the tribes, Scheduled and non-scheduled categories of tribes, Particularly Vulnerable Tribal Groups (PVTGs).

MODULE-3: Tribe- caste continuum, Gender and Tribe, Distribution of tribes in India.

MODULE-4: Tribes: Nomenclature- emic and etic differences; Tribal movements, Problems of tribal development.

MODULE-5: Forest policies and tribes, Migration and occupational shift, Tribal arts and aesthetics Displacement, rehabilitation and social change Globalization among Indian tribes.

PRACTICAL: Mark 25 / Credit- 2

1. Distribution of Indian Tribes: PVTGs, ST
2. Location of different tribes on the map of India
3. Write an annotated bibliography on any one tribe
4. Write the social structure of any one tribe of India

Suggested Readings:

1. Behera, D.K and Georg pfeffer. Contemporary Society Tribal Studies, Volume I to VII. New Delhi: Concept Publishing Company
2. Georg Pfeffer. Hunters, Tribes and Peasant: Cultural Crisis and Comparison. Bhubaneswar: Niswas.
3. Vidarthy, L.P. and Rai. Applied Anthropology in India.
4. Vidarthy.L.P. and B.N. Sahay . Applied Anthropology and Development in India. New Delhi: National Publishing House

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GEOGRAPHY

SEMESTER-III

GE-3: DISASTER MANAGEMENT

(CREDITS: 6, Theory=4 + Practical=2)

(Total Marks: 100, Mid Sem=15, Practical=25, Term End=60: Duration: 3 hrs.)

MODULE-1: Disasters: Definition and Concepts: Hazards, Disasters; Risk and Vulnerability; Classification

MODULE-2: Disasters in India:

Flood: Causes, Impact, Distribution and Mapping; Landslide: Causes, Impact, Distribution and Mapping; Drought: Causes, Impact, Distribution and Mapping

MODULE-3: Disasters in India:

Earthquake and Tsunami: Causes, Impact, Distribution; Mapping; Cyclone: Causes, Impact, Distribution and Mapping.

MODULE-4: Manmade disasters: Causes, Impact, Distribution and Mapping

MODULE-5: Response and Mitigation to Disasters:

Mitigation and Preparedness, NDMA and NIDM; Indigenous Knowledge and Community-Based Disaster Management; Do's and Don'ts During and Post Disasters

PRACTICAL: Mark 25 / Credit- 2

The Project Report based on any two fields based case studies among following disasters and one disaster preparedness plan of respective locality:

Flood; Drought; Cyclone and Hailstorms; Earthquake; Landslides; Human Induced Disasters: Fire Hazards, Chemical, Industrial accidents

Reading List

1. Government of India. (1997) Vulnerability Atlas of India. New Delhi, Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India.
2. Kapur, A. (2010) Vulnerable India: A Geographical Study of Disasters, Sage Publication, New Delhi.
3. Modh, S. (2010) Managing Natural Disaster: Hydrological, Marine and Geological Disasters, Macmillan, Delhi.
4. Singh, R.B. (2005) Risk Assessment and Vulnerability Analysis, IGNOU, New Delhi. Chapter 1, 2 and 3
5. Singh, R. B. (ed.), (2006) Natural Hazards and Disaster Management: Vulnerability and Mitigation, Rawat Publications, New Delhi.
6. Sinha, A. (2001). Disaster Management: Lessons Drawn and Strategies for Future, New United Press, New Delhi.
7. Stoltman, J.P. et al. (2004) International Perspectives on Natural Disasters, Kluwer Academic Publications. Dordrecht.
8. Singh Jagbir (2007) "Disaster Management Future Challenges and Oppurtunities", 2007. Publisher-
9. I.K. International Pvt. Ltd. S-25, Green Park Extension, Uphaar Cinema Market, New Delhi, India (www.ikbooks.com).

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GEOGRAPHY

SEMESTER-IV

GE-4: CLIMATE CHANGE: VULNERABILITY AND ADAPTATION

(CREDITS: 6, Theory=4 + Practical=2)

(Total Marks: 100, Mid Sem=15, Practical=25, Term End=60: Duration: 3 hrs.)

MODULE-1: Science of Climate Change: Understanding Climate Change; Green House Gases and Global Warming; Global Climatic Assessment- IPCC

MODULE-2: Climate Change and Vulnerability: Physical Vulnerability; Economic Vulnerability; Social Vulnerability

MODULE-3: Impact of Climate Change: Agriculture and Water; Flora and Fauna; Human Health

MODULE-4: Adaptation and Mitigation: Global Initiatives with Particular Reference to South Asia.

MODULE-5: National Action Plan on Climate Change; Local Institutions (Urban Local Bodies, Panchayats)

PRACTICAL: Mark 25 / Credit- 2

The Project Report based on any two fields based case studies among following of respective locality

Climate Risk and Vulnerability Assessments

Identification of vulnerability situation

Impact of Climate Change: Agriculture and Water; Flora and Fauna; Human Health

Adaption and Mitigation measure: Agriculture and Water; Flora and Fauna; Human Health

Reading List

1. IPCC. (2007) Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change.
2. IPCC (2014) *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.
3. IPCC (2014) *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part B: Regional Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.
4. *Panel on Climate Change* Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.

5. Palutikof, J. P., van der Linden, P. J. and Hanson, C. E. (eds.), Cambridge University Press, Cambridge, UK.
6. OECD. (2008) Climate Change Mitigation: What Do we Do? Organisation and Economic Cooperation and Development.
7. UNEP. (2007) Global Environment Outlook: GEO4: Environment for Development, United Nations Environment Programme.
8. Singh, M., Singh, R.B. and Hassan, M.I. (Eds.) (2014) Climate change and biodiversity: Proceedings of IGU Rohtak Conference, Volume 1. Advances in Geographical and Environmental Studies, Springer
9. Sen Roy, S. and Singh, R.B. (2002) Climate Variability, Extreme Events and Agricultural Productivity in Mountain Regions, Oxford & IBH Pub., New Delhi.



