

P.T.C. Education Society's
Sau. Rajanital Nanasaheb Deshmukh
Arts, Commerce & Science College,
Bhadgaon Dist- Jalgaon 424105

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Chairman

NAAC Re- Accredited
Grade - B

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Dr. N.N.Gaikwad (M.A. Ph.D.)
Principal

1.3.1: Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Response:

Kindly refer to the Subject wise Syllabus attached herewith.

Sr.No.	List of Documents	Page No/File
01	Economics	2- 6
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03	English	13-18
04	History	19-20
05	Geography	21-31
06	Chemistry	32
07	Physics	33
08	Commerce	34



[Handwritten Signature]
Principal

PRINCIPAL

SAU. RAJANITAL NANASAHEB DESHMUKH
ARTS, COMMERCE & SCIENCE COLLEGE,
BHADGAON DIST. JALGAON (424105)

Kavyitri Bahinabai Chaudhari North Maharashtra University, Jalgaon
S.Y.B.A. - CBCS Pattern
Proposed Syllabus w.e.f. June-2019
SEMISTER-III&IV

1. Paper course no. DSC Eco 231 C & DSC Eco 241 D
 2. Paper title: Indian Economy Since 1980-I&II
 3. Credit-2 Total Periods -60/ Clock Hours 45
 4. External Marks 60+Practical marks 40=Total Marks 100
 5. Objectives of paper :
 1. To enable students to have understanding the various issues of Indian Economy.
 2. To develop the analysing capability in the context of current Indian Economic Problems.
 3. To able the students for appearing the MPSC, UPSC and other competitive Examinations.
-

SEMISTER-III
DSC Eco 231 C - INDIAN ECONOMY SINCE 1980-I

1. **Indian Economy and Human Resources in India.** (Periods-20)
 - 1.1. Basic Features of Indian economy.
 - 1.2. India's recent position in the world Economy
 - 1.3. Meaning of Human Resource.
 - 1.4. Population in India-Size and Growth.
 - 1.5. Causes of the rapid growth of population.
 - 1.6. Problems of over population.
 - 1.7. Recent National Population Policy.
 - 1.8. Poverty and Unemployment.
 - 1.8.1. Poverty- Meaning and types.
 - 1.8.2. Measurements of Poverty in India
 - 1.8.3. Unemployment- Meaning and types.
 - 1.8.4. Policies for removing Unemployment and poverty.
2. **Infrastructure in India.** (Periods-20)
 - 2.1. Irrigation-sources, water management.
 - 2.2. Energy-sources, Crises of Energy.
 - 2.3. Transport-Types of Transport,
 - 2.4. Problems of transports.
 - 2.5. Communication and Information Technology-Types of communication.
 - 2.6. Role of Information Technology in Indian Development.
3. **Basic Issues in Agriculture.** (Periods-20)
 - 3.1. Role of Agriculture in Indian Economy.
 - 3.2. Nature of Indian Agriculture.
 - 3.3. Recommendations of Swami Nathan Commission on Agriculture.
 - 3.4. Agricultural Finance-Importance and Sources.
 - 3.5. Agricultural Marketing-Defects and Reforms.
 - 3.6. Farmers Suicides- Causes and Measures



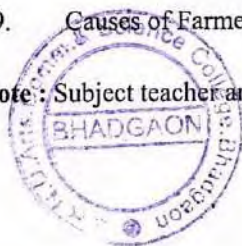
SEMISTER-III

PRACTICAL

DSC Eco-231 D : INDIAN ECONOMY SINCE 1980-II

1. Study of the World Economy and Indian Economy
2. Study of the Human Resource
3. Population family size
4. Causes of the rapid growth of population
5. Study of over population – Problem
6. Interview of Poor and Unemployed person
7. Study of Poverty (Family)
8. Meaning and Types of Unemployment
9. Removing of Unemployment and poverty
10. Sources of Irrigation
11. Sources & Crises of Energy
12. Problems of Transports
13. Types of Communication
14. Importance and Role of Agriculture in Indian Economic Development
15. Interview of Agriculture Farmer
16. Recommendation of Swami Nathan Commission on Agriculture
17. Study of Agriculture Finance
18. Defects of Agriculture Marketing
19. Causes of Farmers Suicide

Note: Subject teacher are permitted to take other practical (from syllabus) than those mention above.





Student Eligibility Status Report for P.T.C.E. Society's Saurajani Nanaheh Deshmukh Arts, Commerce and Science College, Bhadgaon, Bhadgaon () - Faculty of Commerce & Management - B.Com. (with Credits)-Regular- under CBCS [June-2019] Pattern - No Branch Available - Sem-I [Academic Year 2021-2022]

Sr. No.	Student Name as appeared on Statement of Marks	Eligibility Form No.	Permanent Registration Number (PRN)	Eligibility Status	Reason	Result Status of previous Course Part/Term	User Name	Date & Time Stamp
T.Y.B.A- CBCS Pattern								
44.	SOLASE NEHA SANJAY (MEENA)	154-154-2021-10268	2021015400002735	Provisionally Eligible	Due to verification of documents..	Previous Result Record Does Not Exist	S V Kakade	Nov 21 2021 9:29PM
SEMESTER- V & VI								
45.	SONAWANE ASHWINI NIRANJAN (SAVITA)	154-154-2021-53585	2021015400001272	Provisionally Eligible	Due to verification of documents..	Previous Result Record Does Not Exist	S V Kakade	Nov 21 2021 9:29PM
Revised syllabus (W.e.f. June 2020)								
46.	SONAWANE TEJASVINI NIRANJAN (SAVITA)	154-154-2021-54100	2021015400001287	Provisionally Eligible	Due to verification of documents..	Previous Result Record Does Not Exist	S V Kakade	Nov 21 2021 9:29PM
1. Paper course- No DSE -3 (A & B) Eco-352(A) & 362(A) : Special Paper - 3rd								
2. Paper Title : Economics of Public Finance - I & II								
3. Credit - 3 Total Lectures - 60 + 60 (45 min / Lectures)								
4. External Marks- 60 , Internal - 40								
5. Objectives of paper,								
47.	SONAWANE DHANANJAY ASHOK (PATNA)	154-154-2021-55253	2021015400001322	Provisionally Eligible	Due to verification of documents..	Previous Result Record Does Not Exist	S V Kakade	Nov 21 2021 9:29PM
48.	SURYAVANSHI HEMANGI SAMBHAJI (SUNITA)	154-154-2021-17643	2021015400003216	Provisionally Eligible	Due to verification of documents..	Previous Result Record Does Not Exist	S V Kakade	Nov 21 2021 9:29PM
a) To enable students to have understanding the various issues of Public Finance and Policies.								
b) To develop the analyzing capability in the context of Public Finance and Policies.								
c) To enable the students for appearing the MPSC, UPSC and other competitive Examinations.								
49.	WAGH SURESH SANTOSH (SANGITANI)	154-154-2021-73511	2021015400001533	Provisionally Eligible	Due to verification of documents..	Previous Result Record Does Not Exist	S V Kakade	Nov 21 2021 9:29PM
SEMESTER-V								
DSE -3 (A) Eco-352(A) Economics of Public Finance - I								
50.	WAGH NAYANA GULAB (PRAMILA)	154-154-2021-62198	2021015400001666	Provisionally Eligible	Due to verification of documents..	Previous Result Record Does Not Exist	S V Kakade	Nov 21 2021 9:29PM
Unit 1- Introduction to Public Finance								
51.	YECHE NIRAJ KISHOR (VIDYA)	154-154-2021-92356	20210154000013981	Provisionally Eligible	Due to verification of documents..	Previous Result Record Does Not Exist	S V Kakade	Nov 21 2021 9:29PM

- Meaning, Nature and Scope of Public finance
- Distinction between Public Finance and Private Finance
- Importance of Public Finance in developing economy
- The Principle of maximum Social advantage

Unit 2- Public Revenue

20 Lectures

- Sources of Public Revenue- Tax Sources and Non Tax Sources
- Tax- Meaning, objective, feature & base of Taxation, Canons of Taxation, Model of Lindahl.
- Classification of Taxation
 - Direct and Indirect Taxes (with GST) Merits and demerits
 - Progressive, Proportional and Regressive Taxes
- Taxable Capacity- Meaning and Importance of taxable capacity, Factors determining taxable capacity.
- Public goods, Private goods and Market Failure.

