

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

Syllabus of Environmental Studies

**As a Compulsory Paper for all
Undergraduate Programme**

(To be implemented from academic year 2019)

Shivaji University, Kolhapur
Syllabus of Environmental Studies
as a Compulsory Paper for all Undergraduate Courses
2019-20

Unit 1. Nature of Environmental Studies :

(3 lectures)

Definition, scope and importance.

Multidisciplinary nature of environmental studies

Need for public awareness.

Concept of sustainability. Sustainable development and it's goals with Indian context.

Unit 2. Ecosystems :

(9 lectures)

Concept of an ecosystem.

Structure and function of an ecosystem.

Producers, consumers and decomposers.

Energy flow in the ecosystem.

Ecological succession.

Food chains, food webs and ecological pyramids.

Introduction, types, characteristics features, structure and function of the following ecosystem :-

a) Forest ecosystem, b) Grassland ecosystem, c) Desert ecosystem,

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

Degradation of the ecosystems and it's impacts.

Unit 3. Natural Resources and Associated Problems :

(8 lectures)

- a) Forest resources: Use and over-exploitation, deforestation, dams and their effects on forests and tribal people.
- b) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
- c) Mineral resources: Usage and exploitation. Environmental effects of extracting and using mineral resources.
- d) Food resources: World food problem, changes caused by agriculture ,effect of modern agriculture, fertilizer-pesticide problems.
- e) Energy resources: Growing energy needs, renewable and non- renewable energy resources, use of alternate energy sources. Solar energy , Biomass energy, Nuclear energy,
- f) Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification. Consumerism ,ecological foot prints, carbon foot prints, carbon credits.

Role of an individuals in conservation of natural resources. Equitable use of resources for sustainable lifestyles.

Unit 4. Biodiversity and its conservation :**(8 lectures)**

Introduction- Definition: genetic, species and ecosystem diversity.

Bio-geographical classification of India.

Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values.

India as a mega- diversity nation.

Western Ghat as a biodiversity region. Hot-spots of biodiversity.

Threats to biodiversity: habitat loss, poaching of wildlife, man- wildlife conflicts,

Endangered and endemic species of India, Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. Convention on Biological Diversity.

Unit 5. Environmental Pollution :**(8 lectures)**

Definition: Causes, effects and control measures of: Air pollution,

Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear hazards.

Global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust.

Solid waste Management: Causes, effects and control measures of urban and industrial wastes. Solid waste management control rules.

Role of an individual in prevention of pollution.

Unit 6. Social Issues and the Environment :**(9 lectures)**

Human population growth, impact on environment. Human Health and welfare.

Environmental ethics: Role of Indian religious traditions and culture in conservation of the environment.

Environmental movements- Chipko Movement, Appiko Movement, Silent Valley.

Resettlement and rehabilitation of people; its problems and concerns.

Water conservation, rain water harvesting, watershed management. water conservation by Dr.Rajendra Singh, Anna Hazare etc.

Disaster management: floods, earthquake, cyclone, tsunami and landslides.

Wasteland reclamation.

Environmental communication and public awareness, case studies.

Unit 7. Environmental Protection- Policies and practises :**(5 lectures)**

Environmental Protection Act.

Air (Prevention and Control of Pollution) Act.

Water (Prevention and control of Pollution) Act

Wildlife Protection Act

Forest Conservation Act

National and International conventions and agreements on environment.

Unit 8. Field Work :**(10 lectures)**

Visit to a local area to document environmental assets-

River/forest/grassland/hill/mountain.

or

Visit to a local polluted site – Urban/Rural/Industrial/Agricultural

or

Study of common plants, insects, birds.

or

Study of simple ecosystems - ponds, river, hill slopes, etc.

(Field work is equal to 10 lecture hours)

References :

- 1) Agarwal, K.C.2001, Environmental Biology, Nidi Pubi. Ltd., Bikaner.
- 2) Bharucha Erach, The Biodiversity of India, Mapin Publishing pvt. Ltd.,Ahmedabad 380013, India, Email:mapin@icenet.net (R)
- 3) Brunner R.C.,1989, Hazardous Waste Incineration, McGraw Hill Inc., 480p
- 4) Clank R.S. Marine Pollution, Clanderson Press Oxford (TB)
- 5) Cunningham, W.P. Cooper, T.H.Gorhani, E. & Hepworth, M.T.2001,
- 6) Environmental Encyclopedia, Jaico Publ. Hpise, Mumbai, 1196p
- 7) De A.K., Environmental Chemistry, Wiley Wastern Ltd.
- 8) Down to Earth , Cebtre fir Scuebce and Environment (R)
- 9) Gleick, H.,1993, Water in crisis, Pacific Institute for studies in Dev.,Environment & Security. Stockholm Env. Institute. Oxford Univ. Press 473p
- 10) Hawkins R.e., Encyclopedia of Indian Natural History, Bombay Natural History Society, Bombay (R)
- 11) Heywood, V.H.& Watson, R.T.1995, Global Biodiversity Assessment,Cambridge Univ. Press 1140p.
- 12) Jadhav, H.& Bhosale, V.M.1995, Environmental Protection and Laws, Himalaya Pub. Hcuse, Delhi 284p.
- 13) Mickinney, M.L.& School. R.M.1196, Environmental Science Systems & Solutions, Web enhanced edition, 639p.
- 14) Mhaskar A.K., Mastter Hazardous, Techno-Science Publications (TB)
- 15) Miller T.G.Jr., Environmental Science. Wadsworth Publications Co. (TB)
- 16) Odum, E.P.1971, Fundamentals of Ecology, W.B.Saunders Co. USA, 574p.
- 17) Rao M.N.& Datta, A.K.1987, Waste Water Treatment, Oxford & IBH Publ. Co. Pvt. Ltd., 345p
- 18) Sharma B.K., 2001, Environmental Chemistry, Gokel Publ. Hkouse, Meerut
- 19) Survey of the Environment, The Hindu (M)
- 20) Townsend C., Harper, J. and Michael Begon, Essentials of Ecology, Blackwell Science (TB)
- 21) Trivedi R.K. Handbook of Environmental Laws, Rules, Guidelines, Compliances and Standards, vol. I anfd II, Environmental Media (R)
- 22) Trivedi R.K. and P.K. Gokel, Intriduction to air pollution, Tecgbi-Science Publications (TB)
- 23) Wagner K.D.,1998, Environmental management, W.B. Saunders Co.Philadelphia, USA 499p.
- 24) Paryavaran shastra – Gholap T.N.
- 25) Paryavaran Sahastra – Gharapure
M) Magazine (R) Reference (TB) Textbook

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मराठी अभ्यास मंडळ

Board of Studies in Marathi
पसंतीवर आधारित श्रेयांक पद्धती
Choice Based Credit System

Structure of Programme

Revised syllabus B. A. Part III (MARATHI)

Introduced from June 2020 onwards

Sr.No.	सत्र क्र. Sem.	अभ्यासपत्रिकेचे नाव	अभ्यास- पत्रिका क्र. Paper No.	Workload	Credits	Total Credits	Theory Marks	Term work/ Seminar
1	V	साहित्यविचार	VII	4 lectures/ week	4	20	40	10
2	V	मराठी भाषा व भाषाविज्ञान	VIII	4 lectures/ week	4		40	10
3	V	मध्ययुगीन मराठी वाङ्मयाचा इतिहास (प्रारंभ ते इ.स.१५००)	IX	4 lectures/ week	4		40	10
4	V	मराठी भाषा व अर्थार्जनाच्या संधी	X	4 lectures/ week	4		40	10
5	V	वाङ्मयप्रवाहाचे अध्ययन : मध्ययुगीन	XI	4 lectures/ week	4		40	10
Sr.No.	सत्र क्र. Sem.	अभ्यासपत्रिकेचे नाव	अभ्यास- पत्रिका क्र. Paper No.	Workload	Credits	Total Credits	Theory Marks	Term work/ Group project
6	VI	साहित्यविचार	XII	4 lectures/ week	4	20	40	10
7	VI	मराठी भाषा व भाषाविज्ञान	XIII	4 lectures/ week	4		40	10
8	VI	मध्ययुगीन मराठी वाङ्मयाचा इतिहास (इ.स.१५०० ते १८००)	XIV	4 lectures/ week	4		40	10
9	VI	मराठी भाषा व अर्थार्जनाच्या संधी	XV	4 lectures/ week	4		40	10
10	VI	वाङ्मयप्रकाराचे अध्ययन : ललितगद्य (व्यक्तिचित्रे)	XVI	4 lectures/ week	4		40	10

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बी.ए. भाग-३ : B.A. Part-III

अभ्यासक्रम : Syllabus

June, 2020 onward

सत्र-६ : Semester No. 6 : अभ्यासपत्रिका क्र. XII

Discipline Specific Elective (DSE-E126)

विद्याशाखीय विशेष निवड (DSE-E126)

साहित्यविचार

उद्दिष्टे :

१. शब्दशक्तीचे आकलन करून घेणे.
२. साहित्यातील रसाचे स्वरूप व रसप्रक्रिया समजून घेणे.
३. निर्मितीच्या आनंदाची मीमांसा करणे.
४. व्यवहार भाषा, शास्त्रभाषा आणि साहित्यभाषा यांतील भेद समजून घेणे.
५. साहित्यभाषेचे आकलन करून घेणे.
६. भाषेतील छंद व वृत्ते यांचा अभ्यास करणे.

अभ्यासक्रम

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	शब्दशक्ती ■ शब्दशक्ती म्हणजे काय ? १) अभिधा-व्याख्या, स्वरूप व प्रकार (योग, रूढी, योगरूढी) २) लक्षणा - व्याख्या, स्वरूप ● लक्षणेस आवश्यक गोष्टी अ) मुख्यार्थबाध ब) मुख्यार्थ-लक्ष्यार्थ संबंध क) रूढी व प्रयोजन ● लक्षणेचे महत्त्व ३) व्यंजना - व्याख्या, स्वरूप ● व्यंजनेचे मुख्य दोन प्रकार अ) शाब्दी व्यंजना ब) आर्थी व्यंजना ● व्यंजनेचे साहित्यातील महत्त्व	१५	१

विभाग २ Module 2	अ) रसविचार <ul style="list-style-type: none"> ● रस म्हणजे काय ? ● स्थायिभाव व रस ● भरताचे रससूत्र ब) काव्यानंदमीमांसा <ul style="list-style-type: none"> ● काव्यानंदमीमांसा म्हणजे काय ? ● कवीचा आनंद १) क्रीडानंद २) निर्मितीचा आनंद ३) आत्माविष्कारानंद ● रसिकाचा आनंद १) ज्ञानानंद २) जिज्ञासापूर्ती ३) पुनःप्रत्ययाचा आनंद ● करुणरसानंद १) केवलानंदवाद २) विरेचन (कॅथार्सिस) 	१५	१
घटक ३ Module 3	साहित्याची भाषा १) व्यवहारभाषा, शास्त्रभाषा व साहित्यभाषा : साम्यभेद २) साहित्याचे माध्यम भाषा ३) साहित्य भाषेचे सौंदर्य ४) साहित्य भाषेची विविधता	१५	१
घटक ४ Module IV	छंद व वृत्ते अ) छंद - १) ओवी २) अभंग ३) मुक्तछंद ब) वृत्ते - १) भुजंगप्रयात २) वसंततिलका ३) दिंडी (व्याख्या, स्वरूप व उदाहरणे अपेक्षित)	१५	१

* प्रश्नपत्रिकेचे स्वरूप व गुणविभागणी *

Pattern of Question Paper

एकूण गुण - ४० : Total Marks-40

प्रश्न १	योग्य पर्याय निवडा	०५ गुण
प्रश्न २	अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	१५ गुण
प्रश्न ३	अंतर्गत विकल्पासह लघूत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ४	छंद व वृत्ते (चार पैकी दोन)	१० गुण

सूचना :

१. विभाग चार वर वस्तुनिष्ठ प्रश्न असणार नाहीत.
२. गटप्रकल्पासाठी अंतर्गत मूल्यमापनाकरिता प्रती विद्यार्थ्यास दहा गुण आहेत.

गटप्रकल्प विषय : साहित्यनिर्मितिप्रक्रिया संदर्भात कोणत्याही एका साहित्यिकाची मुलाखत घेणे.

मूलभूत वाचन :

१. जोग, रा. श्री. अभिनव काव्यप्रकाश, व्हीनस प्रकाशन, पुणे, आवृत्ती ७ वी, जानेवारी, १९७५
२. गाडगीळ, स. रा. काव्यशास्त्रप्रदीप, व्हीनस प्रकाशन, पुणे, आवृत्ती ४ थी, जानेवारी, १९९३
३. वाटवे, के. ना. रसविमर्श, नवीन किताबखाना, पुणे, १९४२
४. वाळंबे, मो. रा. सुगम मराठी व्याकरण लेखन, नितीन प्रकाशन, पुणे
५. नेमाडे, भालचंद्र साहित्याची भाषा, साकेत प्रकाशन, औरंगाबाद, आ. दु. १९९८

पूरक वाचन :

१. जोशी, पं. महादेवशास्त्री सुलभ काव्याशास्त्र, एस. जगन्नाथ आणि कं., पुणे
२. उपासे, शिवशंकर काव्यशास्त्र परिचय, फडके प्रकाशन, कोल्हापूर, २०१३
३. जाधव, उदय काव्यशास्त्र : आकलन आणि आस्वाद, लोकपाल पब्लिकेशन, औरंगाबाद, प्रथमावृत्ती, ५ सप्टेंबर २०१३
४. शिरवाडकर, के. रं. साहित्यवेध, मेहता पब्लिशिंग हाऊस, पुणे, प्रथमावृत्ती, जानेवारी, १९९८

संदर्भ ग्रंथ :

१. कुरुंदकर, नरहर रससूत्र, इंद्रायणी साहित्य, पुणे.
२. सोनार, ब. लु. भारतीय साहित्य विचार, प्रज्ञा, अमळनेर, १९८८
३. मोरे, मोरेश्वर सखाराम मराठी व्याकरण, चित्रशाळा, पुणे, १९७०
४. वासमकर, वि. दा. मराठीतील कलावादी समीक्षा, अक्षरदीप प्रकाशन, कोल्हापूर, आ. प. २०१८
५. तुकदेव, रोहिणी ओवी छंद : रूप आणि आविष्कार, प्रतिमा प्रकाशन, पुणे
६. हिरेमठ, राजशेखर मराठी व्याकरण परिचय, मेहता पब्लिशिंग हाऊस, पुणे, १९८८
७. जाधव, मा. मा. अक्षरगाथा (मराठी साहित्यविचार विशेषांक), मासिक, नांदडे, एप्रिल, २०१४

शिवाजी विद्यापीठ, कोल्हापूर
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मराठी अभ्यास मंडळ

Board of Studies in Marathi

पसंतीवर आधारित श्रेयांक पद्धती

Choice Based Credit System

बी.ए. भाग-३ : B.A. Part-III

अभ्यासक्रम : Syllabus

June, 2020 onward

सत्र-६ : Semester No. 6 : अभ्यासपत्रिका क्र. XIII

Discipline Specific Elective (DSE-E127)

विद्याशास्त्रीय विशेष निवड (DSE-E127)

मराठी भाषा व भाषाविज्ञान

उद्दिष्टे :

१. मराठी भाषेची वर्णव्यवस्था समजून घेणे.
२. ध्वनी व अर्थपरिवर्तनाची कारणे व प्रकार यांची माहिती करून घेणे.
३. प्रमाणभाषेचे स्वरूप व विशेष अभ्यासणे.
४. बोलींचे स्वरूप व विशेष समजून घेणे.
५. मराठी भाषेबद्दलची विद्यार्थ्यांची आवड विकसित करणे.

अभ्यासक्रम

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	<p>मराठीची वर्णमाला</p> <ul style="list-style-type: none">● ध्वनी व वर्ण, मराठीची वर्णमाला, पारंपरिक स्वर व त्यांचे वर्गीकरण● स्वरांचे ध्वनिशास्त्रदृष्ट्या व उच्चारण स्थानानुसार विश्लेषण● स्वरांचे प्रकार ह्रस्व, दीर्घ, सिद्ध, साधित, सजातीय, विजातीय● मराठीची स्वर संख्या (पारंपरिक व नवीन)● मराठीतील व्यंजन विचार● व्यंजनांचे प्रकार १. स्पर्श व्यंजने २. कठोर व मृदू व्यंजने ३. अल्पप्राण व महाप्राण ४. अनुनासिके ५. तालव्य व्यंजने ६. अंतःस्थ व्यंजने ७. उष्म व्यंजने ८. संयुक्त व्यंजने ९. मृध्न्य● मराठीची व्यंजन संख्या (पारंपरिक व नवीन)● मराठीची वर्ण संख्या निश्चितीकरण	१५	१

विभाग २ Module II	मराठीचे ध्वनिपरिवर्तन <ul style="list-style-type: none"> भाषेची उच्चारप्रक्रिया ध्वनिपरिवर्तन म्हणजे काय? व्याख्या आणि विशेष निरपवाद, नियमित, अज्ञेय, सार्वत्रिक ध्वनिपरिवर्तन कारणे जित - जेते संबंध, भिन्न भाषिक संबंध, आळस, अनुकरणाची अपूर्णता, वागेंद्रियातील दोष, श्रवणेंद्रियातील दोष, उच्चारशीघ्रता, अज्ञान, आघात, उच्चारसौकर्य, आहार, भौगोलिकता, वर्गसिद्धान्त, लोकभ्रम, सादृश्यता प्रकार अंत्यस्वनलोप, एकस्वनीकरण, आद्यस्वनागम, मध्यस्वनागम, अंत्यस्वनागम, सान्निध्य परिणाम, समानस्वनलोप, विसदृशीकरण, घोषीकरण, अघोषीकरण, मात्राभेद, सदृशता, अतिशुद्धी, दुष्प्रयोग, स्वनविपर्यय ध्वनिपरिवर्तनाचा मराठी भाषेवरील परिणाम 	१५	१
विभाग ३ Module III	मराठीचे अर्थपरिवर्तन <ul style="list-style-type: none"> अर्थपरिवर्तन म्हणजे काय ? व्याख्या आणि स्वरूप अर्थ म्हणजे निर्देश, प्रतिमा, संकल्पना व विचार अर्थपरिवर्तनाची कारणे साम्यतत्त्व, रूपक - लक्षणाजन्य शब्द, बदलते समाजजीवन, अशुभतापरिहार, ग्राम्यतापरिहार, अतिशयोक्ती, शब्दसिद्धी, अतिपरिचयातून सभ्यता, अत्यादरदर्शन, सांस्कृतिक आदान अर्थपरिवर्तनाचे प्रकार - अर्थविस्तार, अर्थसंकोच, अर्थप्रशस्ती, अर्थच्युती, अर्थापकर्ष, अर्थान्तर, अर्थभ्रंश, अर्थदेश, अर्थभेद, अर्थसार अर्थपरिवर्तनाचा मराठी भाषेवरील परिणाम 	१५	१
विभाग ४ Module IV	प्रमाण मराठी भाषा आणि तिच्या बोली <ul style="list-style-type: none"> प्रमाण मराठी : संकल्पना, स्वरूप, विशेष बोली : संकल्पना, स्वरूप, विशेष मराठीच्या बोली : अहिराणी, वऱ्हाडी, चंदगडी, मालवणी या निवडक बोलींचे स्वरूप व विशेष 	१५	१

प्रश्न १	योग्य पर्याय निवडा	०५ गुण
प्रश्न २	अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	१५ गुण
प्रश्न ३	अंतर्गत विकल्पासह लघूत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ४	टिपा लिहा (चार पैकी दोन)	१० गुण

सूचना : १. विभाग एकवर वस्तुनिष्ठ प्रश्न असणार नाही.

२. अंतर्गत मूल्यमापनाकरिता सेमिनारसाठी दहा गुण आहेत.

गटप्रकल्प विषय :

१. आपल्या परिसरातील कौटुंबिक, सांस्कृतिक, कृषिविषयक, औद्योगिक क्षेत्रात जी बोलीभाषा बोलली जाते त्या बोलीभाषेतील शब्द, वाक्य, वाक्प्रचार, म्हणी, उखाणे यांचे संकलन आणि विश्लेषणासह गटप्रकल्प अपेक्षित.
२. आपल्या परिसरातील लोककथा, लोकगीते यांचे संकलन करून त्यातील भाषिक विशेषांच्या विश्लेषणावर आधारित गटप्रकल्प अपेक्षित.

मूलभूत वाचन :

- | | |
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| १. कुलकर्णी, कृ. पां. | मराठी भाषा : उद्गम आणि विकास, मेहता पब्लिशिंग हाऊस, पुणे |
| २. कानडे, मु. श्री. (संपा.) | मराठीचा भाषिक अभ्यास, स्नेहवर्धन प्रकाशन, पुणे |
| ३. गजेंद्रगडकर श्री. न. | भाषा आणि भाषाशास्त्र, व्हीनस प्रकाशन, पुणे |
| ४. कुलकर्णी कृ. पां. | शब्द : उद्गम आणि विकास |
| ५. जोगळेकर गं. ना. | अभिनव भाषाविज्ञान, सुविचार प्रकाशन, पुणे |
| ६. जोशी, प्र. न. | सुबोध भाषाशास्त्र, स्नेहवर्धन प्रकाशन, पुणे |
| ७. दामले, मो. के. | शास्त्रीय मराठी व्याकरण, दामोदर सावळाराम आणि मंडळी, पुणे |
| ८. कालेलकर, ना. गो. | ध्वनिविचार, मौज प्रकाशन, मुंबई |
| ९. पोतदार, अनुराधा | मराठीचा अर्थविचार, पुणे विद्यापीठ प्रकाशन, पुणे |
| १०. कालेलकर, ना. गो. | भाषा आणि संस्कृती, मौज प्रकाशनगृह, मुंबई |
| ११. देवी, गणेश व जाखडे, अरुण (संपा.) | भारतीय भाषेचे लोकसर्वेक्षण, पद्मगंधा प्रकाशन, पुणे |

पूरक वाचन :

- | | |
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| १. हिरेमठ, राजशेखर | मराठी व्याकरण परिचय, मेहता पब्लिशिंग हाऊस, पुणे |
| २. गवळी, अनिल | भाषाविज्ञान आणि मराठी भाषा, हिरण्यकेशी प्रकाशन, कोल्हापूर |
| ३. कुलकर्णी, सुलक्षणा व कुबेर, वसंत | भाषाविज्ञान परिचय, फडके प्रकाशन, कोल्हापूर |

संदर्भ ग्रंथ :

- | | |
|-------------------------------|---|
| १. पुंडे, द. दि. | सुलभ भाषाविज्ञान, स्नेहवर्धन प्रकाशन, पुणे |
| २. कदम, महेंद्र | मराठीचे वर्णनात्मक भाषाविज्ञान, स्नेहवर्धन प्रकाशन, पुणे |
| ३. कालेलकर, ना. गो. | भाषा, इतिहास आणि भूगोल, मौज मुंबई |
| ४. शेख, यास्मिन | मराठी लेखन मार्गदर्शिका, राज्य मराठी विकास संस्था, मुंबई |
| ५. हिरेमठ, राजशेखर | मराठी व्याकरण परिचय, मेहता पब्लिशिंग हाऊस, पुणे |
| ६. लामतुरे, प्रज्ञा | ग्रामीण बोलीभाषेचे वैभव, संस्कृती प्रकाशन, पुणे |
| ७. जंबाले, विठ्ठल | ग्रामीण कादंबरी : मराठवाडी बोलीचे स्वरूप, चिन्मय प्रकाशन, औरंगाबाद |
| ८. पाटील, व्ही. एन. | सुलभ भाषाविज्ञान, प्रशांत पब्लिकेशन्स, जळगाव, २०१६ |
| ९. भांड, बाबा व मगर, राजेंद्र | भाषा आणि साहित्य : माझी भूमिका : सयाजीराव गायकवाड, महाराजा सयाजीराव गायकवाड संशोधन व प्रशिक्षण संस्था, औरंगाबाद |
| १०. केळकर, तन्मय (अनु.) | पंजाबच्या भाषा आणि लिपीची समस्या : शहीद भगतसिंग, प्रका. भाषाविकास संशोधन संस्था, कोल्हापूर |

शिवाजी विद्यापीठ, कोल्हापूर
SHIVAJI UNIVERSITY, KOLHAPUR

मराठी अभ्यास मंडळ

Board of Studies in Marathi

पसंतीवर आधारित श्रेयांक पद्धती

Choice Based Credit System

बी.ए. भाग-३ : B.A. Part-III

अभ्यासक्रम : Syllabus

June, 2020 onward

सत्र-६ : Semester No. 6 : अभ्यासपत्रिका क्र. XIV

Discipline Specific Elective (DSE-E128)

विद्याशास्त्रीय विशेष निवड (DSE-E128)

मध्ययुगीन मराठी वाङ्मयाचा इतिहास (इ.स.१५०० ते इ.स.१८००)

उद्दिष्टे :

१. मध्ययुगीन मराठी वाङ्मयाचा कालिक अभ्यास करणे.
२. मध्ययुगीन मराठी वाङ्मयाचा स्थूल परिचय करून घेणे.
३. पंडित कवी व त्यांची रचना यांचा परिचय करून घेणे.
४. बखर वाङ्मय आणि शाहिरी वाङ्मय यांचे स्वरूप, विशेष अभ्यासणे.
५. मध्ययुगीन मराठी गद्य, पद्य रचनेचे विशेष अभ्यासणे.

अभ्यासक्रम

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	इ. स. १५०० ते इ.स. १६०० एकनाथांची साहित्य संपदा चतुःश्लोकी भागवत, एकनाथी भागवत, भावार्थ रामायण, गवळणी, भारुडे इत्यादी रचना	१५	१
विभाग २ Module II	इ. स. १६०० ते इ. स. १७०० (स्थूल कालखंड) अ) तुकारामांची अभंगरचना ब) रामदासांची ग्रंथरचना करुणाष्टके, रामायणे, मनाचे श्लोक, दासबोध, स्फुट प्रकरणे	१५	१
विभाग ३ Module III	इ. स. १६०० ते इ. स. १८०० (स्थूल कालखंड) निवडक पंडित कवींच्या काव्याचा अभ्यास १) मुक्तेश्वर २) वामन पंडित ३) रघुनाथ पंडित ४) श्रीधर ५) मोरोपंत	१५	१
विभाग ४ Module IV	इ. स. १५०० ते इ.स. १८०० (स्थूल कालखंड) अ) बखर वाङ्मय शिवपूर्वकालीन बखरी, शिवकालीन बखरी, पेशवेकालीन बखरी-स्वरूप, विशेष ब) शाहिरी वाङ्मय (लावणी व पोवाडा) १) अनंत फंदी २) परशुराम ३) राम जोशी ४) प्रभाकर ५) होनाजी बाळा	१५	१

Pattern of Question Paper

एकूण गुण - ४० : Total Marks-40

प्रश्न १	योग्य पर्याय निवडा	०५ गुण
प्रश्न २	अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	१५ गुण
प्रश्न ३	अंतर्गत विकल्पासह लघूत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ४	टिपा लिहा (चार पैकी दोन)	१० गुण

सूचना : १. गटप्रकल्पासाठी अंतर्गत मूल्यमापनाकरिता प्रती विद्यार्थ्यास दहा गुण आहेत.

गटप्रकल्प विषय :

* आपल्या परिसरातील कोणत्याही ग्रंथालयातील किंवा ग्रंथालयाबाहेरील मध्ययुगीन मराठी ग्रंथकार आणि ग्रंथ यांची सूची तयार करावी.

* मध्ययुगीन मराठी वाङ्मयातील निवडक शब्दांचा शब्दसंग्रह करणे आणि त्यांचे वर्गीकरण व विश्लेषण करणे.

मूलभूत वाचन :

१. नसिराबादकर, ल. रा.
२. देशपांडे, अ. ना.
३. पांगारकर, ल. रा.
४. मंचरकर, र. बा.
५. गवळी, अनिल
६. सपकाळे, प्रकाश
७. वाटवे, के. ना. (संपा.)
८. फाटक, न. र.
९. सरदेशमुख, त्र्यं. वि.
१०. हेरवाडकर, र. वि.
११. अदवंत, म. ना.
१२. सहस्त्रबुद्धे, म. ना.
१३. खरात, महेश (संपा.)

प्राचीन मराठी वाङ्मयाचा इतिहास, फडके प्रकाशन, कोल्हापूर
प्राचीन मराठी वाङ्मयाचा इतिहास खंड १ ते ४, व्हीनस प्रकाशन, पुणे
प्राचीन मराठी वाङ्मयाचा इतिहास खंड १ ते ३, महाराष्ट्र साहित्य परिषद, पुणे
धर्म संप्रदाय आणि मध्ययुगीन मराठी वाङ्मय, प्रतिमा प्रकाशन, पुणे
सर्वात्मभावी तुकाराम, सायन पब्लिकेशन प्रा. लि. पुणे
संत तुकाराम, प्रशांत पब्लिकेशन्स, जळगाव
प्राचीन मराठी पंडिती काव्य.
श्री एकनाथ वाङ्मय दर्शन आणि कार्य, मौज प्रकाशन गृह, मुंबई
रामदास : प्रतिमा आणि बोध, अस्मिता प्रकाशन, पुणे
मराठी बखर, व्हीनस प्रकाशन, पुणे
पैजण, साहित्य प्रसार केंद्र, नागपूर
मराठी शाहिरी वाङ्मय, ठोकळ प्रकाशन, पुणे
लोकसाहित्य : जीवन आणि संस्कृती, (प्रा.विश्वनाथ शिंदे गौरवग्रंथ), सायन पब्लिकेशन, पुणे

पूरक वाचन :

१. तुळपुळे, शं. गो. (संपा.)
२. तुळपुळे, शं. गो. (संपा.)
३. उपासे, शिवशंकर
४. पाटील, तानाजी
५. हेरवाडकर, र. वि.

मध्ययुगीन मराठी वाङ्मयाचा इतिहास, म. सा. प., पुणे
मराठी वाङ्मयाचा इतिहास, महाराष्ट्र साहित्य परिषद, पुणे
मराठी काव्यातील शिवदैवत दर्शन, आख्यानकाव्य व स्फुटकाव्य : १३ ते १८ वे शतक, शैवभारती शोध प्रतिष्ठान, जंगमवाडी मठ, वाराणसी
संत साहित्यातील सामाजिकता, विश्वकर्मा प्रकाशन, पुणे
मराठी बखर

संदर्भ ग्रंथ :

१. बडवे, सतीश
२. फाटक, न. र.
३. माटे, श्री. म.
४. होनमाने, धनंजय
५. होनमाने, धनंजय
६. ग्रामोपाध्ये, गं. ब.
७. शिंदे, विश्वनाथ
७. केळकर, य. न.
९. मोरजे, गंगाधर
१०. वर्दे, श्री. म.