POLITICAL SCIENCE

SEMESTER-III

GE-3: NATIONALISM IN INDIA

(CREDITS: 6, Theory=6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

MODULE-1: Nationalism; Approaches to the study of Nationalism in India.; Nationalist and Imperialist Interpretations.; Marxist and subaltern Interpretations

MODULE-2: Major Social and Religious movements in 19th century; Raja Rammohan Roy and Dayananda Saraswati; Jyotiba Phule and Iswar Chandra Bidyasagar.

MODULE-3: Nationalist Politics and Expansion of its Social Base; Phases of Nationalist Movement: Liberal Constitutionalists (Moderates), Swadeshi (Extremists) and the Radicals. Gandhi and Mass Mobilisation, Congress socialists, Communists.

MODULE-4: Social Movements; The Women's Question: Participation in the National Movements, Its Impact (Role of Women in Indian Nationalism).

Anti Brahmanical movements, peasant and tribal.

MODULE-5: Partition and Independence; Communalism in Indian Politics: Causes and Impact.

The Two-Nation Theory and Partition: Iqbal Sayeed Ahmed Khan, Jinnah and The Mountbatten Plan.

Reading List

S. Bandopadhyay, (2004) *From Plassey to Partition: A History of Modern India*, New Delhi: Orient Longman, pp. 184-191.

R. Thapar, (2000) 'Interpretations of Colonial History: Colonial, Nationalist, Post-colonial', in P. DeSouza, (ed.) *Contemporary India: Transitions*, New Delhi: Sage Publications, pp. 25-36.

S. Bandopadhyay, (2004) *From Plassey to Partition: A History of Modern India*, New Delhi: Orient Longman, pp. 139-158, 234-276.

A. Sen, (2007) 'The idea of Social Reform and its Critique among Hindus of Nineteenth Century India', in S. Bhattacharya, (ed.) *Development of Modern Indian Thought and the Social Sciences*, Vol. X. New Delhi: Oxford University Press.

S. Bandopadhyay, (2004) *From Plassey to Partition: A History of Modern India*. New Delhi: Orient Longman, pp. 279-311.

S. Sarkar, (1983) *Modern India (1885-1947)*, New Delhi: Macmillan,

P. Chatterjee, (1993) 'The Nation and its Past', in P. Chatterjee, *The Nation and its Fragments: Colonial and Postcolonial Histories*. New Delhi: Oxford University Press, pp. 76-115.

A. Jalal, and S. Bose, (1997) *Modern South Asia: History, Culture, and Political Economy*. New Delhi: Oxford University Press, pp. 135-156.

A. Nandy, (2005) *Rashtravad banam Deshbhakti* Translated by A. Dubey, New Delhi: Vani Prakashan. pp. 23-33. (The original essay in English is from A. Nandy, (1994) New Delhi: Oxford University Press, pp.18.)

Additional Readings:

B. Chakrabarty and R. Pandey, (2010) *Modern Indian Political Thought*, New Delhi: Sage Publications.

P. Chatterjee, (1993) *The Nation and its Fragments: Colonial and Postcolonial Histories*, New Delhi: Oxford University Press.

R. Pradhan, (2008) *Raj to Swaraj*, New Delhi: Macmillan (Available in Hindi).

S. Islam, (2006) *Bharat Mein Algaavaad aur Dharm*, New Delhi: Vani Prakashan.



POLITICAL SCIENCE
SEMESTER-IV
GE-4: GANDHI AND CONTEMPORARY WORLD

(CREDITS: 6, Theory=6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

MODULE-1: Gandhi and Legacy

Gandhi and Anti-racism, Gandhi in South Africa, Gandhi and Martin Luther
Gandhi and Freedom struggle: Concept of swaraj, Non-cooperation Movement, Civil Disobedience Movement, Quit India Movement

MODULE-2: Gandhi and Techniques:

Non-Violence, Swadeshi, Concept of Satyagraha, Fasting and Picketing
Communal harmony, Women Emancipation and Critique Caste.

MODULE-3: Gandhi and Mass Mobilisation

Peasant mobilization: Champaran and Kheda.
Gandhi and Democracy.

MODULE-4: Gandhi and Communitarian values

Role of state & participatory democracy, Panchayati Raj system.
Modernization: Ahmedabad Mill strike, concept of Trusteeship and Narmada Bachao Andolan.

MODULE-5: Relevance of Gandhi

Jayaprakash Narayan: Total Revolution.
Vinoba Bhave: Bhoodan Movement.

READING LIST

- B. Parekh, (1997) 'The Critique of Modernity', in *Gandhi: A Brief Insight*, Delhi: Sterling Publishing Company, pp. 63-74.
K. Ishii, (2001) 'The Socio-economic Thoughts of Mahatma Gandhi: As an Origin of Alternative Development', *Review of Social Economy*. Vol. 59 (3), pp. 297-312.
D. Hardiman, (2003) 'Narmada Bachao Andolan', in *Gandhi in his Time and Ours*. Delhi: Oxford University Press, pp. 224- 234.
A Baviskar, (1995) 'The Politics of the Andolan', in *In the Belly of the River: Tribal Conflict Over Development in the Narmada Valley*, Delhi: Oxford University Press, pp.202-228.
R Iyer, (ed) (1993) 'Chapter 4' in *The Essential Writings of Mahatma Gandhi*, New Delhi: Oxford University Press.
R. Ramashray, (1984) 'Liberty Versus Liberation', in *Self and Society: A Study in Gandhian Thought*, New Delhi: Sage Publication.
B. Parekh, (1997) 'Satyagrah', in *Gandhi: A Brief Insight*, Delhi: Sterling Publishing Company, pp. 51-63.
D. Dalton, (2000) 'Gandhi's originality', in A. Parel (ed) *Gandhi, Freedom and Self-Rule*, New Delhi: Lexington Books, pp.63-86.
D. Hardiman, (1981) 'The Kheda Satyagraha', in *Peasant Nationalists of Gujarat: Kheda District, 1917-1934*, Delhi: Oxford University Press, pp. 86-113.
J. Brown, (2000) 'Gandhi and Human Rights: In search of True humanity', in A. Parel (ed) *Gandhi, Freedom and Self-Rule*, New Delhi: Lexington Books, pp. 93-100.
R. Iyer, (2000) 'Chapter 10 and 11', in *The Moral and Political Thought of Mahatma Gandhi*, New Delhi: Oxford University Press, pp. 251-344