Unit 3- Approaches of Taxation & Government Intervention

20 Lectures

A) Approaches of Taxation

- Concepts of Impact, Incidence and Shifting of Taxes
- Factors affecting incidence of tax

- d) Meaning and measurement of income inequality, economic growth and income inequality – Kuznet's inverted hypothesis, impact of inequality on development
- e) Policies for reducing poverty and Income inequality.

Semester -VI

DSE -4 (B) Eco-362(B) Economic Development and Growth – II

- Unit 1 : Economics planning .** **20 Lectures**
- a) Meaning and definition of Economic planning.
 - b) Features and significance of Economics planning
 - c) Objective of Indian Planning.
 - d) Indian planning : Achievements and weaknesses
 - e) Twelfth Five year plan (2012-17): objective and strategies.
- Unit 2 : Domestic measure for economic development .** **20 Lectures**
- a) Capital formation and economic development.
 - b) Importance of capital formation.
 - c) Sources of capital formation.
 - d) Agriculture and economic development.
 - e) Role of industrialization in economic development.
- Unit 3 : Environment and sustainable development .** **20 Lectures**
- a) Definition and concept of sustainable development.
 - b) Indicators of Sustainable Development.
 - c) Basic issues of environment and development – Development and environment inter- linkage;
 - d) Policy instruments for controlling water and air pollution and forestry policy in India.
 - e) Economic activity and climate change.

References :

1. Partha Dasgupta, Economics, A Very Short Introduction, Oxford university Press, 2007.
2. Kaushik Basu, The Oxford Companion to Economics in India, OUP, 2007.
3. Amartya Sen, Development as Freedom, OUP, 2000.
4. Robert Putnam, Making Democracy Work: Civic Traditions in Modern Italy, Princeton University Press, 1994
6. Kindleberger C P(1977): Economic Development, McGraw Hill, New York.
7. Meier, G M (1995): Leading Issues in Economic Development, Oxford University press, New Delhi.
8. Debraj Ray, Development Economics, Oxford University Press, 2009.
9. Abhijit Banerjee, Roland Benabou and Dilip Mookerjee, Understanding Poverty, Oxford University Press, 2006.
10. Todaro M P (1996): Economic Development, Orient Longman, London
11. Higgins B. (1959), Economic Development, W.W . Norton Publisher , New York.
12. Daron Acemoglu and James Robinson, Economic Origins of Dictatorship and Democracy , Cambridge University Press, 2006.





T.Y.B.A- CBCS Pattern

(ECONOMICS)

SEMESTER- V & VI

Revised syllabus (W.e.f. June 2020)

1. Paper course - Generic Elective GE- 2 (A & B) Eco-355 & Eco-365
2. Paper Title: Indian Economic Environment- I & II
3. Credit – 3 Total Lectures – 60 + 60 (45 min / Lectures)
4. External Marks - 60 , Internal - 40
5. Objectives of paper :
 1. To introduce the students Economics Environment for Business.
 2. To provide the information of Indian Economics Environment.
 3. To update the students about new reform in Indian Economy.
 4. To prepare the students for competitive examination.

Sem Vth

GE 1 (A) Eco-355 Indian Economic Environment- I

Unit I: Economics Environment of Business- An Introduction

20 Lectures

- a. Business- Meaning, Nature, Classification, Features, Objectives and limitations of Business.
- b. Environment – Meaning, Steps of Environmental Analysis .
- c. Types of Business Environment.
- d. Economic role of Government in Economic Environment of Business, Role of a Business Economist.
- e. Business Environment in India.

Unit II : Agriculture, Infrastructure and Economic Environment of Business

20 Lectures

- a. Role of Agriculture in Economic Development (Reference to Indian Economy)
- b. Business Directly Dependent on Agriculture – The Agro- based Industry.
- c. Indian Agricultural Policy An Overview.
- d. Infrastructure – Meaning, Characteristics, Importance for Business.
- e. Transport and Communication Services.

Unit III : Indian Industrial Environment

20 Lectures

- a. Role of Industry in India's Economic Development.
- b. Some Problem of Industrial development in India.
- c. New Industrial Policy- 1991.
- d. Privatization and Disinvestment – Meaning, and Rationale of Privatization, Evaluation of Privatization policy in India , Disinvestment in India.
- e. Mergers and Acquisitions- Meaning, Types of objectives of merger and takeover



॥ अंतरी पेटवू ज्ञानज्योत ॥

उत्तर महाराष्ट्र विद्यापीठ, जळगाव

Choice Based Credit System
शैक्षणिक वर्ष 2018-2019 पासून लागू

प्रथम वर्ष कला

F. Y. B. A.

Discipline Specific Core Course (DSC)

मराठी

DSC A – वाङ्मयीन मराठी

विशिष्ट वाङ्मयप्रकारांचा अभ्यास

सत्र दुसरे

MAR G – 121(A)

DSC A 2 – विशिष्ट वाङ्मयप्रकाराचा अभ्यास – कविता

- संपादित कवितासंग्रह
(प्रेमकविता, सामाजिक जाणीवेची कविता, निसर्गपर कविता, राष्ट्रभक्तीपर कविता अशा चार प्रकारांतील एकूण वीस कविता)
- अभ्यासक्रमाची उद्दिष्टे -
 1. कविता या वाङ्मयप्रकाराचे स्वरूप आणि वैशिष्ट्ये यांचे आकलन करून घेणे.
 2. काव्यरचनेच्या प्रमुख घटकांचा परिचय करून घेणे.
 3. कविता या वाङ्मयप्रकाराच्या दोन महत्त्वपूर्ण प्रकारांचे स्वरूप जाणून घेणे.
 4. आधुनिक मराठी कवितेची वाटचाल ठळक टप्प्यांच्या आधारे जाणून घेणे.
 5. संपादित कवितासंग्रहातील विविध प्रकारांतील कवितांचे आशयविशेष जाणून घेणे.
 6. संपादित कवितासंग्रहातील विविध प्रकारांतील कवितांचे आशयविशेष जाणून घेणे.
 7. संपादित कवितासंग्रहातील विविध प्रकारांतील कवितांचे अभिव्यक्तीविशेष जाणून घेणे.



घटक विश्लेषण —

एकूण तीन (03) श्रेयांक

क्र.	घटक	श्रेयांक	तासिका (घड्याळी)
1.	अ) कविता या वाङ्मयप्रकाराची ओळख	01	15
	• कविता : संकल्पना व स्वरूप		
	• कवितेचे घटक — अनुभव, नाद, लय, प्रतिमा-प्रतीक, काव्यभाषा, रचना		
	• कवितेच्या प्रमुख प्रकारांचा परिचय — छंदोबध्द (अष्टाक्षरी व अभंग छंद) व मुक्तछंद		
2.	अ) प्रेमकविता (आशयविशेष व अभिव्यक्तीविशेष)	01	15
	ब) निसर्गपर कविता (आशयविशेष व अभिव्यक्तीविशेष)		
3.	अ) सामाजिक जाणीवेच्या कविता (आशयविशेष व अभिव्यक्तीविशेष)	01	15
	ब) राष्ट्रभक्तीपर कविता (आशयविशेष व अभिव्यक्तीविशेष)		
एकूण श्रेयांक व तासिका		03	45

संदर्भसाहित्य —

- साहित्यप्रकार : कविता (लेख) — रमेश तेंडुलकर, साहित्य : अध्यापन आणि प्रकार — संपा. श्री. पु. भागवत व अन्य, पॉप्युलर, मुंबई.
- कविता : संकल्पना, निर्मिती आणि समीक्षा — वसंत पाटणकर, मराठी विभाग, मुंबई विद्यापीठ आणि अनुभव प्रकाशन, मुंबई.
- कवितेचा शोध — वसंत पाटणकर, मौज, मुंबई.
- कविता आणि प्रतिमा — सुधीर रसाळ, मौज, मुंबई.
- कवितेचा रूपशोध — म. सु. पाटील, शब्दालय, श्रीरामपूर.
- कवितेविषयी — वसंत आबाजी डहाके, स्वरूप, औरंगाबाद.
- काव्यप्रतीती — वसंत आबाजी डहाके, विजय, नागपूर.
- मराठी काव्याचे मानदंड भाग एक, दोन — स. रा. गाडगीळ, पद्मगंधा, पुणे.
- मराठी काव्यमीमांसा — अक्षयकुमार काळे, पद्मगंधा, पुणे.