मध्ययुगीन साहित्याविषयी, मीरा, औरंगाबाद
श्री. रामदास, वाङ्मय आणि कार्य
संत, पंत आणि तंत, ठोकळ प्रकाशन, पुणे
तंजावरची मराठी कीर्तनपरंपरा, स्नेहवर्धन, पुणे
पंत प्रतिनिधींची कीर्तनाख्याने, दर्या प्रकाशन, पुणे
मराठी बखर गद्य, व्हीनस बुक स्टॉल, पुणे
शाहिरी वाङ्मयाच्या धारा, प्रतिमा प्रकाशन, पुणे
मराठी शाहीर आणि शाहिरी वाङ्मय, पुणे विद्यापीठ, पुणे
मन्हाटी लावणी वाङ्मय, मोघे प्रकाशन, कोल्हापूर
मराठी कवितेचा उषःकाल किंवा मराठी शाहीर, मुंबई मराठी साहित्य संघ, मुंबई

शिवाजी विद्यापीठ, कोल्हापूर
SHIVAJI UNIVERSITY, KOLHAPUR

मराठी अभ्यास मंडळ

Board of Studies in Marathi

पसंतीवर आधारित श्रेयांक पद्धती

Choice Based Credit System

बी.ए. भाग-३ : B.A. Part-III

अभ्यासक्रम : Syllabus

June, 2020 onward

सत्र-६ : Semester No. 6 : अभ्यासपत्रिका क्र. XV

Discipline Specific Elective (DSE-E129)

विद्याशाखीय विशेष निवड (DSE-E129)

मराठी भाषा व अर्थार्जनाच्या संधी

पाठ्यपुस्तक : मराठी भाषा व अर्थार्जनाच्या संधी (संपादन)

शिवाजी विद्यापीठ प्रकाशन, कोल्हापूर

उद्दिष्टे :

१. प्रसारमाध्यमांतील अर्थार्जनाच्या संधी आणि भाषिक कौशल्ये यांचा परिचय करून घेणे.
२. स्पर्धा परीक्षांमध्ये मराठी भाषा विषयाचे महत्त्व समजून घेणे.
३. उद्योग व सेवा क्षेत्रात मराठी भाषेद्वारे अर्थार्जनप्राप्ती संदर्भात ज्ञान संपादन करणे.
४. मुद्रित शोधनाची पद्धत अभ्यासणे.

अभ्यासक्रम

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	<p>प्रसारमाध्यमांतील अर्थार्जनाच्या संधी व भाषिक कौशल्ये</p> <p>■ मुद्रित माध्यमे (Print Media)</p> <p>१. संपादन २. स्तंभलेखन ३. जाहिरात लेखन</p> <p>४. शब्दांकन (नावीण्यपूर्ण उपक्रम, व्यक्तींचे अनुभव व मानपत्र)</p> <p>■ आकाशवाणी</p> <p>१. निवेदन २. संहिता लेखन (कृषी, महिला व शैक्षणिक विषयक)</p> <p>३. बातमी लेखन</p> <p>■ चित्रवाणी</p> <p>१. निवेदन २. संहिता लेखन (साहित्य, युवा व मनोरंजन विषयक)</p> <p>३. बातमी लेखन</p>	१५	१

विभाग २ Module II	<p>उद्योग व सेवाक्षेत्रातील अर्थार्जनाच्या संधी व भाषिक कौशल्ये</p> <p>■ उद्योग व सेवाक्षेत्र आणि मराठी भाषा</p> <p>■ उद्योग व सेवाक्षेत्रातील अर्थार्जन संधी –</p> <p>१. विपणन (Marketing) साठी संवाद कौशल्ये</p> <p>२. ग्राहक सेवा केंद्र (Call Centers)</p> <p>३. अनुवाद</p> <p>४. मराठी टंकलेखन, युनिकोड व पीपीटी (Power Point Presentation) परिचय</p>	१५	१
विभाग ३ Module III	<p>मुद्रितशोधन</p> <p>१. मुद्रितशोधन : संकल्पना, स्वरूप, प्रकार व महत्त्व</p> <p>२. महाराष्ट्र शासनाचे प्रमाणलेखनविषयक १८ नियम, अपवाद, उदाहरणे, विरामचिन्हे</p> <p>३. मुद्रित शोधनाची पद्धत : सांकेतिक खुणा, त्याचे स्पष्टीकरण, पहिले वाचन व पुढील मुद्रितशोधन, संगणकीय मुद्रितशोधन</p> <p>४. मुद्रितशोधनाचे प्रात्यक्षिक कार्य :वर्तमानपत्र, नियतकालिक, ग्रंथ, छापील मजकूर, लेख इ.</p>	१५	१
विभाग ४ Module IV	<p>स्पर्धा परीक्षांसाठी मराठी</p> <p>१. स्पर्धा परीक्षांचे स्वरूप : सरळसेवा, कम्बाईन, राज्यसेवा, संघ लोकसेवा आयोग</p> <p>२. स्पर्धा परीक्षांमधील मराठीचे स्वरूप : अभ्यासक्रम परिचय</p> <p>३. स्पर्धा परीक्षेसाठी कौशल्ये : वाचन, नोट्स (टिपणे), लेखन, हस्ताक्षर, वेळेचे व्यवस्थापन, गटचर्चा,संदर्भ साहित्य</p> <p>४. मुलाखतीची पूर्वतयारी व तंत्रे (मुलाखत कशी द्यावी)</p>	१५	१

* प्रश्नपत्रिकेचे स्वरूप व गुणविभागणी *

Pattern of Question Paper

एकूण गुण – ४० : Total Marks-40

प्रश्न १	योग्य पर्याय निवडा	०५ गुण
प्रश्न २	अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	१५ गुण
प्रश्न ३	अंतर्गत विकल्पासह लघूत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ४	टिपा लिहा (चार पैकी दोन)	१० गुण

सूचना : १. गटप्रकल्पासाठी अंतर्गत मूल्यमापनाकरिता प्रती विद्यार्थ्यास दहा गुण आहेत.

गटप्रकल्प विषय :

१. राष्ट्रीय, शैक्षणिक, सांस्कृतिक, सामाजिक, कृषी, आरोग्य, भाषा व साहित्य क्षेत्रातील ताज्या घडामोडी यापैकी एका विषयावर आकाशवाणी किंवा चित्रवाणीसाठी संहितालेखन.
२. उद्योग व सेवाक्षेत्रे आणि प्रसारमाध्यमे यांना भेटी देऊन तेथील भाषिक उपयोजनावर आधारित प्रकल्प तयार करणे.

मूलभूत वाचन :

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|-------------------------------------|--|
| १. काणे, पुष्पा | नभोवाणी कार्यक्रम : तंत्र आणि मंत्र, इंडिया बुक कंपनी, पुणे |
| २. भागवत, यशोदा | बोलका कॅमेरा, मौज प्रकाशन, पुणे |
| ३. राजाध्यक्ष, विजया (संपा.) | मराठी वाङ्मय कोश, साहित्य आणि संस्कृती मंडळ, मुंबई |
| ४. मोरे, सदानंद व लिंगाळे, शरणकुमार | प्रबोधनपर वैचारिक वाङ्मय, य. च. म. मु. विद्यापीठ, नाशिक |
| ५. रेगे, मे. पुं. व इतर | मराठी विचारवंत आणि आपण, मौज प्रकाशन गृह, मुंबई |
| ६. शेख, यास्मिन | मराठी लेखन मार्गदर्शिका, राज्य मराठी विकास संस्था, मुंबई |
| ७. फडके, अरुण | मराठी लेखन-कोश, अंकुर प्रकाशन, ठाणे |
| ८. धायगुडे, य. ए. | मुद्रितशोधन, दि पूना प्रेस ओनर्स असो. लि. पुणे |
| ९. खोपकर, अरुण | चित्रव्यूह, लोकवाङ्मय गृह, प्रकाशन, मुंबई |
| १०. वरखेडे, रमेश | सायबर संस्कृती, इन्स्टिट्यूट ऑफ नॉलेज इंजिनिअरिंग, नाशिक |
| ११. कांबळे, अमर | स्पर्धा परीक्षेला सामोरे जाताना, निर्मिती संवाद प्रकाशन, कोल्हापूर |
| १२. कांबळे, अमर | मुलाखत कौशल्य, निर्मिती संवाद प्रकाशन, कोल्हापूर |

पूरक वाचन :

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| १. कुंभार, प्रकाश | उपयोजित भाषाविज्ञान आणि प्रसारमाध्यमे, अक्षरदालन, कोल्हापूर |
| २. जोशी, प्रभाकर | उपयोजित मराठी, प्रशांत पब्लिकेशन्स, जळगाव |
| ३. तौर, पृथ्वीराज | मराठी भाषिक कौशल्ये विकास, अथर्व पब्लिकेशन्स, धुळे |
| ४. फडके, अरुण | शुद्धलेखन मार्गप्रदीप, अंकुर प्रकाशन, ठाणे |
| ५. दीक्षित, विजय | चित्रपट : एक कला, रेणुका प्रकाशन, नाशिक |
| ६. इनामदार, एस. डी. | माध्यम, एस. डी. प्रकाशन, पुणे |

संदर्भ ग्रंथ :

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|--|---|
| १. देशपांडे, वि. भा. व
जोगळेकर, सुषमा (संपा.) | मराठी कलाभिरुची, कॉन्टिनेन्टल प्रकाशन, पुणे |
| २. पचिंद्रे, श्रीराम | मुलाखत आणि शब्दांकन, अनुबंध प्रकाशन, पुणे |
| ३. ढोले, विश्राम | प्रसारमाध्यमे आणि प्रयोगकला, लोकवाङ्मय गृह, मुंबई |
| ४. शिंदे, अरुण | सत्यशोधकीय नियतकालिके, कृष्णा संशोधन व विकास अकादमी, मंगळवेढा |
| ५. जोशी, प्रभाकर व
वले, वासुदेव | उपयोजित मराठी, प्रशांत पब्लिकेशन्स, जळगाव |
| ६. रेगे, मे. पुं. (संपा.) | नवभारत (मासिक), व्यावहारिक मराठी विशेषांक, प्राज्ञ पाठशाळा मंडळ,
वाई (ऑगस्ट-सप्टेंबर १९८१) |
| ७. भालके, रामचंद्र व इतर | प्रबोधनपर साहित्य : स्वरूप आणि संकल्पना, य.च.म.मु. विद्यापीठ, नाशिक |
| ८. चपळगावकर, नरेंद्र | मराठीतील वैचारिक साहित्य : लेखक आणि समाज, नवभारत, जून २०१६
वर्ष २९, अंक ९ |
| ९. चौसाळकर, अशोक | विचारवंत आणि समाज, युनिक अँकडमी, पुणे |
| १०. गावडे, गोपाळ | मामा वरेरकर : प्रयोगाची नांदी, मनोकामना प्रकाशन, इस्लामपूर, २०१७ |
| ११. कांबळे, विनोद | सर्जननोंदी, वाचनकट्टा प्रकाशन, प्रा. लि., कोल्हापूर, २०१९ |

शिवाजी विद्यापीठ, कोल्हापूर
SHIVAJI UNIVERSITY, KOLHAPUR

मराठी अभ्यास मंडळ

Board of Studies in Marathi

पसंतीवर आधारित श्रेयांक पद्धती

Choice Based Credit System

बी.ए. भाग-३ : B.A. Part-III

अभ्यासक्रम : Syllabus

June, 2020 onward

सत्र-६ : Semester No. 6 : अभ्यासपत्रिका क्र. XVI

Discipline Specific Elective (DSE-E-130)

विद्याशाखीय विशेष निवड (DSE-E-130)

वाङ्मय प्रकाराचे अध्ययन : ललित गद्य (व्यक्तिचित्रे)

पाठ्यपुस्तक : मुलखावेगळी माणसं (संपादन)

शिवाजी विद्यापीठ प्रकाशन, कोल्हापूर

उद्दिष्टे :

१. ललित गद्य वाङ्मयप्रकाराचे स्वरूप अभ्यासणे.
२. व्यक्तिचित्र संकल्पना व स्वरूप समजून घेणे.
३. प्रवाहानुरूप मराठीतील व्यक्तिचित्रांचे स्वरूप अभ्यासणे.
४. 'मुलखावेगळी माणसं'मधील व्यक्तिविशेषांचे आकलन करून घेणे.
५. 'मुलखावेगळी माणसं'मधील शैक्षणिक, सामाजिक, सांस्कृतिक, राजकीय पर्यावरण आणि कौटुंबिक भावविश्व अभ्यासणे.
६. 'मुलखावेगळी माणसं'मधील ग्रामीण व उपेक्षितांच्या जीवनाचे आकलन करून घेणे.
७. 'मुलखावेगळी माणसं'मधील अभिव्यक्ती, निवेदनशैली व भाषाविशेष अभ्यासणे.

अभ्यासक्रम

अ. क्र. Sr. No.	घटक Topic	अध्यापन तासिका Teaching Hours	श्रेयांक Credit
विभाग १ Module I	ललित गद्य : संकल्पना व स्वरूप व्यक्तिचित्रे : संकल्पना, स्वरूप/वैशिष्ट्ये आणि वाटचाल व्यक्तिचित्र लेखनासाठी आवश्यक गुण	१५	१
विभाग २ Module II	१. रामा मैलकुली - व्यंकटेश माडगूळकर २. मृत्यूचे चुंबन घेणारा महाकवी - प्र. के. अत्रे ३. निळू मांग - अण्णाभाऊ साठे ४. मोरणी - विभावरी शिरूरकर	१५	१
विभाग ३ Module III	५. जमीला जावद - हमीद दलवाई ६. यंकटअण्णा - व. वा. बोधे ७. दगडूमामा - उत्तम कांबळे ८. मुंबईचा चित्रकार - अरुण खोपकर	१५	१
विभाग ४ Module IV	९. हीरा - इंद्रजित भालेराव १०. बाबा मास्तर - दि. बा. पाटील ११. दादासाहेब वस्ताद - सयाजीराजे मोकाशी १२. डोकेवाला संशोधक : दादाजी रामजी खोब्रागडे - व्ही.एन.शिंदे	१५	१

Pattern of Question Paper

एकूण गुण - ४० : Total Marks-40

प्रश्न १	योग्य पर्याय निवडा	०५ गुण
प्रश्न २	अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	१५ गुण
प्रश्न ३	अंतर्गत विकल्पासह लघूत्तरी प्रश्न (तीन पैकी दोन)	१० गुण
प्रश्न ४	टिपा लिहा (चार पैकी दोन)	१० गुण

सूचना :

१. विभाग एक वर वस्तुनिष्ठ प्रश्न असणार नाहीत.
२. गटप्रकल्पासाठी अंतर्गत मूल्यमापनाकरिता प्रती विद्यार्थ्यास दहा गुण आहेत.

गटप्रकल्प विषय :

आपल्या परिसरातील शैक्षणिक, सामाजिक, सांस्कृतिक, कला, क्रीडा, आरोग्य, राजकीय इत्यादी समाजजीवनाच्या कोणत्याही क्षेत्रातील व्यक्तींची व्यक्तिचित्रे लिखित स्वरूपात प्रती प्रकल्पनुरूप ५ (किमान एका प्रकल्पकास एक नुसार) तयार करून ती एकत्रित जमा करावीत.

मूलभूत वाचन :

१. वास्कर, आनंद (संपा.) वाङ्मयप्रकार संकल्पना (डॉ. विजय निंबाळकर गौरवग्रंथ), अन्वय प्रकाशन, पुणे
२. चौधुले, वि. शं. मुक्तगद्य : संकल्पना आणि उपयोजन, मॅजेस्टिक प्रकाशन, मुंबई, २००८
३. शिंदे, रणधीर ललित गद्य ते मुक्तगद्य (लेख), दै. महाराष्ट्र टाईम्स, २९-१२-२०१३
४. मालशे, मिलिंद साहित्य प्रकाराची संकल्पना (लेख), साहित्य : अध्यापन आणि प्रकार, (संपा.) श्री. पु. भागवत, सुधीर रसाळ, मौज प्रकाशन, मुंबई, १९८७
५. हातकणंगलेकर, जहागीरदार, पवार, गो. मा. मराठी साहित्य : प्रेरणा आणि स्वरूप, पॉप्युलर प्रकाशन, मुंबई, १९८६
६. पुरोहित, के. ज. लघुनिबंध, साहित्य अकादमी, नवी दिल्ली

पूरक वाचन :

१. माडगूळकर, व्यंकटेश माणदेशी माणसं, मेहता पब्लिशिंग हाऊस, पुणे, पुनर्मुद्रण, २०१८
२. अत्रे, प्र. के. मृत्यूचे चुंबन घेणारा महाकवी : साने गुरूजी, पार्श्व पब्लिकेशन, कोल्हापूर, १९६२
३. साठे, अण्णाभाऊ बरबाद्या कंजारी, श्रमिक प्रतिष्ठान, कोल्हापूर, लोकावृत्ती, २०१०
४. शिरूरकर, विभावरी दोघांचे विश्व आणि इतर काही कथा, कॉन्टेनेन्टल प्रकाशन, पुणे, १९५७
५. दलवाई, हमीद जमीला जावद आणि इतर कथा, साधना प्रकाशन, पुणे, २०१६
६. बोधे, व. वा. गावाकडची माणसं, अक्षरबंध प्रकाशन, पुणे, २००७
७. कांबळे, उत्तम कावळे आणि माणसं, मनोविकास प्रकाशन, पुणे, आ.दु., २०१०
८. खोपकर, अरुण चित्रव्यूह, लोकवाङ्मय गृह, मुंबई
९. भालेराव, इंद्रजित गाई घरा आल्या, प्रतिभास प्रकाशन, परभणी
१०. पाटील, दि. बा. भली माणसं, मनोकामना प्रकाशन, इस्लामपूर, २०१३
११. मोकाशी, सयाजीराजे पंधरा ऑगस्ट, मुक्तरंग प्रकाशन, लातूर, २०१६
१२. शिंदे, व्ही. एन. हिरव्या बोट्यांचे किमयागार, तेजस प्रकाशन, कोल्हापूर, २०१९

संदर्भ ग्रंथ :

१. जोशी, प्र. न. मराठी वाङ्मयाचा विवेचक इतिहास, अर्वाचीन काळ (१८०० ते १९८०), स्नेहवर्धन प्रकाशन, पुणे
२. भागवत, श्री. पु. साहित्य अध्यापन आणि प्रकार (प्रा. वा. ल. कुलकर्णी गौरवग्रंथ), मौज प्रकाशन गृह, मुंबई

SHIVAJI UNIVERSITY, KOLHAPUR.



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Revised Syllabus For

B.A. Part-III

Hindi.

Syllabus to be implemented from

June, 2020 onwards.

शिवाजी विश्वविद्यालय, कोल्हापुर

हिंदी अध्ययन मंडल

जून 2020 से लागू

हिंदी स्पेशल बी.ए.-3 (कला)

सत्र-V, VI

Discipline Specific Elective

(शैक्षिक वर्ष -2020-21, 2021-22, 2022-23)

प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली की मॉडल

पाठ्यचर्या (CBCS) के आलोक में किया गया है।

सत्र-V

- प्रश्नपत्र- VII : विधा विशेष का अध्ययन।
प्रश्नपत्र- VIII : साहित्यशास्त्र ।
प्रश्नपत्र- IX : हिंदी साहित्य का इतिहास।
प्रश्नपत्र- X : प्रयोजनमूलक हिंदी ।
प्रश्नपत्र- XI : भाषा विज्ञान और हिंदी भाषा ।

सत्र-VI

- प्रश्नपत्र- XII : विधा विशेष का अध्ययन।
प्रश्नपत्र- XIII : साहित्यशास्त्र और हिंदी आलोचना।
प्रश्नपत्र- XIV : हिंदी साहित्य का इतिहास।
प्रश्नपत्र- XV : प्रयोजनमूलक हिंदी ।
प्रश्नपत्र- XVI : भाषा विज्ञान और हिंदी भाषा ।

सत्र V और VI : परीक्षा में एक प्रश्नपत्र 50 अंकों का होगा, जिसमें 40 अंक लिखित परीक्षा के और 10 अंक अंतर्गत मूल्यांकन के लिए हैं। जिसमें सेमिनार, मौखिकी, परियोजना, (प्रोजेक्ट) गृहकार्य, में से एक देना अनिवार्य है।

शिवाजी विश्वविद्यालय, कोल्हापुर

हिंदी अध्ययन मंडल

जून 2020 से लागू

हिंदी स्पेशल बी.ए.-3 (कला)

सत्र -V प्रश्नपत्र- VII

विधा विशेष का अध्ययन

Discipline Specific Elective (D.S.E.-E6)

(शैक्षिक वर्ष -2020 -21, 2021-22, 2022-23)

प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली की मॉडल

पाठ्यचर्या (CBCS) के आलोक में किया गया है।

पाठ्यक्रम

उद्देश्य :

1. नाटककार कुसुम कुमार की बहुमुखी प्रतिभा से परिचित कराना।
2. नाटककार कुसुम कुमार के साहित्य से परिचित कराना।
3. नाटककार कुसुम कुमार की विचारधारा से परिचित कराना।
4. नाटककार कुसुम कुमार के निर्धारित ग्रंथ का सूक्ष्म आलोचनात्मक अध्ययन कराना।
5. लेखिका के नाटककार के रूप में साहित्यिक स्थान को निर्धारित कराना।

अध्यापन पद्धति

- स्वाध्याय .
- व्याख्यान, विवेचन तथा विश्लेषण
- संगोष्ठी तथा समूह चर्चा का आयोजन।
- अतिथियों एवं विद्वानों के व्याख्यान।
- दृक श्राव्य माध्यमों का प्रयोग।
- संगणक तथा इंटरनेट आदि साधनों का प्रयोग।

पाठ्यपुस्तक

‘दिल्ली ऊँचा सुनती है’ (नाटक) –कुसुम कुमार

किताबघर प्रकाशन, अन्सारी रोड, दरियागंज,

नई दिल्ली-110002

इकाई 1 कुसुम कुमार का जीवन परिचय, व्यक्तित्व, कृतित्व एवं नाटककार कुसुम कुमार का सामान्य परिचय ।

इकाई 2 ‘दिल्ली ऊँचा सुनती है’– कथावस्तु एवं शीर्षक की सार्थकता ।

इकाई 3 ‘दिल्ली ऊँचा सुनती है’– पात्र एवं चरित्र –चित्रण, संवाद, देशकाल वातावरण ।

इकाई 4 ‘दिल्ली ऊँचा सुनती है’– भाषा शैली, उद्देश्य अभिनेयता एवं समस्याएँ ।

प्रश्नपत्र का स्वरूप एवं अंक विभाजन		अंक
प्रश्न 1	पूरे पाठ्यक्रम पर दस बहुविकल्पी प्रश्न	10
प्रश्न 2	‘दिल्ली ऊँचा सुनती है’ पर ससंदर्भ प्रश्न (3 में से 2)	10
प्रश्न 3	‘दिल्ली ऊँचा सुनती है’ एवं कुसुम कुमार पर लघुत्तरी प्रश्न (3 में से 2)	10
प्रश्न 4	‘दिल्ली ऊँचा सुनती है’ पर दीर्घोत्तरी प्रश्न (अंतर्गत विकल्प के साथ)	10

संदर्भ ग्रंथ सूची–

- डॉ. कुसुम कुमार एक प्रयोगधर्मी नाटककार– डॉ.दत्तात्रय मोहिते, विद्या प्रकाशन, ‘सी’ 449, गुजैनी, कानपुर–208022
- स्वातंत्र्योत्तर हिंदी नाटक–डॉ.रंजन तिवारी, विद्या प्रकाशन, कानपुर–208022
- हिंदी महिला नाटककार–डॉ.भगवान जाधव, विद्या प्रकाशन, कानपुर–208022
- समकालीन हिंदी नाटक– डॉ. जशवंतभाई पंडया, ज्ञान प्रकाशन, कानपुर

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सत्र -V प्रश्नपत्र- VIII

साहित्यशास्त्र

Discipline Specific Elective (D.S.E.-E7)

(शैक्षिक वर्ष -2020 -21, 2021-22, 2022-23)

प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली की मॉडल

पाठ्यचर्या (CBCS) के आलोक में किया गया है।

उद्देश्य :

- 1) साहित्य निर्मिति की प्रक्रिया का बोध कराना।
- 2) साहित्य /काव्य के विभिन्न अंगों, भेदों से परिचित कराना।
- 3) साहित्य/काव्य की नवीन विधाओं से परिचित कराना।
- 4) समीक्षा सिद्धांतों से परिचित कराना।
- 5) साहित्य /काव्य के तत्वों से परिचित कराना।
- 6) अलंकारों से परिचित कराना।

अध्यापन पद्धति –

- स्वाध्याय .
- व्याख्यान, विवेचन तथा विश्लेषण
- भारतीय एवं पाश्चात्य साहित्यशास्त्र का सैद्धांतिक एवं अनुप्रयोग की दृष्टि से।
- संगोष्ठी तथा समूह चर्चा का आयोजन।
- अतिथियों एवं विद्वानों के व्याख्यान।
- दृक श्राव्य माध्यमों का प्रयोग।
- संगणक तथा इंटरनेट आदि साधनों का प्रयोग।

अध्ययनार्थ विषय –

इकाई 1 काव्य/साहित्य – स्वरूप, तत्व, प्रयोजन।

इकाई 2 काव्य के प्रकार, काव्य गुण, काव्य दोष।

इकाई 3 रस – स्वरूप, रस के अंग, रस के भेद।

इकाई 4 अलंकार – शब्दालंकार – अनुप्रास, वक्रोक्ति, यमक, वीप्सा

अर्थालंकार – उपमा, रूपक, अतिशयोक्ति, विभावना।

(केवल लक्षण एवं उदाहरण अपेक्षित)

प्रश्नपत्र का स्वरूप एवं अंक विभाजन		अंक 40
प्रश्न 1	पूरे पाठ्यक्रम पर दस बहुविकल्पी प्रश्न	10
प्रश्न 2	इकाई 2 पर लघुत्तरी प्रश्न (3 में से 2)	10
प्रश्न 3	इकाई 4 पर टिप्पणियां (3 में से 2)	10
प्रश्न 4	इकाई 1 और 3 पर दीर्घोत्तरी प्रश्न (अंतर्गत विकल्प के साथ)	10

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जून 2020 से लागू

हिंदी स्पेशल बी.ए.-3 (कला)

सत्र V प्रश्नपत्र IX

हिंदी साहित्य का इतिहास

Discipline Specific Elective (D.S.E.-E8)

(शैक्षिक वर्ष –2020 –21, 2021–22, 2022–23)

प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली की मॉडल

पाठ्यचर्या (CBCS) के आलोक में किया गया है।

उद्देश्य :

1. हिंदी भाषा तथा साहित्य की विकास यात्रा से अवगत कराना।
2. हिंदी साहित्य की विकास यात्रा में हिंदी भाषा के माध्यम से अलग-अलग विचारधारा और प्रवृत्तियों से अवगत कराना।
3. छात्रों में साहित्य समझने तथा उसका आस्वादन, मूल्यांकन करने की दृष्टि को बढ़ाना।
4. छात्रों को साहित्य के संदर्भ में विभिन्न साहित्यिक विधाओं के विकास क्रम से परिचित कराना।
5. छात्रों को युगीन सामाजिक, राजनीतिक परिस्थितियों के परिप्रेक्ष्य में हिंदी से अवगत कराना।
6. इतिहासकारों द्वारा प्रस्तुत काल विभाजन और नामकरण को जानने के लिए प्रेरित करना।
7. हिंदी के प्रमुख संत कवि, उनकी रचनाएँ और उनका समाजसुधार में योगदान से परिचित कराना।
8. हिंदी साहित्य के अंतर्गत गद्य-पद्य विधा और उसके भेदों, उपभेदों से अवगत कराना।

9. आदिकाल से लेकर आधुनिक काल तक के संत, महात्मा, लेखक, कवियों की विचारधारा और उनके द्वारा निर्मित साहित्य का सामान्य परिचय कराना।

अध्यापन पद्धति

- स्वाध्याय .
- व्याख्यान, विवेचन तथा विश्लेषण ।
- संगोष्ठी तथा समूह चर्चा का आयोजन।
- अतिथियों एवं विद्वानों के व्याख्यान।
- दृक श्राव्य माध्यमों का प्रयोग।
- संगणक तथा इंटरनेट आदि साधनों का प्रयोग।

अध्ययनार्थ विषय –

इकाई – 1 आदिकाल –

1. आदिकाल का नामकरण।
2. सामाजिक और राजनीतिक परिस्थितियाँ।
3. आदिकाल की प्रतिनिधि रचनाएँ: सामान्य परिचय –
अ) पृथ्वीराज रासो।
आ) बीसलदेव रासो।

इकाई – 2 . भक्तिकाल–

1. भक्तिकालीन सामाजिक परिस्थितियाँ।
2. भक्तिकालीन राजनीतिक परिस्थितियाँ।
3. भक्तिकालीन कवियों का सामान्य परिचय–
अ) संत नामदेव
आ) संत रविदास
इ) संत मीराबाई
ई) गुरु नानक

इकाई – 3 . निर्गुण भक्ति धारा–

1. निर्गुण भक्ति धारा काव्य की सामान्य विशेषताएँ।
2. कबीर : जीवन परिचय एवं कृतित्व।

3. जायसी : जीवन परिचय एवं कृतित्व ।

इकाई – 4 . सगुण भक्ति धारा—

1. सगुण भक्ति धारा काव्य की विशेषताएँ ।

2. तुलसीदास : जीवन परिचय एवं कृतित्व ।

3. सूरदास : जीवन परिचय एवं कृतित्व ।

प्रश्नपत्र का स्वरूप एवं अंक विभाजन		अंक 40
प्रश्न 1	पूरे पाठ्यक्रम पर दस बहुविकल्पी प्रश्न ।	10
प्रश्न 2	इकाई 1 पर लघुत्तरीय प्रश्न (3 में से 2) ।	10
प्रश्न 3	इकाई 2 पर टिप्पणियाँ (3 में से 2) ।	10
प्रश्न 4	इकाई 3 और 4 पर दीर्घोत्तरी प्रश्न (अंतर्गत विकल्प के साथ) ।	10

शिवाजी विश्वविद्यालय, कोल्हापुर

हिंदी अध्ययन मंडल

जून 2020 से लागू

हिंदी स्पेशल बी.ए.-3 (कला)

सत्र-V प्रश्नपत्र-X

प्रयोजनमूलक हिंदी

Discipline Specific Elective (D.S.E.-E9)

(शैक्षिक वर्ष -2020 -21, 2021-22, 2022-23)

प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली की मॉडल

पाठ्यचर्या (CBCS) के आलोक में किया गया है।

उद्देश्य :

1. हिंदी में कार्य करने की रुचि विकसित करना।
2. रोजगार उन्मुख शिक्षा एवं कौशल्य प्रदान करना।
3. पारिभाषिक शब्दावली से परिचित करना।
4. सरकारी पत्राचार के स्वरूप का परिचय कराना।
5. जनसंचार एवं इलेक्ट्रॉनिक माध्यमों से परिचय कराना।
6. अनुवाद स्वरूप, महत्व तथा उपयोगिता से परिचित कराना।
7. रोजगार परक हिंदी की उपयोगिता स्पष्ट कराना।

अध्यापन पद्धति

- स्वाध्याय .
- व्याख्यान, विवेचन तथा विश्लेषण
- संगोष्ठी तथा समूह चर्चा का आयोजन।
- अतिथियों एवं विद्वानों के व्याख्यान।
- दृक श्राव्य माध्यमों का प्रयोग।
- संगणक तथा इंटरनेट आदि साधनों का प्रयोग।

अध्ययनार्थ विषय –

इकाई – 1 पारिभाषिक शब्दावली ।

दैनिक व्यवहार में प्रयुक्त अंग्रेजी शब्दों के हिंदी पर्यायवाची रूप । (परिशिष्ट में दिए हुए 'अ' तथा 'ब' विभाग के 50 शब्द) ।

इकाई –2 सरकारी कार्यालयीन पत्राचार ।

1. कार्यालय ज्ञापन ।
2. परिपत्र ।
3. कार्यालय आदेश ।
4. सूचना ।
5. अनुस्मारक पत्र ।