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ODIA

SEMESTER-III

GE-3: ODIA

(CREDITS: 6, Theory=6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

GE-3 : ସାହିତ୍ୟ ଅଧ୍ୟୟନ

୧ମ ଉପାଂଶ : ପ୍ରବନ୍ଧ ଚୟନ (ଏଠାରେ ଉକ୍ତ ବିଶ୍ୱବିଦ୍ୟାଳୟ

ପାଠ୍ୟ : ଅନନ୍ତ ପ୍ରେମ - ବିଶ୍ୱନାଥ କରାଧାରକା ସାହିତ୍ୟ- ବଂଶାଧର ମହାନ୍ତି ସ୍ୱାଧିକାରୀ କବି ଛାତ୍ର- ଚନ୍ଦ୍ରଶେଖର ରଥ

୨ୟ ଉପାଂଶ : କବିତା ଚୟନ (ଏଠାରେ ଉକ୍ତ ବିଶ୍ୱବିଦ୍ୟାଳୟ

ପାଠ୍ୟ : କଞ୍ଚୁକର ଭବନୀ ରାଧାନାଥ ରାୟ; ତିନୋଟି ସନେଟ ମାୟାଧର ମାନସିଂହ ସମ୍ପଦ ଓ ମୁଁ ଯୌଭାଗ୍ୟ କୁମାର ମିଶ୍ର

୩ୟ ଉପାଂଶ : ଅବବୋଧ ପରୀକ୍ଷଣ - (ଗୋଟିଏଥା ପଦ୍ୟ ପରିଚ୍ଛେଦଠାରୁ ଶବ୍ଦ ମଧ୍ୟରେ ଅଥବା ଛାତ୍ର କବିତାଟିଏ ପଢ଼ିବ ।

ତତ୍ପରେ ପ୍ରଶ୍ନ ଅବବୋଧ ପରୀକ୍ଷଣ ଉତ୍ତର ପାଇଁ ଆଗତ ହେବ ।

୪ର୍ଥ ଉପାଂଶ : ପ୍ରବଚନ/ଛାତ୍ର ଆଶ୍ରିତ ସର୍ଜନା ଲିଖନ (ଗୋଟିଏଥା ପ୍ରବଚନ/ କବିତା / ଛାତ୍ର ଆଗତ କରାଯିବ । ଓଡ଼ିଆ ଭାଷାକୁ

୨୦୦ଟି ଶବ୍ଦ ମଧ୍ୟରେ ସଂପ୍ରସାରଣ କରି ଲେଖିବାକୁ ଶିକ୍ଷା ଦିଆଯିବ

୫ମ ଉପାଂଶ : ଶବ୍ଦ ଅର୍ଥ ଓ ତାହାର ଉତ୍ପତ୍ତି ଲିଖନ (ସର୍ଜନା ଅର୍ଥ ପ୍ରତ୍ୟୟମାନ ଅର୍ଥ ବଚନଗତ ଅର୍ଥ ସମାପ-

ଲିଖନ-ବନାଗତ ଅର୍ଥ ଓ ଏହାର ନିରୂପଣ)



ODIA

SEMESTER-IV

(CREDITS: 6, Theory=6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

GE-4: ଗାମ୍ୟ କୈତ୍ରିକ ପଦ୍ୟ ଓ ଗଦ୍ୟ

୧ମ ଉପାଂଶ : ପଲ୍ଲୀ କୈତ୍ରିକ କବିତା

ଗ୍ରାମ ଖଳା - ନବକିଶୋର ବଳ ଛୋଟ ମୋର ଗାଁଟି ସଜ୍ଜିଦାନଦରୁତରାୟ; ଗ୍ରାମପଥ - ବିନୋଦ ନାୟକ

୨ୟ ଉପାଂଶ : କୃଷି ଓ ଗ୍ରାମ୍ୟକୈତ୍ରିକ ଉପନ୍ୟାସ

ମାଟିର ମଣିଷ କାଳିନ୍ଦୀ ଚରଣ ଅଥବା-ପଠି ଗୋଟେ ଗାଁ ଥିଲୁ ରଶ୍ମୀ ରା

୩ୟ ଉପାଂଶ : ଗାମ୍ୟକୈତ୍ରିକ ଗଦ୍ୟ

ଗାଁ ମଞ୍ଜିସି ଦୁରେକୃଷ୍ଣ ମହତାବ୍ଦ ୧ମ ଭାଗ, ୩ଟି ପ୍ରବନ୍ଧ ଅଥବା-ଗାଁର ତାଳ ଛୁନେଶ୍ୱର ବେହେରା ପ୍ରଥମ ତିନୋଟି

ପ୍ରବନ୍ଧ

୪ର୍ଥ ଉପାଂଶ : ଓଡ଼ିଆ ଜଗତମାଳି

୫ମ ଉପାଂଶ : ଓଡ଼ିଆ ପର୍ବପର୍ବାଣି ଆଖାଇ, ରଜ ପର୍ବ

ସହାୟକ ଗ୍ରନ୍ଥମାଳା :