३. शूर आम्ही सरदार

शांता शेळके

शूर आम्ही सरदार आम्हाला काय कुनाची भीती ?
देव, देश अन् धर्मापायी प्राण घेतलं हाती !

आईच्या गर्भात उमगली झुंजाराची रीत
तलवारीशी लगिन लागलं जडली येडी प्रीत
लाख संकटं झेलून घेईल अशी पहाडी छाती!

झुंजावं वा कटून मरावं हेच आम्हाला ठावं
लहून मरावं मरून जगावं हेच आम्हाला ठावं
देशापायी सारी इसरू माया ममता नाती!

(‘तोच चंद्रमा नभात’)



कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव
मानव्यविज्ञान विद्याशाखा
Choice Based Credit System
द्वितीय वर्ष कला
मराठी
सत्र तिसरे व चौथे
(जून २०१९ पासून लागू)

DSE मराठी १: आधुनिक वाङ्मयप्रकारांचा अभ्यास
(श्रेयांक: तीन)

सत्र तिसरे

MAR २३२

DSE मराठी १ A: आधुनिक वाङ्मयप्रकार: कादंबरी

- कादंबरी: 'अवकाळी पावसाच्या दरम्यानची गोष्ट' - आनंद विंगकर, लोकवाङ्मय गृह, मुंबई.
- अभ्यासक्रमाची उद्दिष्टे -
 - कादंबरी या वाङ्मयप्रकाराचे स्वरूप व त्याची वैशिष्ट्ये जाणून घेणे.
 - आधुनिक मराठी कादंबरीच्या वाटचालीचा परामर्श घेणे.
 - 'अवकाळी पावसाच्या दरम्यानची गोष्ट' या कादंबरीतील ग्रामीण जीवनवास्तवाचे स्वरूप लक्षात घेणे.
 - 'अवकाळी पावसाच्या दरम्यानची गोष्ट' या कादंबरीचे वाङ्मयीन मूल्यमापन करणे.
 - कादंबरीचे वाङ्मयीन आकलन व मूल्यमापन करून घेण्याची दृष्टी विकसित करणे.
- घटक विश्लेषण -

घटक क्र.	घटक	श्रेयांक	घड्याळी तासिका
१.	पार्श्वभूमी	०१	१५
	१.१ कादंबरी: स्वरूप व वैशिष्ट्ये		
	१.२ आधुनिक मराठी कादंबरीची वाटचाल (स्वातंत्र्यपूर्व काळातील कादंबरी आणि स्वातंत्र्योत्तर काळातील कादंबरी - टळक टप्प्यांच्या अनुषंगाने परामर्श)		



२.	'अवकाळी पावसाच्या दरम्यानची गोष्ट': स्वरूप व वैशिष्ट्ये	०१	१५
	२.१ 'अवकाळी पावसाच्या दरम्यानची गोष्ट' या कादंबरीचे कथानक व त्यातील व्यक्तिरेखाचित्रण		
	२.२ 'अवकाळी पावसाच्या दरम्यानची गोष्ट' या कादंबरीतील प्रसंगचित्रण व वातावरणनिर्मिती		
३.	'अवकाळी पावसाच्या दरम्यानची गोष्ट': स्वरूप व वैशिष्ट्ये	०१	१५
	३.१ 'अवकाळी पावसाच्या दरम्यानची गोष्ट' या कादंबरीची निवेदनपध्दती व भाषाशैली		
	३.२ 'अवकाळी पावसाच्या दरम्यानची गोष्ट' या कादंबरीतून घडणारे ग्रामीण जीवनवास्तवाचे दर्शन व चित्रित संघर्ष		
	एकूण श्रेयांक व घड्याळी तासिका	०३	४५

• संदर्भसाहित्य:

१. कादंबरी हा वि. का. राजवाडे यांचा निबंध, समाविष्ट - राजवाडे लेखसंग्रह, साहित्य अकादेमी, नवी दिल्ली.
२. मराठी कादंबरी पहिले शतक - कुसुमावती देशपांडे, मुंबई मराठी साहित्य संघ, मुंबई.
३. टीकास्वयंवर - भालचंद्र नेमाडे, साकेत, औरंगाबाद.
४. गेल्या अर्धशतकातील मराठी कादंबरी - संपा. विलास खोले, लोकवाङ्मय गृह, मुंबई.
५. 'कादंबरी', उषा हस्तक, साहित्य:अध्यापन आणि प्रकार, संपा. श्री. पु. भागवत व इतर, पॉप्युलर व मौज, मुंबई.
६. 'अवकाळी पावसाच्या' निमित्ताने - संपा. सतीश कामत, लोकवाङ्मय गृह, मुंबई.
७. 'अवकाळी पावसाच्या दरम्यानची गोष्ट', द. तु. पाटील, शब्दरुची, डिसेंबर २०१५, पृ. ४४ - ४६.
८. साहित्याचा अवकाश - नागनाथ कोत्तापल्ले, प्रतिमा, पुणे.
९. कादंबरी संवाद - पंडित टापरे, पद्मगंधा, पुणे.
१०. मराठी कादंबरी: समाजशास्त्रीय समीक्षा - रवींद्र ठाकूर, दिलीपराज, पुणे
११. मराठी ग्रामीण कादंबरी - रवींद्र ठाकूर, मेहता, पुणे.
१२. कादंबरी: एक साहित्यप्रकार - हरिश्चंद्र थोरात, शब्द पब्लिकेशन, मुंबई.
१३. कादंबरीविषयी - हरिश्चंद्र थोरात, पद्मगंधा, पुणे.
१४. साहित्याचे मर्म-शोध आणि बोध - चंद्रकांत बांदिवडेकर, पद्मगंधा, पुणे.
१५. समकालीन मराठी कादंबरी - गणेश मोहिते, जनशक्ती वाचक चळवळ, औरंगाबाद.
१६. कादंबरीची संकल्पना - रंगनाथ पठारे, वाङ्मयप्रकार:संकल्पना व स्वरूप, संपा. आनंद वास्कर, अन्वया प्रकाशन, पुणे.
१७. मराठी कादंबरी: आशय आणि आविष्कार - दत्ता घोलेप, अक्षरवाङ्मय, पुणे.
१८. जागतिकीकरण आणि शेतकऱ्यांचे प्रश्न - गोविंद पानसरे, महाराष्ट्र राज्य किसान सभा.



दुर्लक्ष झालं, रात्री जेवण मिळण्याची ददात. दारू पिऊन कुठंही पडायला लागला. पुढे होऊन माहेरच्या माणसांनीच त्याची समजूत काढली. पोरीना कपडे, पावण्यासह पार्वतीला उभयतांचं माहेर, वर पाच हजार देऊन तिला नांदायला पाठवलं.

पण यशानानाचा एक पाय हमेशाच डबऱ्यात पडलेला. कधी पाऊसपाणी वेळेवर नाही. पीक चांगलं असेल तर दर उतरलेले. महागाई तर अशी, युरियाचं एक पोतं दोनशेच्या वर. त्याचपटीनं कीटकनाशकं, औषधं आणि बियाणं विकत घ्यावं लागतंय. हंगामाशिवाय आवक नाही कसली. तीन पोरींचं शिक्षण. सगळीकडून कर्ज वाढायला लागली.