इकाई –3 हिंदी भाषा और रोजगार के अवसर ।

1. रेडियो में रोजगार ।
2. विज्ञापन में रोजगार ।
3. अनुवाद में रोजगार ।
4. पत्रकारिता में रोजगार ।
5. फिल्म में रोजगार ।

इकाई –4 समाचार लेखन ।

1. महाविद्यालयीन समारोह का समाचार लेखन ।
2. सामाजिक समारोह का समाचार लेखन ।
3. प्राकृतिक आपदाओं का समाचार लेखन ।
4. दुर्घटनाओं का समाचार लेखन ।

प्रश्नपत्र का स्वरूप एवं अंक विभाजन		अंक 40
प्रश्न 1	पारिभाषिक शब्दावली पर दस वस्तुनिष्ठ प्रश्न	10
प्रश्न 2	इकाई 2 पर लघुत्तरीय प्रश्न (3 में से 2) ।	10
प्रश्न 3	इकाई 3 पर टिप्पणियाँ (3 में से 2) ।	10
प्रश्न 4	इकाई 4 पर दीर्घोत्तरी प्रश्न (अंतर्गत विकल्प के साथ) ।	10

परिशिष्ट (अ)

पारिभाषिक शब्दावली

	जनसंचार माध्यम संबंधी शब्द	
1.	Announcer	निवेदक
2.	Artistic	कलात्मक
3.	Audio-Visual	दृक-श्राव्य
4.	Banner	पताका
5.	Biographer	जीवनीकार
6.	Biweekly	अर्धसाप्ताहिक
7.	Bulletin	विज्ञापित
8.	Catalogue	सूची
9.	Calligraphy	सुलेखन
10.	Caption	शीर्षक / चित्र परिचय
11.	Cartoonist	व्यंग्य चित्रकार
12.	Choreography	नृत्य रचना
13.	Columnist	स्तंभलेखक
14.	Commentator	समालोचक
15.	Composer	अक्षर योजक
16.	Communication	संचार
17.	Creation	सृजन
18.	Correspondent	संवाददाता
19.	Information Technology	सूचना तंत्रज्ञान
20.	Interview	साक्षात्कार
21.	Interruption	रूकावट
22.	Journalist	पत्रकार
23.	Magazine	पत्रिका
24.	Source Language	स्रोत भाषा
25.	Transliteration	लिप्यंतरण

परिशिष्ट (ब)

शिक्षा सभा और संमेलन संबंधी शब्द

1.	Abstract	सार संक्षेप
2.	Academic Goal	शैक्षिक ध्येय
3.	Address	अभिभाषण संबोधन
4.	Adult Education	प्रौढ शिक्षा
5.	Agenda	कार्यसूची
6.	Anniversary	जयंती वर्षगाँठ
7.	Anthology	संकलन / संग्रह
8.	Appraisal	मूल्यांकन
9.	Attestation	साक्षांकन / अनुप्रमाणन
10.	Audiance	श्रोतागण
11.	Autonomous	स्वायत्त
12.	Bibliography	संदर्भ ग्रंथ सूची
13.	Bachelor	स्नातक
14.	Closing Speech	समापन भाषण
15.	Conference Hall	सम्मेलन भवन
16.	Conclusion	समापन
17.	Document	दस्तावेज
18.	Draft	प्रारूप मसौदा
19.	Guardian	अभिभावक
20.	Humanity	मानविकी
21.	Hypothesis	परिकल्पना
22.	Inauguration	उद्घाटन
23.	Informal	अनौपचारिक
24.	Symposium	संगोष्ठी
25.	Viva-Voce	मौखिक परीक्षा

शिवाजी विश्वविद्यालय, कोल्हापुर

हिंदी अध्ययन मंडल

जून 2020 से लागू

हिंदी स्पेशल बी.ए.-3 (कला)

सत्र-V प्रश्नपत्र-XI

भाषा विज्ञान और हिंदी भाषा

Discipline Specific Elective (D.S.E.-E10)

(शैक्षिक वर्ष -2020 -21, 2021-22, 2022-23)

प्रस्तुत पाठ्यक्रम का निर्माण विश्वविद्यालय अनुदान आयोग, नई दिल्ली की मॉडल

पाठ्यचर्या (CBCS) के आलोक में किया गया है।

उद्देश्य :

- 1) भाषा के विविध रूपों का परिचय कराना ।
- 2) भाषा विज्ञान का सामान्य परिचय कराना ।
- 3) हिंदी भाषा एवं लिपि के उद्भव और विकास का परिचय कराना ।
- 4) भाषा की शुद्धता के प्रति छात्रों को जागृत करना ।
- 5) मानक हिंदी वर्तनी और व्याकरण से छात्रों को परिचित कराना ।

अध्यापन पद्धति

- स्वाध्याय .
- व्याख्यान, विवेचन तथा विश्लेषण
- संगोष्ठी तथा समूह चर्चा का आयोजन।
- अतिथियों एवं विद्वानों के व्याख्यान।
- दृक श्राव्य माध्यमों का प्रयोग।
- संगणक तथा इंटरनेट आदि साधनों का प्रयोग।

अध्ययनार्थ विषय –

इकाई 1— भाषा की परिभाषाएँ, भाषा की विशेषताएँ, भाषा की उत्पत्ति एवं तत्संबंधी विविध वाद—दैवी उत्पत्ति सिद्धांत, धातु सिद्धांत, अनुकरण सिद्धांत, श्रमपरिहार सिद्धांत, मनोभावाभिव्यंजक सिद्धांत, समन्वित सिद्धांत ।

इकाई 2— भाषा परिवर्तनशीलता के कारण ।

भाषा के विविध रूप— बोली और परिनिष्ठित भाषा ।

बोलियों के बनने के कारण, बोली और भाषा में अंतर ।

इकाई 3— हिंदी भाषा का उद्भव और विकास ।

हिंदी का शब्दसमूह, हिंदी भाषा के विविध रूप—राष्ट्रभाषा, राजभाषा, संपर्क भाषा ।

इकाई 4 — हिंदी की विविध बोलियाँ—अवधी, ब्रज, खड़ीबोली, भोजपुरी ।

लिपि विकास का सामान्य परिचय, देवनागरी लिपि की वैज्ञानिकता ।

प्रश्नपत्र का स्वरूप एवं अंक विभाजन		अंक 40
प्रश्न 1	पुरे पाठ्यक्रम पर दस बहुविकल्पी प्रश्न ।	10
प्रश्न 2	इकाई 3 पर लघुत्तरीय प्रश्न (3 में से 2) ।	10
प्रश्न 3	इकाई 4 पर टिप्पणियाँ (3 में से 2) ।	10
प्रश्न 4	इकाई 1 और 2 पर दीर्घोत्तरी प्रश्न (अंतर्गत विकल्प के साथ) ।	10

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

Revised Syllabus For

B.A. Part-III

English

Syllabus to be implemented from

June, 2020 onwards.

Shivaji University, Kolhapur
B. A.III
Compulsory English
Ability Enhancement Compulsory Course (CBCS)
ENGLISH FOR COMMUNICATION
From June 2020 Onwards

Course Objectives:

- To enhance students' communication skills
- To impart employability skills to students
- To prepare students for competitive examinations
- To enable students to acquire professional skills such as media writing
- To enable students to learn manners and etiquettes required at workplace
- To enhance students' reading comprehension skills
- To create interest in English literature among students
- To inculcate human values and ethics in order to enable students' to become good citizens of the country

Course Outcomes: After the completion of the course, the students will be able to:

- Communicate in English, in oral and written modes, in their day-to-day lives as well as at workplaces.
- Face job interviews confidently and efficiently.
- Acquire soft skills required at workplaces and in real life.
- Learn group behavior and team work.
- Learn to value and respect others' opinions and views and develop democratic attitude.
- Face competitive examinations confidently and efficiently with adequate linguistic confidence.
- Acquire professional skills required in media writing such as writing editorials.
- Learn to appreciate and enjoy reading poetry and prose passages.
- Acquire human values and develop cultured outlook.

SEMESTER V AECC 5

MODULE I

- A. Interview Skills
- B. The Interview -V.V. John

MODULE II

- A. Grammar for Competitive Examinations
- B. The Lottery - Shirley Jackson

MODULE III

- A. Writing Skills for Competitive Examinations
- B. After Twenty Years - O' Henry

MODULE IV

- A. I Shall Return To This Bengal - Jibananda Das
- B.(i) Song of Youth - A. P. J. Abdul Kalam
- (ii) The Orphan Girl - Henry Derezio

***Note: Semester V: 10 Marks for Internal Evaluation: STUDENTS' SEMINAR**

SEMESTER VI

AECC 6

MODULE V

- A. Group Discussion
- B. The Lighthouse Keeper of Aspinwall - Henry Sienkiewicz

MODULE VI

- A. Note Making and Note Taking
- B. Three Questions - Leo Tolstoy

MODULE VII

- A. Media Writing
- B. Eight Rupees - Murli Das Melwani

MODULE VII

- A. The Mystic Drum - Gabriel Okara
- B. (i) Two Dead Soldiers- Jean Arasanayagam
(ii) Bora Ring - Judith Wright

***Note: Semester VI: 10 Marks for Internal Evaluation: STUDENTS' GROUP PROJECT**

Division of Teaching Hours 8 Modules x 15 Hours = 120 Hours

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

Revised Syllabus For

B.A. Part-III

English

Syllabus to be implemented from

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Shivaji University, Kolhapur
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SEMESTER V AECC 5

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SEMESTER VI

AECC 6

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***Note: Semester VI: 10 Marks for Internal Evaluation: STUDENTS' GROUP PROJECT**

Division of Teaching Hours 8 Modules x 15 Hours = 120 Hours

Shivaji University, Kolhapur
B. A.III
Compulsory English
Ability Enhancement Compulsory Course (CBCS)
ENGLISH FOR COMMUNICATION

PATTERN OF QUESTION PAPER (June 2020 Onwards)

Semester V (Paper E)

Total Marks: 40

Q. No	Sub Q.	Type of Question	Based on	Marks
Q. 1	A.	Four multiple choice questions with four alternatives to be set	Prose and Poetry	03
	B.	Answer in one word/phrase/sentence each.	Prose and Poetry	03
	C.	Two different Vocabulary Exercises to be set for 1 mark each	Prose and Poetry	02
Q.2	A.	Answer the following questions in 3-4 sentences each. (2 out of 3)	2 on Prose and 1 on Poetry	04
	B.	Write Short Note on the following in about 7-8 sentences each. (1 out of 2)	1 on Prose and 1 on Poetry	04
Q.3	--	Questions to be set on Interview Skills (A or B)	Module I A	08
Q.4	--	Question to be set on Grammar for Competitive Examinations (A or B)	Module II A	08
Q.5	--	Question to set on Writing Skills for Competitive Examinations(A or B)	Module III A	08

Semester VI (Paper F)

Total Marks: 40

Q. No	Sub Q.	Type of Question	Based on	Marks
Q. 1	A.	Four multiple choice questions with four alternatives to be set	Prose and Poetry	03
	B.	Answer in one word/phrase/sentence each.	Prose and Poetry	03
	C.	Two different Vocabulary Exercises to be set for 1 mark each.	Prose and Poetry	02
Q.2	A.	Answer the following questions in 3-4 sentences each. (2 out of 3)	2 on Prose and 1 on Poetry	04
	B.	Write Short Note on the following in about 7-8 sentences each. (1 out of 2)	1 on Prose and 1 on Poetry	04
Q.3	--	Question to be set on Group Discussion(A or B)	Module V A	08
Q.4	--	Question to be set on Note Making and Note Taking(A or B)	Module VI A	08
Q.5	--	Question to set on Media Writing(A or B)	Module VII A	08

Shivaji University, Kolhapur
B. A. Part III
Special English
INTRODUCTION TO LITERARY CRITICISM (CBCS)
Discipline Specific Elective
Semester V (Paper VII) (DSE- E11) & Semester VI (Paper XII) (DSE- E136)
From June 2020 onwards

Course Objectives:

- To introduce students to the major trends in literary criticism.
- To familiarize students with the major critical concepts.
- To help students to study the original contributions made in the field of literary criticism.
- To acquaint students with the various literary and critical movements.
- To train students to write critical appreciation of poetry.

Course Outcomes:

- Students are able to understand the major trends in criticism.
- Students are able to interpret critical concepts.
- Students are able to study the original contributions to literary criticism.
- Students are acquainted with literary and critical movements.
- Students are able to understand the meaning and appreciate the poems critically.

Semester V(Paper VII) (DSE- E11)	
Module I	Introduction to Literary Criticism: 1. Nature of Criticism 2. Function of Criticism
Module II	Classical Criticism: 1. The Concept of Tragedy 2. The Ideal Tragic Hero (From Aristotle's <i>Poetics</i>)
Module III	Neo-classical Criticism: Dr. Samuel Johnson's <i>Preface to Shakespeare</i> (1765)
Module IV	Literary Terms: 1. Symbolism 2. Realism 3. Humour 4. Paradox
Note: Semester V: 10 Marks for Internal Evaluation: STUDENTS' SEMINAR	
Semester VI (Paper XII) (DSE- E136)	
Module V	Romantic Criticism: William Wordsworth's Theory of Poetic Diction (From William Wordsworth's <i>Preface to Lyrical Ballads</i>)
Module VI	Victorian Criticism: Matthew Arnold's Touchstone Method (From Matthew Arnold's <i>The Study of Poetry</i>)
Module VII	Modern Criticism:

	T S Eliot's <i>Tradition and Individual Talent</i> (1919)
Module VIII	Practical Criticism: Poetry
Note: Semester VI: 10 Marks for Internal Evaluation: STUDENTS' GROUP PROJECT	

Division of Teaching Hours 8 Modules x 15 Hours = 120 Hours

Recommended Reading: Semester V and Semester VI

- Abrams, M. H. *A Glossary of Literary Terms* (8th Edition). New Delhi: Akash Press, 2007.
- Alexander, L. G. *Prose and Poetry Appreciation for Overseas Students*. London: Longman Green and Comp. Ltd., 1966.
- Allex, Latter & Rachel, Teubner. *William Wordsworth's Preface to the Lyrical Ballads*. London: Macat Library, 2018.
- Bliss, Perry. *A Study of Poetry*. Kindle Edition, 22 Feb., 2018.
- Butcher, S. C. *Poetics*. New Delhi: Kalyani Publishers, 1978.
- Bywater, Ingram. *Aristotle's Poetics*. Oxford: Atthe Clarendon Press, 1976.
- Cuddon, J. A. *The Penguin Dictionary of Literary Terms and Literary Theory* (4th Edition). London and New York: Penguin, 2000.
- Davis, Joseph, K. Pathea, R Broughton and Michael Wood. *Literature*. Illinois: Scott, Foresman and Comp. Glenviews, 1977.
- Eliot, T.S. *The Sacred Wood – Essays on Poetry and Criticism*. (Seventh edition), 1950.
- Enright, D.J. & Ernst De Chickera. *English Critical Texts: 16th Century to 20th Century*. OUP, 1968.
- Fyfe, Hamilton. *Aristotle's Art of Poetry*. London: OUP, 1940.
- Gray, Martin. *A Dictionary of Literary Terms* (York Handbooks), Pearson Education, 2009.
- Hudson, W. H. *An Introduction to the Study of Literature*. New Delhi: Atlantic, 2007.
- Richards, I. A. *Practical Criticism: A Study of Literary Judgment*. New Delhi: UBS Publishers, 2002.
- Scott James, R. A. *The Making of Literature*. Mumbai: Allied Publishers Pvt. Ltd., 1963.
- Sherbo, Arthur(ed.). *The Yale edition of the works of Samuel Johnson*. Vol.7. New haven: Yale University Press, 1968.
- S. Ramaswami & V. S. Seturaman (ed.) *The English Critical Tradition: An Anthology of English Literary Criticism*, Volume 1,. New Delhi: Macmillan Publishers India Ltd. 1977/2009.
- Seturaman, V. S., C. T. Indra and T. Siraman. *Practical Criticism*. Madras: Macmillan India Ltd., 1995.
- Waugh, Patricia (ed.) *Literary Theory and Criticism: An Oxford Guide*. New York: Oxford University Press, 2006.
- Wimsatt, W. K. and Cleanth Brooks. *Literary Criticism: A Short History*. New Delhi: Oxford and IBH Publishing Company Pvt. Ltd., 1957.
- Wellek, Rene and Austin Warren. *Theory of Literature*. London: Jonathan Cape, 1949.
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Shivaji University, Kolhapur
B. A. Part III
Special English
INTRODUCTION TO LITERARY CRITICISM (CBCS)
Discipline Specific Elective
Semester V (Paper VII) (DSE- E11)
PATTERN OF QUESTION PAPER
From June 2020 onwards

Total Marks: 40

Q1. Objective type Question

- A) Multiple choice questions with four alternatives. 4
- B) Answer the following questions in one word/phrase/sentence each. 4
- (Q1 A and B to be set on topics covering **Module I to IV**)
- (At least one item to be set on each Module)

Q2. Answer the questions in about 250-300 words each.

(A or B to be set on **Module I, II, and III**) 10

Q3. Answer the questions in about 250-300 words each.

(A or B to be set on **Module I, II, and III**) 10

Q3 A. Write short notes on the following: (Any 3 out of 5) 12

(3 to be set on **Module IV** and 2 on **Module I, II, III** not covered in question 2 and 3)

INTRODUCTION TO LITERARY CRITICISM (CBCS)
Semester VI (Paper XII) (DSE- E136)
PATTERN OF QUESTION PAPER
From June 2020 onwards

Total Marks: 40

Q1. Objective type Question

- A) Multiple choice questions with four alternatives. 4
- B) Answer the following questions in one word/phrase/sentence each. 4
- (Q1. A and B to be set on topics covering **Module V to VII**)
- (At least one item to be set on each Module)

Q2. Answer in the questions 250-300 words each.

(A or B to be set on **Module V, VI, and VII**) 10

Q3. Answer the questions in about 250-300 words each.

(A or B to be set on **Module V, VI, and VII**) 10

Q4. Write critical appreciation of the given poem. 12

(with the help of points such as title, theme, content, devices, message, style, rhyme-scheme, diction, type of poem, tone, stanza-pattern, metre, etc. **(Based on Module VIII)**)

EQUIVALENCE

Old Title	New Title
LITERARY CRITICISM AND LITERARY APPRECIATION	INTRODUCTION TO LITERARY CRITICISM

Shivaji University, Kolhapur

B. A.III

English Special

ENGLISH POETRY (CBCS)

Discipline Specific Elective

Semester V (Paper VIII) (DSE – E12) and Semester VI (Paper XIII) (DSE – E137)

(From June 2020 Onwards)

Course Objectives:

- To make students engaged and curious readers of poetry
- To introduce students to poetry from various cultures and traditions
- To make students understand that poetry gives intellectual, moral and linguistic pleasures
- To make students hear and read poems aloud and to memorize lines

Course Outcomes:

- Students will be able to trace the development of the poetry in English from the days of Shakespeare to the contemporary India.
- Students will be able to appreciate and analyze the poems properly.
- Students will have a fairly comprehensive view of the Western and Eastern poetic tradition and they will be able to relate it to various literary movements.
- Students will have an insight into poetry and they will be able to make a lively and interesting reading.

SEMESTER V (Paper VIII) (DSE – E12)		
MODULE NO.	TITLE OF THE MODULE	NAME OF THE POET
I. Topics For Background Readings:		
	1. Elizabethan Poetry	
	2. Metaphysical Poetry	
	3. Romantic Poetry	
II. Selections from Elizabethan Poetry:		
	1. Sweet Warrior (Sonnet 57)	Edmund Spenser
	2. Sonnet To The Moon	Sir Philip Sydney
	3. Full Many A Glorious Morning... (Sonnet 33)	William Shakespeare
III. Selections from Metaphysical Poetry:		
	1. The Sun Rising	John Donne
	2. The Retreat	Henry Vaughan
	3. The Collar	George Herbert
IV. Selections from Romantic Poetry:		
	1. My Heart Leaps Up	William Wordsworth
	2. The Rime of the Ancient Mariner	S. T. Coleridge
	3. Ozymandias	P. B. Shelley
	4. When We Two Parted	Lord Byron
*Note: Semester V: 10 Marks for Internal Evaluation: STUDENTS' SEMINAR		

SEMESTER VI (Paper XIII) (DSE – E137)		
MODULE NO.	TITLE OF THE MODULE	NAME OF THE POET
V. Topics For Background Readings:		
	1. Victorian Poetry	
	2. Modern English Poetry	
	3. Modern Indian English Poetry	
VI. Selections from Victorian Poetry:		
	1. The Lady Of Shallot	Alfred Lord Tennyson
	2. My Last Duchess	Robert Browning
	3. Love Came Down At Christmas	Christiana Rossetti
VII. Selections from Modern English Poetry:		
	1. No Second Troy	W. B. Yeats
	2. The Hollow Men	T. S. Eliot
	3. Tonight I Can Write	Pablo Neruda
VIII. Selections from Modern Indian English Poetry:		
	1. The Professor	Nissim Ezekiel
	2. A Hot Noon in Malabar	Kamala Das
	3. A River	A. K. Ramanujan
	4. A Kind of Happiness	Jayanta Mahapatra
*Note: Semester VI: 10 Marks for internal Evaluation: STUDENTS' GROUP PROJECT		

Division of Teaching Hours: 8 Modules x 15 Hours each= 120 Hours

Recommended Reading: Semester V and Semester VI

Appelbaum, Stanley. *English Romantic Poetry: An anthology*. Dover Publications Inc. 1996.
 Burrow, Colin. *Metaphysical Poetry*. Penguin Classics. 2006.
 Chaudhuri, Roshinka. *A History of Indian Poetry in English*. Cambridge University press. 2016.
 Chaudhuri, Sukanta. *Modern Indian Literature*, New Delhi: OUP, 2004.
 Courthope, W.J. *A History of English Poetry*. Vol.I Macmillan, 1995.
 Craig, W.J. (ed.). *The Complete works of William Shakespeare*. Oxford: OUP., 1905.
 Fenton, James. *An Introduction to English Poetry*. New York: Farrar, Strauss and Giroux, 2004.
 Gardner, Martin, *The Annotated Ancient Mariner*, New York: Clarkson Potter, 1965.
 Harold Bloom and Lionel Trilling. (ed.) *Romantic Prose and Poetry*, New York: OUP, 1973.
 Mitra, Zinia (ed.). *Indian Poetry in English: Critical Essays*. New Delhi: PHI Learning Pvt Ltd., 2012.
 Naik, M.K. *A History of Indian English Literature*. Delhi, 1982.
 Narasimhaiah, C.D., (ed.) *An Anthology of Commonwealth Poetry*, Delhi: Macmillan, 1990.
 Negri, Paul. *English Victorian poetry*. Dover Publications Inc. 1998
 Ramanan, M.G. *Modern English Poetry: A Selection*. New Delhi: Orient Blackswan, 2013.
 Samuel Taylor Coleridge, *Biographia Literaria*, ed. George Watson. London: Everyman, 1993.

Shivaji University, Kolhapur

B. A.III

English Special

ENGLISH POETRY (CBCS)

Discipline Specific Elective

Semester V (Paper VIII) (DSE – E12)

PATTERN OF QUESTION PAPER

From June 2020 Onwards

Marks: 40

- Q1. A) Four multiple choice questions with four alternatives (4)
B) Answer the following questions in one word/ phrase/sentence each. (4)
(Q. 1 A and B to be set on **Module II, III and IV**)
- Q2. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **Module I**)
- Q3. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **Module II, III or IV**)
- Q4. Write Short Notes in about 100-150 words each (3out of 4) (12)
(Two be set on **Module I** and two be on **Module II, III or IV**)
-

ENGLISH POETRY (CBCS)

Discipline Specific Elective

Semester VI (Paper XIII) (DSE – E137)

Marks: 40

- Q1. A) Four multiple choice questions with four alternatives (4)
B) Answer the following questions in one word/ phrase/sentence each. (4)
(Q. 1 A and B to be set on **Module VI, VII and VIII**)
- Q2. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **Module V**)
- Q3. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **VI, VII or VIII**)
- Q4. Write Short Notes in about 100-150 words each (3out of 4) (12)
(Two be set on **Module V** and two be on **Module VI, VII or VIII**)
-

EQUIVALENCE

Old Title	New Title
Understanding Poetry	English Poetry

Shivaji University, Kolhapur
B. A. Part III
Special English
ENGLISH DRAMA (CBCS)
Discipline Specific Elective
Semester V (Paper IX) ((DSE – E13) & Semester VI (Paper XIV) (DSE – E138)
From June 2020 onwards

Course Objectives:

- To make students understand different forms of drama
- To enable students to relate drama to their ideological or socio-political contexts
- To help students improve their creative and imaginative faculties through the reading of drama
- To enable students to know about various aspects of the drama

Course Outcomes:

- Students are able to understand different forms of drama.
- Students are able to relate drama to their ideological or socio-political contexts.
- Students are able to improve their creative and imaginative faculties through the reading of drama.
- Students are able to know about various aspects of the drama.

Semester V (Paper IX) ((DSE – E13)

MODULE I

Definition and Elements of Drama

MODULE II

Tragedy as a Form

MODULE III

The Importance of Being Earnest - Oscar Wilde

MODULE IV

Hamlet – William Shakespeare

Division of Teaching Hours: 4 Modules X 15 Periods = 60 Periods

Prescribed Texts:

Wilde, Oscar. *The Importance of Being Earnest*. New Delhi: General Press, 2018.
Shakespeare, William. *Hamlet*. Penguin Books, 1980.

*Note: Semester V: 10 Marks for Internal Evaluation: STUDENTS' SEMINAR

Semester VI (Paper XIV) (DSE – E138)

MODULE V

Types of Drama

MODULE VI

Comedy as a Form

MODULE VII

Nagmandala – Girish Karnad

MODULE VIII

Harvest – Manjula Padmanabhan

Division of Teaching Hours: 4 Modules X 15 Periods = 60 Periods

Prescribed Texts:

Karnad, Girish. *Nagmandala*. Oxford University Press, 1990.

Padmanabhan, Manjula. *Harvest*. Delhi: Penguin, 1997.

***Note: Semester VI: 10 Marks for Internal Evaluation: STUDENTS' GROUP PROJECT**

Recommended Reading: Semester V and Semester VI

Aasand, Hardin L. *Stage Directions in Hamlet: New Essays and New Directions*. NJ: Fairleigh Dickinson University Press, 2003.

Babu, Munchi Sarat. *Indian Drama*. New delhi: Prestige Books, 1997.

Bhatt, S.K. *Indian English Drama: A Critical Study*. New Delhi: Sterling Publishers Pvt. Ltd., 1987.

Bloom, Harold. *The Importance of Being Earnest: Modern Critical Interpretations*. Chelsea House Pub., 1988.

Driver, T.F. *Drama and History*. New York: Columbia University Press, 1967.

Ddiya, Jaydipsinh. (ed.) *The Plays of Girish Karnad: Critical Perspectives*. New Delhi: Prestige Books, 1999.

Gargy, Balwant. *Folk Theatre of India*. Culcutta: Rupa & Co., 1991.

Gillespie, Michael Patrick. *The Importance of Being Earnest*. (Norton Critical Editions). W.W.Norton and Co., 2006.

Hibbard, G.R. (ed.) *Hamlet*. OUP: 1988.

Hirsh, James. *Shakespeare and the History of Soliloquies*. NJ: Farleigh Dickinson University Press, 2003.

Joshi, R.G. *Myth in Indian Drama*. Delhi: B.R. Publishing Corporation, 1984.

Kumar, Nand. *Indian English Drama: A Study in Myths*. New Delhi: Sarup and sons, 2003.

MacCary, Thomas. *Hamlet: A Guide to the Play*. London: Greenwood Press, 1988.

Martin, James. *The Meaning of the 21st Century*. New York: Riverhead Penguin, 2007.

Priestley, J.B. *The Art of the Dramatist*. London: Heinemann, 1957.

Rajkumar, K. *Socio-Political Realities in Harvest*. Purna:RHI,Mahmul, 2012.

Robertson, Ronald. *Globalization: Social Theory and Global Culture*. London: Sage, 1992.

Sen,B. *The Importance of Being Earnest*. Unique Publishers,2015.

Styan, J.L. *The Elements of Drama*. Cambridge: Cambridge University Press, 1967.

Vaidyanathan, G. *The Importance of Being Earnest*. New Delhi: Narain Publications, 2018.

Worthen, W.B. (ed.). *Anthology of Drama* (Fourth edition). London: Cengage Learning EMEA, 2004.

Shivaji University, Kolhapur
B. A. Part III
Special English
ENGLISH DRAMA (CBCS)
Discipline Specific Elective
Semester V (Paper IX) ((DSE – E13)

PATTERN OF QUESTION PAPER

(From June 2020 onwards)

Marks: 40

- Q1. A) Four multiple choice questions with four alternatives (4)
B) Answer the following questions in one word/ phrase/sentence each. (4)
(Q. 1 A and B to be set on **Module III and IV**)
- Q2. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **Module I and II**)
- Q3. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **Module III and IV**)
- Q4. Write Short Notes in about 100-150 words each (3out of 4) (12)
(Two be set on **Module I and II** and two be on **Module III and IV**)
-

ENGLISH DRAMA (CBCS)
Discipline Specific Elective
Semester VI (Paper XIV) (DSE – E138)

PATTERN OF QUESTION PAPER

(From June 2020 onwards)

Marks: 40

- Q1. A) Four multiple choice questions with four alternatives (4)
B) Answer the following questions in one word/ phrase/sentence each. (4)
(Q. 1 A and B to be set on **Module VII and VIII**)
- Q2. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **Module V and VI**)
- Q3. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **VII and VIII**)
- Q4. Write Short Notes in about 100-150 words each (3out of 4) (12)
(Two be set on **Module V and VI** and two be on **Module VII and VIII**)
-

EQUIVALENCE

Old Title	New Title
Understanding Drama	English Drama

Shivaji University, Kolhapur
B. A. Part III Special English
ENGLISH NOVEL (CBCS)

Discipline Specific Elective

Semester V (Paper X) ((DSE – E14) & Semester VI (Paper XV) (DSE – E139)

From June 2020 onwards

Course Objectives:

- To make students understand different forms of novel.
- To enable students to relate novels to their ideological or socio-political contexts.
- To help students to improve their creative and imaginative faculties through the reading of novels.
- To enable students to know about various aspects of the novel.

Course Outcomes:

- Students are able to understand different forms of novel.
- Students are able to relate novels to their ideological or socio-political contexts.
- Students are able to improve their creative and imaginative faculties through the reading of novels.
- Students are able to know about various aspects of the novel.

SEMESTER V (Paper X) (DSE – E14)

MODULE I

Rise and Development of the Novel

MODULE II

Aspects of the Novel

MODULE III

The Old Man and the Sea – Ernest Hemingway

MODULE IV

The Power and the Glory – Graham Greene

Division of Teaching Hours: 4 Modules X 15 Periods = 60 Periods

Prescribed Texts:

Hemingway, Ernest. *The Old Man and the Sea*. New York: Simon & Schuster, 1952.

Greene, Graham. *The Power and the Glory*. New York: Time Reading Special Edition. 1940, 1962.