୧- ପ୍ରାୟୋଗିକ ଭାଷା ବିଜ୍ଞାନର ବିଶ୍ୱବିଦ୍ୟାଳୟର କେ. ବି. ଓଡ଼ିଆ ପାଠ୍ୟପୁସ୍ତକ ପ୍ରଣୟନ ଓ ପ୍ରକାଶନ ସଂସ୍ଥା, ଭୁବନେଶ୍ୱର

୨- ସଂଯୋଗ ଅନୁଷ୍ଠାନ: ଦ୍ୱିପାଠୀ ସମ୍ବୋଧନ ନାଲନ୍ଦା, କଟକ

୩- କବିତାର ମାନବିକ ମହାନ୍ତି ଜାନକୀ ବଲ୍ଲଭ ପ୍ରେସ୍ ସପ୍ଲାଇ ଓ ପ୍ରକାଶନ

୪- ଓଡ଼ିଆ ଭାଷା ବିଭାଗ: ମହାପାତ୍ର ବିଜୟ ପ୍ରସାଦ ବିଦ୍ୟାଳୟ, କଟକ

୫- ବୃତ୍ତି ଓ ମୋ ପୋଷାକ ମହାନ୍ତି ପଞ୍ଚାନନ ଭୁବନେଶ୍ୱର

୬- ପ୍ରାଚୀନ ପୋଥି ଓ ସଂପାଦନା ପଦ୍ଧତି ଓ ଅନୁବାଦ କୌଶଳ - ପଟ୍ଟନାୟକ, ଅକ୍ଷୟ, ଭୁବନେଶ୍ୱର

୭- ମଞ୍ଚ ଓ ନାଟକର କଳାକୌଶଳ - ସାଧୁ ନାରାୟଣ, ଓଡ଼ିଶା ସାହିତ୍ୟ ପାଠ୍ୟପୁସ୍ତକ ଓ ପ୍ରକାଶନ ସଂସ୍ଥା

୮- ଶବ୍ଦର ଆକାଶ ପୃଷ୍ଠାର ଦିଗ୍ଗମ୍ୟ - ଶତପଥୀ ରବି କଟକ



ECONOMICS

SEMESTER-I

CORE-1: INTRODUCTORY MICROECONOMICS

(CREDITS: 6, Theory=6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

MODULE-1: Exploring the subject matter of Economics

Why study economics? Scope and method of economics; the economic problem: scarcity and choice; the question of what to produce, how to produce and how to distribute output; science of economics; the basic competitive model; prices, property rights and profits; incentives and information; rationing; opportunity sets; economic systems; reading and working with graphs.

MODULE-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; shifts in the demand/supply curve, demand and supply together; how prices allocate resources; elasticity and its application; controls on prices; taxes and the costs of taxation; consumer surplus; producer surplus and the efficiency of the markets.

MODULE-3: The Households

The consumption decision - budget constraint, consumption and income/price changes, demand for all other goods and price changes; description of preferences (representing preferences with indifference curves); properties of indifference curves; consumer's optimum choice; income and substitution effects; labour supply and savings decision - choice between leisure and consumption.

MODULE-4: The Firm and Market Structures

Behaviour of profit maximizing firms and the production process; short run costs and output decisions; costs and output in the long run; Monopoly and anti-trust policy; government policies towards competition; imperfect competition

MODULE-5: Input Markets

Labour and land markets - basic concepts (derived demand, productivity of an input, marginal productivity of labour, marginal revenue product); demand for labour; input demand curves; shifts in input demand curves; competitive labour markets; and labour markets and public policy.

Readings

1. N. Gregory Mankiw (2012): *Principles of Economics*, 6th edition, Cengage Learning India Private Limited, New Delhi
2. William A McEachern and Simrit Kaur (2012): *Micro Econ: A South-Asian Perspective*, Cengage Learning India Private Limited, New Delhi.
3. Karl E. Case and Ray C. Fair (2007): *Principles of Economics*, 8th Edition, Pearson Education Inc.
4. Joseph E. Stiglitz and Carl E. Walsh (2007): *Economics*, 4th Edition, W.W. Norton & Company, Inc., New York.

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CORE-2: MATHEMATICAL METHODS FOR ECONOMICS-I

(CREDITS: 6, Theory-6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

MODULE-1: Preliminaries

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

MODULE-2: Functions of one real variable

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

MODULE-3: 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

MODULE-4: 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

MODULE-5: 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.

Readings:

1. K. Sydsaeter and P. J. Hammond (2002): *Mathematics for Economic Analysis*. Pearson Educational Asia
2. A. C. Chiang and K. Wainwright (2005): *Fundamental Methods of Mathematical Economics*, McGraw Hill International Edition.
3. T. Yamane (2012): *Mathematics for Economists*, Prentice-Hall of India

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SEMESTER-II

CORE-3: INTRODUCTORY MACROECONOMICS

(CREDITS: 6, Theory-6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

MODULE-1: Basic Concepts

Macro vs. Micro Economics; Why Study Macroeconomics? 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 and factor cost; Personal Income and Disposable personal Income; Real and Nominal GDP

MODULE-2: 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.

MODULE-3: Money

Evolution and Functions of Money, Quantity Theory of Money – Cash Transactions, Cash Balances and Keynesian Approaches, Value of Money and Index Number of Prices

MODULE-4: Inflation, Deflation, Depression and Stagflation

Inflation – Meaning, Causes, Costs and Anti-Inflationary Measures; Classical, Keynesian, Monetarist and Modern Theories of Inflation, Deflation- Meaning, Causes, Costs and Anti-Deflationary Measures, Depression and Stagflation; Inflation vs. Deflation

MODULE-5: 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; Income Determination in a 3-Sector Model with the Government Sector and Fiscal Multipliers

Readings:

1. N. Gregory Mankiw (2010): *Macroeconomics*, 7th edition, Cengage Learning India Private Limited, New Delhi
2. Richard T. Froyen (2005): *Macroeconomics*, 2nd Edition, Pearson Education Asia, New Delhi.
3. Errol D'Souza (2009): *Macroeconomics*, Pearson Education Asia, New Delhi.
4. Shapiro D N Dwivedi

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CORE-4: MATHEMATICAL METHODS FOR ECONOMICS II

(CREDITS: 6, Theory-6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

MODULE-1: 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

MODULE-2: Second and higher order derivatives:

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

MODULE-3: Differentials and total derivatives:

Differentials and derivatives; Total differentials; Rules of differentials; Total derivatives; Derivatives of implicit functions

MODULE-4: Single and multivariable optimisation:

Optimum values and extreme values; Relative maximum and minimum; Necessary versus sufficient conditions - First and Second derivative tests; Economic applications thereof, First and second order condition for extremum of multivariable functions; Convex functions and convex sets

MODULE-5: Optimisation 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.