त्यामुळे तो गडी चिडखोर, घुमा आणि इतरांचा द्वेष करणारा झाला. कधी धर्माच्या नावाखाली इतर जातिधर्मांचा तिटकारा करणारा, रिझर्वेशनमुळे दलितांना शिब्या घालणारा आणि भावकीतही कोणाशी सरळ न बोलणारा.

चेष्टेनं लोक त्याच्या अपरोक्ष त्याला 'फायरिंग यशानाना' म्हणतात. परिस्थितीतून आलेला हा सर्व उद्वेग, संताप त्यानं आपल्या पोटात रिचवून ठेवला. कुत्र्यानं बोकड मारल्यानं त्याचा राग अनावर झाला. तरी दुपारीच ते जेवताना समोर आलं होतं, काय कमी अर्ध्या भाकरीचा तुकडा त्यानं त्या बांड्या कुत्र्याला टाकला होता.

तेच ते बांड कुत्रं त्याच्या आयचा मी, त्याला आता जिता ठेवणार न्हाय. त्याचाच नव्हं गावातल्या साऱ्या कुत्र्यांचा मी नायनाट करून टाकणार.

मेलेल्या बोकडाचे चार पाय दुमडून त्यानं ते कणसं गोळा करण्याच्या हऱ्यात टाकलं. त्याची तोडलेली मान बाहेर लोंबकळत आहे. अजूनही रक्ताचे थेंब पडतायत. मेलेल्या या बोकडावर कावळेसुद्धा फिरायला लागलेत. केवढ्या धारिष्ट्याचे हे पक्षी, हाड्या हाड्या करा, भिणार नाहीत. दोन पायांवर उड्या मारीत मागे सरणार आणि फिरून बोकडावर येऊन कोंडाळं करणार.

डोक्यावर उचलून घेताना उषाला म्हणाला, "हं धर उचलू लाग मला."

"हे कशाला घेतायसा डोक्यावर? टाका इथंच."

दोघांच्या बोलण्यात उषा अवघडलेली.

"गप गुमान हो पुढं. गोळा कर तो सराजम. ए पोरी, धर उचल."

पार्वतीनं रंजीस होऊन सामान गोळा केलं. जेवणाची भांडी, कळशी घेतली. एकीने शाळू काढायची बेडगी ठेवली पेंढ्याखाली. मनात म्हणाली, चांगलं बाराशेला मागितलं होतं, मी दिलं नाही. आता रथाला पोरीना धडुतं नाहीत. मण्यांची कुणी आस धरलीय. थोरली शहाणी हाय माझी. या दोघींना कसंतरी समजवायला हवं. नशीब ही शेरडी हाय गाभणी.



पुरती सावरलेली नव्हती. ऐनवेळी यशवंताच्या हातात काही नव्हतं, तरीही एक थोंडा अजून थोड्या अंतरावर असलेल्या कुत्र्याच्या पेकाटात त्याने घातला. तोंडचा घास सुटल्याने नाराजीने ते कुत्रं दूर पळालं आणि लांब जाऊन उभं राहिलं.

'जाशील कुठं आज ठेवत न्हाय तुला'—यशानाना पिसाळला. पार्वतीच्या डोळ्याला पाणी आलं. रक्त पाहिलं की तिला भोवळ येते. धाकटीनंतर एक-दोन नव्हे चांगली तीन वेळा तिची क्युरेटिंग झालेली आहेत. प्रत्येक वेळी पोरगीच जन्माला घातलेली. धाकटीचे नावसुद्धा ठेवलेलं नकोशी!

पार्वतीला मुलगा झाला नाही असं नाही. उषाच्या नंतर तो जन्मला. घरीच. जन्मताना तो रडला नव्हता. पाच-सहा महिन्याचा झाला तरी नजर धरत नव्हता. दीपक, केवळ मांसाचा गोळा. भूक लागल्यानंतर आपल्या क्षीण आवाजात काय तो रडत असेल तेवढाच! त्याच्या हातापायांची वाढच होत नव्हती बरोबर. तुलनेत डोकं मोठं होतं म्हणून जवळच्या डॉक्टरला त्याला दाखवलं. काय इलाजच चालत नव्हता त्यावर. दीड वर्षांचा झाला तरी सरळ बसता येत नव्हतं. पार्वतीला अन् उषाला तेवढं ओळखायचा. सगळं शरीर लुळं, डोळेच तेवढे लकाकणारे. कधी कोणी गालात हसताना बधितलं नव्हतं त्याला. ही उषा त्याच्याहून तीन वर्षांनी थोरली. त्याला मांडीवर आडवं घेऊन बसायची तर त्याचं डोकं भुईला टेकायचं. शरीराला धर नव्हता. मनगट अन् पायांच्या पिढऱ्या आखूड, नुसत्याच सुजल्यासारख्या लिंबिलिंबीत. आणि डोकं मात्र वाढत जाणारं, काय कमी भोपळ्याएवढं. हात लावला तर गरम विस्तवासारखं वाटायचं. वाढून वाढून ते एकदम फुटेल, नाहीतर न पेलणाऱ्या त्या वजनाने मान मोडेल असं वाटायचं. केविलवाणं. तोंडातून शब्द नाही निघाला अखेरपर्यंत. आपलं काय दुखतंय हे सांगता नाही आलं त्याला. पावणे दोन वर्षांचा तो उषाच्या मांडीवर मरण पावला.

यशवंताला पोरगा पाहिजे होता. मुलाच्या मृत्यूनंतर दुसरी मुलगीच झाली तिचं नाव ठेवलं आशा. तिसरी परत पोरगीच. जोडीदार म्हणाले, तीन-चार महिन्यांनंतर टेस्ट करून बघायचं.

मुलगी नको असताना सूर्यग्रहणाच्या दिवशी ती जन्माला आली. आमवऱ्याची, म्हणून ती नकोशी. तिच्यानंतर तीन वेळा पार्वती चारपाच महिन्यांची गरोदर असताना अर्बोर्शनं केली. चिकट द्रावाच्या थारोळ्यात पूर्ण वाढ झालेल्या उंदरासारखा लालसर गुलाबी जीव, त्याच्या भोवती रक्त. पार्वतीचा चेहरा काविळीने पिवळा पडावा इतका निस्तेज. या दरम्यान तिला बसल्या जागेवरून उठता येत नव्हतं इतकी ती अशक्त अन् कमजोर झाली होती. खोल गेलेल्या डोळ्यांभोवती काळी चर्तुळं वाढलेली. शेवटी डॉक्टरच म्हणाला,



S.Y.B.A. Compulsory English
CENG-231 & CENG-241
Syllabus (w.e.f. June, 2014)

Prescribed Textbook: IMPRESSIONS edited by Board of Editors, NMU, Jalgaon

Recommended Books for Grammar:

1. **An Intensive Course in English: C.D. Sidhu**
2. **A Remedial English Grammar for Foreign Students: F.T. Wood**
3. **Intermediate English Grammar, Usage and Composition: M.L. Tickoo, P.R. Subramaniam, A.E. Subramanian**

Semester –III
CENG-231

A) LITERARY SECTION

I) Short Stories

- 1) Luck – Mark Twain
- 2) The Night the Ghost Got in – James Grover Thurber
- 3) The Barber's Trade Union – Mulk Raj Anand

II) Prose

- 1) Memorial Addressed to the Education Commission – Jyotirao Govindrao Phule
- 2) Literature and Science – Aldous Huxley

III) Poems

- 1) The Cripple I – Sant Tukaram (Translated by Dilip Chitre)
- 2) The Pulley – George Herbert
- 3) Come Down, O Maid – Alfred Lord Tennyson
- 4) Dover Beach – Matthew Arnold