*Note: Semester V: 10 Marks for Internal Evaluation: STUDENTS' SEMINAR

SEMESTER VI (Paper XV) (DSE – E139)

MODULE V

Historical and Psychological Novel

MODULE VI

Satirical Novel and Epistolary novel

MODULE VII

Animal Farm: A Fairy Tale - George Orwell

MODULE VIII

The Guide - R. K. Narayan

Division of Teaching Hours: 4 Modules X 15 Periods = 60 Periods

Prescribed Texts:

Orwell, George. *Animal Farm: A Fairy Tale*. New York: Signet Classic, 1996.

Narayan, R. K. *The Guide*. US: Viking Press, 1958.

***Note: Semester VI: 10 Marks for internal Evaluation: STUDENTS' GROUP PROJECT**

Suggested Reading: for Semester V and Semester VI

Auden, W. H. *The Enchafed Flood: The Romantic Econography of the Sea*. New York: Random, 1950.

Abrams, M. H. *A Glossary of Literary Terms* (8th Edition) New Delhi, Akash Press – 2007

Bender, Bert. *Sea Brothers: The Tradition of American Sea Fiction from Moby-Dick to the Present*. Philadelphia: University of Pennsylvania Press, 1988.

Bloom, Harold. *Ernest Hemingway's The Old Man and the Sea: Modern Critical Interpretations*. Cheasea House Publications, 2008.

Bradbury, Malcolm. *The Novel Today*. Glasgow: F. C. Paperbacks, 1982.

Brooks and Warren. *Understanding Fiction*. Prentice Hall, 1959.

Dedria, Bryfonski & Hall, Sharon. *Twentieth Century Literary Criticism: George Orwell*. Michigan: Book Tower, 1979.

Edel, Leon. *The Psychological Novel: 1900-1950*. Ludhiana: Kalyani, 1997.

Forster, E. M. *Aspects of Novel*. London. 1949.

Hynes, Samuel, ed. *Graham Greene: A Collection of Critical Essays*. New Jersey: Prentice Hall, Inc. 1973.

Jones, David P. *Graham Greene*. Edinburgh: Oliver and Boyd. 1963.

Kerala, Calling. *From Eric Blair to George Orwell, Biography*. London: Sage, 2003.

Kermode, Frank. *Sense of an Ending*. OUP, 1967.

Lall, Pamji. *Graham Greene: The Power and the Glory: A Critical Study*. New Delhi: Roma Brothers India Pvt. Ltd. 2005.

Lewis, R. W. B. & Conn, Petr J. ed. *Graham Greene: The Power and the Glory: Text and Criticism*. New York: The Viking Press, 1970.

Lubbock, Percy. *The Craft of Fiction*. London: Jonathan Cape, 1965.

Matz, Jesse. *The Modern Novel: A Short Introduction*. Oxford Blackwell, 2004.

Meyers, Jeffery. *George Orwell: The Critical Heritage*. Routledge, 1997.

Rimmon-Kennan, Shlomith. *Narrative Fiction*. London and New York: Routledge, 2005.

Roy, Ruby. *A Critical Study of R. K. Narayan's Swami and Friends and The Guide*. Delhi: Kalpaz Publications, 2015.

Rees, R. J. *Introduction to English Literature*. London: Macmillan, 1966/1968.

Singh, P. K. *The Novels of R. K. Narayan : A Critical Study*. New Delhi: Atlantic Publishers.

Stade, George, ed. *Six Contemporary British Novelists*. New York: Colombia University Press, 1976.

Subramaniam, K. S. *Graham Greene: A Study of Graham Greene's Works*. Bareilly: Prakash Book Depot, 1978.

Vinson, James, ed. *Contemporary Novelists*. London: St. James Press, 1972.

Watt, Ian. *Rise of the Novel*. London: Penguin, 1957.

Woodcock, George. *20th Century Fiction*. London: The Macmillan Press Ltd., 1983.

Shivaji University, Kolhapur
B. A. Part III
Special English
ENGLISH NOVEL (CBCS)
From June 2020 onwards
PATTERN OF QUESTION PAPER FOR
(Semester V Paper X DSE – E14)

Marks: 40

- Q1. A) Four multiple choice questions with four alternatives (4)
B) Answer the following questions in one word/ phrase/sentence each. (4)
(Q. 1 A and B to be set on **Module III and IV**)
- Q2. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **Module I and II**)
- Q3. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **Module III and IV**)
- Q4. Write Short Notes in about 100-150 words each (3out of 4) (12)
(Two be set on **Module I and II** and two be on **Module III and IV**)
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PATTERN OF QUESTION PAPER FOR
(Semester VI Paper XV DSE – E139)

Marks: 40

- Q1. A) Four multiple choice questions with four alternatives (4)
B) Answer the following questions in one word/ phrase/sentence each. (4)
(Q. 1 A and B to be set on **Module VII and VIII**)
- Q2. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **Module V and VI**)
- Q3. Answer the following questions in about 250-300 words. (10)
(A or B to be set on **VII and VIII**)
- Q4. Write Short Notes in about 100-150 words each (3out of 4) (12)
(Two be set on **Module V and VI** and two be on **Module VII and VIII**)
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EQUIVALENCE

Old Title	New Title
Understanding Novel	English Novel

Shivaji University, Kolhapur
B.A. III
English Special
LANGUAGE AND LINGUISTICS (CBCS)
Discipline Specific Elective
Semester V –Paper XI (DSE - E15) & Semester VI – Paper XVI (DSE - E140)
From June 2020 onwards

LANGUAGE AND LINGUISTICS
Semester V –Paper XI (DSE -E 15)

Course Objectives:

- To orient students to the concept of communication.
- To make the students familiar with varieties of the English language.
- To acquaint students with different levels of the study of language.
- To study the basic units of grammar.

Course Outcomes:

- Students know the concept of communication.
- Students are familiar with varieties of the English language.
- Students know different levels of study of the English language.
- Students know basic units of grammar.

Semester V –Paper XI DSE - E 15

MODULE I

Language and Communication

- i. Definitions and characteristics of language
- ii. Human and Animal communication systems (Special reference to Hockett's 7 characteristics of language)

MODULE II

Phonology

MODULE III

Morphology

MODULE IV

Words

*Note: Semester V: 10 Marks for Internal Evaluation: STUDENTS' SEMINAR

Division of Teaching Hours: 4 Modules X 15 Periods = 60 Periods

Reference Books :

- Balasubramaniam, T. *A Textbook of English Phonetics for Indian Students*, Delhi: McMillan, 1981.
- Bansal, R.K. & Harrison, J.B., *Spoken English*, Hyderabad: Orient Longman, 2000.
- Hockett, C.F., *A Course in Modern Linguistics*, MacMillan, . 1963.
- Hudson, Richard, *Sociolinguistics*, Cambridge: Cambridge University Press, 1996.
- Jones, Daniel, *English Pronouncing Dictionary*, ELBS Edition.
- Leech et al, *English Grammar Today: a New Introduction*, Hyderabad: McMillan, 2010.
- Lyons, John, *Language and Linguistics: An Introduction*, Cambridge: Cambridge University Press, 1981.
- Quirk, R., Greenbaum, S., Leech, G. & Svartvik, J., *A Comprehensive Grammar of English*, New Delhi: Pearson, 2010.
- Quirk, Randolph & Greenbaum, Sidney, *A University Grammar of English*, New Delhi: Pearson, 2015.
- Radford, A., Atkinson, M., Britain, D., Clahsen, H. & Spencer, A., *Linguistics: An Introduction*, Cambridge: Cambridge University Press, 1999.
- Trask, R. L, *Key Concepts in Language and Linguistics*, London: Routledge, 1999.
- Verma, S.K. & Krishnaswamy, N., *Modern Linguistics*, Hyderabad: Oxford University Press, 1989.
- Velayudhan, S. & Mohanan, K. P., *An Introduction to the Phonetics and Structure of English*, New Delhi: Somaiya Pub. Pvt. Ltd., 1977

QUESTION PAPER PATTERN

From June 2020 onwards

LANGUAGE AND LINGUISTICS (CBCS) Discipline Specific Elective Semester V –Paper XI (DSE - E15)

- | | | |
|------|---|------|
| Q. 1 | Objective type | |
| | a) Three term labels | (3) |
| | b) Transcription of words with primary stress | (3) |
| | c) Conversion of the given transcriptions into the conventional spellings | (2) |
| Q.2 | a) Write short notes (2/3) (to be set on Module I) | (10) |
| | b) Morphological Analysis giving labels (2/4) | (4) |
| Q.3 | a) Identification of word formation/morphological processes | (4) |
| | d) Identification of word classes | (4) |
| Q.4. | Write short notes (2/4) (2 each to be set on Module II & IV) | (10) |
-

Shivaji University, Kolhapur
B.A. III
English Special
LANGUAGE AND LINGUISTICS (CBCS)
Discipline Specific Elective
Semester VI – Paper XVI (DSE - E140)
From June 2020 onwards

Course Objectives:

- To acquaint students with structures and functions of words and phrases.
- To enable students to know and identify elements and types of clauses.
- To study Subordination and Coordination.
- To study different ways of structuring clauses.

Course Outcomes:

- Students know words and phrases.
- Students know and identify elements and types of clauses.
- Students know types of sentences.
- Students know the different ways of structuring clauses

Semester VI – Paper XVI (DSE - E140)

MODULE V

Phrases

MODULE VI

Clauses

MODULE VII

Subordination and Coordination

MODULE VIII

Basic and Derived Structures

- i) Inversion / Fronting
- ii. Negation
- iii. Interrogation
- iv. Exclamation
- v. Omission of Certain Elements
(Relative Pronouns, Comparative Clauses, Tag Questions)
- vi. Passivisation
- vii. Subject Raising
- viii. Style Transformation

Note: Semester VI: 10 Marks for Internal Evaluation: STUDENTS' GROUP PROJECT

Division of Teaching Hours: 4 Modules X 15 Periods = 60 Periods

Reference Books :

- Crystal, David, *Linguistics*, London: Penguin Books Ltd., 1974.
 Hockett, C.F., *A Course in Modern Linguistics*, MacMillan, 1963.
 Hudson, Richard, *Sociolinguistics*, Cambridge: Cambridge University Press, 1996.
 Leech et al, *English Grammar Today: A New Introduction*, Hyderabad: McMillan, 2010.
 Lyons, John, *Language and Linguistics: An Introduction*, Cambridge: Cambridge University Press, 1981.
 Palmer, F. G., *Grammar*, London: Penguin Books Ltd., 1973.
 Quirk, R., Greenbaum, S., Leech, G. & Svartvik, J., *A Comprehensive Grammar of English*, New Delhi: Pearson, 2010.
 Quirk, Randolph & Greenbaum, Sidney, *A University Grammar of English*, New Delhi: Pearson, 2015.
 Radford, A., Atkinson, M., Britain, D., Clahsen, H. & Spencer, A., *Linguistics: An Introduction*, Cambridge: Cambridge University Press, 1999.
 Verma, S.K. & Krishnaswamy, N., *Modern Linguistics*, Hyderabad: Oxford University Press, 1989.

QUESTION PAPER PATTERN**From June 2020 onwards****LANGUAGE AND LINGUISTICS (CBCS)****Discipline Specific Elective****Semester VI – Paper XVI (DSE - E140)**

Q. 1	a) Identify elements of clause (S, P, O, C, A)	(4/6)	(4)
	b) Transformation of sentence (to be set on Module VIII)	(4/6)	(4)
Q.2	a) Write short notes. (2 each to be set on Module V & VI)	(2/4)	(10)
	b) Give form and function labels to the underlined phrases.	(4/6)	(4)
Q.3	a) Write short notes (To be set on Module VII)	(2/3)	(10)
	b) Identify the subordinate clauses and state their form and function.	(4/6)	(4)
Q. 4.	Do as directed. (to be set on Module VIII)	(4/6)	(4)

EQUIVALENCE

OLD TITLE	NEW TITLE
THE STRUCTURE AND FUNCTION OF MODERN ENGLISH	LANGUAGE AND LINGUISTICS

SHIVAJI UNIVERSITY, KOLHAPUR



Revised Syllabus for
Bachelor of Arts (Part- III)

SEMESTER V & VI
HISTORY

(Syllabus to be implemented from June 2020 onwards)

EQUIVALANCE OF B.A. III HISTORY SEMESTER- V

Semester	Paper No	Title of Old Paper (June 2015)	Semester	Course No	Title of New Course (June 2020)
V	Paper No. VII	History of Ancient India (From Prehistory to 3rd c. BC)	V	Course No. VII	Early India (from beginning to 4th c. BC)
V	Paper No. VIII	Political History of Medieval India (1206 to 1707 A.D.)	V	Course No. VIII	History of Medieval India (1206-1526 AD)
V	Paper No. IX	India Since Independence –I	V	Course No. IX	Age of Revolutions
V	Paper No. X	History of the Marathas (1707-1818)	V	Course No. X	Political History of the Marathas
V	Paper No. XI	Introduction to Historiography	V	Course No. XI	History: Its Theory

EQUIVALANCE OF B.A. III HISTORY SEMESTER VI

Semester	Course No	Title of Old Paper	Semester	Course No	Title of New Course
VI	Paper No. XII	History of Ancient India (From 3 c. BC to 7th c. AD)	VI	Course No. XII	Ancient India (From 4th c. BC to 7th c. AD)
VI	Paper No. XIII	Socio-Economic and Cultural History of Medieval India (1206 to 1707 A.D.)	VI	Course No. XIII	History of Medieval India (1526-1707 AD)
VI	Paper No. XIV	India Since independence- II	VI	Course No. XIV	Making of the Modern World (16th to 19th Century)
VI	Paper No. XV	Modern Maharashtra (1960 to 2000)	VI	Course No. XV	Polity, Economy and Society under the Marathas
VI	Paper No. XVI	Applications of History	VI	Course No. XVI	Methods and Applications of History

STRUCTURE OF PROGRAMME
REVISED SYLLABUS B.A. PART III (HISTORY)

Sr.No	Semester	Title of Course	Course No.	Credit	Workload	Total Credits	Theory Marks	Term Work/ Seminar
1	V	Early India (from beginning to 4th c. BC)	Course No. VII	04	4 lectures/ Week	20 Credits	40	10
2	V	History of Medieval India (1206-1526 AD)	Course No. VIII	04	4 lectures/ Week		40	10
3	V	Age of Revolutions	Course No. IX	04	4 lectures/ Week		40	10
4	V	Political History of the Marathas	Course No. X	04	4 lectures/ Week		40	10
5	V	History: Its Theory	Course No. XI	04	4 lectures/ Week		40	10
Sr.No	Semester	Title of Course	Course No.	Credit	Workload	Total Credits	Theory Marks	Term Work/ Group Project
6	VI	Ancient India (From 4th c. BC to 7th c. AD)	Course No. XII	04	4 lectures/ Week	20 Credits	40	10
7	VI	History of Medieval India (1526-1707 AD)	Course No. XIII	04	4 lectures/ Week		40	10
8	VI	Making of the Modern World (16th to 19th Century)	Course No. XIV	04	4 lectures/ Week		40	10
9	VI	Polity, Economy and Society under the Marathas	Course No. XV	04	4 lectures/ Week		40	10
10	VI	Methods and Applications of History	Course No. XVI	04	4 lectures/ Week		40	10

SEMESTER VI

B.A. Part III

Semester VI, Course No. XII DSE E-186

Ancient India (From 4th c. BC to 7th c. AD)

Course Objectives: This course explores the history of India from the 4th century BC to the 7th century A.D. It takes a panoramic survey of the historical developments during this crucial period of Indian history. The course studies the eventful changes which took place under the Satavhana, Kushanas, Guptas, Vakatakas, Chalukyas and Pallavas. The students will be introduced to the incomparably vivid picture of India which prevailed during the ancient period. They will be acquainted with not only the glory of Ancient India but also the social inequality and social evils which have shaped India in the past.

Course Outcomes:

After studying the course the student will be able to...

- 1) Know the political, economic and religious developments which took place in early historic India
- 2) Explain the role played by Major Satavahana, Kushana, Gupta and Vakataka Kings
- 3) Give an account of the developments in the Post-Gupta period
- 4) Have an informed opinion about the society and culture of Ancient India

Module I: Early Historic India

- a) Sources: Gatha Saptashati, Periplus of the Erythraean Sea
- b) Major Kings: Satavahana and Kushanas
- c) Industry and Trade
- d) Hinayana Buddhism

Module II: The Classical Age

- a) Major Kings: Guptas and Vakatakas
- b) Economy and Greater India
- c) Literature and Science
- d) Religion

Module III: The Post-Gupta Period

- a) Source: Hiuen Tsang
- b) North India: Harshavardhana
- c) Deccan: Early Chalukyas of Badami
- d) South India: Pallavas

Module IV: Society and Culture

- a) Position of Women and Varna Structure (From Vedic period to Post-Gupta period)
- b) Education
- c) Art (From Mesolithic Art to Ajanta Paintings)
- d) Architecture- (Rock-Cut Caves (Maharashtra) to Constructed Temples (Madhya Pradesh))

Select Reference Books :

- Jha, D. N. (1977): Ancient India: an introductory outline: People's Pub. House.
- Kosambi, D. D. (1975): An Introduction to the Study of Indian History: Popular Prakashan.
- Majumdar, R. C.; Bharatiya Vidya Bhavan; Bhāratīya Itihāsa Samiti (1951): The History and Culture of the Indian People: The Vedic age: G. Allen & Unwin (The History and Culture of the Indian People).
- Sharma, R. S. (1991): Aspects of Political Ideas and Institutions in Ancient India: Motilal Banarsidass.
- Sharma, R. S. (2006): India's Ancient Past: OUP India.
- Sharma, R. S. (2007): Material Culture and Social Formations in Ancient India: Macmillan India.
- Sharma, R. S.; Kumar, D. (2018): Bharat Ka Prachin Itihas: Oxford University Press India.
- Singh, U. (2009): A History of Ancient and Early Medieval India: From the Stone Age to the 12th Century (PB): Pearson India.
- Thapar, R. (2004): Early India: From the Origins to AD 1300: University of California Press.
- Majumdar, R. C.; Altekar, A. S. (1986): Vakataka - Gupta Age Circa 200-550 A.D: Motilal Banarsidass (History and Culture Series).
- Munshi, K. M.; Majumdar, R. C. (1997): The Classical Age: Bharatiya Vidya Bhavan (History and culture of the Indian people / General ed.: R.C. Majumdar).
- Sastri, K.A.N. (1958): A history of South India from prehistoric times to the fall of Vijayanagar: Oxford University Press.
- मोतीचंद्र, सार्थवाह, साहित्य अकादमी, नवी दिल्ली , २०१०
- कोसंबी डी. डी., प्राचीन भारतीय संस्कृती आणि सभ्यता , ICHR, डायमंड प्रकाशन, २००६
- थापर रोमिला, अर्ली इंडिया, के सागर पब्लिकेशन, पुणे, २०१३
- थापर रोमिला दी पेंग्वीन हिस्टरी ऑफ अर्ली इंडिया, के सागर पब्लिकेशन्स, पुणे, २०१८
- वासंती फडके (अनु.), एंशंट इंडिया (प्राचीन भारत) मूळ लेखक शर्मा आर.एस., के सागर पब्लिकेशन, पुणे, २०१५

B.A. Part III
Semester VI, Course No. XIII DSE E-187
History of Medieval India (1526-1707 AD)

Course Objectives : This course explores the history of the Mughal period in India. The Mughals introduced fundamental changes in the polity, economy, society, culture and religion of India. The Bahamani kingdom in the Deccan also split up into five smaller kingdoms during this period. In the course the students will be introduced to the important events, personalities and developments in India. They will know the policies followed by important rulers and will acquaint themselves with the general scenario prevalent in India during the period. They will understand how a syncretic culture developed in India during the period.

Course Outcomes:

After studying the course the student will be able to...

- 1) Know about the various sources for writing Medieval Indian history
- 2) Explain the role of rulers like Babar, Akbar, Chandbibbi and Ibrahim Adilshah II
- 3) Gain knowledge about the administrative and revenue system
- 4) Describe the condition of Industry and trade
- 5) Explain important developments in religion, society and culture

Module I: Sources

- a) Literary: Akbarnama, Gulshan -i -Ibrahimi
- b) Archaeological (excluding monuments)
- c) Accounts of Foreign Travelers: Francois Bernier, Niccolo Manucci

Module II - Major Rulers

- a) Babar: Battle of Panipat and foundation of Mughal empire.
- b) Akbar: Rajput policy
- c) Chandbibbi
- d) Ibrahim Adilshah II

Module III- Administration and Economy

- a) Administration: Central and Provincial
- b) Land Revenue: Akbar and Malik Ambar
- c) Industry and Trade

Module IV: Religion, Society and Culture

- a) Religious Policy: Akbar and Aurangzeb
- b) Society: Hindu and Muslim
- c) Architecture: Mughal and Adilshahi

Select Reference Books:

- Rizvi, S.A.A., The Wonder that was India, Part II, Rupa, Delhi, 2002
- Chitnis, K.N., Glimpses of Medieval Indian Ideas and Institutions, 1974
- Chitnis K. N. Socio- Economic Aspects of Medieval India, Poona, 1979

- Mehta, Jaswant Lal, Advanced Study in the History of Medieval India, Volume I to III, Sterling, New Delhi, 1981.
- Qureshi I.H., The Administration of the Moghal Empire, Delhi, Low Price, Publication 1990
- Raychaudhuri Tapan and Irfan Habib (eds.), Cambridge Economic History of India, Vol. I. C. 1200 C. 1750., Delhi, S. Chand, 1984
- J.F. Richards, The Mughal Empire, Delhi Foundation Books, 1993.
- Satish Chandra, History of Medieval India (800- 1700), Orient Longman, Hyderabad, 2007
- जे. एल. मेहता, क्षीरसागर वि. एस, देशपांडे व्ही. टी, मध्ययुगीन भारताचा बृहत् इतिहास , तीन खंड, के' सागर पब्लिकेशन्स, पुणे, २०१७
- Stein, Burton, Vijayanagara , Cambridge University Press, 1989
- M. P. Patil, Court Life under the Vijaynagar Rulers, B.R. Publishing Corporation, 1999
- सतीश चंद्र , वि. एस. क्षीरसागर, मध्ययुगीन भारत – मोगल साम्राज्य १५२६- १७४८, के सागर पब्लिकेशन्स, २०१७
- Salma Ahmed Farooqui, A Comprehensive History of Medieval India, Pearson, 2011.
- के. एन चिटणीस: मध्ययुगीन भारतीय संकल्पना व संस्था, खंड १ ते ४, पुणे, १९८२
- श. गो. कोलरकर: मध्ययुगीन भारताचा इतिहास (१२०६ ते १७०७) , श्री मंगेश प्रकाशन , १९९४
- बारगळ व ढवळे, मध्यकालीन भारत , विद्याप्रकाशन, नागपूर, १९८७
- डब्ल्यू. एच. मूरलॅन्ड, अबकार कालीन हिंदुस्थान , ICHR, डायमंड प्रकाशन, पुणे, २००६
- डब्ल्यू. एच. मूरलॅन्ड, अबकार ते औरंगजेब, ICHR, डायमंड प्रकाशन, पुणे, २००६
- एन. ए. सिद्दिकी, मोगलकालीन महसूल पद्धती, ICHR, डायमंड प्रकाशन, पुणे , २००६
- जदूनाथ सरकार, औरंगजेब, डायमंड प्रकाशन, पुणे, २००६

B.A. Part III
Semester VI , Course No: XIV. DSE E-188
Making of the Modern World (16th to 19th Century)

Course Objectives: This course deals with significant events in global history. The primary objective of the course is to introduce the students to the important events which have happened in the world in modern times. These events which were revolutionary in character had a profound impact on the making of the modern world. The students will be acquainted with the events of the Glorious revolution in England. They will understand the causes for the rise and spread of Nationalism and Imperialism. Moreover, they will know about some select important personalities who contributed to the making of the Modern World.

Course Outcomes:

After studying the course the student will be able to...

- 1) Know the causes and consequences of the Glorious revolution in England
- 2) Explain the concept of Nationalism and account for its rise and spread.
- 3) Describe the unification of Italy and Germany.
- 4) Give an account of the rise, growth and impact of Imperialism
- 5) Explain the significance of the Partition of Africa
- 6) Know the life and thoughts of important leaders like Metternich, Karl Marx and Abraham Lincoln

Module I: Glorious Revolution

- a) Causes
- b) Major events
- c) Consequences

Module II: Nationalism

- a) Causes for the rise and spread of Nationalism
- b) Unification of Italy and Germany
- c) Impact

Module III : Imperialism

- a) Causes for rise and growth of Imperialism
- b) Partition of Africa
- c) Impact on the world

Module IV: Important Personalities

- a) Metternich
- b) Karl Marx
- c) Abraham Lincoln

Select Reference books:

- Arun Bhattacharjee, World Revolutions, Ashish Publishing House, New Delhi, 1988
- L. Mukherjee, A Study of Modern Europe and the World, Calcutta, 2011
- David Thompson, Europe Since Napoleon, Penguin books, 1971
- T.C.W. Blanning, The Oxford History of Modern Europe, OUP, 2000

- C.J.H. Hayes, Modern Europe to 1870 , Macmillan, University of Michigan, 1953
- Desmond Seward, Metternich: The First European, Thistle Publishing, 2015
- मदन मारडीकर, आधुनिक युरोपचा इतिहास इ.स. १७८१ ते १९४५, विद्या बुक्स, २००५
- लिमये, स्मिता, अब्राहम लिंकन: दास्यमुक्तिचा देवदूत, निधीगंधा बुक एजन्सी; नागपूर, २०१७
- कारखानीस सरला, कार्ल मार्क्स चरित्र आणि विचार, जयंत एस भट, १९६०
- बापट राम, कार्ल मार्क्सचा विचार, परामर्श प्रकाशन, १९८४

B.A. Part III
Semester VI, Course No. XV DSE E-189
Polity, Economy and Society under the Marathas

Course Objectives : The objective of the course is to explore the nature of the Maratha polity. It will acquaint the students with the economic and social condition prevalent under Maratha rule. The course will also introduce the students to the sources of Maratha history.

Course Outcomes:

After studying the course the student will be able to...

- 1) Know the various sources for writing the history of the Marathas
- 2) Explain the significant developments in the polity of the Marathas
- 3) Describe the economic conditions
- 4) Explain the social conditions.

Module I: Sources

- a. Importance of sources
- b. Indian Sources: Sanskrit, Marathi, Persian
- c. Foreign sources : Portuguese and English

Module II: Polity under the Marathas

- a. Concept of Kingship
- b. Asthpradhan Mandal
- c. Transfer of power – Chhatrapati to Peshwa, Peshwa to Karbhari

Module III: Economic condition

- a. Agrarian system – Land Revenue, Irrigation
- b. Industry
- c. Trade and Commerce

Module IV: Social condition

- a. Social Structure - Family , Untouchability, Vethbegar , Slavery.
- b. Condition of women and caste system
- c. Education and Festivals

Select Reference books :

- शेणोलीकर ह.श्री. महाराष्ट्र संस्कृती : घडण आणि विकास, मोघे प्रकाशन, कोल्हापूर, १९७२
- भावे. व. कृ. : शिवराज्य व शिवकाल, भावे प्रकाशन, पुणे, १९५९
- अत्रे. त्र्यं. ना. गाववाडा, राजहंस प्रकाशन प्रा लि., पुणे, २०१८
- वि. गो. खोबरेकर , महाराष्ट्रातील दप्तरखाने: वर्णन आणि तंत्र, १९६८
- कुलकर्णी अ. रा. : शिवकालीन महाराष्ट्र, १९९३ आवृत्ती

- गवळी पा. आ. : पेशवेकालीन समाज व जातीय संगर्ष, १९८२
- गवळी पा. आ., पेशवेकालीन गुलामगिरी व अस्पृश्यता, १९८१
- ओतुरकर, आर्. व्ही., पेशवेकालीन सामाजिक व आर्थिक जीवन, खंड १, भा. इ. सं. मं. , १९५०
- गवळी, पा. आ., पेशवेकालीन गुलामगिरी व अस्पृश्यता, प्राची प्रकाशन, कोल्हापूर, १९९०
- गवळी, पा. आ., पेशवेकालीन महाराष्ट्र-संस्था व संकल्पना, कैलास पब्लिकेशन्स औरंगाबाद, २०००
- चापेकर, ना. गो., पेशवाईच्या सावलीत, पुणे, १९३७
- जोशी, एस्. एन्., मराठेकालीन समाजदर्शन, अ. वि. गृह प्रकाशन, पुणे, १९६०
- हेरवाडकर, आर्. व्ही., मराठी बखर, व्हीनस प्रकाशन, मुंबई, १९८६
- Chitnis, K. N., Glimpses of Medieval Indian Ideas and Institutions, 2nd ed., Pune, 1981
- Chitnis, K. N., Glimpses of Maratha Socio-Economic History, Atlanta Polishers, New Delhi, 1994
- Choksey, R. D., Economics Life in Bombay Deccan, Asia Publishing House, Mumbai 1955
- Desai, S.V., Social Life in Maharashtra under the Peshwas, Popular Prakashan, Bombay, 1962
- Duff, Grant., A History of Mahrattas, Vol. I to III, Oxford University Press, Calcutta, 3rd ed., 1921
- Gune, V. T., The Judicial System of the Marathas, Deccan College, Pune, 1953
- Kulkarni, A. R., Maharashtra in the Age of Shivaji (A Study in Economic History), Pune, 1969.
- Mahajan, T. T., Industry, Trade and Commerce during the Peshwa period, Jaipur, 1980
- Kadam V.S. Maratha Confederacy: A study in its origin and development, Munshiram Manoharlal Publishers Pvt Limited , 1993
- Fukazawa, H – The Medieval Deccan: Peasants, Social Systems and States Sixteenth to Eighteenth Centuries, OUP, New Delhi, 1999

B.A. Part III
Semester VI , Course No. XVI DSE E-190
Methods and Applications of History

Course Objectives: This course has been designed to impart knowledge of the methods of history to the students. The students will understand the nature of archival sources. They will be introduced to the trends of local and oral history and will know about the tools of local history like Survey, Interview and Questionnaire. The students will be introduced to the technique of collecting data through oral interviews. The students will understand the concept of the museum and learn the basic principles of museology. Moreover, the course will introduce the students to the relevance of monumental heritage and its relationship with the discipline of history through the concept of Heritage Tourism

Course Outcomes:

After studying the course the student will be able to...

- 1) Understand the nature of archival sources
- 2) Gain conceptual clarity about recent trends in history.
- 3) Know about the application of history in museums.
- 4) Explain the concept and scope of heritage tourism.