Readings:

1. K. Sydsaeter and P. J. Hammond (2002): *Mathematics for Economic Analysis*. Pearson Educational Asia
2. A. C. Chiang and K. Wainwright (2005): *Fundamental Methods of Mathematical Economics*, McGraw Hill International Edition.
3. T. Yamane (2012): *Mathematics for Economists*, Prentice-Hall of India

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SEMESTER-III
CORE-5: MICROECONOMICS I

(CREDITS: 6, Theory-6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

MODULE-1: Consumer Theory I

Economic Models: Theoretical Model, Verification of Economic Model, General Feature of Economic Model, Development of Economic Theory of Value, Modern Developments; Preferences and Utility: Axioms of Rational Choice, Utility, Trades and Substitutions, Utility Functions for Specific Preferences, The Many-Good case; Utility Maximization and Choice: The Two-Good Case (Graphical Analysis), The Lump Sum Principle, Expenditure Minimization, Properties of Expenditure Function

MODULE-2: Consumer Theory II

Income and Substitution Effects: Demand Functions, Changes in Income, Changes in a Good's Price, The Individual's Demand Curve, Compensated (Hicksian) Demand Curves and Functions, Demand Elasticities, Consumer Surplus; Demand Relationships among Goods: The Two-Good Case, Substitutes and Complements, Net (Hicksian) Substitutes and Complements, Attributes of Goods and Implicit Prices

MODULE-3: Production Theory

Marginal Productivity, Isoquant Maps and the Rate of Technical Substitution, Production with One Variable Input (labour) and with Two-Variable Inputs, Returns to Scale, Four Simple Production Functions (Linear, Fixed Proportions, Cobb-Douglas, CES), Technical Progress

MODULE-4: Cost Functions

Definition of Costs, Cost Functions and its Properties, Shift in Cost Curves, Cost in the Short-Run and Long-Run, Long-Run versus Short-Run Cost Curves, Production with Two Outputs – Economies of Scope

MODULE-5: Profit Maximization

The Nature and Behaviour of Firms, Profit Maximization, Marginal Revenue, Short-Run Supply by Price-Taking Firm, Profit Functions and its Properties, Profit Maximization and Input Demand – Single-Input Case and Two-Input Case.

Readings:

1. C. Snyder and W. Nicholson (2012): Microeconomic Theory: Basic Principles and Extensions, 11th Edition, Cengage Learning, Delhi, India.
2. R. S. Pindyck, D. N. Rubinfeld and P. L. Meheta (2009): Microeconomics, 7th Edition, Pearson, New Delhi.
3. 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.

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CORE-6 : MACROECONOMICS I

(CREDITS: 6, Theory-6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

MODULE-1: Consumption Function

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

MODULE-2: Investment Function

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

MODULE-3: Demand for and Supply of Money

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

MODULE-4: 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

MODULE-5: 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;

Readings:

1. N. Gregory Mankiw (2010): *Macroeconomics*, 7th edition, Cengage Learning India Private Limited, New Delhi
2. Richard T. Froyen (2005): *Macroeconomics*, 2nd Edition, Pearson Education Asia, New Delhi.
3. Errol D'Souza (2009): *Macroeconomics*, Pearson Education Asia, New Delhi.

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CORE-7: STATISTICAL METHODS FOR ECONOMICS

(CREDITS: 6, Theory-6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

MODULE-1: Data Collection and measures of central tendency and dispersion

Basic concepts: population and sample, parameter and statistic; 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.

MODULE-2: Correlation 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, partial and multiple correlation.

MODULE-3: Regression Analysis

Two variable linear regression analysis - estimation of regression lines (Least square method) and regression coefficients - their interpretation and properties

MODULE-4: 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), Index Numbers: Concept, price relative, quantity relative and value relative; Laspeyres's and Fisher's index, family budget method, problems in construction and limitations of index numbers, test for ideal index number.

MODULE-5: Probability theory

Probability: Basic concepts, addition and multiplication rules, conditional probability; Random variables and their probability distribution; Theoretical Distribution: normal distribution - Properties and uses.

Recommended books:

1. Jay L. Devore (): *Probability and Statistics for Engineering and the Sciences*, Cengage Learning, 2010.
2. S. C. Gupta (): *Fundamentals of Statistics*, Himalaya Publishing House, Delhi
3. Murray R. Spiegel (): *Theory & Problems of Statistics*, Schaum's publishing Series.

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SEMESTER-IV

CORE-8: MICROECONOMICS II

(CREDITS: 6, Theory-6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

MODULE-1: The Partial Equilibrium Competitive Model

Market Demand, Timing of the Supply Response, Pricing in the Very Short-Run, Short-Run Price Determination, Shifts in Supply and Demand Curves – a Graphical Analysis, Long-Run Analysis: Long-Run Equilibrium-Constant Cost Case, Shape of the Long-Run Supply Curve, Long-Run Elasticity of Supply, Producer Surplus in the Long-Run, Economic Efficiency and Welfare Analysis, Price Controls and Shortages.