B) COMMUNICATIVE ENGLISH SECTION

I) Spoken Communication

- 1) Congratulating
- 2) Complimenting
- 3) Telephonic Conversation

II) Written Communication

- 1) Report writing
- 2) Notice, Agenda
- 3) Minutes
- 4) Newspaper Reporting

C) GRAMMAR

Tenses – Present Tense, Past Tense & Future Tense

Format of the Question Paper

Time: Two Hours

Max. Marks: 40

Q. 1) Attempt the following questions in about 120 words. (On Short Stories)

(One out of Two)

08 Marks

Q. 2) Read the following passage and answers the questions in one or two sentences each.

(On Prose) (06 questions to be set, with no internal option, 05 questions factual and 01

Question personal-response)

06 Marks

Q. 3) Attempt the following questions in about 60 words each. (On Poems) (Two out of four)

06 Marks

Q. 4) On Communication Skills

(A) Spoken Communication

- 1) Congratulating (No internal option) **03 Marks**
- 2) Complimenting (No internal option) **03 Marks**
- 3) Telephonic conversation (No internal option) **03 Marks**

(B) Written Communication

(On Report writing / Notice / Agenda / Minutes writing / Newspaper Reporting)
(One out of Two) **05Marks**

Q. 5) Text-based Grammar (on Tenses)

- 1) Do as directed. (3/5) **03 Marks**
- 2) Identify the tense used in the sentences given below. (3/5) **03 Marks**

Semester - IV

CENG - 241

A) LITERARY SECTION

I) Short Stories

- 1) Gold from the Grave – Anna Bhau Sathe
- 2) Strong Horse Tea – Alice Walker
- 3) Love Story – Maneka Gandhi

II) Prose

- 1) Mani's Death- Bhalchandra Nemade
- 2) ICTs in Higher Education: Technology Literacy for Today and Tomorrow
– Seema Jain

III) Poems

- 1) Enterprise - Nissim Ezekiel
- 2) Obituary – A. K. Ramanujan
- 3) Caves – Jyoti Lanjewar
- 4) Prohibited History – Challapalli Swaroop Rani

B) COMMUNICATIVE ENGLISH SECTION

I) Spoken Communication

- 1) Thanking
- 2) Apologizing
- 3) Making Enquiries

II) Written Communication

- 1) Letter writing – Personal & Official letters

C) GRAMMAR

Types of Sentences - Assertive, Interrogative, Exclamatory and Imperative Sentences

Format of the Question Paper

Time: Two Hours

Max. Marks: 40

- Q. 1)** Attempt the following questions in about 120 words. (On Short Stories)
(One out of Two) **08Marks**
- Q. 2)** Read the following passage and answers the questions in one or two sentences each.
(On Prose) (06 questions to be set, with no internal option, 05 questions factual and 01
Question personal-response) **06 Marks**
- Q. 3)** Attempt the following questions in about 60 words each. (On Poems)
(Two out of four) **06 Marks**

Q. 4) On Communication Skills

(A) Spoken Communication

1) Thanking (No internal option)

03 Marks

2) Apologizing (No internal option)

03 Marks

3) Making Enquiries (No internal option)

03 Marks

(B) Written Communication (On Letter Writing – Personal & Official)

(One out of Two)

05 Marks

Q. 5) Text-based Grammar

(On Assertive, Interrogative, Exclamatory and Imperative Sentences)

1) Do as directed. (3/5)

03 Marks

2) Identify the type of sentences given below. (3/5)

03 Marks



S.Y.B.A. Compulsory English

Text- English for Humanities

External – 60 marks

Internal- 40 marks

Semester-III-

Credits -03 (45 clock hours)

Unit 1 – Literature

1) Short Stories:

1. The Lady or a Tiger?: Frank R. Stockton
2. Kabuliwala: Rabindranath Tagore

II) Essays:

1. Spoken English, Broken English: G. B. Shaw
2. Modern Improvements: John Ruskin

III) Poems:

1. A Red Red Rose: Robert Burns
2. All the world's a Stage: William Shakespeare

Unit 2 - Word Formation

1. Affixation
2. Compound Words

Unit 3 - Skills in writing

1. SMS
2. E-Mail
3. Net Lingo



Sem. IV- Compulsory English

Credits – 03 (45 clock hours)

Unit 1 - Literature

I) Short Stories:

1. Salt Inspector: Premchand
2. All About a Dog: A. G. Gardiner

II) Essays:

1. The Power of Prayer: A. P. J. Abdul Kalam
2. Values in Life: Rudyard Kipling

III) Poems:

1. Stopping by Woods On a Snowy Evening: Robert Frost
2. Ozymandias: P. B. Shelley

Unit 2 - Grammar

1. Sentences: Kinds and Functions
2. Clauses (Noun Clause, Adverbial Clause)

Unit 3 - Communication Skills

1. Situational Dialogues
2. Small News Writing
3. Information Transfer: Non-verbal, Verbal



Kavayitri Bahinabai Chaudhari
NORTH MAHARASHTRA UNIVERSITY, JALGAON
Syllabus of F. Y. B. A. History
Semester First
Choice Based Credit System, Semester System

Core Course-(HIS – DSC A 1)
HISTORY OF INDIA (1857-1950)

Marks 60

Period 52

Credits 03

Chapter 1: Socio-religious reform movements

(Credits :01, Marks:20)

- a. Brahma Samaj, Prathana Samaj, Ramkrishna Mission, AaryaSamaj
- b. Wahabi, Deoband, Aligarh and Singh Sabha Movement
- c. Debates around Gender
- d. Caste ; Sanskritising and anti Brahminical trends

Chapter 2: Political Trends up to 1919

(Credits : 01, Marks:20)

- a. Political Ideology and Organization
- b. Formation of Indian National Congress
- c. Moderates and Extremists
- d. Swadeshi Movement
- e. Revolutionaries

Chapter 3: Nationalism and Social Groups: Interfaces

(Credits :01, Marks:20)

- a. Landlords, Professionals and Middle Classes
- b. Peasants
- c. Tribal
- d. Labour
- e. Dalit
- f. Women



Kavayitri Bahinabai Chaudhari
NORTH MAHARASHTRA UNIVERSITY, JALGAON
Syllabus of F. Y. B. A. History
Choice Based Credit System, Semester System

Core Course-(HIS – DSC A 2)
Semester Second
HISTORY OF INDIA (1857-1950)

Marks 60

Period 52

Credits 03

Chapter 1: Gandhi and Nationalism after 1920

(Credits :01, Marks:20)

- a. Mahatma Gandhi his Perspectives and Methods
- b. Non Co-operation Movement ; Causes and Effects
- c. Civil Disobedience Movement
- d. Provincial Autonomy
- e. Quit India Movement
- f. Indian National Army

Chapter 2: Communalism

(Credits :01, Marks: 20)

- a. Rashtriya Swayam Sevak Sangh (RSS)
- b. Hindu Maha Sabha
- c. Muslim League

Chapter 3: Independence and Partition of India

(Credits :01, Marks: 20)

- a. Negotiations for Independence and Partition
- b. Partition riots
- c. Making of the constitution

Recommended Books

Arvind Ganachari, Nationalism and Social Reform in a Colonial Situation, Kalpaz Publication New Delhi, 2005.

Bipin Chandra & Others, India's Struggle for Independence, Penguin Books, New Delhi.

Bipan Chandra, , Communalism in Modern India . Vikas, NBT Delhi 1987.

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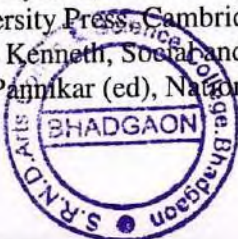
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Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

New Syllabus (CBCS Pattern) W.E.F June 2020

TYBA Sem.: V

Gg. 351 (DSC 1E) Environmental Geography

Total Marks: 60

Credit Points: 03

Total Clock Hours: 45

Objectives:

1. To create the environmental awareness amongst the students.
2. To acquaint the students with fundamental concepts of Environmental Geography.
3. To aware the students about the processes and patterns in the natural environment.
4. To acquaint the students with potentials of Environmental Geography.
5. To aware the students about use of resources with prudence.
6. To acquaint the students with different environmental policies.