(Note: The students should undertake Individual/ Group field projects for assignments in which they could take oral interviews / surveys/ regarding persons, events and local socio-political, economic and cultural developments related to local history. They should make audio recordings of the interviews and develop an archive of local oral history in the college department. These audio interviews would form an important source of local history)

Module I: Archival Sources

- a) Meaning, types, and importance of Archives
- b) Types of Records
- c) Concept of Digital Archives

Module II: Recent Trends in History

- a) Local History
- b) Oral History
- c) Tools of Local History (Survey, Interview, Questionnaire)
- d) Interview Technique

Module III: Museology

- a) Definition, Nature and Importance of Museum
- b) Types of Museums
- c) Methods of Collection, Conservation and Preservation Techniques of Objects

Module IV -Understanding Heritage Tourism

- a) Concept, Scope and Significance of Heritage Tourism
- b) Meaning and Historical Perspective of Tourism
- c) World Heritage Sites in India

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- सरदेसाई, बी. एन., इतिहासलेखनपद्धती, फडके प्रकाशन, कोल्हापूर, २००४
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- देशमुख, प्रशांत., इतिहासाचे तत्त्वज्ञान, विद्या बुक्स पब्लिशर्स, औरंगाबाद, २००५
- बेंद्रे, वा. सी., शिवशाहीचा चर्चात्मक इतिहास: साधन चिकित्सा, लोकवाङ्मय गृह, मुंबई, १९७६
- आठवले, सदाशिव., इतिहासाचे तत्त्वज्ञान, प्राज्ञपाठशाला, वाई, १९६७
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- राऊत, गणेश (संप), दत्तक गावांचा इतिहास, खंड १, २, ३, पुणे विद्यापीठ, पुणे, १९९९
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REVISED SYLLABUS OF B. A. III SOCIOLOGY

Choice Based Credit System (CBCS)

Semester – VI, DSE – E191 SOCIOLOGY – XII

INDIAN SOCIOLOGICAL THINKERS

(June 2020 onwards)

A) Course Objectives

Objective of teaching Indian Sociological Thinkers to undergraduate students is to enable them to apply theory to their own Indian Social life experiences. This requires that students develop their sociological imagination and the capacity to read each situation sociologically and then to think about it theoretically. To this end, it is imperative that sociological theory courses demonstrate the

applicability of theory to students.

B) Learning Outcomes:

1. Understanding the characteristics and dynamics of the social world, and how postclassical sociologists attempt to understand the social world.
2. Appreciating the relevance and limits of the contemporary theories or theoretical approaches to make sense of social reality.
3. Understanding the basic methodological approaches of the thinkers, through some original texts and their role in building sociological knowledge.

C) Course Content:

Module	Topic and Sub-Topic	Teaching Hours	Credits
Module -I	G.S.GHURYE A) Ideas on National Unity and Interaction B) Study on Caste C) Study on Indian Tribes	15	1
Module -II	A.R.DESAI A) Study of Village Structure in India B) Study of Indian Nationalism C) Analysis of Indian Society through Marxian Perspective	15	1

Module -III	M. N. SRINIVAS A) Concept of Sanskritization B) Concept of Westernization C) Concept of Dominant Caste	15	1
Module -IV	IRAWATI KARVE A) Concept of Kinship Relations B) Hindu Culture: An Interpretation C) Views on Maharashtra	15	1

D)Teaching learning process:

The students are encouraged to read the original texts and the teacher often participates in the reading process. Thereby the teacher engages in active, rather than passive, pedagogy.

It is important that the classroom sessions, initiated either by the student or the teacher, would encourage teamwork or draw students towards learning, yet there are other means available now which add to that. The use of digital/ICT generated techniques (audio-visual aids).

E)Assessment Methods:

1. Class assignments/term papers, theme(s) of which are chosen following teacherstudent discussion, is one of the ways of assessing the subject and writing skill of the students.
2. Tutorial discussion oral presentations and viva-voce, short individual/team led field studies/**projects** and seminars/workshops are other modes of assessment. These are included in the Internal Assessment (IA) system.
3. Mid-semester examination is another mode of assessment. Here again, the topic(s) on which the students are to be examined are chosen through teacher-student consultation. Mid-semester examination tests the students on the grasp of the topic(s) in particular and the discipline ingeneral.
4. The end-semester examination is conducted by the university and the student is tested and evaluated on the basis of the entire paper (syllabus). S/he is expected to have a full knowledge of the paper and prescribed readings.

NOTE: Visit to University Library

F) REFERENCES:

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2. V.S.Upadhyay and Gaya Pandey 'History of Anthropological Thought'
3. Narendra K. Singh 'Theory and Ideology in Indian Sociology'
4. T. K. Ommen and P.N. Mukharjee 'Indian Society: Reflections and Introspections'
5. A.R. Desai 'Social Background Of Indian Nationalism'
6. A.R. Desai 'Rural India In Transition'
7. T. N. Madan 'Western Sociologists on Indian Society'
8. Yogendra Singh 'Indian Sociology : Social Conditioning and Emerging Concerns'
9. S.K. Pramanik 'Sociology of G.S. Ghurye'
10. Devdas Pillai 'Indian Sociology Through Ghurye : A Dictionary'
11. A.R. Momin 'The Legacy Of G.S. Ghurye'
12. M.N. Srinivas 'Social Change In Modern India'

REVISED SYLLABUS OF B. A. III SOCIOLOGY

Choice Based Credit System (CBCS)

Semester – VI, DSE – E192 SOCIOLOGY – XIII

METHODS OF SOCIAL RESEARCH (Part-II)

(June, 2020 onwards)

A) Course Objectives

1. The course provides an introductory, yet comprehensive engagement with social research.
2. Through theoretical and practical knowledge students are acquainted with the different stages of the research process like creation of research design, methods of data collection and analysis.
3. The imparted knowledge and training will enable students to develop a sound understanding of both quantitative and qualitative research.

B) Course Learning Outcomes:

1. Students are introduced to the concept of conducting research, which is inclusive of formulating research designs, methods and analysis of data. Some knowledge of elementary statistics is also provided to the students to acquaint them with quantification of data.
 2. The thrust of the course is on empirical reasoning, understanding and analysis of social reality, which is integral to the concepts of quantitative research. Students learn to differentiate between qualitative and quantitative aspects of research in terms of collection and subsequent analysis of data.
 3. Through the competing theoretical perspectives and methodologies, students are able to understand that social reality is multi-faceted, heterogeneous and dynamic in nature.
 4. By imparting the knowledge of theory and praxis of research, students are prepared to arrive at a critical understanding of the course. It also equips them with necessary skills for employment in any social research organization.
3. Periodic tests/mid-semester examination of the covered syllabus is also undertaken by the students during the academic session. End-semester examination is conducted by the University of Shivaji.

C) Course Content:

Module	Topic and Sub- Topic	Teaching Hours	Credits
Module -1	Sampling and Data collection a. Meaning and Purpose of Sampling b. Types of sampling c. Advantages and Limitation of Sampling d. Primary and secondary Data collection	15	01
Module -2	Observation a. Observation: Meaning and characteristics b. Types of Observation c. Advantages and limitations of observation	15	01

Module -3	Interview and Questionnaire a. Interview-meaning and Types b. Advantages and limitations of interview c. Questionnaire- meaning and Types d. Advantages and limitations of Questionnaire	15	01
Module -4	Data Analysis and Report Writing a. Use of computer in data analysis b. Statistical methods c. Report Writing	15	01

D) Teaching-Learning Process:

1. Classroom lectures interlink the sociological theories previously taught with the methods and techniques of data collection. Students are encouraged to construct questionnaires and conduct interviews, use technology like online surveys to develop practical research skills.
2. The use of statistics enables the students to understand both qualitative and quantitative aspects of social research.
3. Alternative pedagogical techniques like outdoor learning through field trips and research projects, audio-visual technology in classrooms provides them with both research related knowledge and experience.

E) Assessment Methods:

1. Tutorials are given regularly to students after the completion of a topic. The objective is to assess the understanding of the student regarding the covered topic.
2. Students are expected to submit individual/team project reports, along with making oral presentations of the same in class.

**NOTE: Organise Guest Lecture/Seminar on Social Research
Methodology**

F)Books for References:

- Ahuja Ram:** Research Methods, Rawat Publication, Jaipur 2015
- Ghosh B.N.:** Scientific Methods and Social Research, Sterling Publishers, New Delhi, 1982
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संदर्भा साठी ग्रंथ (मराठी)

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२०१५

REVISED SYLLABUS OF B. A. III SOCIOLOGY

Choice Based Credit System (CBCS)

Semester – VI, DSE – E193 SOCIOLOGY – XIV

SOCIAL ANTHROPOLOGY

(June, 2020 onwards)

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1. To provide the conceptual understanding about anthropology
 2. To understand the social aspects of tribal's in India.

	Topic	Teaching Hours	Credits
Model - I	INTRODUCTION TO SOCIAL ANTHROPOLOGY A) Social Anthropology: Meaning and Characteristics B) Relation Between Social Anthropology and Sociology C) Field work Method and its Characteristics D) Importance of Social Anthropology	15	1
Model – II	TRIBAL SOCIETY IN INDIA A) Tribal Society : meaning and Characteristics B) Social life : Family ,and Marriage - Characteristics C) Economic Life : Characteristics D) Religious Life : Beliefs and practices	15	1
Model – III	TRIBAL PROBLEMS A) Poverty and Indebtedness B) Land Alienation C) Illiteracy and Exploitation D) Religious Crisis	15	1
Model - IV	Tribal Community in Maharashtra: Pardhi A) Socio-Cultural life : Tradition and Change B) Economic life : Tradition and Change C) Religious life : Tradition and Change D) Social Movements for Development of Pardhi Community	15	1

NOTE: Visit to Any Tribal and Nomadic Tribe Community

REFERENCE:-

Vidyarthi L.P. Tribal Culture of India, Concept Publishers, New Delhi, 1976.
E.E. Evans Pritchard Social Anthropology and Other Essays, The free Press, New York, 1962.
Mujumdar D.N. and Madam T.N An Introduction to Social Anthropology, Asia Publishing House, Bombay, 1973.
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नाडगोडे गुरुनाथ भारतीय आदिवासी, कॉन्टिनेंटल प्रकाशन, पुणे, १९९८
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K. S. Tribal Situation in India, Indian Institute of Advanced Study, Simla, 1972.
S.L. Doshi & P. C. Jain
Social Anthropology Rawat Publication, 2001.
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Pune. 2006 (Marathi)

Journals:

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iii) Man in India (Ranchi)
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v) Human Ecology : Journal of manenvironmental relationship Kamalraj,
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REVISED SYLLABUS OF B. A. III SOCIOLOGY

Choice Based Credit System (CBCS)

Semester – VI, DSE – E194 SOCIOLOGY – XV

RURAL SOCIOLOGY

(June, 2020 onwards)

A) Course Objectives:

1. To communicate Agriculture as the foundational material practices at the heart of the formation of social collectivities and make sense of South Asian societies agrarian formations.
2. To familiarize students with rural situation past and present with the help of necessary theories and categories.
3. To make sense of rural communities, their structure, transformation and trials and tribulations in modern world.
4. To introduce students to the rich legacy of theoretical and empirical work in rural sociology and its continued relevance.

A) Course Learning Outcomes:

1. An empathy for and ability to engage rural communities as living societies and understand grasp they condition as human condition.
2. An appreciation of rural world and familiarity with the trajectory of theoretical conversation on rural issues and their social, political and policy implications.
3. An understating of emerging as well as enduring issues of concern in Indian rural society
4. To be ready for a range of academic and professional roles that may require a knowledge of rural societies.

C) Course Content:

Module	Topic and Sub- Topic	Teaching Hours	Credits
Module -1	Introduction to Rural Sociology A) Meaning of Rural Sociology B) Origin, Scope and Subject Matter of Rural Sociology C) Importance of Rural Sociology with the reference of India	15	01
Module-2	Indian Rural Community A) Village studies in India B) Classification of Indian Villages C) Changing Nature of Rural Community in India	15	01

Module -3	Social Institutions in Rural Society A) Marriage, Family and kinship Institution B) Caste and Balutedari C) Political life : structure and change	15	01
Module-4	Changing Indian Agrarian Society A) Rural Cooperative and Rural Industry B) Markets, Land Reforms and Green Revolution C) The Agrarian Issues	15	01

D) Teaching Learning Process:

The teaching learning for this course involves lectures, tutorial conversations around contemporary issues of concern for agrarian societies and extensive usage of imaginative literature and films that makes the lived world of peasantry and rural communities come alive to the students.

E) Assessment Methods:

Recommended evaluation would be an assignment that tests the conceptual grasp of the students and a **project** that prompts students to engage in research about a historical or contemporarily rural issue.

NOTE: Visit to village and Grampanchayat and Understand its Structure and Rural Development Programs

F) References:(English)

Beteille Andre: Caste, Class and Power, Oxford University press, (India), New Delhi, (2012).

Beteille Andre: 'The Study of Agrarian Systems: An Anthropological Approach', from Marxism and Class Analysis, New Delhi: Oxford. 2007.

Bandopadhyay : 'Reflections on Land Reform in India since Independence' from T. V. Satyamurthy (Ed.) Industry and Agriculture in India Since Independence, Delhi: Oxford University Press.

Desai A.R.: Rural Sociology in India Popular Prakashan, Bombai, (1969 reprint 2009) .

Dhanagare, D. N.: 'Green Revolution and Social Inequalities in Rural India' from, Economic and Political Weekly, Vol. 22, No. 19/21, Annual Number (May, 1987),

Dube SC: Indian Village, Routledge, New York, (Second edition 2018)

Mukherjee Ramkrishna: The Dynamics of a Rural Society, Akademie -Verlag, Berlin, (1957)

Oommen T.K.: Green Revolution and Agrarian Conflicts, Economics and Political weekly, Vol.-6, Issue-26 (1971)

Shah, A.M.: Changes in the Indian Family: An Examination of Some Assumptions', in The Family in India: Critical Essays, New Delhi: Orient Longman (1998)

Srinivas M.N.: India: Social Structure, Hindustan Publishing Corporation, Delhi (1980)

मराठी ग्रंथ

जयपूर (२००९).

REVISED SYLLABUS OF B. A. III SOCIOLOGY

Choice Based Credit System (CBCS)

Semester – VI, DSE – E195 SOCIOLOGY – XVI

URBAN SOCIOLOGY

(June,2020 onwards)

A)Course Objectives:

1. Urbanization is an important aspect of modern society. This course is will provide an Exposure to key theoretical perspectives for understanding urban phenomena in historical and contemporary contexts.
2. It also reflects on vital concerns of urban living while narrating the subjective experiences of urban communities. With case studies from India and other parts of the world this course will help students understand and relate to the complexities of urban living.
3. The course seeks to evolve critical thinking and develop a policy perspective on the urban.

B)Course Learning Outcomes:

1. To appreciate the significance of the city and the process of urbanization and its Consequences across the globe, through cross disciplinary texts and ethnographic studies.
2. To understand the urban in the historical as well as modern contexts - the idea of Urbanism and urban space and the intersections in these of institutions, processes and Identities. This is to be achieved by exposing students to critical theoretical debates which help them to gain a deeper understanding of city life and urban environment which can Also help them understand their own social environment better.
3. To learn about key urban processes such as migration, displacement and urban slums, as

Well as critical contemporary issues such as resettlement and rehabilitation and also engage in issues of public policy, urban transformation and change. Knowledge of such Themes will help students pursue further studies in academic areas such as development and also engage in research on public policy, urban transformation and change.

4. To develop critical thinking and a reflective perspective through exposure to multicultural Thought; to enhance disciplinary knowledge, research-related skills and develop a problem-solving competence.

C) Course Content:

Module	Topic and Sub- Topic	Teaching Hours	Credits
Module I	Introduction to Urban Sociology A) Definition, Meaning & Nature of Urban Sociology. B) Subject Matter of Urban Sociology. C) Importance of the Study of Urban Sociology	15	01
Module II	Major Concepts in Urban Sociology. A)Urban Community. B)Urbanism. C)Rural- Urban differences- continuum	15	01
Module III	Process of Urbanization A) Meaning and Nature of Urbanization	15	01

	<p>B) Causes of Urbanization.</p> <p>C) Consequences of Urbanization</p>		
Module IV	<p>Urban Social Structure.</p> <p>A) Urban Family : Characteristics and Change</p> <p>B) Urban Social stratification: Caste & Class.</p> <p>C) Urban Occupations: Characteristics and Change</p>	15	01

D) Teaching Learning Process:

The sociology of the urban is simultaneously theoretical and yet deeply experiential. The teaching learning for this course necessarily has to be deliberative, drawing from the multicultural exposure to city living. There will be an emphasis on blended learning supported by debates and discussions. Classroom lectures shall be supplemented by power point presentations and film screenings on various contemporary urban issues. Invited lectures by policy makers, activists, practitioners and other stake holders would be integral to the curriculum. Students would be encouraged to set out into the field to grasp issues with greater clarity. City walks will be encouraged to enrich the experiential understanding of the urban. Learning would also involve a multi-disciplinary perspective, collaborating with other social sciences that engage with the urban as well as the disciplines of urban planning and architecture, in order to enhance problem solving and critical thinking ability.

E) Assessment Methods:

Assessment for this paper would be in the form of tests, written assignments, projects' reports and presentations.

F) Key Words:

Urban, Urbanism, Urbanisation, City, Migration, Settlement, Space, Ecology.

NOTE: 1) Visit to any Slum Area in City and Understand their Problems

2) Visit to any City and Observe its Ecosystem

G) References:-

1. Wilson R.A & Schlutz David : Urban Sociology, Prentice Hall, England, 1978
2. Rao M.S.A. : Urban Sociology in India, Orient Longman
New Delhi, 1974.
3. D Souza Alfred : The Indian city: Poverty Ecology and Urban
Development, Manohar, New Delhi, 1978.
4. Dube K.K. and Singh A.K. : Urban Environment in India, Inter India, New Delhi
1980.
5. Mitra, Ashok et.al. : Indian cities, abhinav, New Delhi, 1980.
6. Berge E.E. : Urban Sociology, Free Press, New York, 1962
7. Bose, Ashish : Studies in India's Urbanisation, Tata McGraw Hill,
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Delhi, 1987.
9. Urban Sociology : Rajendra K. Sharma Atlantic Publishers &
Distributors, New Delhi, 1997
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B.A. Sociology Outcome

Sociology is the most contemporary and versatile of the Social Sciences. It trains students to grasp social structures, understand social processes map the dynamics of social change, decipher social interactions and make sense of individual and collective experiences in their social, historical and cultural context. Sociology is at once critical and constructive; conceptual and applied; theoretical and empirical. It is a science that cohabits comfortably with literary flair, speculative sensibility, historical imagination and statistical rigour. It is incessantly reflexive about its methods, demanding about its research techniques and standards of evidence. Sociology is ever so subtle about the conceptual distinctions it draws and zealous about its disciplinary boundaries and identity. At the same time, sociology is the most open and interdisciplinary of social sciences. The Pursuit of sociology is a systematic effort at recovering, mapping and making sense of our kaleidoscopic collective self under the sign of modernity. It is both historical and comparative. Sociology as an academic discipline is committed to the ideal of generating public knowledge and fostering public reason. It embodies best of enlightenment virtues: scientific reason, tolerance of diversity, humanistic empathy and celebration of democratic ideals. It is the science of our times.

Teaching Learning Process

Multiple pedagogic techniques are used in imparting the knowledge both within and outside the classrooms. Listed below are some such techniques:

- Lectures
- Tutorials
- Power-point presentations
- Project work
- Documentary Films on relevant topics
- Debates, Discussions, Quiz
- Talks /workshops

- Interaction with experts
- Academic festivals
- Classics and other sociologically meaningful films
- Excursions and walks within the city
- Visit to the museums
- Outstation study tours Survey designs
- Internships

A note on Assessment Methods

Besides the formal system of University exams held at the end of each semester as well as mid-semester and class tests that are held regularly, the students are also assessed on the basis of the following:

- Written assignments
- **Projects Reports**
- Presentations
- Participation in class discussions
- Ability to think critically and creatively to solve the problems
- Application of classroom concepts during fieldwork
- Reflexive Thinking
- Engagement with peers
- Participation in extra and co-curricular activities
- Critical assessment of Films /Books etc.

**A note on career trajectories for Sociology Graduates and (for)
Prospective employers:**

Students with a grounding in Sociology have contributed immensely to the following fields :

- Academics
- Bureaucracy
- Social Work
- Law
- Journalism both print and visual
- Management
- Policy Making
- Developmental Issues
- Designing and Conducting surveys
- Human Resource Development
- Competitive Examinations
- Advocacy
- Performing Arts
- Research in contemporary issues of Gender, Development, Health, Urban Studies, Criminology etc.

SHIVAJI UNIVERSITY, KOLHAPUR



Revised syllabus for
Bachelor of Arts (Part – III)

SEMESTER V & VI

ECONOMICS

Syllabus to be implemented from June 2020 onwards

Equivalence B.A.III Economics Sem- V

Sem No.	Paper No.	Title of Old Paper	Sem No.	Discipline	Title of New Paper
V	VII	Micro Economics	V	Economics Course - 7	Principles of Micro Economics- I
V	VIII	Research Methodology in Economics (Part I)	V	Economics Course- 10	Research Methodology in Economics- I
V	IX	History of Economic Thoughts (Part I)	V	Economics Course - 11	History of Economic Thoughts- I
V	X	Economics of Development	V	Economics Course - 8	Economics of Development
V	XI	International Economics (Part I)	V	Economics Course - 9	International Economics- I

Equivalence B.A.III Economics Sem- VI

Sem No.	Paper No.	Title of Old Paper	Sem No.	Economics Course	Title of New Paper
VI	XII	Market and Pricing	VI	Economics Course- 12	Principles of Micro Economics- II
VI	XIII	Research Methodology in Economics (Part II)	VI	Economics Course- 15	Research Methodology in Economics- II
VI	XIV	History of Economic Thoughts (Part II)	VI	Economics Course- 16	History of Economic Thoughts- II
VI	XV	Economics of Planning	VI	Economics Course- 13	Economics of Planning
VI	XVI	International Economics (Part II)	VI	Economics Course- 14	International Economics- II

Structure of Course
Revised syllabus of B.A. Part III (Economics)

Sr. No.	Semester	Title of the Paper	Discipline	Distribution of Credit	Workload	Total Credits	Theory Marks	Term work seminar
1	V	Principles of Micro Economics- I	Economics Course- 7	4	4 Lectures / week	20	40	10
2	V	Economics of Development	Economics Course- 8	4	4 Lectures / week		40	10
3	V	International Economics- I	Economics Course- 9	4	4 Lectures / week		40	10
4	V	Research Methodology in Economics- I	Economics Course- 10	4	4 Lectures / week		40	10
5	V	History of Economic Thoughts- I	Economics Course- 11	4	4 Lectures / week		40	10
Sr. No.	Semester	Title of the Paper	Discipline	Distribution of Credit	Workload	Total Credits	Theory Marks	Term work Group Project
6	VI	Principles of Micro Economics- II	Economics Course- 12	4	4 Lectures / week	20	40	10
7	VI	Economics of Planning	Economics Course- 13	4	4 Lectures / week		40	10
8	VI	International Economics- II	Economics Course- 14	4	4 Lectures / week		40	10
9	VI	Research Methodology in Economics- II	Economics Course- 15	4	4 Lectures / week		40	10
10	VI	History of Economic Thoughts- II	Economics Course- 16	4	4 Lectures / week		40	10

B. A. III Economics (Semester VI) (CBCS Pattern)

Principles of Micro Economics- II

(Elective Course- 12) DSE E 196

Course Outcomes: After successful completion of this course, the students will be able to:

- Identify the market structure
- Analyse the economic behaviour of individual firms and markets
- Analyse a firm's profit maximising strategies under different market conditions
- Understand the factor pricing

Module- I Perfect Competition

(Teaching Hours- 15, Credits- 01)

- 1.1 Meaning and characteristics
- 1.2 price and output determination under perfect competition
- 1.3 Equilibrium of the firm and industry in the short run
- 1.4 Equilibrium of the firm and industry in the long run

Module- II Monopoly

(Teaching Hours- 15, Credits- 01)

- 2.1 Meaning and characteristics
- 2.2 Price discrimination and degrees
- 2.3 Equilibrium of a monopoly firm in the short run and long run
- 2.4 Monopoly and capacity loss

Module- III Imperfect Competition

(Teaching Hours- 15, Credits- 01)

- 3.1 Meaning and characteristics
- 3.2 Price- output determination
- 3.3 Product differentiation
- 3.4 Oligopoly and duopoly- meaning and characteristics

Module- IV Factor Pricing

(Teaching Hours- 15, Credits- 01)

- 4.1 Marginal productivity theory
- 4.2 Modern theory of rent
- 4.3 Classical and Keynesian theory of interest
- 4.4 Risk and uncertainty theory of profit

BASIC READING LIST:

1. Dominic Salvator (2012) – Principles of Micro Economics, 5th edition, Oxford University Press, Oxford.
2. John B. Taylor & Akila Weerapana, (2011) 'Principles of Economics', 7th Edition, Cengage Learning, India, New Delhi.

3. Koutsoyiannis, A. (1979), Modern Microeconomics, 2nd Edition, Macmillan Press, London.
4. Lipsey Richard G., (latest edition), An Introduction to Positive Economics, Weidenfeld & Nicolson, London.
5. Lipsey, R.G. and K.A. Chrystal (latest edition), Principles of Economics (IX Ed.), Oxford University Press, Oxford.
6. Mankiw, N. Gregory (2008), Principles of Microeconomics, 5th Edition, Cengage Learning India, New Delhi.
7. Mansfield, E (latest edition), Microeconomics (9th Ed) W.W. Norton and Company, New York.
8. Pindyek and Rubinfeld (latest edition)- Micro Economics, Pearson Education, New Delhi.
9. Ray, N.C. (latest edition), An introduction to Microeconomics, Macmillan company of India Ltd.
10. Samuelson, P.A. and W.D. Nordaus (latest edition), Economics, Tata McGraw Hill, New Delhi.
11. Stonier, A.W. and D.C. Hague (latest edition), A Textbook of Economic Theory, ELBS and Logman Group, London.
12. Varian, Hall (1992): Microeconomic Analysis, Third Edition, W. W. Norton & Company, Inc, New York.

B. A. III Economics (Semester VI) (CBCS Pattern)

Economics of Planning (Elective Course- 13) DSE – E 197

Course Outcomes: After successful completion of this course, the students will be able to:

- Get acquainted with economic planning and its importance in development
- Get acquainted with development of planning and planning machinery in India
- Evaluate sectoral performance of the Indian economy
- Compare and analyse Indian models of economic development

Module- I: Introduction to economic planning (Teaching Hours- 15, Credits- 01)

- 1.1 Meaning, Case for and against economic planning
- 1.2 Genesis of planning
- 1.3 Types of planning
- 1.4 Conditions of success of planning

Module- II: Issues in economic planning (Teaching Hours- 15, Credits- 01)

- 2.1 The choice of techniques: labour and capital intensive
- 2.2 Capital output ratio: Importance and factors affecting COR
- 2.3 Input output analysis
- 2.4 Project evaluation

Module- III: Planning in India- I (Teaching Hours- 15, Credits- 01)

- 3.1 Evolution of planning in India
- 3.2 Objectives and evaluation of planning
- 3.3 Planning Commission and National Development Council
- 3.4 NITI Ayog- Need for establishment, organization, objectives and work

Module- IV: Planning in India- II (Teaching Hours- 15, Credits- 01)

- 4.1 Plan models in Indian plans
- 4.2 Agricultural development under plans
- 4.3 Industrial development under plans
- 4.4 Services sector development under plans

BASIC READING LIST:

1. Behrman, S. and T.N. Srinivasan (1995), *Handbook of Development Economics*, Vol. 1 to 3, Elsevier, Amsterdam. Economics 31
2. Hayami, Yujiro and Yoshihisa Godo (1997), *Development Economics*, Oxford University Press, New York.
3. Kindleberger, C.P. (1965), *Economic Development*, 3e, McGraw Hill, New York.
4. Meier, Gerald M. and James E. Rauch (2005), *Leading Issues in Economic Development*, 6e, Oxford University Press, New Delhi.
5. Myint, Hla (1971), *Economic Theory and Under Developed Countries*, Oxford University Press, New York.
6. Thirlwall, A.P. (1999), (6th Edition), *Growth and Development*, Macmillan, London.

7. Bhagwati, J. and P. Desai (1970), *India : Planning for Industrialization*, Oxford University Press, London.
8. Brahmananda, P.R. and C.N. Vakil (1956), *Planning for an Expanding Economy*, Vora and Co., Bombay.
9. Puri V. K. And S. K. Misra (2016), *Economics of Development and Planning*, Himalaya Publishing House.
10. Datta Gaurav and Ashwini Mahajan (2016), *Indian Economy*, S. Chand Publishing, New Delhi
11. Chakravarty, Sukhamoy (1987), *Development Planning : The Indian Experience*, Clarendon Press, Oxford.
12. Jhingan, M.L. (2005) *The Economics of Development and Planning* , Vrinda Publications Ltd. Delhi
13. Lekhi, R.K. (2005) *Economics of Development and Planning*, Kalyani Publishers, Delhi.
14. Patil, J. F. (et al) (2005) *Economics of Growth and Development* (Marathi) , Phadake Publishers, Kolhapur.
15. Patil, J.F. & Tamhankar, P.J. (1990) *Economics of Development and Planning* (Marathi), Continental Publishers, Pune.

B. A. III Economics (Semester VI) (CBCS Pattern)

International Economics- II

(Elective Course- 14) DSE – E 198

Course Outcomes: After successful completion of this course, the students will be able to:

- Distinguish between balance of trade and balance of payments
- Analyse the balance of payments
- Understand the various types of foreign capital
- Analyse the impact of international institutions on Indian economy

Module- I: Balance of Trade and Balance of Payments(Teaching Hours- 15, Credits- 01)

- 1.1 Balance of Trade and Balance of Payments
- 1.2 Importance of Balance of Payments
- 1.3 Disequilibrium in Balance of Payments: Causes and Consequences
- 1.4 Measures to correct disequilibrium in Balance of Payments

Module- II: Foreign Trade of India since 1991 (Teaching Hours- 15, Credits- 01)

- 2.1 Volume, composition and direction
- 2.2 Exim Policy of 2014-19
- 2.3 Trade administration of India
- 2.4 Convertibility of Rupee: Meaning and types.

Module- III: Foreign Capital in India (Teaching Hours- 15, Credits- 01)

- 3.1 Need for Foreign Capital
- 3.2 Types of Foreign Capital
- 3.3 Foreign Capital Policy of Government of India
- 3.4 Trends in Foreign Direct Investment in India

Module- IV: International Institutions and India (Teaching Hours- 15, Credits- 01)

- 4.1 IMF: Objectives and Functions
- 4.2 IBRD: Objectives, Functions
- 4.3 ADB: Objectives, Functions
- 4.4 WTO: Objectives, Functions

BASIC READING LIST:

- 1 Aggarwal, M. R. (1979), Regional Economic Cooperation in South Asia, S. Chand and Co., New Delhi.
- 2 Bhagwati, J. (Ed.) (1981), International Trade, Selected Readings, Cambridge University Press, Mass.
- 3 Crockett. A. (1982), International Money: Issue and Analysis, ELBS and Nelson, London.