MODULE-2: General Equilibrium and Welfare

Perfectly Competitive Price System, A Graphical Model of General Equilibrium with Two Goods, Comparative Statics Analysis, General Equilibrium Modelling and Factor Prices, A Mathematical Model of Exchange, A Mathematical Model of Production and Exchange, Computable General Equilibrium Models

MODULE-3: Monopoly

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

MODULE-4: Imperfect Completion

Short-Run Decisions: Pricing and Output, Bertrand Model, Cournot Model, Capacity Constraints, Product Differentiation, Tacit Collusion, Longer-Run Decisions: Investment, Entry and Exit, Strategic Entry Deterrence, Signaling, How many firms Enter? Innovation

MODULE-5: Labour Markets

Allocation of Time, A mathematical Analysis of Labour Supply, Market Supply Curve for Labour, Labour Market equilibrium, Wage variation, Monopsony in the Labour Market, Labour Union

Readings:

1. C. Snyder and W. Nicholson (2012): Microeconomic Theory: Basic Principles and Extensions, 11th Edition, Cengage Learning, Delhi, India.
2. R. S. Pindyck, D. N. Rubinfeld and P. L. Meheta (2009): Microeconomics, 7th Edition, Pearson, New Delhi.
3. 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.

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CORE-9: MACROECONOMICS II

(CREDITS: 6, Theory-6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

MODULE-1: Financial Markets and Reforms

Features of Financial Markets, Functions of Financial Markets, Banks and Financial Markets, Adverse Selection and Moral Hazard, Risk and Supply of Credit, The Determination of Banks Asset Portfolio, Financial Repression and Major Financial Sector Reforms in India, Lessons from the Global Financial Crisis and the Policy Response in India

MODULE-2: Open Economy Macroeconomics

Balance of payments- Concept, Equilibrium and Disequilibrium, Measures to Correct Disequilibrium, Determination of Foreign Exchange Rate- the PPP Theory and its Implications, Fixed vs. Flexible Exchange Rates, International Financial Markets

MODULE-3: Modelling Economic Growth

The Basic Harrod- Domar Model, Joan Robinson and the Golden Rule of Capital Accumulation, The Basic Solow Model, Theory of Endogenous Growth – the Rudimentary A-K Model

MODULE-4: Macroeconomic Policy

The Goals of Macroeconomic Policy and of Policy Makers, The Budget and Automatic Fiscal Stabilisers, The Doctrine of Balanced Budget and Keynesian Objections; Concepts of Budget, Revenue and Fiscal Deficits, Fiscal Policy: Objectives and Limits to Discretionary Policy, The Crowding –Out Hypothesis and the Crowding – in Controversy Meaning, Scope and Objectives of Monetary Policy, Instruments of Monetary Policy, Limits to Monetary Policy

MODULE-5: Schools of Macroeconomic Thought and the Fundamentals of Macroeconomic Theory and Policy

Classics, Keynes, Monetarists, New Classical and New Keynesians: (i) Keynes vs. the Classics – Aggregate Demand and Aggregate Supply, Underemployment Equilibrium and Wage Price Flexibility, (ii) Monetarists and Friedman’s Reformulation of Quantity Theory, Fiscal and Monetary Policy: Monetarists vs. Keynesians, (iii) The New Classical View of Macroeconomics and the Keynesian Counter-critique.

Readings:

1. N. Gregory Mankiw (2010): *Macroeconomics*, 7th edition, Cengage Learning India Private Limited, New Delhi
2. Richard T. Froyen (2005): *Macroeconomics*, 2nd Edition, Pearson Education Asia, New Delhi.
3. Errol D’Souza (2009): *Macroeconomics*, Pearson Education Asia, New Delhi.

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CORE-10: PUBLIC ECONOMICS

(CREDITS: 6, Theory-6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

MODULE-1: Introduction to public finance

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;

MODULE-2: Public Expenditure

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

MODULE-3: 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

MODULE-3: Public Budget

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.

MODULE-5: Public Debt

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

Readings:

1. J. Hindriks and G. Myles (2006): *Intermediate Public Economics*, MIT Press.
2. R. A. Musgrave and P. B. Musgrave (1989): *Public Finance in Theory and Practices*. McGraw Hill
3. B. P. Herber (1975): *Modern Public Finance*.
4. B. Mishra (1978): *Public Finance*, Macmillan India limited.

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SEMESTER - V

CORE-11: INDIAN ECONOMY I

(CREDITS: 6, Theory-6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

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. Given the rapid changes taking place in India, the reading list will have to be updated annually.

MODULE-1: Introduction to Indian Economy

British Rule: exploitation and under development in India; features of Indian economy – natural resources, infrastructure, population;

MODULE-2: Population and Human Development

Demographic trends and issues; education; health and malnutrition

MODULE-3: National Income in India

National income: trends, sectoral composition;

MODULE-4: Economic Planning in India

Economic planning: Planning Commission and its functions, Planning exercises in India, Objectives, Strategies and achievements.

MODULE-5: Current Challenges

Poverty: definition and estimate, poverty line, poverty alleviation programs; Inequality: income and regional inequality – causes and corrective measures; Unemployment: concepts, measurement, types, causes and remedies; Environmental challenges: Land, water and air

Readings:

1. U. Kapila (2010): *Indian economy since Independence*. Academic Foundation, New Delhi
2. S. K. Misra and V. K. Puri (Latest Year): *Indian Economy — Its Development Experience*, Himalaya Publishing House, Mumbai
3. S. Chakraborty (): *Development Planning: The Indian Experience*. Clarendon Press.
4. R. Dutt and K. P. M, Sundharam(Latest Year): *Indian Economy*, S. Chand & Company Ltd., New Delhi.
5. A. Panagariya (2008): *India: the Emerging Giant*, Oxford University Press, New York
6. S. Acharya and R. Mohan (Eds.) (2010): *India's Economy: Performance and Challenges*, Oxford University Press, New Delhi.
7. I. J. Ahluwalia and I. M. D. Little(Eds.) (1998): *India's Economic Reforms and Development: Essays for Manmohan Singh*, Oxford University Press, New Delhi.