Units	Topic	Sub Topics	Clock Hours
1	Introduction to Environmental Geography	1.1) Introduction to Environment: a) Meaning and Concept b) Environmental Geography: Definitions, Nature and Scope of Environment Geography 1.2) Environmental Approaches : a) Environmental Deterministic Approach b) Possibility Approach c) Ecological Approach	10
2	Ecosystem and Man and Environment Relationship	2.1) Ecosystem: a) Meaning and Concept b) Structure & Components of Ecosystem: i) Abiotic ii) Biotic c) Functions of Ecosystem :i)Nutrient Cycles a) Carbon Cycle b) Nitrogen Cycle i i)Energy Flow a)Food Chain b) Food web 2.2) Human - Environment Relationship : Human life in- i) Equatorial Region ii)Mountainous Region iii) Coastal Region	12

3	Biodiversity and Environmental Problems	<p>3.1) Biodiversity: Definitions and Types / Levels of Biodiversity a) Genetic Diversity b) Species Diversity c) Ecosystem Diversity</p> <p>3.2) Conservation of Biodiversity: In –situ and Ex-situ conservation of biodiversity</p> <p>3.3) Major Environmental Problems: Causes and adverse effects of the following i) Unseasonal rainfall, ii) Thunderstorms iii) Biodiversity losses iv) Solid waste v) Liquid waste and vi) Air Pollution</p> <p>3.4) Environmental Management regarding Pollution Control- a) Air b) Water</p>	12
4	Environmental Policy	<p>4.1) National Environmental Policy (NEP): Introduction and Objective</p> <p>4.2) Initiatives or Actions Regarding Policy: i) Land Degradation ii) Forest and Wildlife Conservation</p> <p>4.3) Environmental Protection Efforts: - Developing and Developed Countries.</p>	11

Unit No.	Weightage of Marks
1	12
2	18
3	18
4	12
University Assessment	60
College Assessment	40



Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

New Syllabus (CBCS Pattern) W.E.F June 2020

TYBA Sem.: V

Gg. 352 (DSE 3A) Economic Geography

Total Marks: 60

Credit Points: 03

Total Clock Hours: 45

Objectives:

1. To acquaint the students with the knowledge of economic realm in the world.
2. To highlight the different economic activities.
3. To study mineral and power resources in the specific regions of the world.

Unit	Topic	Sub-Topics	Clock Hours
1	Introduction to Economic Geography	1.1 Definitions , Nature and Scope 1.2 Approaches (Regional Approach, Commodity Approach and Principle Approach) 1.3 Concept of Economic Geography	10
2	Economic Activities and Types of Agriculture.	2.1 Meaning of Economic Activities 2.2 Types of Economic Activities- Primary, Secondary, Tertiary and Quaternary activities with Suitable Examples and Characteristics 2.3 Types of Agriculture: Intensive Subsistence and Commercial Dairy Farming and Plantation Agriculture.	12
3	Theories and Models	3.1 Weber's Theory of Industrial Location 3.2 Rostow's Model of Economic Development	10
4	Minerals, Industries and Trade	4.1 Minerals : Distribution and Production of Iron Ore and Coal in USA and India 4.2 Industries : i. Factors of Location of Industries ii. Production and Distribution of Industries like a. Cotton Textile Industries in Japan and India. b. Sugar Industries in India and Special Reference to Maharashtra State.	13



Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

New Syllabus (CBCS Pattern) W.E.F June 2020

TYBA Sem.: V

Gg. 353 (DSE 4A) Practical in Human Geography and Geo-Statistics.

(Work load - 06 Periods per week per batch of 12 students)

Total Marks: 60

Credit Points: 03

Total Clock Hours: 90

Objectives:

- To introduce the practical approach of Human Geography.
- To introduce the importance of statistical techniques in Human Geography.
- To introduce some basic research methods to the students.

Unit	Topic	Sub-topics	Clock Hours
I	Practical in Population Geography	1.1 To Calculate the Following Indicators of Population Distribution: 1. Population Growth Rate 2. Sex Ratio 3. Density of Population: • Arithmetic Density 1.2 Measures of Fertility and Mortality: 1. Crud Birth Rate 2. Mortality Rates: Crud Death Rate and Infant Mortality Rate. (Calculate each two examples of each.)	25
II	Practical in Agricultural Geography	2.1 Crop Combination (Weaver's Method) 2.2 Crop Concentration By Bhatia's Method 2.3 Crop Diversification By Bhatia's Method (Calculate two examples of each)	30
III	Introduction To Geo-statistics	3.1 Importance of Statistical Techniques in Geography. 3.2 Sources of Geographical Data : 1) Primary Sources 2) Secondary Sources 3.3 Definitions of Frequency, Frequency Distribution and Cumulative Frequency. 3.4 Measures of Central Tendency: Mean, Median, Mode	10



Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon
New Syllabus (CBCS Pattern) W.E.F June 2020
TYBA Sem.: V

Gg. 355 (GE 1A) Disaster Risk Reduction.

Total Marks: 60

Credit Points: 03

Total Clock Hours: 45

Objectives:

1. To introduce the concept of disaster risk.
2. To prepare DRM Plans and its implementation.
3. To aware the students about the Disaster Risk Reduction/Mitigation strategies.

Unit	Topic	Sub- Topics	Clock Hours
I	Introduction To Disaster Risk	1.1 Definitions of Disaster and Disaster Risk. Concept of Hazards, Risk, Vulnerability and Importance of Disaster Risk Reduction 1.2 Assessment of Disaster Risk	8
II	Disasters in India	2.1 Causes, Impact, Distribution and Mapping: a) Natural Disaster: Flood, Drought, Earthquake and Cyclone. b) Biological Disaster : Pest and Weeds , Causes of spreading of Corona Virus (Covid -19) and Preventive Measures to Control it c) Human Induced Disasters: Fire and Accidents	12
III	Mitigation of Disasters.	3.1 Preparedness, Mitigation and Prevention – a) Preparedness – <ul style="list-style-type: none"> • Awareness generation; • Information management; • Early warning dissemination system; Community participation – <ul style="list-style-type: none"> • Task forceformation; • Training and Capacity building; • Preparedness plan preparation; • Simulation. b) Mitigation – <ul style="list-style-type: none"> • Knowledge of disaster specific risk; • Analysing the mechanism of disaster damages and possible interventions for minimising the impact of disaster; • Preparation of Mitigation plan. c) Prevention – <ul style="list-style-type: none"> • Analysing the nature of a hazard and ways of minimising its intensity; • Preparation of disaster prevention plan 	15



IV	Disaster Risk Management (DRM) Plan and Role of Remote Sensing in DRM	<ul style="list-style-type: none"> • Sharing DRM plan with Government Agencies and NGO; • Resource mobilisation; • Monitoring and Evaluation. • Role of Risk transfer and insurance in DRM • Role of Remote Sensing and Artificial Intelligence (AI) in DRM 	10
Total			45

Unit No.	Weightage of Marks
1	10
2	20
3	15
4	15
University Assessment	60
College Assessment	40

Reference Books:

1. आपत्ती व्यवस्थापन : संकल्पना आणि कृती – कर्नल (निवृत्त) प्र. प्र. मराठे, प्रा. व्ही. जे. गोडबोले, डायमंड प्रकाशन, पुणे.
2. आपत्ती व्यवस्थापन– प्रा. ए. पी. चौधरी, प्रा. अर्चना चौधरी, प्रशांत प्रकाशन, जळगाव.
3. Government of India. (1997) Vulnerability Atlas of India. New Delhi, Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India.
4. Kapur, A. (2010) Vulnerable India: A Geographical Study of Disasters, Sage Publication, New Delhi.
5. Singh, R.B. (2005) Risk Assessment and Vulnerability Analysis, IGNOU, New Delhi. Chapter 1, 2 and 3
6. Singh, R. B. (ed.), (2006) Natural Hazards and Disaster Management: Vulnerability and Mitigation, Rawat Publications, New Delhi.
7. Sinha, A. (2001). Disaster Management: Lessons Drawn and Strategies for Future, New United Press, New Delhi.
8. Singh Jagbir (2007) "Disaster Management Future Challenges and Opportunities", 2007. Publisher- I.K. International Pvt. Ltd. New Delhi, India.



Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

New Syllabus (CBCS Pattern) W.E.F June 2020

TYBA Sem.: VI

Gg. 361 (DSC 1F) Population Geography.

Total Marks: 60

Credit Points: 03

Total Clock Hours: 45

Objectives;

1. Understand the components of population change.
2. Develop skills to use population information in the planning process.
3. Understand the impact of planning activities on population size, composition, and distribution
4. Population is an important resource. The development of any nation is depends on human resource. It is a prime deity to acquaint with the human resource of the nation.
5. To understand the recent problems of population in the world as well as nation.

Sr. No.	Topic	Sub Topics	Clock Hours
1	Introduction to Population Geography & Population Data	1.1 Definitions and Meaning of Population Geography 1.2 Nature and Scope of Population Geography. 1.3 a) Need and Types of Population Data b) Sources of Population Data – i) Census ii) National Sample Survey iii) Vital Registration	09
2	Distribution of Population	2.1 Growth of Population in India 1951-2011. 2.2 Distribution of Population – World and India(2011). 2.3 Factors affecting the distribution of Population – a) Physical- i) Topography ii) Climate iii) Water iv) Soil v) Forest b) Socio-Cultural – i) Religion ii) Agriculture iii) Transportation i v) Education v) Government policies	12
3	Composition of Population and Population	3.1 Composition of Population : a) Age Composition (Meaning and Factors affecting age Composition, Age Pyramid) b)Sex Composition in India	12

	Theories	c) Decreasing Sex ratio and its impact d) Literacy in India (1951 to 2011) 3.2 Population Theories : a) Malthusian Theory of Population Growth b) Demographic Transition Model	
4	Population Problems in India & Population Policy	4.1 Problems of Population in India and Its remedial measures a) Over Population b) Brain Drain c) Excess Urbanization 4.2 National Population Policy in India - 2000	12

Sr. No.	Unit No.	Weightage of Marks
1	1	14
2	2	16
3	3	16
4	4	14
University Assessment		60
College Assessment		40

REFERENCES:

- 1) Chandana,R.C. and Janjit S. S.(1980): Introduction to Population Geography ,Kalyani Publishers,New Delhi
- 2) Clarke J.I.(1977):Population Geography and Developing Countries ,Robert Maxwell, MC.
- 3) Masjid Husain (1991) Anmol Publication Ltd. New Delhi
- 4) Mohammand Izhar Hussan : Population Geography. Rawat Publication
- 5) Sawant S.B. and Athawale A.S. (1994) : Population Geography , Mehata Publishing House , Pune
- 6) V.J.Patil And S.V.Dhake : Loksankhya Bhugol (Marathi Medium) , Prashant Publication , Jalgaon
- 7) Ahirro, Alizad and others : Loksankhya Bhugol (Marathi Medium)
- 8) V.T. Gharpure : Loksankhya Bhugol (Marathi Medium) Pimpalpure Publication , Satara.
- 9) T.N. Goplal , Nishikant : LoksankhyaBhugol (Marathi Medium) Prashant Publication, Jalgaon
- 10) A.B.Sawadi : Loksankhya Bhugol (Marathi Medium) The Savadi's Mega Geographical Series



Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

New Syllabus (CBCS Pattern) W.E.F June 2020

TYBA Sem.: VI

Gg. 363 (DSE 4B) Practical in Physical Geography

(Work load - 06 Periods Per Week Per Batch of 12 Students)

Total Marks: 60

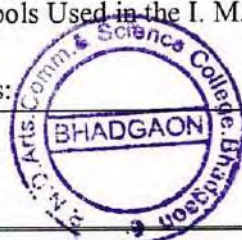
Credit Points: 03

Total Clock Hours: 90

Objectives:

1. To introduce the students with SOI toposheets and to acquire the knowledge of toposheet Reading / interpretation.
2. To acquaint the students with IMD weather maps and to gain the knowledge of weather map reading/ interpretation.

Sr. No.	Unit	Sub Unit	Clock Hours
1	Elements of Topographical Map Reading	1.1 Arrangement of Toposheet On Map of India i) Indexing of Topographical Map 1.2 Marginal Information and Grid References i) Marginal information ii) Grid reference: Four and six figure . 1.3 Conventional Signs and Symbols on Indian Topographical Map	25
2	Interpretation of SOI Toposheets and Drawing of profiles	2.1 Relief Features By Contours a) Conical Hill b) Plateau c) Ridge d) Gorge e) U Shaped Valley f) V Shaped Valley g) Waterfall Slopes : Concave and Convex Slopes , Gentle and Steep Slopes, Terraced Slope. 2.2 Map Interpretation: Interpretation of Topographical Maps (Minimum any two of the following). i) Mountainous/Hilly Region ii) Plateau Region iii) Plain Region 2.3 Profiles:- Drawing of Longitudinal Profile, Cross Profile.	30
3	Interpretation of I.M.D Weather Maps	3.1 Introduction to I.M.D. Weather map 3.2 Signs and Symbols Used in the I. M. D. Weather Map. 3.3 Isobaric Patterns:	25



		i) Cyclone ii) Anti-Cyclone iii) Trough of low pressure iv) Wedge/Ridge v) Col vi) Secondary depression 3.4 Study and Interpretation of Weather Maps of Following Seasons (Minimum any two of the following). i) The Monsoon Season ii) The Winter Season iii) The Summer Season	
4	Study Tour/Village Survey	Preparation of Green Audit Report of Your College or Any Place/Tour Report/ Village Survey and Preparation of Journal	10

Note : The educational tour / Village Survey /visit to any place should be conduct and organize by the direction of Maharashtra Govt. rules and regulations and prior permission of college authority.

Weightages of Marks	
Units	Marks
1	15
2	10
3	15
4	10
Journal and Viva Voce	10
University Assessment	60
College Assessment	40

References:

- 1 Singh. R. L. and Singh R.P.B. (1972): Elements of Practical Geography; Kalyani Publication.
- 2 Khan, MD.Z.A. (1998): Text Book of Practical Geography: Concept Publishing Company.
- 3 Monkhouse F.J. and Wilkinson. H.R. (1971): Maps and Diagrams B.I. publications private limited, New Delhi.
- 4 Ahmed, I. (1994): Practical Geography, Jawahar Publishers and Distributers, New Delhi.
- 5 Sarkar, A. (1997): Practical Geography: A systematic approach, Orent Longman Ltd, Hyderabad.
- 6 Singh, Gopal, (1998): Map Work and Practical Geography.



Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon
New Syllabus (CBCS Pattern) W.E.F June 2020

TYBA Sem.: VI

Gg. 365 (GE 1B): SUSTAINABILITY AND DEVELOPMENT

Total Marks: 60

Credit Points: 03

Total Clock Hours: 45

Objectives:

1. It brings to attention the Students about the issues which surround Sustainable Development, including its Principles, Processes and Concepts, its Deciding factors, and Potentials it holds.
2. Students will get the information and Importance of the MDGS.
3. Students will be aware about National Environmental Policy.