- 4 Greenaway. D. (1983), International Trade Policy, MacMillan Publishers Ltd., London.
- 5 Heller, H. R. (1968), International Monetary Economics, Prentice Hall. India.
- 6 Joshi V. and I.M.D. Little (1998), India's Economic Reforms, 1999-2001, Oxford
- 7 Kenan, P.B. (1994), The International Economy, Cambridge University Press, London.
- 8 Kindlberger, C. P. (1973), International Economics, R.D. Irwin, Homewood.
- 9 Krugman, P. R. and M. Obstfeld (1994), International Economics: Theory and Policy, Glenview, Foresman.
- 10 Mithani D.M. (Reprint-2009) International Economics, Himalaya Publishing House, New Delhi.
- 11 Nayyar,D. (1976) : India's Exports and Export Policies in the 1960s, Cambridge University Press, Cambridge.
- 12 Panchmukhi, V. R. (1978), Trade Policies of India: A Quantitative Analysis, Concept University Press, Delhi.
- 13 Patel, S. J. (1995), Indian Economy Towards the 21st Century, University Press Ltd., India.
- 14 RuddarDatt& K.P.M. Sundaram, (2018), Indian Economy, S. Chand & Co. Ltd., New Delhi
- 15 Salvatore, D. L. (1997), International Economics, Prentice- Hall, Upper Saddle River, N. J.
- 16 Singh, M. (1964), India Export Trends and the Prospects for Self-sustained Growth, Oxford University Press, Oxford.
- 17 Sodersten, Bo (1991), International Economics, MacMillan Press Ltd. London

B. A. III Economics (Semester VI) (CBCS Pattern)

Research Methodology in Economics- II

(Elective Course- 15) DSE – E - 199

Course Outcomes: After successful completion of this course, the students will be able to:

- Understand the sampling techniques as a method of data collection
- Use techniques of data analysis in research
- Write a research report and thesis
- Write a research proposal (grants)

Module- I: Sampling (Teaching Hours- 15, Credits- 01)

- 1.1 Meaning and nature
- 1.2 Types of sampling
- 1.3 Criteria of good sampling
- 1.4 Optimum size of sampling

Module- II: Processing and representation of data (Teaching Hours- 15, Credits- 01)

- 2.1 Classification of data
- 2.2 Tabulation of data
- 2.3 Percentage
- 2.4 Graphs and diagrams

Module- III: Techniques of data analysis (Teaching Hours- 15, Credits- 01)

- 3.1 Need and importance of data analysis
- 3.2 Measures of central tendency: mean, mode, median (direct method)
- 3.3 Measures of variation: range, standard deviation (direct method)
- 3.4 Correlation- meaning and importance, Karl Pearson's coefficient of correlation

Module- IV: Interpretation of data and report writing (Teaching Hours- 15, Credits- 01)

- 4.1 Interpretation of data: meaning
- 4.4 Report writing: meaning, steps, precautions
- 4.5 Properties of good report writing
- 4.4 Writing a good research proposal

BASIC READING LIST:

1. Goode and Hatt (1981), Methods in Social Research, McGraw Hill International Book Company, New Delhi.
2. Kerliger F.N.(1983), Foundation of Behavioural Research, Surjeet Publication, Delhi.
3. Young P. V.(1960), Scientific Social Survey and Research, Asia Publication House, Mumbai.
4. Kothari C.R. (1993), Research Methodology-Methods and Techniques, Wiley Eastern Ltd., New Delhi.
5. Lundbrg G.A.(1960), Social Research, Longmans Green and Company, New York.
6. Herekar P .M.(2019), Research Methodology and Project Work, Phadake Prakashan, Kolhapur.
7. Settiz Claire, Jahoda Marie and Others(1959), Research Methods in Social Research, Dryden New York.
8. Takur Dvendra (1997), Research Methodology in Social Sciences, Deep and Deep Publication, New Delhi.
9. Gupta S.P. and Gupta M.P.(2005), Business Statistics, Sultan Chand & Sons, New Delhi
10. Gupta C.B. (1996), An Introduction to Methods, Vikas Publication House, New Delhi.
11. देशमुख राम (जून 2005) : 'मूलभूत सांख्यिकी', विद्या प्रकाशन, नागपूर.
12. पाटील ज.फा., पठाण के.जी., ताम्हणकर पी.जे., संतोष यादव (2012) : 'अर्थशास्त्रीय संशोधनाची तोंडओळख', (सुधारित आवृत्ती), कॉन्टिनेंटल प्रकाशन, पुणे.
13. आगलावे प्रदीप (जानेवारी 2000) : 'संशोधन पद्धतीशास्त्र व तंत्रे', विद्या प्रकाशन, नागपूर.
14. खैरनार दिलीप (फेब्रुवारी 2009) : 'प्रगत सामाजिक संशोधन पद्धती व सांख्यिकी', डायमंड पब्लिकेशन्स, पुणे.
15. भांडारकर पु.ल. (1987) : 'सामाजिक संशोधन पद्धती', महाराष्ट्र विद्यापीठ ग्रंथनिर्मिती मंडळ, नागपूर.

B. A. III Economics (Semester VI) (CBCS Pattern)

History of Economic Thoughts- II

(Elective Course- 16) DSE – E 200

Course Outcomes: After successful completion of this course, the students will be able to:

- Understand the economic concepts and theories of Neo-Classical and Indian thinkers.
- Understand the development of economic thoughts

Module- I: Neo- Classical Economic Thought – Alfred Marshall

(Teaching Hours- 15, Credits- 01)

- 1.1 Theory of Value
- 1.2 The concept of representative firm
- 1.3 Consumer's surplus, elasticity of demand
- 1.4 Quasi rent

Module- II: Indian Economic Thought

(Teaching Hours- 15, Credits- 01)

- 2.1 Mahatma Phule: Views on agriculture and education
- 2.2 Rajarshi Shahu Maharaj: Policy for agriculture development and co-Operation
- 2.3 Dr. Babasaheb Ambedkar: Views on money, agriculture and development policy
- 2.4 Dadabhai Nauroji: Drain theory

Module- III: Mahatma Gandhi

(Teaching Hours- 15, Credits- 01)

- 3.1 Concept of village development
- 3.2 Importance of decentralization
- 3.3 Basic principle of development: swadeshi
- 3.4 Concept of Gram Swarajya

Module- IV: Economic Thoughts of Modern Indian Economist

(Teaching Hours- 15, Credits- 01)

- 4.1 Gopal Krishna Gokhale's views on public finance
- 4.2 D. R. Gadgil: Views on co-operative development and decentralization of power, co-operative commonwealth
- 4.3 V. M. Dandekar: Views on poverty
- 4.4 Amartya Sen: Concept of social choice, choice of techniques, Sen's views on poverty and public action

BASIC READING LIST:

1. Dandekar V.M.and N.Nath (1971), Poverty in India, Indian school of political Economy, Pune.

2. Ganguli B. N. (1977): Indian Economic Thought - A 19th Century Perspectives, Tata Mc Grow Hill, New Delhi.
 3. Rath Nilkanth(1995) V.M.Dandekar Social Scientist with a Difference : Journal of Indian School of Political Economy.Oct-Dec.1995, Vol-7 No-4.
 4. Seshadri G.B.(1997): Economic Doctrines, Publishing Corporation, New Delhi.
 5. चा.भ.खैरमोडे (१९७८) – डॉ.भीमराव रामजी आंबेडकर, खंड १ ला , खंड २ रा खंड ७ वा, प्रताप प्रकाशन.
 6. गांधी मो.क.(१९९७) -मराठी अनुवाद सीताराम पुरोषोत्तम पटवर्धन'सत्याचे प्रयोग अथवा आत्मकथा पाचवी आवृत्ती.
 7. डॉ.जे.एफ.पाटील (२०१५)– आर्थिक विचारांचा इतिहास, फडके प्रकाशन, कोल्हापूर.
 8. इंगळे बी.डी. (२०११) आर्थिक विचारांचा इतिहास, अरुणा प्रकाशन, लातूर.
 9. प्रा.रायखेलकर,डॉ.दामजी (२०११) – आर्थिक विचारांचा इतिहास, विद्या बुक पब्लिशर्स,औरंगाबाद.
 10. प्रा.डॉ.अनिलकुमार वावरे, प्रा.संजय धोंडे, व डॉ.अनिल सत्रे (२०१४)– आर्थिक विचारांचा इतिहास, एज्युकेशनल पब्लिशर्स अँड डिस्ट्रिब्युटर्स,औरंगाबाद.
 11. प्रा.रा.म.गोखले - आर्थिक विचारांचा इतिहास
 12. डॉ.विजय कविमंडन - आर्थिक विचारांचा इतिहास
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SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

Revised Syllabus For

B.Sc Part- III

Chemistry

Syllabus to be implemented from

June, 2020 onwards.

Laboratory Course (Practicals)

N. B. (i) Use of Digital/Analytical/Chainometric/Single pan balance is allowed.

(ii) Use of Scientific calculator is allowed.

(iii) Use of Chart/Text book/Hand book of practical is allowed.

(iv) There will be a project having weightage of 15 marks.

Project should be in the following areas but focused on applications of Chemistry.

a) Society oriented

b) Daily use

c) Industry based

d) Analysis based

The project will be assessed by all the three examiners with equal weightage at the time of practical examinations.

The project may be completed individually or by a group of students not exceeding number three.

One copy of the project should be submitted at the time of examination. After assessment this copy will remain in the department.

INORGANIC CHEMISTRY

I) Gravimetric Estimations (G).

N. B. Any **two** experiments from G1 to G3 and any **two** experiment from G4 & G6.

G1. Gravimetric estimation of iron as ferric oxide (Fe_2O_3) from the given solution containing ferrous ammonium sulphate, copper sulphate and free sulphuric acid.

G2. Gravimetric estimation of zinc as zinc pyrophosphate from the given solution

carbon tetrachloride and calculate the refraction equivalents of C, H and Cl atoms.

D. Colorimetry (Any Two).

1. To verify Lambert – Beer's law using CuSO_4 solution.
2. To estimate of Fe^{+++} ions by thiocyanate method.
3. To estimate Fe^{+++} ions using salicylic acid by colorimetric titration.
4. To determine the order of reaction for the oxidation of alcohol by potassium dichromate and potassium permanganate in acidic medium colorimetrically.

E. pH – metry (Any One).

1. To determine the dissociation constant of monobasic acid (Acetic acid).
2. To determine the dissociation constant of dibasic acid (Malonic acid).
3. To determine hydrolysis constant of aniline hydrochloride.

Reference Books:

1. Findlay's Practical Physical Chemistry (Longman)
2. Advanced Practical Physical Chemistry by J. B. Yadav, Goel publishing house.
3. Practical Physical Chemistry by B. D. Khosla, V. C. Garg (R. Chand and Co.)
4. Systematic experimental Physical Chemistry by Rajbhoj, Chandekar (Anjali Publicaiton) Aurangabad.
5. Practical Physical Chemistry: Nandkumari, Kothari and Lavande.
6. Practical Physical Chemistry by Gurtu (S. Chand).
7. Text Book of Qualitative Inorganic Analysis by A. I. Vogel (ELBS Longman).

Nature of Practical Examination

- 1) The practical examination will be of **200** marks.
- 2) The duration of practical examination will be of **three days - six and half hour per day**.
- 3) Questions related to the practical exercise/**project report**/industrial visit carried out by the student should be asked in viva.
- 4) Use of scientific calculator is allowed.

- 5) S.I. units should be used wherever possible.
- 6) Use of Chart / Hand book / Text book of practical is allowed.
- 7) A student is expected to submit a journal certified by the Head of the Department.
- 8) A student not be permitted to appear at the practical examination unless he/she produces a certified journal. If the journal is lost, the student should produce a certificate from the Head of the Department stating that he/she has satisfactory completed the practical work but his / her journal is lost.
- 9) Use of Digital / Analytical / Chainometric / Single pan balance is allowed.

10) A student should submit one copy of project at the time of examination.

Each examiner should asses the project work for Five marks and sign the same. If any student will not submit project work, he/she will be given Zero mark for the project.

11) The distribution of marks for practical examination will be as follows:

A) Physical Chemistry 60 marks

- i) Non-instrumental experiment 25 marks
- ii) Instrumental experiment 25 marks
- iii) Viva 05 marks
- iv) Journal 05 marks

B) Inorganic Chemistry 65 marks

- i) Gravimetric analysis 25 marks
- ii) Preparation 15 marks
- iii) Volumetric estimation 15 marks
- iv) Viva 05 marks
- v) Journal 05 marks

C) Organic Chemistry 60 marks

- i) Mixture separation and identification of compounds 25 marks
- ii) Estimation/Preparation 20 marks
- iii) Derivative 05 marks
- iv) Viva 05 marks
- v) Journal 05 marks

D) Project 15 marks

Total:- 200 marks

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CHOICE BASED CREDIT SYSTEM

Syllabus For

B.Sc. Part -III Mathematics

SEMESTER V AND VI

(Syllabus to be implemented from June, 2020 onwards.)

B.Sc.Part-III [Semester V] (Credit - 8]

Course code	Title o the course	Instructio ns Lectures /Week	Duration of term end exam	Marks of Term end exam	Marks (Internal) Of Continuous Assessment	Credit
DSE E9	Mathematical Analysis	3	2 hours	40	10	2
DSE E10	Abstract Algebra	3	2 hours	40	10	2
DSE E11	Optimization Techniques	3	2 hours	40	10	2
DSE E12	Integral Transforms	3	2 hours	40	10	2

B.Sc.Part-III [Semester VI] (Credit - 8]

Course code	Title o the course	Instructions Lectures/Week	Duration of term end exam	Marks Term end exam	Marks (Internal) Of Continuous Assessment	Credit
DSE F9	Metric Spaces	3	2 hours	40	10	2
DSE F10	Linear Algebra	3	2 hours	40	10	2
DSE F11	Complex Analysis	3	2 hours	40	10	2
DSE F12	Discrete Mathematics	3	2 hours	40	10	2

Core Course Practical in Mathematics [CCPM IV to VII]

The practical examination will be conducted at the end of second term that is annual pattern

Total Credit 16

Course code	Title o the course	Instructions Lectures/Week	Duration of term end exam	Marks [End of academic year]	Credit
CCPM IV	Operations Research	5	6 hours	50	4
CCPM V	Laplace and Fourier Transforms	5	6 hours	50	4
CCPM VI	Mathematical Computation Using Python	5	6 hours	50	4
CCPM VII	Project, sturdy tour, viva.	5	6 hours	50	4

EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS (FOR REVISED SYLLABUS

Sem - V

Old Paper number	Equivalence	New Course code	Title of the course
IX	Real Analysis	DSE E9	Mathematical Analysis
X	Abstract Algebra	DSE E10	Abstract Algebra
XII	Numerical Methods - I	DSE E11	Optimization Techniques
XI	Partial Differential Equations	DSE E12	Integral Transforms

Sem - VI

Old Paper number	Equivalence	New Course code	Title of the course
XIII	Metric spaces	DSE F9	Metric Spaces
XIV	Linear Algebra	DSE F10	Linear Algebra
XV	Complex Analysis	DSE F11	Complex Analysis
XVI	Numerical Methods	DSE F12	Discrete Mathematics

CCPM

Old course code	Equivalence	New Course code	Title of the course
CML – IV	Operations Research Techniques	CCPM IV	Operations Research
CML – V	Numerical Methods	CCPM V	Laplace and Fourier Transforms
CML – VI	Numerical Recipes in C++, SciLab	CCPM VI	Mathematical Computation Using Python
CML – VII	Project, study tour, viva.	CCPM VII	Project, study tour, Seminar, viva.

B.Sc. (Mathematics) (Part-III) (Semester–V & VI)
(Choice Based Credit System)
(Introduced from June 2020)

Course Code: CCPM VII

Title of Course: Project, Study- Tour, Viva – Voce

A :PROJECT [30 Marks]

Each student of B.Sc. III is expected to read, collect, understand the culture of Mathematics, its historic development. He is expected to get acquainted with Mathematical concepts, innovations, relevance of Mathematics. Report of the project work should be submitted through the respective Department of Mathematics. Evaluation of the project report will be done by the external examiners at the time of annual examination.

B. STUDY TOUR [05 Marks] :

It is expected that the tour should contain at least renowned academic institution so that the visiting students will be inspired to go for higher studies in Mathematics.

C. SEMINARS: [05 Marks]

Students should present a seminar before the B.Sc.III class on some topic in Mathematics.

D. VIVA-VOCE (on the project report). [10 Marks]

Nature of Question papers (Theory)

Common nature of question for theory paper mentioned separately:

There will be practical at the end of second term that is annual pattern,

Nature of Practical Question Paper

(1) Core Course Mathematics Practicals - IV

This carries 50 marks.

Examination : 40 Marks

Journal : 10 Marks

(2) Core Course Mathematics Practicals - V

This carries 50 marks.

Examination : 40 Marks

Journal : 10 Marks

(3) Core Course Mathematics Practicals - VI

This carries 50 marks.

Examination : 40 Marks

Journal : 10 Marks

(4) Core Course Mathematics Practicals - VII

This carries 50 marks.

Project : 30 Marks (External Examiner)

Study Tour : 05 Marks (External Examiner)

Seminar : 05 Marks (External Examiner)

Viva Voce : 10 Marks (External Examiner)

Note : Each student of a class will select separate topic for project work. He/ She should submit the reports of his / her project work , Study tour report to the department and get the same certified.

Teaching Periods :

(i) Total teaching periods for Paper –DSE E-9, E-10,E-11,E-12, F-9,F-10, F-11,F-12 are 12 (Twelve) per week. 3 (Three) periods per paper per week.

(ii) Total teaching periods for CCPM-IV, V,VI,VII for the whole class are 20 (Twenty) per week. 5 (Five) periods per Lab. Perweek.

SHIVAJI UNIVERSITY, KOLHAPUR

Syllabus of B.Sc. Part III Zoology

Zoology Paper- X

DSE-F29 (Molecular Cell Biology and Animal Biotechnology)

Theory: 30 hrs. (37.5 lectures of 48 minutes) (Credits 2)

Unit 1: Molecular Biology –

7

- 1) DNA Replication (Semiconservative mode)
- 2) DNA Damage and Repair mechanism
- 3) Regulation of gene expression- Operon concept
- 4) Genetic Code:
 - i) Properties of Genetic code
 - ii) Codon assignment
 - iii) Wobble hypothesis

Unit 2: Protein synthesis

8

- A) Transcription
 - i) Process in prokaryotes and eukaryotes
 - ii) RNA polymerase
 - iii) Post transcriptional modification in RNA
- B) Translation in prokaryotes and eukaryotes
 - i) Initiation
 - ii) Elongation
 - iii) Termination

Unit 3 : Molecular Techniques in Gene manipulation

15

1. Restriction enzymes: Nomenclature, detailed study of Type II.
2. Characteristics of Cloning vectors: Plasmids, Cosmids, Phagemids, Lambda Bacteriophages
3. Gene cloning: Transformation techniques by Calcium chloride method and electroporation
4. Construction of genomic and cDNA libraries
5. Southern, Northern and Western blotting
6. DNA sequencing: Sanger method
7. Polymerase Chain Reaction,
8. DNA Finger Printing
9. DNA micro array

SUGGESTED READINGS:

1. Brown, T.A. (1998). Molecular Biology Labfax II: Gene Cloning and DNA Analysis. II Edition, Academic Press, California, USA. Glick, B.R. and Pasternak, J.J. (2009).
2. Molecular Biotechnology - Principles and Applications of Recombinant DNA. IV Edition, ASM press, Washington, USA. Griffiths, A.J.F., J.H. Miller, Suzuki, D.T., Lewontin, R.C. and Gelbart, W.M. (2009).
3. An Introduction to Genetic Analysis. IX Edition. Freeman and Co., N.Y., USA. Snustad, D.P. and Simmons, M.J. (2009).
4. Principles of Genetics. V Edition, John Wiley and Sons Inc. Watson, J.D., Myers, R.M., Caudy, A. and Witkowski, J.K. (2007).
5. Recombinant DNAGenes and Genomes- A Short Course. III Edition, Freeman and Co., N.Y., USA. Beauchamp, T.I. and Childress, J.F. (2008).
6. Principles of Biomedical Ethics. VI Edition, Oxford University Press.
7. Cell and Molecular Biology, 8th Edition, De. Robertis EDP and De Robertis Jr. EMF, Lippincott Williams and Wilkins, Philadelphia.
8. Cell Biology, C.B. Powar, Himalaya Publication House.
9. Cell and Molecular Biology, E.J. Dupraw, Academic Press, New York.
10. Cell Structure and Function - A. G. Loewy, P. Siekevitz, J. R. Meninger & J. A. N. Gallant, Saunder College, Philadelphia.
11. Molecular Biology of the Cell - 3rd Edition, Bruce Alberts, Dennis Bray, Julian Lewis, Martin Raff, K. Roberts & James D. Watson, Garian Publishing, New York.

SHIVAJI UNIVERSITY, KOLHAPUR

Syllabus of B.Sc. Part III Zoology

Zoology Paper- XI

DSE-F30 (Biotechniques and Biostatistics)

Theory: 30 hrs. (37.5 lectures of 48 minutes) (Credits 2)

Unit I: Genetically Modified Organisms

9

1. Production of cloned and transgenic animals:
 - a. Nuclear Transplantation
 - b. Retroviral Method
 - c. DNA microinjection
2. Applications of transgenic animals:
 - a. Productions of pharmaceuticals
 - b. Production of donor organs
3. Knockout mice.

Unit II: Culture Techniques and Applications

6

- a. Animal cell culture: Introduction, principle and applications
- b. Stem Cells: Introduction to stem cells
 - i) Potency of stem cells: Totipotency, Pluripotency, Multipotency, Unipotency
 - ii) Sources of stem cells-Embryo, Fetal, Adult, Bone marrow

Unit III: Biostatistics

15

- a. Classification of Biological data
- b. Frequency distribution
- c. Tabulation
- d. Graphical representation of data
- e. Measures of central tendency (Mean, Median, Mode)
- f. Dispersion – Mean, deviation & standard deviation
- g. Correlation – Scattered diagram, Karl Pearson's correlation coefficient and Spearman's rank correlation coefficient.

SUGGESTED READINGS:

1. Brown, T.A. (1998). Molecular Biology Labfax II: Gene Cloning and DNA Analysis. I Edition, Academic Press, California, USA. Glick, B.R. and Pasternak, J.J. (2009). Molecular Biotechnology - Principles and

2. Applications of Recombinant DNA. IV Edition, ASM press, Washington, USA. Griffiths, A.J.F., J.H. Miller, Suzuki, D.T., Lewontin, R.C. and Gelbart, W.M. (2009)
3. An Introduction to Genetic Analysis. IX Edition. Freeman and Co., N.Y., USA. Snustad, D.P. and Simmons, M.J. (2009).
4. Principles of Genetics. V Edition, John Wiley and Sons Inc. Watson, J.D., Myers, R.M., Caudy, A. and Witkowski, J.K. (2007).
5. Recombinant DNA Genes and Genomes- A Short Course. III Edition, Freeman and Co., N.Y., USA. Beauchamp, T.I. and Childress, J.F. (2008).
6. Principles of Biomedical Ethics. VI Edition Oxford University Press.
7. Elements of Biotechnology - P. K. Gupta, Rastogi Publications.
8. Gene V & VI, 1994, Lewin B., Oxford University Press, Oxford.
9. Concept of Genes-Pearson Edition 9. Cell and Molecular Biology

SHIVAJI UNIVERSITY, KOLHAPUR

Syllabus of B.Sc. Part III Zoology

Zoology Practical – III (Credits-02)

Molecular biology, Animal biotechnology, Biostatistics & Biotechniques

I] Microtechnique

1. Preparation of permanent histological slides by HE technique
2. Histochemical technique
 - a. AB PH 1 technique
 - b. AB PH 2.5 technique
 - c. PAS technique

II] Biotechniques

1. Chromatography – Separation of amino acid by paper chromatography
2. DNA isolation
3. Demonstration of DNA by feulgan technique
4. To study the following technique (photographs)
 - a) Southern blotting
 - b) Northern blotting
 - c) Western blotting
 - d) DNA sequencing (Sangers method)
 - e) PCR
 - f) DNA fingerprinting

III) Biostatistics

Any 10 example based on theory

IV] Project (any suitable work possible in local area or from the syllabus) Report of the same to be submitted at the time of practical examination

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

Revised Syllabus For

B.Sc Part- III

Physics

Syllabus to be implemented from

June, 2020 onwards.

SHIVAJI UNIVERSITY, KOLHAPUR

B.Sc. Part-III Physics CBCS Syllabus with effect from June 2020

B.Sc. Part-III Semester-V

PHYSICS Paper-IX

DSE-E1 Mathematical Physics

Theory: 36 Hours (45 Lectures of 48 minutes)

Marks -50 (Credits: 02)

UNIT-I

1. Partial Differential Equation (8 hours)

Introduction to differentialequations, Method of separation of variables for solving second order partial differential equations, Form of two dimensional Laplace differential equation in Cartesian coordinates and its solution, Three dimensional partial differential equation in Cartesian coordinates and its solution, The differential equation of progressive wave and its solution.

2. Frobenious Method and Special Functions (10hours)

Singular points of second order differential equations, Application of singularity to Legendre and Bessel differential equation, Series solution method of solving second order linear differential equation(Frobenious method) and its application to Legendre differential equation.

UNIT-II

1. Some Special Integrals (6 hours)

Gamma function, Properties of Gamma function, Beta function, Properties of Beta function,Relation between Beta and Gamma functions, Error function (Probability Integral).

2. Complex Analysis (12 hours)

Revision of complex numbers and their graphical representation: Geometrical representation, Equal complex numbers, Addition, Subtraction, Multiplication and Division of complex number by geometry. Types of complex numbers, square roots of complex numbers, Logarithmic function of complex variables, Euler's formula, De'Moivre's theorem, Cauchy-Riemann conditions.

Reference Books

1. Advanced calculus, Robert C. Wrede, Murray Spiegel.
2. Differential Equations with Modeling Applications, Dennis G.Zill.
3. Partial Differential Equations, Gupta Malik and Mittal.
4. Differential Equations, Gupta Malik and Mittal.
5. Differential Equations, Ramachandra Rao, H. R. Anuradha.
6. Partial Differential Equations, N. P. Bali.
7. Differential Equations, N. Ch. S. N. Iyenger.
8. Mathematical Physics, B. S. Rajput.
9. Mathematical Methods for Physicists, Arfken, Weber, 2005, Elsevier.
10. Mathematical Methods for Scientists and Engineers, McQuarrie, 2003, Viva Books.
11. Mathematical Physics, H. K. Das, Rama Varma.
12. Essential Mathematical methods, K. F. Riley, M. P. Hobson, 2011, Cambridge.
13. Mathematics for Physicists, Susan M. Lea, 2004, Thomson Books/Cole.

B.Sc. Part-III Semester-V
PHYSICS Paper-X
DSE-E2 Quantum Mechanics
Theory: 36 Hours (45 Lectures of 48 minutes)
Marks -50 (Credits: 02)

Unit-I

1. Matter Waves (08 hours)

Wave particle duality, De-Broglie hypothesis of matter waves, Derivation of wavelength of matter wave, Concept of wave packet, Relation between group velocity - phase velocity and group velocity-particle velocity, Davisson and Germer experiment, Uncertainty principle (statements only): position-momentum and energy- time, Application of uncertainty principle- non existence of free electrons in the nucleus.

2. Schrodinger's Wave Equation (10 hours)

Wave function and its physical interpretation, Condition of physically acceptable wave function, Normalized and orthogonal wave function, Schrödinger time dependent and time independent (steady state) wave equations in 1D and 3D, Probability current density(continuity equation), Eigen values and Eigen functions, Expectation values of dynamic variables.

Unit-II

1. Operators in Quantum Mechanics (08 hours)

Definition of an operator, Position operator (x), Linear momentum operator (p), Commutation relation in quantum mechanics, Commutation relation between x and p , Kinetic energy operator (T), Hamiltonian operator (H), Parity operator (π), Angular momentum operator (L) – components of angular momentum operator in Cartesian coordinate system, Ladder operators, Eigen values of L_z and L^2 (use equations for L^2 and L_z in spherical polar coordinates).

2. Applications of Schrodinger Equation (10 hours)

Particle in a rigid box (infinite potential well) in one dimension and three dimension, Step potential- reflection and transmission coefficients, Potential barrier- tunneling effect (qualitative treatment), One dimensional simple harmonic oscillator (operator method)- energy levels, zero point energy, Schrodinger equation for Hydrogen atom in spherical polar coordinates, Separation of radial and angular parts, Solution of radial part of Schrodinger's equation - Energy Eigen values.

Reference Books

1. Modern Physics, R. Murugesan, 1997, S. Chand and Company Ltd.
2. Atomic Physics, J B Rajam, S Chand and Co.
3. Perspectives of Modern Physics, Arthur Beiser, McGraw Hill International Editions.
4. Concepts of Modern Physics, Arthur Beiser, Ahobhit Mahajan, S. Rai Choudhury, Sixth Edition, Tata McGraw Hill Education Private Ltd.
5. Modern Physics, S. L. Kakani and Shubhra Kulkarni, 2006, Viva books Private Ltd.
6. Modern Physics, D. L. Sehgal, K. L. Chopra and N. K. Sehgal, Reprint 1995, Sultan Chand & sons.
7. Introduction to Modern Physics, F. K. Richtmyer, E. H. Kennard, John N. Cooper, Sixth Edition, Tata McGraw Hill Education Private Ltd
8. A Text book of Quantum Mechanics, P.M. Mathews & K. Venkatesan, 2nd Edn.,2010, Tata McGraw Hill,
9. Quantum Mechanics, Leonard I. Schiff, 3rdEdn. 2010, Tata McGraw Hill.
10. Quantum Mechanics Theory and Applications, A. K. Ghatak and S. Lokanathan, Third Edn.1995, Macmillan India Ltd.
11. Quantum Mechanics Theory and applications, AjoyGhatak, S. Lokanathan, 5th Ed,2017, Trinity.
12. Quantum Mechanics, Chatwal and Anand, Reprint 2010, Himalaya Publishing house.
13. Quantum Mechanics, Gupta, Kumar, Sharma, Thirtieth Edn., 2011, Jai Prakash Nath Publications.
14. Advanced Quantum Mechanics, SatyaPrakash, Reprint 2011, KedarNath Ram Nath Meerut.
15. Advanced Quantum Mechanics, B. S. Rajput, Ninth Edn., 2009, Pragati Prakashan.
16. Quantum Mechanics, B. N. Srivastava, Reprint 2011, Pragati Prakashan.
17. Quantum Mechanics, P. J. E. Peebles, 2003, Prentice Hall of India.
18. Quantum Mechanics, S. P. Singh,M. K. Bagade, Kamal Singh, S. Chand & company Ltd, New Delhi

B.Sc. Part-III Semester-V

PHYSICS Paper-XI

DSE-E3 Classical Mechanics and Classical Electrodynamics

Theory: 36 Hours (45 Lectures of 48 minutes)

Marks -50 (Credits: 02)

UNIT-I

1.Lagrangian Formulation (10 hour)

Constraints, Degrees of freedom, Generalized coordinates, Principle of virtual work, D'Alembert's principle, Lagrange's equation from D'Alembert's principle, Applications of Lagrange's equation to a particle in space, Atwood's machine and a bead sliding on uniformly rotating wire under force free condition.

2.Techniques of Calculus of Variation (8 hour)

Hamilton's principle, Deduction of Hamilton's principle from D'Alembert's principle, Deduction of Lagrange's equation from Hamilton's principle, Applications-shortest distance between two points in a plane, Brachistochrone problem.

UNIT- II

1.Special Theory of Relativity (12 hours)

Inertial and non-inertial reference frames, Galilean transformation equations, Michelson-Morley experiment, postulates of special theory of relativity, Lorentz transformation equations, Relativistic addition of velocities, Length contraction, Time dilation, Variation of mass with velocity, Mass-energy relation.

2. Charged Particles Dynamics (6 hours)

Poisson's and Laplace's equations and their physical significance, Laplace's equation in one dimension and its solutions, Motion of charged particle - in uniform electric field E , magnetic field B , Crossed uniform electric field E and magnetic field B .