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CORE-12: DEVELOPMENT ECONOMICS I

(CREDITS: 6, Theory-6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

Course Description

This is the first part of a two-part course on economic development. The course begins with a discussion of alternative conceptions 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 axiomatic basis for inequality measurement is used to develop measures of inequality and connections between growth and inequality are explored. The course ends by linking political institutions to growth and inequality by discussing the role of the state in economic development and their informational and incentive problems that affect state governance.

MODULE-1: Conceptions of Development

Economic development, Economic growth and development, Factors affecting economic development, Obstacles to economic development, Indicators of economic development - National income, Per capita income; Basic needs approach, PQLI, HDI, GDI, Capital formation and economic development, Vicious circle of poverty.

MODULE-2: Theories of Economic Development & Growth

Classical theory, Marxian theory of capitalist development, Schumpeterian theory of capitalist development, Harrod-Domar model of steady growth, Model, Rostow's stages of economic growth

MODULE-3: Agents of Economic Development

Role of industry, Agriculture, Capital formation, Human Resource, Government, International Trade in Economic Developments.

MODULE-4: Poverty and Inequality: Definitions, Measures and Mechanisms

Understanding Prosperity and Poverty: Geography, Institutions, and the Reversal of Fortune, Measuring Poverty, Inequality axioms; a comparison of commonly used inequality measures; connections between inequality and development; poverty measurement; characteristics of the poor; mechanisms that generate poverty traps and path dependence of growth processes

MODULE-5: Political Institutions and the Functioning of the State

Public Goods and Economic Development, State ownership and regulation, government failures, Corruption and Development.

Readings:

1. Debraj Ray (2009): *Development Economics*, Oxford University Press.
2. ParthaDasgupta (2007): *Economics, A Very Short Introduction*, Oxford University Press.
3. Abhijit Banerjee, Roland Benabou and DilipMookerjee (2006): *Understanding Poverty*, Oxford University Press.
4. Amartya Sen (2000): *Development as Freedom*, OUP.
5. Daron Acemoglu and James Robinson (2006): *Economic Origins of Dictatorship and Democracy*, Cambridge University Press.
6. Robert Putnam (1994): *Making Democracy Work: Civic Traditions in Modern Italy*, Princeton University Press.

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SEMESTER - VI

CORE-13: INDIAN ECONOMY II

(CREDITS: 6, Theory-6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

Course Description

This course examines sector-specific policies and their impact in shaping trends in key economic indicators in India. It highlights major policy debates and evaluates the Indianempirical evidence. Given the rapid changes taking place in the country, the reading list will have to be updated annually.

Model 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.

MODULE-2: 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, Industrialsickness; Industrial finance; Industrial labour

MODULE-3: Tertiary Sector and HRD

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.

MODULE-4: External Sector

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.

Readings:

1. U. Kapila (2010): *Indian economy since Independence*. Academic Foundation, New Delhi
2. S. K. Misra and V. K. Puri (Latest Year): *Indian Economy — Its Development Experience*, Himalaya Publishing House, Mumbai
3. S. Chakraborty (): *Development Planning: The Indian Experience*. Clarendon Press.
4. R. Dutt and K. P. M, Sundharam (Latest Year): *Indian Economy*, S. Chand & Company Ltd., New Delhi.
5. A. Panagariya (2008): *India: the Emerging Giant*, Oxford University Press, New York
6. S. Acharya and R. Mohan (Eds.) (2010): *India's Economy: Performance and Challenges*, Oxford University Press, New Delhi.
7. I. J. Ahluwalia and I. M. D. Little (Eds.) (1998): *India's Economic Reforms and Development: Essays for Manmohan Singh*, Oxford University Press, New Delhi.

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CORE-14: DEVELOPMENT ECONOMICS II

(CREDITS: 6, Theory-6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

Course Description

This is the second module of the economic development sequence. It begins with basic demographic concepts and their evolution during the process of development. The structure of markets and contracts is linked to the particular problems of enforcement experienced in poor countries. The governance of communities and organizations is studied and this is then linked to questions of sustainable growth. The course ends with reflections on the role of globalization and increased international dependence on the process of development.

MODULE-1: Demography and Development

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

MODULE-2: Land, Labor and Credit Markets

The Role of Agriculture in Development, The distribution of land ownership; land reform and its effects on productivity; contractual relationships between tenants and landlords; land acquisition; nutrition and labor productivity; informational problems and credit contracts; microfinance; interlinkages between rural factor markets. Credit, Intermediation, and Poverty Reduction, Risk faced by poor

MODULE-3: Individuals, Communities and Collective Outcomes

Individual behavior in social environments; Common property rights governance in organizations and in communities; Common properties management.

MODULE-4: Environment and Sustainable Development

Defining sustainability for renewable resources; a brief history of environmental change; common-pool resources; environmental externalities and state regulation of the environment; economic activity and climate change

MODULE-5: Globalization

Globalization in historical perspective; the economics and politics of multilateral agreements; trade, production patterns and world inequality; financial instability in a globalized world, Political Economy of Foreign Aid & Development

Readings

1. Debraj Ray (2009): *Development Economics*, Oxford University Press.
2. Partha Dasgupta (2007): *Economics, A Very Short Introduction*, Oxford University Press.
3. Abhijit Banerjee, Roland Benabou and Dilip Mookerjee (2006): *Understanding Poverty*, Oxford University Press.
4. Thomas Schelling (1978): *Micromotives and Macrobehavior*, W. W. Norton.
5. Albert O. Hirschman (1970): *Exit, Voice and Loyalty: Responses to Decline in Firms, Organizations and States*, Harvard University Press.
6. Elinor Ostrom (1990): *Governing the Commons: The Evolution of Institutions for Collective Action*, Cambridge University Press.
7. Dani Rodrik (2011): *The Globalization Paradox: Why Global Markets, States and Democracy Can't Coexist*, Oxford University Press.
8. Michael D. Bordo, Alan M. Taylor and Jeffrey G. Williamson (ed.) (2003): *Globalization in Historical Perspective*, University of Chicago Press.