Sr. No.	Topic	Sub Topics	Clock Hours
1	INTRODUCTION	1.3 Definition of Sustainability 1.4 Components of Sustainability a)Environmental Sustainability b)Economic Sustainability c)Social Sustainability	10
2	MILLENNIUM DEVELOPMENT GOALS	2.1 Meaning of Millennium Development Goals 2.2 Millennium Development Goals – Report 2015 (UN) 2.3 India and the MDGS 2.4 MDGS achievement and failures 2.5 Effectiveness of MDGS	12
3	SUSTAINABLE DEVELOPMENT	3.1 Definition and Nature of Sustainable Development 3.2 Need of Sustainable Development 3.3 Sustainable Development Goals (SDGS 2015) 3.4 Sustainable Development in different Ecosystem a) Agriculture b) Forest 3.5 Role of Individual and Community in Sustainable Development 3.6 Clean Development Mechanism (CDM)	12
4	INCLUSIVE DEVELOPMENT	4.1 Role of Higher Education in Sustainable Development 4.2 Health and Sustainable Development 4.3 Poverty and Diseases and Sustainable Development 4.4 Policies and Global Cooperation for Climate Change Control 4.5 National Environmental Policy 4.6 Rio + 20	11



Sem. -V

T.Y.B.Sc. Chemistry

Course No:- CH-356(B)

Subject: Environmental Chemistry

Chapter 1: Atmosphere and Air Pollution

(M-14 L-14)

- 1.1 Composition and structure of atmosphere
- 1.2 Chemical and photochemical reactions in atmosphere
- 1.3 Chemistry of O₃, SO_x, NO_x and chlorides in atmosphere
- 1.4 Primary air pollutants
- 1.5 Particulate matter: Inorganic and Organic
- 1.6 Smog: Reducing and Photochemical
- 1.7 Mechanism of ozone depletion
- 1.8 Stability and reactions of CFCs
- 1.9 Harmful effects of CFCs
- 1.10 CFCs substitutes

Ref. 1, Ref. 3, Ref. 4 (Relevant Pages)

Chapter 2: Hydrosphere and water pollution

(M-12 L-12)

- 2.1 Water resources
- 2.2 Microbially mediated aquatic reactions, nitrogen cycle, iron and manganese bacteria
- 2.3 Classification of water pollutants
- 2.4 Organic and Inorganic pollutants: Pesticides, Detergents, Eutrophication, Marine, Oil, Acid mine drainage, remedial measures and sediments
- 2.5 Thermal pollution
- 2.6 Water quality parameters: pH, D.O. (Winkler Method), COD, TOC, Total hardness, free chlorine.

Ref. 1, 2, 3, and 4 (Relevant Pages)

Chapter 3: Water treatment and effluent management

(M-12 L-12)



Semester III: Physics paper IV

PHY 304: Skill Enhancement Course I (SEC-I)

Renewable energy and Energy Harvesting (Credits: 02) Theory: (30 L, 60M)

[The aim of this course is not just to impart theoretical knowledge to the students but to provide them with exposure and hands-on learning wherever possible]

Unit 1. Conventional and Non-conventional energy Sources: Fossil fuels and Nuclear Energy, their limitation, need of renewable energy, non-conventional energy sources. (02L, 04M)

Unit 2. Solar Energy

Solar energy, its importance, storage of solar energy, solar pond, non convective solar pond, applications of solar pond and solar energy, solar water heater, flat plate collector, solar distillation, solar cooker, solar green houses, solar cell, absorption air conditioning. Need and characteristics of photovoltaic (PV) systems, PV models and equivalent circuits, and sun tracking systems. Solar energy utilization by Solar roof panels. (06 L, 12 M)

Unit 3. Ocean, geothermal, Hydro and Biomass energy resources.

- a. **Ocean Energy:** Ocean Energy Potential against Wind and Solar, Wave Characteristics and Statistics, Wave Energy Devices. (03 L, 06M)
Tidal energy, Tide characteristics and Statistics, Tide Energy Technologies, Ocean Thermal Energy, Osmotic Power. (02 L, 04M)
- b. **Geothermal Energy:** Geothermal Resources, Geothermal Technologies. (02 L, 04M)
- c. **Hydro Energy:** Hydropower resources, hydropower technologies, environmental impact of hydro power sources. (02 L, 04M)
- d. **Biomass energy:** biomass, biochemical conversion, biogas generation, Ocean biomass (02L, 04M)

Unit 4. Energy Harvesting:

- a. **Wind Energy harvesting:** Fundamentals of Wind energy, Wind Turbines and different electrical machines in wind turbines, Power electronic interfaces, and grid interconnection topologies (03 L, 06M)
- b. **Piezoelectric Energy harvesting:** Introduction, Physics and characteristics of piezoelectric effect, materials and mathematical description of piezoelectricity, Piezoelectric parameters and modeling piezoelectric generators, Piezoelectric energy harvesting applications, Human power (04 L, 08M)
- c. **Electromagnetic Energy Harvesting:** Linear generators, physics mathematical models, recent applications. (02 L, 04M)
- d. Carbon captured technologies, cell, batteries, power consumption (01 L, 02M)
- e. Environmental issues and sustainability of renewable energy sources. (01 L, 02M)

Demonstrations and Experiments

1. Demonstration of Training modules on Solar energy, wind energy, etc.
2. Conversion of mechanical energy (vibration) into voltage using piezoelectric materials
3. Conversion of thermal energy into voltage using thermoelectric modules.

Reference Books:

1. Non-conventional energy sources - G.D Rai - Khanna Publishers, New Delhi
2. Solar energy - M P Agarwal - S Chand and Co. Ltd.
3. Solar energy - Suhas P Sukhatme Tata McGraw - Hill Publishing Company Ltd.
4. Godfrey Boyle, "Renewable Energy, Power for a sustainable future", 2004, Oxford University Press, in association with The Open University.
5. Dr. P Jayakumar, Solar Energy: Resource Assessment Handbook, 2009
6. J.Balfour, M.Shaw and S. Jarosek, Photovoltaics, Law (1998, Wiley)
7. http://en.wikipedia.org/wiki/Renewable_energy





Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Faculty of Commerce and Management

B.Com. I (W.E.F.: June – 2022)

Paper: 105 – Computing Skills

SEMESTER – I

Total Lecturers: 60

Total Marks: 100 (Internal Continuous Assessment: 40 Marks, External Theory Exam: 40 Marks, External Practical Exam: 20 Marks)

Objectives –

- To develop essential computing skills
- To train in using Microsoft Office Software
- To prepare in using key Google Services skills

Instructions as to study and examinations

- Preparation of Practical file as per list of practical and topics from syllabus is essential

Course Outcomes

- Students will be able to use essential computing skills
- Students will use Microsoft Office tools – Word, Excel and Power Point
- Students will be ready to use key Google Services skills

Unit 1 : Essential Computing Skills – I

Lectures: 10

- 1.1 Basic Photo Editing Skills – Editing Using Microsoft Office Picture Manager and Paint
- 1.2 Fast and Accurate Typing Skill enhancement using – Rapid Typing
- 1.3 Speak and Type on Mobile using Google Voice Typing
- 1.4 Online Typing in regional language – Marathi & Hindi
- 1.5 Grammar checking of document using free grammar checking tools
- 1.6 Plagiarism checking of document using free plagiarism checking tools

Unit 2 : Essential Computing Skills – II

Lectures: 10

- 2.1 Working with Video Conferencing Tools – Zoom/Google Meet etc.
- 2.2 Using ZIP files –ZIP and UNZIP operations
- 2.3 Basic Computer Hardware usage and troubleshooting Skills with respect to printer, monitor, keyboard, mouse and web camera. Using Pen drive.
- 2.4 Downloading and installing software: 1. Download and install tally prime software from tally solutions website 2. Install Printer Drivers
- 2.5 Using e-Commerce and M-Commerce Websites / Mobile Applications
- 2.6 Using UPI for online payments

Unit 3 : Microsoft Office Skills – I

Lectures: 10

- 3.1 MS – Word
 - Creating word documents with formatting features
 - Using Tables in word document
 - Using Lists in word document
 - Using Mail Merge to create Certificate
 - Converting Word file to pdf and pdf file to word.
- 3.2 -MS – Power Point
 - Creating Power Point Presentation with designing features
 - Adding Audio Visual effects to presentation
 - Creating Video File using Power Point

Unit 4 : Microsoft Office Skills – II

Lectures: 10

- 4.1 Creating Excel files for various business applications
- 4.2 Arranging Rows and Columns , adding design effects