Reference Books

1. Classical Mechanics, Goldstein Herbert, NarosaPubli./ Pearson Edu. 2018
2. Classical Mechanics, Gupta, Kumar and Sharma, Pragati Praka.2012
3. Introduction to Classical Mechanics, Nikhil Ranjan Roy, S Chand Publ. 2016
4. Introduction to Classical Mechanics, Takwale R.G., Puranik P. S., Tata McGraw 1979
5. Classical Mechanics, Panat P.V., NarosaPubli. 2016
6. Atomic physics, J B Rajam S Chand
7. Concepts of Modern Physics, Arthur Beiser, McGraw Hill
8. Introduction to Special Relativity, Robert Resnick, Wiley India
9. Classical Electrodynamics, Puri S.P., Tata McGraw/Alpha Science 2011
10. Classical Electrodynamics, Jackson J. D., Wiley India , 2007
11. Electromagnetics, Laud B.B., New Age Interna. 2011

B.Sc. Part III-Semester-V

PHYSICS Paper-XII

DSE-E4 Digital and Analog Circuits and Instrumentation

Theory: 36 Hours (45 Lectures of 48 minutes)

Marks -50 (Credits: 02)

Unit-I

1.Digital Electronics (08 hours)

Review of basic logic gates, Derived logic gates (NOR, NAND, XOR and XNOR gates), NAND and NOR gates as universal gates, De Morgan's theorems, R-S flip flop, J-K flip-flop, Half adder, Full adder, 4 bit parallel binary adder.

2.TransistorsAmplifier and Sinusoidal Oscillators (10 hours)

Transistor Amplifier: Single stage transistor CE amplifier, D.C. and A.C. equivalent circuits, load line analysis-d.c. load line, a.c. load line and Q point.

Oscillator:Feedback in amplifiers and its types,theory of feedback oscillator, Barkhausen's criterion for sustained oscillations,Oscillatory circuit (tank circuit),essentials of transistor oscillator, sinusoidal oscillators-phase shift oscillator, Colpitts oscillator, Hartley oscillator, Crystal oscillator using transistors.

Unit-II

1. Cathode Ray Oscilloscope (8 hours)

Introduction to CRO, Block diagram of CRO, Principle, Construction and working of CRT, Applications of CRO: measurement of A.C. and D. C. voltages, periodic time, frequency and phase difference, Lissajous figures.

2. Operational Amplifier and Timer (10 hours)

Operational Amplifier: Differential amplifier and its type, Op-Amp, Block diagram of an Op- Amp. Op-Ampparameters, Characteristics of an ideal and practical Op-Amp (IC 741), Applications of Op-Amps: Inverting amplifier and Non-inverting amplifier, Adder, Subtractor, Differentiator, Integrator.

Timer IC:Block diagram of IC555, IC 555 Pin configuration, Applications of IC 555 as astable and monostablemultivibrator.

ReferenceBooks

1. Integrated Electronics, J. Millman and C.C. Halkias, 1991, Tata Mc-Graw Hill.
2. Electronic devices and circuits, S. Salivahanan and N. Suresh Kumar, 2012, Tata Mc-Graw Hill.
3. Microelectronic Circuits, M.H. Rashid, 2ndEdn.,2011, Cengage Learning.
4. Modern Electronic Instrumentation & Measurement Tech., Helfrick&Cooper,1990, PHI Learning
5. Digital Principles & Applications, A.P. Malvino, D.P. Leach &Saha, 7thEd.,2011, Tata McGraw Hill
6. Microelectronic circuits, A.S. Sedra, K.C. Smith, A.N. Chandorkar, 2014, 6thEdn., Oxford University Press.
7. Fundamentals of Digital Circuits, A. Anand Kumar, 2ndEdition, 2009, PHI Learning Pvt. Ltd.
8. OP-AMP and Linear Digital Circuits, R.A. Gayakwad, 2000, PHI Learning Pvt. Ltd.
9. Basic Electronics: A text lab manual, P.B. Zbar, A.P. Malvino, M.A. Miller, 1994, Mc-Graw Hill.
10. Electronics: Fundamentals and Applications, J.D. Ryder, 2004, Prentice Hall.
11. Electronic Principle, Albert Malvino, 2008, Tata Mc-Graw Hill.
12. A text book of Electronics, SantanuChattopadhyay, New Central Book Agency, Kolkata
13. Basic Electronics, 2ndEdition , B. Basavaraj, H. N. Shivashankar, Vikas Publishing house pvt. Ltd. New Delhi.
14. Electronic principles, V. K. Mehta
15. Basic Electronics, Bhargava and Gupta

B.Sc. Part-III Semester-VI
PHYSICS Paper-XIII
DSE-F1 Nuclear and Particle Physics
Theory: 36 Hours (45 Lectures of 48 minutes)
Marks -50 (Credits: 02)

Unit-I

1. General Properties of Nuclei and Nuclear Model (10 hours)

Constituents of nucleus and their intrinsic properties, Quantitative facts about size, mass, chargedensity (matter energy), binding energy, average binding energy and its variation with mass number, Liquid drop model approach, Semi empirical mass formula, Magic numbers.

2. Particle Accelerators (8 hours)

Need of accelerators, Cyclotron- construction, working, theory and its limitations, Principle of phase stable orbit, Synchrocyclotron - construction and working, Synchrotrons- electron synchrotron and proton synchrotron, Betatron - principle, construction and working condition, expression of energy gain.

Unit-II

1. Nuclear Detectors (10 hours)

Ionization chamber, Geiger Muller counter- construction, working and theory, dead time and recovery time, quenching mechanism, Construction of photo-multiplier tube (PMT), Scintillation detector-principle, construction and working, Wilson cloud chamber, Semiconductor detector, Cerenkov radiations, Cerenkov detector.

2. Particle Physics (8 hours)

Particle interactions, Classification of elementary particles, Symmetries and conservation laws- energy, momentum, angular momentum and parity, Baryon number, Lepton number, Concept of quark model.

ReferenceBooks

1. Introductory nuclear Physics, Kenneth S. Krane (Wiley India Pvt. Ltd., 2008).
2. Concepts of nuclear physics, Bernard L. Cohen. (Tata McGraw Hill, 1998).
3. Introduction to the physics of nuclei & particles, R.A. Dunlap. (Thomson Asia, 2004)
4. Introduction to Elementary Particles, D. Griffith, John Wiley & Sons
5. Quarks and Leptons, F. Halzen and A.D. Martin, Wiley India, New Delhi
6. Basic ideas and concepts in Nuclear Physics - An Introductory Approach by K. Heyde (IOP-Institute of Physics Publishing, 2004).
7. Radiation detection and measurement, G.F. Knoll (John Wiley & Sons, 2000).
8. Theoretical Nuclear Physics, J.M. Blatt & V.F. Weisskopf (Dover Pub. Inc., 1991)
9. Nuclear Physics by John Lilley, The Manchester Physics Series – Wiley
10. Nuclear Physics by S. B. Patel, New age international (p) lit. Publishers New Delhi.
11. Modern Physics by R. Murugesan, S. Chand & company Ltd, Ram Nagar New Delhi
12. Nuclear Physics by D. C. Tayal, Himalaya Publishing house
13. Concept of modern physics by Arthur Beiser, Tata McGraw- Hill publishing company ltd. New Delhi
14. Atomic and nuclear structure by D. K. JHA, Discovery publishing house New Delhi
15. Nuclear energy by D. K. JHA Discovery publishing house New Delhi
16. Nuclear physics by S. N. Ghoshal, S. Chand & company Ltd, Ram Nagar New Delhi

B.Sc. Part-III Semester-VI
PHYSICS Paper-XIV
DSE-F2 Solid State Physics
Theory: 36 Hours (45 lectures of 48 min)
Marks-50 (Credits: 02)

Unit-I

1. Crystal Structure (10 hours)

Solids: amorphous, polycrystalline and crystalline materials; lattice, basis, unit cell- primitive, non-primitive unit cell, symmetry operations, symmetry elements of cube, Bravais lattice in two and three dimensions, Miller indices, Miller indices and inter-planer spacing, Simple crystal structures: SC, BCC, FCC and HCP (Co-ordination number, atomic radius, atoms per unit cell and packing fraction)

2. X-Ray Diffraction (08 hours)

Reciprocal lattice and its properties, Brillouin zone, Diffraction of X-rays by crystals, Ewald construction, Bragg's law in reciprocal lattice, Experimental methods in X-ray diffraction (Laue method, rotating crystal method, powder photograph method), Analysis of cubic crystal by powder method.

Unit-II

1. Magnetic Properties of Matter (10 hours)

Classical Langevin theory of diamagnetic and paramagnetic materials, Quantum mechanical treatment of paramagnetism, Curie's law, Weiss theory of ferromagnetism and ferromagnetic domains, Explanation of B-H curve, Hysteresis and energy loss.

2. Elementary Band Theory of Solids (8 hours)

Concept of density of states, Bloch theorem (statement only), Kroning-Penny model, Origin of energy gap, Velocity of electrons according to band theory, Effective mass of an electron, Distinction between metals, semiconductors and insulators, Hall Effect - Hall voltage and Hall Coefficient.

Reference Books

1. Introduction to Solid State Physics, Charles Kittel, 8th Ed., 2004, Wiley India Pvt. Ltd.
2. Elements of Solid State Physics, J.P. Srivastava, 2nd Ed., 2006, Prentice-Hall of India
3. Introduction to Solid, Leonid V. Azarov, 2004, Tata Mc-Graw Hill
4. Solid State Physics, Neil W. Ashcroft and N. David Mermin, 1976, Cengage Learning
5. Solid State Physics, Rita John, 2014, Mc-Graw Hill
6. Solid State Physics, Adrianus J. Dekker, Macmillan Publishers India Ltd.
7. Solid State Physics, M.A. Wahab, 3rd Ed., 2018, Narosa Publishing House Pvt. Ltd.
8. Solid State Physics, S.O. Pillai, 5th Ed., New Age International(P) Ltd., Publishers.
9. Fundamentals of Solid State Physics, Saxena-Gupta-Saxena, (PragatiPrakashan Meerut)
10. Solid State Physics, R. L. Singhal
11. Solid State Physics, C.M. Kachhava (Tata McGraw Hill Publication)
12. Elements of X-ray diffraction, B.D. Cullity and S. Stock
13. Solid state electronic devices, B.G. Streetman & S.K. Banerjee, 5th Ed. [PHI Learning Delhi.

B.Sc. Part-III Semester-VI

PHYSICS Paper-XV

DSE-F3 Atomic and Molecular Physics and Astrophysics

Theory: 36 Hours (45 Lectures of 48 minutes)

Marks -50 (Credits: 02)

UNIT-I

1. Atomic Spectra

(09 hours)

Observed hydrogen fine structure, Spectral notations and optical spectral series for doublet structure, Spectrum of sodium and its doublet fine structure, Selection and intensity rules for fine structure doublets, Normal order of fine structure doublets, Electron spin-orbit interaction, Normal and anomalous Zeeman effect and their explanation from vector atom model, Lande's g factor.

2. Molecular Spectra

(09 hours)

Molecular bond, Electron sharing, H_2^+ molecular ion, The hydrogen molecule, Rotational energy levels, Rotational spectra, Vibrational energy levels, Vibrational spectra, Vibration – rotation spectra, Electronic spectra of diatomic molecules.

UNIT-II

1 Raman Spectra

(4 hours)

Raman Effect, Characteristic properties of Raman lines, Classical and quantum theory of Raman Effect, Difference between Raman spectra and infrared spectra.

2. Structure of Universe:

(08 hours)

Big-Bang theory, Steady state theory, Oscillating theory, Hubble law, Cosmological tests, Milky Way galaxy, Origin of solar system - Condensation theory; arguments for and against the theory.

3. Stellar Evolution

(06 hours)

The H–R Diagram, Evolution of main sequence stars - Red giants and White dwarfs, Evolution of more massive stars- Supernova, Neutron star, Black hole, Surface of the Sun, Sunspots, Sunspot cycle.

Reference books

1. Atomic and Nuclear Physics – H. Semat and T. E. Albright.
2. Introduction to Atomic Spectra – H. E. White.
3. Concepts of Modern Physics – Arthur Beiser.
4. Perspectives of Modern Physics – Arthur Beiser.
5. Spectroscopy (Atomic and Molecular) – Gurdeep Chatwal, Sham Anand.
6. Astronomy – Fundamentals and Frontiers – Robert Jastrow and M. H. Thompson
7. Astronomy – Frank Bash.
8. Foundation of Astronomy, Michael A. Seeds, 10th edition, Thomson Learning, Inc., USA, 2008.

B.Sc. Part-III Semester-VI
PHYSICS Paper-XVI
DSE-F4 Energy Studies and Materials Science
Theory: 36 Hours (45 lectures)
Marks 50 (Credits: 02)

UNIT-I

1. Energy and Wind Energy (8 hrs)

Energy, Forms of energy, Man and environment, Energy chains, Classification of energy resources, Energy demands, Age of renewable and alternatives, Wind energy, Wind energy chains, Wind energy quantum, Planning of wind farm, Wind power density, Efficiency factor of wind turbine (P-H graph), Power of wind turbine for a given incoming wind velocity, Types of a wind turbine generator unit, Horizontal axis propeller type wind turbine generator unit.

2. Solar Energy (8 hrs)

Solar energy, Solar energy spectrum (UV, Visible and IR), Utilization of solar energy-thermal route, photovoltaic route, Essential subsystems in solar energy plant, Solar constant, Clarity index, Solar insolation, Solar energy from satellite station through microwave to earth station, Solar photovoltaic systems, Merits and limitations of solar PV systems, Prospects of solar PV systems, Power of a solar cell and solar PV panel.

3. Biomass Energy (2 hrs)

Origin of biomass, Biomass energy resources (biomass from cultivated crops, biomass from waste organic matter), Biomass conversion process (biochemical conversion-anaerobic digestion and fermentation)

UNIT-II

1. Superconductivity (6 hrs)

Idea of superconductivity, Critical temperature, Critical magnetic field, Meissner effect, Type-I and Type-II superconductors, London equation and penetration depth, Isotope effect, Application (magnetic levitation)

2. Nanotechnology (12 hrs)

Introduction to nanoscience and nanotechnology, Length scales relevant to nanoscience, Nanostructures: 1D, 2D and 3D nanostructures, Size effects in nanosystems, Quantum

confinement, Synthesis of nanostructured materials(Top down and bottom up approach), Photolithography, Ball milling,Nucleation and growth, Applications of nanotechnology (Spintronics, Molecular electronics, Nanobiotechnology)

ReferenceBooks

1. Energy Technology – Non-conventional, Renewable and Conventional – S. Rao and Dr. Parulekar.
2. Non-conventional Energy sources - G. D. Rai (4th edition), Khanna Publishers, Delhi.
3. Solar Energy - S.P. Sukhatme (second edition), Tata Mc.Graw Hill Ltd, New Delhi.
4. Solar Energy Utilization - G. D. Rai (5th edition), Khanna Publishers, Delhi.
5. Non-conventional Energy Sources – G. D. Rai (Khanna Publishers).
6. Elements of Material Science and Engineering - I.H.Vanvlach (4th Edition)
7. Material Science and Engineering - V. Raghva
8. Material science and metallurgy for Engg.-Kodigire V. D. Everest publication house, Pune
9. Material Science and Engg. - 5th Edition- V. Raghavan PHI Learning Pvt. Ltd. Delhi
- 10.Nanotechnology: Principles and Practices,Sulbha K Kulkarni (2ndEdition), Capital Publishing Co. New Delhi.
- 11.Science at the Nanoscale: An Introductory Textbook, Chin Wee Shong, Chornghaur Sow, Andrew T. S. Wee (Pan Stanford Publishing Pte. Ltd.)
12. Introduction to Nanoscience, S.M. Lindsay (Oxford University press)

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B.Sc.Part III Physics Laboratory Experiments

Total Marks: 200 Credits: 08

- **Group-I**

1. Resonance pendulum
2. S.T. of soap solution
3. Surface tension of mercury by Fergusson modified method
4. γ and η using Flat Spiral Spring
5. γ by Koenig's method
6. γ by Cornu's spiral
7. C program to arrange the given set of numbers in ascending/descending order
8. C program to find largest/smallest number from a given set of numbers
9. Scilab Expt. 1 (problem from Quantum Mechanics)
10. Scilab Expt. 2 (problem from Quantum Mechanics)

- **Group-II**

1. Cardinal points by turn table method
2. Cardinal points by Newton's method
3. Refractive index of glass by Brewster's law
4. Diffraction at a Single Slit
5. Diffraction at cylindrical obstacle
6. Lloyd's single mirror
7. Double refracting prism
8. Diameter of Lycopodium powder
9. Spherical aberration
10. Absorption spectrum of a liquid (KMnO_4 solution)

- **Group-III**

1. Self Inductance by Owen's Bridge
2. Measurement of B_H , B_V and θ using Earth Inductor /Hysteresis by magnetometer method
3. Mutual inductance using Ballistic galvanometer.
4. Resistance of B.G. by half deflection method
5. e/m of Electron By Thomson's Method/Calibration of wire by Carey Foster bridge
6. Calibration of wire by Griffith's method

7. Absolute capacity of condenser
8. I-V characteristics of Solar Cell
9. Band gap energy of semiconductor using p-n junction diode
10. Determination of Plank's constant by using LED

• **Group-IV**

1. To verify the truth tables of NAND, NOR, Ex-OR and Ex-NOR gates by using basic gates with IC-74 series.
2. To verify the De-Morgan's theorems by using IC-74 series.
3. To design a single stage CE amplifier of given gain using voltage divider bias.
4. To built and test Colpitts oscillator using BJT.
5. To built and test phase shift oscillator using BJT.
6. To determine A.C. and D.C. sensitivity of the C.R.O. and to measure unknown frequency.
7. To design and test an astable multivibrator using IC-555 Timer.
8. To design and test monostable multivibrator using IC-555 Timer.
9. To study Op-amp as an inverting amplifier.
10. To study Op-amp as Schmitt trigger.

Skill Testing Experiments

• **Group-V-A**

1. Study of divergence of LASER beam
2. Measurement of wavelength of LASER using plane diffraction grating
3. Schuster's method and optical leveling of spectrometer
4. Obtaining Biprism fringes without lateral shift
5. Measurement of distance between two coherent sources in Biprism experiment
6. Polar graph using photocell/photovoltaic cell
7. Study of quantum tunneling effect using tunnel diode
8. Testing of electronic components
9. C program – Edit, save and execute given C program
10. C program – Edit, save and execute given C program

- **Group – V-B**

1. Radius of Capillary bore using mercury thread
2. Determination of lattice constant using given XRD powder pattern
3. Estimation of errors
4. Measurement of phase shift of RC network using CRO
5. Study of Half and Full adder
6. Simplification of digital circuit using Boolean laws (paper-work).
7. Measurement of resistance of galvanometer (Kelvin's method)
8. Electrical wiring of bulb, switch and plug.
9. Tracing of given electronic circuit/ build the given circuit using breadboard
10. Assembling of given electronic circuit(soldering method)

- **Group VI: Assessment of Annual Work of a Student**

1. Certified Laboratory Journal.
2. Study Tour Report.
3. Seminar Report (2 Seminars) / Project work.

- **Reference Books for practical**

1. Advanced Practical Physics for students, B.L. Flint & H.T. Worsnop, 1971, Asia Publishing House.
2. Advanced level Physics Practical, Michael Nelson and Jon M. Ogborn, 4th Edition, reprinted 1985, Heinemann Educational Publishers
3. A Text Book of Practical Physics, Indu Prakash and Ramakrishna, 11th Edition, 2011, Kitab Mahal, New Delhi.
4. B.Sc. Practical Physics, C.L.Arora, S.Chand & Company Pvt.Ltd., New Delhi
5. B.Sc. Practical Physics, Harman Singh, Hemane, 2012 Edition.

- **Revised Scheme of Practical Examination for B. Sc. Part – III**

1. Practical examination will be conducted annually.
2. Practical examination will be conducted for three days per batch.
3. The examination will be conducted in two sessions per day and each session will be of three hours duration.

4. Every candidate should perform one experiment each from Groups I to IV and one experiment each from Group V-A and Group V-B (total 6 experiments).
5. Study tour anywhere in India is compulsory.
6. At least eighty percent practical should be completed by the student.
7. The marks distribution for practical is as below.

Practical groups	Marks
Group I	30
Group II	30
Group III	30
Group IV	30
Group VA-15, Group VB-15	30
Group VI	
I) Certified laboratory journal (certified Journal- 10 marks, neatness-5 marks, punctuality- 5 marks)	20
II) Study Tour Report	10
III) Seminar Report / Project Report	20
Total Marks	200

Nature of Question Paper

Theory: Time -2 hours, Marks-50

Question 1: Select the correct alternative (Compulsory 10 questions) 10 marks

(Four alternatives for each question)

Question 2: (Attempt any Two out of three) 20 marks

(Long answer type)

Question 3: (Attempt any four out of six) 20 marks

(Short answer type)

- **Note:** Equal weightage should be given to each unit.

SHIVAJI UNIVERSITY, KOLHAPUR.



“A” Re-accredited By NAAC

(2014) with CGPA-3.16

NEW SYLLABUS FOR

**B.Sc. Part III
BIOCHEMISTRY**

CBCS PATTERN

SYLLBUS TO BE IMPLEMENTED FROM JUNE 2020-2021

SHIVAJI UNIVERSITY, KOLHAPUR

REVISED SYLLABUS FOR BACHELOR OF SCIENCE PART - III : BIOCHEMISTRY

1. **TITLE** :Biochemistry

2. **YEAR OF IMPLEMENTATION** :Revised Syllabus will be implemented from June 2020 onwards.

3. **PREAMBLE**:

This syllabus is framed to give sound knowledge with understanding of Biochemistry to undergraduate students of three years of B.Sc. degree course. Students learn biochemistry as a separate subject from B.Sc. I. The goal of the syllabus is to make the study of biochemistry popular, interesting and encouraging to the students for higher studies including research. The new and updated syllabus is based on a basic and applied approach with vigor and depth. At the same time precaution is taken to make the syllabus comparable to the syllabi of other universities and the needs of industries and research.

The syllabus is prepared after discussion at length with number of faculty members of the subject and experts

from industries and research fields. The units of the syllabus are well defined, taking into consideration

the level and capacity of students.

4. **GENERAL OBJECTIVES OF THE COURSE** :

- 1) To make the students knowledgeable with respect to the subject and practicable applicability.
- 2) To promote understanding of basic and advanced concepts in biochemistry.
- 3) To expose the students to various emerging areas of biochemistry.
- 4) To prepare students for further studies, helping in their bright career in subject.
- 5) To expose the students to different processes used in industries and research fields.
- 6) To develop their ability to apply the knowledge of Biochemistry In day to day life.
- 7) To prepare the students to accept the challenges in life sciences.
- 8) To develop skills required in various industries, research labs and in the field of human health.

5. **DURATION** : The course shall be a full time course .

6. **PATTERN**: Pattern of Examination will be Semester.

7. **MEDIUM OF INSTRUCTION** :The medium of instruction shall be in English.

8. **STRUCTURE OF COURSE** -

1) B. Sc. III : Total Number of Papers - 8

Sr.No.	Subjects	Marks
	SEMISTER V	
1.	Course – IX	40+10
2.	Course – X	40+10
3.	Course – XI	40+10
4.	Course – XII	40+10
	SEMISTER VI	
5.	Course – XIII	40+10
6.	Course – XIV	40+10
7.	Course – XV	40+10
8.	Course – XVI	40+10
	PRACTICAL	
1.	Practical Course	200
Total		600

2) Structure and Titles of Papers of B.Sc. III Course:

SEMESTER V

- Papers
- Course - IX (DSE – E57) - Molecular Biology
 - Course - X (DSE – E58) - Genetic Engineering
 - Course - XI (DSE – E59) - Biomembrane Transport And Cytoskeleton
 - Course – XII (DSE – E60) - Biochemical Techniques and Bioinformatics

SEMESTER VI

- Papers
- Course - XIII (DSE – F57) - Neurochemistry
 - Course - XIV (DSE – F58) - Cancer Biology
 - Course - XV (DSE – F59) - Clinical Biochemistry and Immunochemistry
 - Course - XVI (DSE – F60) - Fermentation Technology

9. SCHEME OF TEACHING AND EXAMINATION:

[The scheme of teaching and examination should be given as applicable to the course/paper concerned.]

Sr. No.	Subject/Paper	Teaching Scheme (Hrs/week)		
		L	P	Total
1	Course – IX and XIII	3		
2	Course – X and XIV	3		
3	Course – XI and XV	3		
4	Course – XII and XVI	3		12
5	Practical		20	20
	Total			32

10. SCHEME OF EXAMINATION:

- The examination shall be conducted at the end of each semester of academic year.
- Each theory paper shall carry 40 marks.
- The evaluation of the performance of the students in theory papers shall be on the basis of each semester examination of 200 marks.
- The evaluation of the performance of the students in practical shall be on the basis of annual examination of 200 marks
- Question Paper will be set in view of the / in accordance with the entire syllabus and preferably covering each unit of syllabi.

11. EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENT OF PAPERS FOR REVISED SYLLABUS

Sr. No.	TITLE OF OLD PAPER	TITLE & CODE OF NEW PAPER
1	Paper IX – Molecular Biology	Course - IX (DSE – E57) - Molecular Biology
2	Paper X – Cell Biology	Course - XI (DSE – E58) - Genetic Engineering
3	Paper XI- Biomembrane Transport And Cytoskeleton	Course - XI (DSE – E59) - Biomembrane Transport And Cytoskeleton
4	Paper XII- Biochemical Techniques	Course – XII (DSE – E60) - Biochemical Techniques and Bioinformatics
5	Paper XIII – Neurochemistry	Course - XIII (DSE – F57) – Neurochemistry
6	Paper XIV – Cancer Biology	Course - XIV (DSE – F58) - Cancer Biology

7	Paper XV – Clinical Biochemistry	Course - XV (DSE – F59) – Clinical Biochemistry and Immunochemistry
8	Paper XVI – Fermentation Technology	Course - XVI (DSE – F60) - Fermentation Technology
9	Practical	Practical

12. OTHER FEATURES :

- (A) **LIBRARY** : Reference and Text Books, Journals and Periodicals,
Reference book list is mentioned below the course syllabus.
- (B) **SPECIFIC EQUIPMENTS** : Necessary to run the Course –
OHP, Computer, L.C.D., Projector
- (C) **LABORATORY SAFETY EQUIPMENTS** :
- 1) Fire extinguisher
 - 2) First aid kit
 - 3) Fumigation chamber
 - 4) Stabilized power supply
 - 5) Insulated wiring for electric supply.
 - 6) Good valves, distribution pipes & regulators for gas supply.
 - 7) Operational manuals for instruments.
 - 8) Emergency exits

SHIVAJI UNIVERSITY, KOLHAPUR

B. Sc. III Biochemistry

Semester V

COURSE - IX (DSE – E57) MOLECULAR BIOLOGY

(Credits 2, Total lectures - 45)

Unit I

[23]

Introduction to Transcription and Translation

1. Eucaryotic transcription and regulation: (all point at introductory level)
 - a. RNA polymerase structure and assembly,
 - b. RNA polymerase I, II, III,
 - c. Transcription initiation, elongation and termination, activation and r
2. Splicing, RNA editing, Nuclear export of mRNA, mRNA stability, catalytic RNA
3. The translation machinery, ribosomes, composition and assembly,
4. Mechanism of eukaryotic translation
 - a. Initiation
 - b. Elongation
 - c. Termination

Unit II

[22]

DNA repair and mutation

1. DNA repair
2. Photoreactivation,
3. Mismatch correction
4. SOS repair.

Types of Mutation

- a. Point mutations:-Nonsense and Missense
- b. Intragenic and intergenic suppression,
- c. Frameshift mutations,
- d. Physical, chemical and biological mutagens.

Recommended books:

1. Stryer L (1995) Biochemistry, 4 th edition, W. H. Freeman & company, New York.
2. Nelson and Cox, (2010), Lehninger's Principals of biochemistry.
3. Watson J. D., Hopkins, N. H., Roberts, J. W., Steitz, J. A. and Weiner, A. M. (1988) Molecular biology of the gene, 4 th edition, The Benjamin/Cummings publishing companies, inc, California.
4. Benjamin Lewin (1999) Genes (all volumes), oxford University Press, Oxford.
5. Weaver R. F. (1999) Molecular biology, WCB McGraw-Hill companies, Inc, New York.
6. Brown T A (1995) Essential molecular biology, vol. I, A practical approach, IRL press, Oxford.
7. Genes and Genomes Maxine Singer and Paul Berg

COURSE - X (DSE – E58) GENETIC ENGINEERING

(Credits 2, Total lectures - 45)

Unit I

Introduction and tools of Genetic Engineering

[22]

1. Enzymes :- Restriction Endonuclease – introduction to class I, II, and III , eg EcoR1 BamH1 b. Reverse transcriptase c) S1 Nuclease d) DNA ligases c) Alkaline Phosphatase
2. Cloning vectors :- properties and construction of Plasmid pBR- 322, Cosmids, lamda phage
3. Passenger DNA - cDNA synthesis
4. Host e.g E. coli

Unit II

Techniques and Application of Genetic engineering

[23]

1. Gene cloning Techniques – hybridisation, r DNA synthesis, gene transfer methods, screening
2. Production of human insulin by r DNA technology
3. Principle, Working and application of PCR
4. Blotting techniques- southern and western blotting and their application
5. Application of genetic engineering.

Recommended books:

1. Genetic engineering by vermap.s
2. Principles of Gene Manipulation: An Introduction To Genetic Engineering” by Old RW and Primrose SB
3. Genetic Engineering (Oxford Higher Education)” by SmitaRastogi and Neelam Pathak
4. Genetic Engineering” by L M Narayanan and A Mani
5. Genetic Engineering” by Verma P S and Agarwal V K

COURSE - XI (DSE – E59) BIOMEMBRANE TRANSPORT AND CYTOSKELETON
(Credits 2, Total lectures - 45)

Unit I

[22]

Transport across biomembranes

Structure and function of plasma membrane (Sanger and Nicholson model)

1. Active , passive and facultative transport
2. Ion channels.
3. Symport and antiport system.
4. Organisation and significance of
 - a. Na^+ - K^+ ATPase,
 - b. Na^+ - H^+ ATPase,
 - c. Ca^{++} -ATPase pumps.
5. Endocytosis,
6. Pinocytosis and
7. Phagocytosis,
8. Receptor mediated endocytosis, transcytosis.

Unit III

[23]

Specialized transport systems and Cytoskeleton

1. Gap junctions transport,
2. Nuclear pores transport,
3. Transport of water – Aquaporins
4. Elements of cytoskeleton
 - a. Microtubules,
 - b. Microfilaments and
 - c. Intermediary filaments.

Recommended books:

1. Molecular Cell Biology by H. Lodish, David Baltimore, et al W. H. Freeman Publication, 1996
2. Biological Membranes Findlay and Evans
3. Biochemistry of Tissues by Banks
4. Cell by Cooper
5. Stryer L (1995) Biochemistry, 4 th edition, W. H. Freeman & company, New York.
6. Nelson and Cox, (2010), Lehninger's Principals of biochemistry.