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DISCIPLINE SPECIFIC ELECTIVE (DSE)

ECONOMICS

SEMESTER-V

DSE-1 : RESEARCH METHODOLOGY

(CREDITS: 6, Theory=6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

MODULE-1: Introduction: Meaning of Research, Objectives of Research, Types of Research, Research Approaches, Significance of Research, Research Methods versus Methodology, Research and Scientific Method, Research Process, Criteria of good Research, Problems encountered by Researchers in India.

Defining the Research Problems: What is a Research problem?; Selecting the problem; Necessity of defining the problem; Technique involved in defining a problem; An illustration; Conclusion.

MODULE-2: Research Design: Meaning of research design, Need for research design, Features of a good design, Important concepts relating to research design, Dependent and independent variable, Extraneous variables, Control, Confounded research, Research Hypothesis, Experimental and non experimental hypothesis – Testing research, Experimental and control group treatment, Experiment, Experimental units, Different research design- Research design in case of exploratory research studies, Describing and diagnostic research studies, Hypothesis-testing research studies, Basic principles of experimental designs.

Design of Sample Surveys: Introduction, Sample design, Sampling and non sampling Errors; Sampling Errors; Non Sampling errors; Sampling survey vs. Census survey; Types of sampling designs-Non-probability sampling; Probability sampling, Complex random sampling designs.

MODULE-3: Data Collection: Introduction, Experiments and surveys; Collection of Primary data-Difference between questionnaire and schedule; Guidelines for constructing questionnaire; Some other methods of data collection; collection of secondary data; Selection of appropriate method for data collection; Case study method.

Data Preparation: Data preparation process; Questionnaire checking, Editing, Coding, Classification, Tabulation, Graphical representation, Data cleaning, Data adjusting, Some Problems in preparation process, Missing values and outliers, Types of analysis, Statistics in Research.

MODULE-4: Descriptive Statistics: measures of central tendency – Mean, Median, Mode, Other averages; Measures of Dispersion – Range, Mean deviation, Standard Deviation; Measures of Relationship – Covariance, Karl Pearsons coefficient of correlation, Rank correlation.

MODULE-5: Interpretation and Report Writing: Meaning interpretation, Technique of interpretation, Precautions in interpretation, Significance of report writing, Different steps in writing report, layout of the research report, Types of report, Oral presentation, Mechanics of writing a research report, Precaution for writing research reports, Conclusion, Computer and Research; Basic, Fundamentals of Computer application, Role of Computer in research.

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ECONOMICS

DSE-2 MONEY AND FINANCIAL MARKETS

(CREDITS: 6, Theory=6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

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.

MODULE-1: Money : Concept, functions, measurement; theories of money supply determination.

MODULE-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.

MODULE-3 Interest Rates : Determination; sources of interest rate differentials; theories of term structure of interest rates; interest rates in India.

MODULE-4: Banking System

a. Balance sheet and portfolio management.

b. Indian banking system: Changing role and structure; banking sector reforms.

MODULE-5: Central Banking and Monetary Policy

Functions, goals, targets, indicators and instruments of monetary control; current monetary policy of India.

Readings

1. F. S. Mishkin and S. G. Eakins, *Financial Markets and Institutions*, Pearson Education, 6th edition, 2009.
2. F. J. Fabozzi, F. Modigliani, F. J. Jones, M. G. Ferri, *Foundations of Financial Markets and Institutions*, Pearson Education, 3rd edition, 2009.
3. M. R. Baye and D. W. Jansen, *Money, Banking and Financial Markets*, AITBS, 1996.
4. Rakesh Mohan, *Growth with Financial Stability- Central Banking in an Emerging Market*, Oxford University Press, 2011. 32
5. L. M. Bhole and J. Mahukud, *Financial Institutions and Markets*, Tata McGraw Hill, 5th edition, 2011.
6. M. Y. Khan, *Indian Financial System*, Tata McGraw Hill, 7th edition, 2011.
7. N. Jadhav, *Monetary Policy, Financial Stability and Central Banking in India*, Macmillan, 2006.
8. R.B.I. – Report of the Working Group: Money Supply Analytics and Methodology of Compilation, 1998.
9. R.B.I. Bulletin, Annual Report and Report on Currency and Finance (latest). 33

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SEMESTER-VI

ECONOMICS

DSE-3: INTERNATIONAL ECONOMICS

(CREDITS: 6, Theory=6)

(Total Marks: 100, Mid Sem=15, Tutorial=05, Term End=80: Duration: 3 hrs.)

This course develops a systematic exposition of models that try to explain the composition, direction, and consequences of international trade, and the determinants and effects of trade policy. It then builds on the models of open economy macroeconomics developed in courses 08 and 12, focusing on national policies as well as international monetary systems. It concludes with an analytical account of the causes and consequences of the rapid expansion of international financial flows in recent years. Although the course is based on abstract theoretical models, students will also be exposed to real-world examples and case studies.

MODULE-1: Introduction

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

MODULE-2: Theories of International Trade

The Ricardian, specific factors, and Heckscher-Ohlin models; new trade theories; the international location of production; firms in the global economy — outsourcing and multinational enterprises.

MODULE-3: Trade Policy

Instruments of trade policy; political economy of trade policy; controversies in trade policy.

MODULE-4: International Macroeconomic Policy

Fixed versus flexible exchange rates; international monetary systems; financial globalization and financial crises.

Readings:

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

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DSE-4: PROJECT (CREDIT=6 / MARKS=100) (End Semester Evaluation)

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