**COURSE - XII (DSE – E60) BIOCHEMICAL TECHNIQUE AND BIONIFORMATICS
(Credits 2, Total lectures - 45)**

Unit I

[22]

Basic of bioinformatics

1. Introduction to bioinformatics
2. Database
3. Information source (NCBI, GDB, MGD)
3. Information source (NCBI, GDB, MGD)
4. Database retrieval tool (ENTREZ, OMIM, PubMed)
5. Database similarity searching (BLAST)
6. Applications

Unit II

[23]

Chromatography

1. Principle, technique and applications of
(Discussion should include selection of matrix, column packing sample application mechanical of separation important application and advantages)
 - a. Affinity chromatography,
 - b. HPLC
 - c. Reverse phase chromatography,
 - d. Gas chromatography
2. Electrophoresis
 1. Isoelectric focusing,
 2. Capillary electrophoresis
 3. Pulse field gel electrophoresis
 4. 2D electrophoresis

Recommended books:

- 1) Protein Purification by Robert Scopes, Springer Verlag Publication, 1982
- 2) Tools in Biochemistry David Cooper
- 3) Methods of Protein and Nucleic acid Research, Osterman Vol I – III
- 4) Centrifugation D. Rickwood
- 5) Practical Biochemistry, V th edition, Keth, Wilson and Walker.
- 6) Bioinformatics by rastogi

Semester VI

COURSE - XIII (DSE – F57) NEUROCHEMISTRY (Credits 2, Total lectures - 45)

Unit I

[22]

Nervous system

An overview of

1. Central Nervous System,
2. Peripheral and Autonomic Nervous system.
3. Cells of Nervous System – Neurons, Astrocytes, Glial cells, Oligodendrocytes and Schwann cells.

Neurotransmission

1. Membrane potentials,
2. Action potential –
 - a. Depolarization,
 - b. Repolarization and
 - c. Hyperpolarization,
3. Resting potential
4. Axonal Neurotransmission

Unit II

[23]

Neurotransmission and Disease of nervous system

1. Action of neurotransmitters
 - a. Acetyl choline,
 - b. GABA,
2. Agonists and Antagonists – their mode of action and effects
3. Disease of nervous system
 1. Parkinson's disease,
 2. Alzheimer's disease,
 3. Schizophrenia, and
 4. Multiple sclerosis.

Recommended books:

1. Neurochemistry by Ferdinand Hucho, VCH Publication, 1986
2. Molecular cell Biology, by Lodish, Baltimore, et al W.H. Freeman & Co. 1996
3. Basic Neurochemistry by M. P. Spiegel

COURSE - XIV (DSE – F58) CANCER BIOLOGY

(Credits 2, Total lectures - 45)

Unit I

[22]

Cancer cell

1. Characteristics of cancer cell
2. Types of cancer
 - a. Benign
 - b. Malignant
3. Metastasis
4. Tumor markers (CEA, AFP)

Carcinogen

1. Chemical: - Base analogues, Alkylating agents and intercalating agents
Physical: - Radiation energy
Biological mutagens: - RNA and DNA Tumor viruses and Retrovirus viral oncogene

Unit II

[23]

Chemical Carcinogenesis and therapies

1. Genetic and epigenetic carcinogens :- Src and Ras gene
2. Procarcinogens and cocarcinogens,
3. Mutagenic agents (Nicotine),
4. Testing for carcinogenicity- Ames test.
5. Physical, chemical and other therapies

Recommended books:

1. Klaassen C D, Amdur M O & Doull J (1986) Casarett and Doull's Toxicology, III rd edition, Macmillan publishing company, New York. 26
2. Williams P L & Burson J L (1985) Industrial Toxicology, Van- Nostrand Reinhold, New York.
3. Hayes A W (1988) Principles and methods of toxicology, II nd edition, Raven press New York.
4. Stewart C P & Stolman A (1960) Toxicology, vol I, Academic press, New York.

**COURSE - XV (DSE – F59) CLINICAL BIOCHEMISTRY AND IMMUNOCHEMISTRY
(Credits 2, Total lectures - 45)**

Unit I

[22]

Laboratory setup and safety and enzymes in diagnosis and monitoring of disorders
Requirements of setting up of clinical laboratory, SI units in clinical laboratory, collection preparation, preservation, and handling of clinical samples, quality control,

1. Use of enzyme in clinical biochemistry
 - a. LDH,
 - b. SGPT,
 - c. SGOT,
 - d. Acid and alkaline phosphatase,
 - e. amylase,

In diagnosis and monitoring of disorders

Unit II

[23]

Liver

1. Bilirubin metabolism,
2. Types of jaundice and clinical assesment,
3. Kidney and heart
 - a. Glomerular filtration rate
 - b. Renal threshold and clearance value
 - c. Role of enzyme in assessment of myocardial infraction
4. Immunochemistry (introductory level)
 - a. Natural and acquired immunology
 - b. Nature of immune response
 - c. T cell and B cell
 - d. Structure of IgG
 - e. Antigen – antibody interaction
 - f. Phagocytosis by microphages
 - g. Radial, single, and double diffusion method

Recommended books:

1. Clinical Chemistry by Kaplan L.A. and Pesce A. J. C. V. Mosby, 1989
2. Clinical Biochemistry by W. J. Marshall and S. K. Bangert, Churchill Livinston N.Y. 1995
3. Practical Clinical Biochemistry (Varley) by Gowenlock
4. Biochemical Aspects of Human Diseases by Elkeles and Tavill
5. Textbook of Medical Physiology by A.C. Guyton and J. E. Hall, W.B. Saunders Publication, 9th Edition , 1996

COURSE - XVI (DSE – F60) FERMENTATION TECHNOLOGY
(Credits 2, Total lectures - 45)

Unit I

[22]

Upstream Processing

1. Microbial cell growth and kinetics
2. Growth Medium – micro and macronutrients
3. Design and parts of fermenter
4. Construction materials,

Various sterilization techniques for

- a. Solid,
- b. Liquid
- c. Gases,
- d. Aeration and agitation, foam, auxillary equipments

Unit II

[23]

Fermentation and downstream processing

1. Batch,
2. Fed-batch and
3. Continuous fermentation
4. Principle of techniques- cell homogenization, liquid-liquid extraction, filtration, distillation, ultrafiltration
5. Industrial production of alcohol

Recommended books:

- 1) Moo-Young M. ed. (1985) Comprehensive Biotechnology vol: I & II, Pergamon Press N.Y.
- 2) Ratledge C and Kristiansen B. eds. (2001) Basic Biotechnology 2nd ed. Cambridge Univ Press Cambridge.
- 3) Old R.W and Primose S.D (1995) Principles of Gene Manipulation 5th ed. Blackwell Scientific Pub. Oxford.
- 4) Bailey J.E and Ollis D.F. (1986) Biochemical Engineering Fundamentals 2nd ed. McGraw Hill Book Company, N. Delhi.
- 5) Aiba S, Humphrey A. E. and N. F. Millis (1973) Biochemical Engineering, 2nd Edition University of Tokyo Press, Tokyo, Japan.

- 6) Stanbury P.F., Whitaker A, and Hall S.J. (1997) Principles of Fermentation Technology 2nd ed. Aditya Books Pvt. Ltd, N.Delhi.
- 7) Mukhopadhaya S.N. (2001) Process Biotechnology Fundamentals. Viva Books Pvt. Ltd. N.Delhi.
- 8) Rehm H.J and Reed G. (1985) Biotechnology vol. I & II. VCH, Basel.
- 9) Stainer R. Y. Ingrahm J. L., Wheelis M. L. and Painter P. R. (1987) General Microbiology 5th Edition, Macmillan Press Ltd. London

Practical Course

Figures shown to the right indicate number of practical/s required.

A] Colorimetric estimations:-

1. Estimation of bacterial protein by Folin cio-calciu method. (1)
2. Quantitative estimation of amino acids by using ninhydrin method. (1)
3. Estimation of alcohol by $K_2Cr_2O_7$. (1)
4. Estimation of total carbohydrate by Phenol- H_2SO_4 method. (1)
5. Estimation of reducing sugar by DNSA method. (1)

B] Enzyme study:-

6. Study of amylase enzyme assay . (2)
7. Study of optimum pH of Amylase. (1)
8. Study of optimum temperature of Amylase. (1)
9. Study of substrate concentration on Amylase. (1)
10. Study of effect of activator on amylase activity. (1)
11. Study of effect of inhibitor on amylase activity. (1)
12. Production of Alcohol from Beker's yeast. (2)

C] Isolations:-

12. Isolation of Chromosomal DNA from liver. (2)
13. Isolation & characterization of photosynthetic pigment chlorophyll a & b from plant. (2)
14. Isolation and characterization of Glycogen from rat liver. (1)

D] Chromatography:-

15. Preparation and activation of TLC plates. (1)
16. Separation of amino acids or sugars by using TLC. (1)
17. Separation and identification of amino acid mixture by 2D paper chromatography. (1)
18. Determination of capacity of ion exchange resin [Dowex 50]. (1)

E] Electrophoresis & Other Instrument based practicals:-

19. Preparation of gel and its casting in tray/tube. (1)
20. Separation of protein by gel electrophoresis . (1)
21. Separation of DNA by agarose gel electrophoresis. (1)
22. Titration curve of glycine by using pH meter. (1)
23. Detection of changes in confirmation of Protein by viscosity measurement. (1)
24. Study of cell lysis by homogenization or sonication method. (1)
25. Study of U.V. absorption spectra of biomolecules (Protein, nucleic acid, pigments). (1)
26. Detection of blood glucose by using Glucometer. (1)

F] Demonstration:-

27. Demonstration of Western blotting technique. (2)
28. Demonstration of PCR(1)
29. Demonstration of HPLC(1)
30. Demonstration of Fermenter(1)
31. Demonstration of transport of amino acids across the intestine. (1)
32. Separation of proteins by using molecular sieve chromatography.(1)

Recommended Books:-

1. An introduction to Practical biochemistry- David Plummer,
2. Laboratory manual in biochemistry- Jayraman, Wiley Eastern Ltd.New Dilli.
3. Modern Experimental Biochemistry-Rodny Boyer, Addison Wesley –Longman Pte Ltd.
4. Biochemical methods- Sadashivam and Manikam
5. Introductory Practical Biochemistry-Sawhney S.K. and Randhir Singh (Narosa publication).
6. Hawk's Physiological Chemistry-Oser
7. Viva and Practical Biochemistry-Dr. A. C. Deb (New central book Limited).

Practical Examination

A) The practical examination will be conducted on four (4) consecutive days for not less than 5 hours on each day of the practical examination.

B) Each candidate must produce a certificate from the Head of the Department in his/her college stating that he/she has completed in a satisfactory manner the practical course on the guidelines laid down from time to time by Academic Council on the recommendation of Board of studies and has been recorded his/her observations in the laboratory journal and written a report on each exercise performed. Every journal is to be checked and signed periodically by a member teaching staff and certified by the Head of the Department at the end of staff and certified by the Head of the Department at the end of the year. Candidates are to produce their journal at the time of practical examination. Candidates have to visit the least Two (2) places of biochemical interest (Pharmaceutical industry, Dairy, Food, Research institutes etc.) and submit the report of their visit at the time of examination. The report should be duly certified by the Head of the Department.

List of the minimum equipments and related requirements for B. Sc. III

1) Rotary shaker	: One
3) Centrifuge (High Speed)	: One
4) Hot plate	: One
5) Hot air oven	: One
6) Incubator	: One
7) Spectrophotometer	: One
8) Water bath	: One
9) Separate room for fine instruments of size 10'x15' feet dimension	: One
10) Electrophoresis assembly	: one
11) Distillation assembly	: One (Glass)
12) Reflux assembly	: Four

13) Refrigerator	: One
14) Colorimeter	: One
15) Chromatography assembly	: Four
16) Chromatography column	: Four
17) pH meter [digital]	: Two
18) Viscometer	: Four
19) Homogenization	: One
20) Sonicator	: One
21) Spectrophotometer	: One
22) Glucometer.	: One
23) Western blotting assembly	
24) PCR	
25) HPLC	
26) Fermentor	

NATURE OF QUESTION PAPER FOR THEORY IS SAME AND COMMON AS PER UNIVERSITY PATTERN

THE NATURE OF QUESTION PAPER FOR B.SC. PART III BIOCHEMISTRY PRACTICAL EXAMINATION WILL INCLUDE:

- Q. Major Experiment
- Q. Minor Experiment
- Q. Journal
- Q. Project Report:
- Q. Study Tour Report

SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade

Revised Syllabus For

Bachelor of Science Part -III

INDUSTRIAL MICROBIOLOGY

CBCS PATTERN

Syllabus to be implemented from

June, 2020 onwards.

Shivaji University, Kolhapur

Revised Syllabus For Bachelor of Science Part - III : Industrial Microbiology

1. TITLE : Industrial Microbiology

2. YEAR OF IMPLEMENTATION: Revised Syllabus will be implemented from June, 2020 onwards.

3. PREAMBLE: This syllabus is framed to give sound knowledge with understanding of Industrial Microbiology to undergraduate students at third year of three years of B.Sc. degree course.

Students learn Industrial Microbiology as a separate subject from B.Sc. I. The goal of the syllabus is to make the study of Industrial Microbiology popular, interesting and encouraging to the students for higher studies including research.

The new and updated syllabus is based on a basic and applied approach with vigour and depth. At the same time precaution is taken to make the syllabus comparable to the syllabi of other universities and the needs of industries and research. The syllabus is prepared after discussion at length with number of faculty members of the subject and experts from industries and research fields. The units of the syllabus are well defined, taking into consideration the level and capacity of students.

4. DURATION : The course shall be a full time course.

5. PATTERN: Pattern of Examination will be Semester.

6. MEDIUM OF INSTRUCTION : The medium of instruction shall be English.

7. PROGRAMME SPECIFIC OUTCOME OF INDUSTRIAL MICROBIOLOGY

The programme specific outcome of the B.Sc –III syllabus in Industrial Microbiology will enrich the students with

- Knowledge regarding basic, advanced and applicable concepts in emerging areas of Industrial Microbiology.
- Skills required for their careers in various industries, research and various branches of Life Sciences.

8. STRUCTURE OF COURSE :

- 1) B.Sc.III : Total Number of Papers - 8

Sr No	Subjects	Marks
	ANNUAL V	
1.	Course – IX	40+10
2.	Course – X	40+10
3.	Course – XI	40+10
4.	Course – XII	40+10
	ANNUAL VI	
5.	Course – XIII	40+10
6.	Course – XIV	40+10
7.	Course – XV	40+10
8.	Course - XVI	40+10
	PRACTICALS	
1.	Practical – I	50
2.	Practical – II	50
3.	Practical – III	50
4.	Practical - IV	50
Total		600

2) Structure and Titles of Papers of B.Sc.III Industrial Microbiology Course :

Annual -V

Course IX : Environmental Microbiology

Course X : Basic techniques of Biotechnology

Course XI : Quality assurance and quality control of fermented products.

Course XII : Microbial productions of metabolites and bioinsecticides

Annual -VI

Course XIII : Environmental pollution and control

Course XIV : Applications of Biotechnology

Course XV : Industrial management, Government laws and regulations.

Course XVI : Microbial fermentations, Foods and Biofuels.

9. Course specific outcome:

Course : B.Sc III

Course IX DSCC 27	Environmental Microbiology	Exploring microbial activities in soil, marine, textile, petroleum mines
Course X DSCC 28	Basic Techniques in Biotechnology	Techniques in Biotechnology and molecular biology
Course XI DSCC 29	Quality Assurance and Quality Control in Industrial Products	Rules and regulations of the regulatory authorities in QA and QC
Course XII DSCC 30	Microbial Production of Metabolites and Bioinsecticide	Industrial microbial production of health and agricultural products
Course XIII DSCC 27	Environmental Pollution and Control	Study of pollution, parameters, its assessment and monitoring in different environment
Course XIV DSCC 28	Applications of Biotechnology	Use of Biotechnology in applied fields like agriculture, industry, medical and Environment
Course XV DSCC 29	Industrial Management, Government laws and Regulations	Industrial management and laws in effective running of industry
Course XVI DSCC 30	Microbial Fermentations, Foods and Biofuels	Microbial production of liquors, biofuels and use of microbes in foods
Practical	Practical based on the above theory	Students gain knowledge / skills and techniques applied in the field of Industrial Microbiology

10. SCHEME OF TEACHING AND EXAMINATION:

[The scheme of teaching and examination should be given as applicable to the course / paper concerned.]

Sr. No	Subject/Course	Teaching Scheme(Hours/Week)			
		L	T	P	Total
1.	Course IX and X	3			
2.	Course XI and XII	3			
3.	Course XIII and XIV	3			12
4.	Course XV and XVI	3			
5.	Practical – I			5	
6.	Practical – II			5	20
7.	Practical – III			5	
8.	Practical - IV			5	
	Total				32

B.Sc part III (Industrial Microbiology) SEMESTER- V

Course -IX	Course-IX-DSCC-27 (CREDITS:02;TOTALHOURS:45) ENVIRONMENTAL MICROBIOLOGY	No .of lectures per Credit
UnitI/ Credit I	ROLE OF MICROORGANISMS IN ENVIRONMENT	22
	<p>A) SOIL ENVIRONMENT</p> <ol style="list-style-type: none"> a. Introduction,physical,chemical,microbial characters. b. Microbial interactions in soil & their role in soil fertility <p>B) ELEMENTAL CYCLES</p> <ol style="list-style-type: none"> a. Carbon cycle, Nitrogen cycle, Sulfur cycle, Phosphorus cycle b. Role of microorganisms in elemental cycles 	
UnitII/Cr edit II	EXPLORING MICROORGANISMS ASSOCIATED WITH VARIOUS ENVIRONMENTS	23
	<p>A) MICROORGANISMS IN VARIOUS ENVIRONMENTS</p> <p>a)Petroleum Microbiology :</p> <ol style="list-style-type: none"> 1. Types of compounds in petroleum. 2. Microorganisms in hydrocarbon system. 3. Role of microorganisms in hydrocarbon degradation. <p>b)Marine Microbiology:</p> <ol style="list-style-type: none"> 1. Characters of marine environment. 2. Characters of marine microorganisms. 3. Role of marine microorganisms. <p>c) Astromicrobiology (space capsule):</p> <ol style="list-style-type: none"> 1. Characteristics of space environment. 2. Microorganisms in the astro-environment. 3. Characteristics of microbes. <p>B)ROLE OF MICROORGANISMS IN BIOLEACHING AND TEXTILE INDUSTRY</p> <p>a) Bioleaching of elements</p> <ol style="list-style-type: none"> 1. Introduction, microorganisms involved, 2. Chemistry of microbial leaching and beneficiation 3. Leaching methods – Laboratory and in situ leaching of copper and uranium. 	

	b) Textile Industry <ol style="list-style-type: none">1. Introduction, types of microorganisms found on textile fibres,2. Conditions favoring the action of microorganisms,3. Types of destruction caused by microorganisms (cotton and wool) & its prevention .	
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Course -X	Course-XDSCC-28 (CREDITS:02;TOTALHOURS:45) Basic Techniques of Biotechnology	No.of lectures
Unit/ Credit I	GENETIC ENGINEERING	22
	A) BASIC CONCEPT OF GENETIC ENGINEERING a. Introduction b. Tools of genetic engineering 1. Cutting and joining enzyme. 2. Cloning Vectors – Plasmids, phage, cosmids, and artificial chromosomes- BAC & YAC 3. Cloning organisms. B) TECHNIQUES OF GENETIC ENGINEERING a. Isolation of DNA b. Construction of rDNA – Genomic library, cDNA library c. Insertion of foreign DNA into a vector – Use of restriction enzymes, linkers, Homopolymer tails, adaptors, polylinkers. d. Transfer of recombinant DNA in Bacterial Cell Transformation, transfection e. Selection of recombinants (Bacteria) - Direct selection of recombinants, Blue white screening methods	
Unit II/ Credit II	TECHNIQUES IN MOLECULAR BIOLOGY	23
	A) TECHNIQUES IN MOLECULAR BIOLOGY a. Blotting Techniques 1. Southern blotting 2. Northern blotting 3. Western blotting 4. DOT-BLOT technique b. Techniques of Detection and Analysis of Nucleic Acid 1. Radioactive labeling – Nick translation 2. Non Radioactive labeling – Horse Radish Peroxide (HRP) method c. DNA sequencing – Sanger’s method Gene editing – CRISPR-CAS technique B) PROTEIN ENGINEERING, IMMOBILIZATION AND PCR a. Protein Engineering: Definition, methods and application. b. Gene mapping c. PCR – Requirements, working, different types of PCRs, PCR product analysis, advantages & disadvantages, applications. Chemical synthesis of gene	

Course- XI	<p>Course-XIDSCC-29 (CREDITS:02;TOTALHOURS:45)</p> <p>QUALITY ASSURANCE AND QUALITY CONTROL IN INDUSTRIAL PRODUCTS</p>	
Unit I/ Credit I	INDUSTRIAL RULES & STANDARDS AS PER IP, BP, USP, EP	22
	<p>A) INDIAN PHARMACOPOEIA :</p> <ol style="list-style-type: none"> Introduction Concept of pharmacopoeia Concept of regulatory authorities Types of pharmaceutical products Microbiological Q.C <p>B) ASSAY OF MICROBIAL PRODUCTS AS PER INDIAN PHARMACOPOEIA:</p> <ol style="list-style-type: none"> Alcohol & Acetic acid Vit. A & Vit. D Bacitracin 	
Unit II/ Credit II	VALIDATION AND QUALITY CONTROL IN PHARMA INDUSTRIES	23
	<p>A) QUALITY CONTROL TESTS OF PHARMACEUTICAL PRODUCTS</p> <ol style="list-style-type: none"> Sterility test Pyrogen test Toxicity test Carcinogenicity test Mutagenicity test Allergy test <p>B) INTERNATIONAL STANDARDS AS PER WHO, ISI, AND VALIDATION IN PHARMACEUTICAL INDUSTRY</p> <ol style="list-style-type: none"> WHO & ISI standards. Validation & in-process monitoring of sterilization procedures Validation of Laminar Air Flow Cabinet 	

Course -XII	Course-XIDSCC-30 (CREDITS:02;TOTALHOURS:45) MICROBIAL PRODUCTION OF METABOLITES AND BIOINSECTICIDES	22
UnitI/ Credit I	MICROBIAL PRODUCTION OF VITAMINS, ORGANIC ACIDS AND ANTIBIOTICS	
	<p>A) Microbial Production of Vitamins:</p> <ul style="list-style-type: none"> a. Vitamin B12 - Organism used, production method-process, recovery and assay. b. Vitamin C - Organism used production method, process, recovery and assay. c. Vitamin A - Organism used, production method, process, recovery, and assay <p>B) Microbial Production of organic acid</p> <ul style="list-style-type: none"> a. Gluconic acid b. Indole Acetic Acid c. Itaconic acid <p>C) Production of Antibiotics:</p> <ul style="list-style-type: none"> a. Bacitracin b. Chloramphenicol 	
Unit II/ Credit II	PRODUCTION SAFETY, MERITS, EFFECTIVITY OF BIOPESTICIDES, TOXOIDS, SCP	23
	<p>PRODUCTION OF ANTIBIOTICS AND TOXOIDS</p> <p>A)Biopesticides:</p> <ul style="list-style-type: none"> a. B. t. <u>Bacillus thuringiensis</u> b. Baculovirus heliathius c. Trichoderma <p>B)Production of toxoids:</p> <ul style="list-style-type: none"> a. Diptheria b. Tetanus c. Botulism <p>C)SCP</p> <ul style="list-style-type: none"> a. Yeast b. Algae c. Bacteria 	

Course - XIII	Course-XIII DSCC-27 (CREDITS:02;TOTALHOURS:45) ENVIRONMENTAL POLLUTION AND CONTROL	
Unit I/ Credit I	ENVIRONMENTAL MONITORING AND E.M.S. & E.I.A.	22
	A) ENVIRONMENTAL MONITORING : a. Environmental Monitoring & Bioburden Tests b. E.M.S. (Environmental Monitoring System): Concept & Process in dairy industry B) BIOSAFETY and E.I.A. a. E.I.A. (Environmental Impact Assessment): Concept & Process of assessment b. Biosafety in Laboratories and Pharmaceutical Industries.	
Unit II/ Credit II	CHARACTERISTICS OF WASTE	23
	WASTE WATER TREATMENT : A) Characteristics of Waste Water as per CPCB norms B) Treatment Procedures : a. Physical treatment – Sedimentation, screening and removal of oil and grease. b. Biological treatments - Septic tank, bio filter, activated sludge, extended aeration, oxidation ponds, anaerobic digestion-UASB (Up flow Anaerobic Sludge Blanket), Root zone technology c. Chemical treatment – Coagulation by alum/lime/polyelectrolyte /disinfection. C) Characteristics and treatment of solid & liquid wastes of – a. Sugar Industry b. Distillery c. Dairy Industry D) Eutrophication – Classification of lakes, sources of nutrients, consequences and control.	

Course - XIV	Course- XIVDSCC-28 (CREDITS:02;TOTALHOURS:45) APPLICATIONS OF BIOTECHNOLOGY	22
Unit I/ Credit I	APPLICATIONS IN AGRICULTURE, ENVIRONMENT& INDUSTRY	
	A) APPLICATIONS OF GENETIC ENGINEERING IN AGRICULTURE a. Transgenic plants – concepts, methods for raising transgenic plants and applications. b. Transgenic animals – Concepts, methods for raising transgenic animals and applications. B) APPLICATIONS OF GENETIC ENGINEERING IN ENVIRONMENT a. Bioremediation - Use of naturally occurring microorganisms and GEMs C) APPLICATIONS OF GENETIC ENGINEERING IN INDUSTRY a. GEMs in industry: Pharmaceutical and food industry	
Unit II/ Credit II	APPLICATIONS IN MEDICAL FIELD	23
	A) MONOCLONAL ANTIBODIES AND RECOMBINANT VACCINES a. Monoclonal antibodies - Definition, production- Hybridoma technology, applications. b. Recombinant vaccines - Definition, recombinant vector vaccines, DNA vaccines, Multivalent subunit vaccines, mini cell vaccines, conjugate vaccines. B) PRODUCTION OF rDNA PRODUCTS AND MERITS, DEMERITS OF BIOTECHNOLOGY a. rDNA Products: Insulin, Somatostatin, interferons, abzymes, immunotoxins b. Merits & Demerits of Biotechnology c. Diagnostic techniques a. Detection of human and plant pathogens- ELISA, RIA b. TB detection: 1. Genexpert test 2. Line probe assay	

Course -XV	Course- XVDSCC-29 (CREDITS:02;TOTALHOURS:45) INDUSTRIAL MANAGEMENT, GOVERNMENT LAWS AND REGULATIONS	
Unit I/ Credit I	CONCEPTS OF MANAGEMENT AND ENTREPRENEURSHIP	22
	<p>A)Entrepreneurship – Principles of management, management meaning and importance, Concept of Entrepreneurship.</p> <p>B)Concepts of Management:</p> <ul style="list-style-type: none"> a. Planning meaning and importance b. Organizing - Meaning and process of organization c. Communication – Meaning and process control techniques. d. Personal Management – Man power planning e. Purchase and store management – Concept of quotation, tenders, comparative statement, inspection and quality control, store management. f. Concept of marketing – Basic Concepts, Costing, Pricing g. Financial management – Fund raising, costing and pricing. 	
UNIT II/ CREDIT II	NATIONAL AND INTERNATIONAL LAWS RELATED TO INDUSTRIAL REGULATION AND TAXATION	23
	<p>A) Basic concepts and laws relating to its infringement</p> <ul style="list-style-type: none"> a. Patent, Bio patent, Copyright, Trade secret, Trademark, Geographical Indications, Designs, its b. IPR and WTO, TRIPS c. Industrial development and regulation act 19 object, licensing and registration <p>B) Concept of tax, principles of taxation, types of tax.</p> <p>Good and service tax 2017, features and benefits of GST</p>	

Course - XVI	Course- XVI DSC C-30 (CREDITS:02; TOTAL HOURS : 45) MICROBIAL FERMENTATIONS, FOODS AND BIOFUELS	22
Unit I/ Credit I	PRODUCTION OF SCP, MUSHROOM, PROBIOTICS & INDIAN MADE FOREIGN LIQUORS	
	A) Production of SCP <ol style="list-style-type: none"> Introduction Production – Algae, Bacteria, Yeast Product quality and safety B) Production of Mushrooms <ol style="list-style-type: none"> Introduction & types Spawn production Mushroom Production & harvesting C) Probiotics <ol style="list-style-type: none"> Introduction & common properties of probiotics Examples of probiotic microorganism Use of probiotic D) Microbial production of indian made foreign liquors- gin, whiskey & rum <ol style="list-style-type: none"> Introduction Production Process Quality of Product 	
Unit II/ Credit II	PRODUCTION OF VINEGAR, EXOPOLYSACCHARIDES & BIOFUELS	23
	A) Vinegar production <ol style="list-style-type: none"> Introduction & Mechanism of vinegar production Production process : Orlean's process, Trickling type generator, Submerged culture method Types & Uses of vinegar B) Microbial Production of Exopolysaccharides <ol style="list-style-type: none"> Introduction & Mechanism of synthesis Production process of Xanthan & Dextran gum Applications of xanthan and dextran gums C) Production of biofuels <ol style="list-style-type: none"> Ethanol- microorganisms used, fermentation conditions, recovery, purification of Ethanol Biogas- Biomass used, microbiology & Biochemistry of biogas production, models used, uses of biogas Biodiesel production from Algae 	

**B.Sc. III INDUSTRIAL MICROBIOLOGY:
PRACTICAL COURSE:**

Course V	PRACTICAL COURSE V (CREDITS:02; TOTAL HOURS:180)	No. of lectures per credit
Credit I	<p>Major Experiments</p> <ol style="list-style-type: none"> 1. Determination of MIC of Cr, using suitable microbes. 2. Determination of MIC of Cu, using suitable microbes. 3. Estimation of BOD of industrial effluents. 4. Determination of COD of industrial effluents. 5. Isolation of hydrocarbon degrading microorganisms. 6. Isolation of plastic degrading microorganisms <p>Minor Experiments :</p> <ol style="list-style-type: none"> 1. Determination of oil and grease from industrial waste. 2. Estimation of TS, TSS, TVS, TDS from sewage and industrial effluent. 3. Estimation of chlorine dose of potable water. 4. Validation of Autoclave as per IP 5. Validation of Laminar air flow 	
Credit II	<p>Major Experiments :</p> <ol style="list-style-type: none"> 1. Isolation of genomic DNA from bacteria 2. Isolation of genomic DNA from yeast. 3. Isolation of plasmid DNA from bacteria. 4. Transformation in E. coli. 5. Isolation of Vit B₁₂ requiring mutants of E. coli using UV. 6. Preparation of TAB vaccine. 7. Demonstration of DNA amplification by PCR. 8. Identification of protein by western blot. 	

	Minor Experiments : <ol style="list-style-type: none"> 1. Electrophoresis of plasmid DNA by Agarose gel electrophoresis. 2. Electrophoresis of protein by PAGE. 3. Estimation of DNA by diphenylamine method. 4. Estimation of RNA by orcinol method. 5. Preparation of protoplast of bacterial cells. 6. Protoplast fusion of bacterial cells. 7. ELISA 	
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Course VI	PRACTICAL COURSE VI (CREDITS:02; TOTAL HOURS:60)	No. of lectures per credit
Credit I	Major Experiments : <ol style="list-style-type: none"> 1. SPC and identification of pathogens from - Formulation syrup 2. SPC and identification of pathogens from Tooth paste 3. SPC and identification of pathogens from Tablets 4. Bioassay of Vit. B₁₂ 5. Bioassay of Penicillin 6. Cultivation of edible mushrooms 7. Production of Biogas from organic waste 8. Production of alcohol from molasses 9. Bioassay of Bacitracin as per IP 10. Production of IAA Minor Experiments : <ol style="list-style-type: none"> 1. Chemical assay of Vit C. 2. Chemical assay of Penicillin 3. Isolation of amino acid producers 4. Quantification of amino acids 5. Estimation of alcohol 6. Chemical Assay of IAA 	
Credit II	<ol style="list-style-type: none"> 1. Compulsory “on Job training” in Industry / Institute for minimum period of one week and submission of report. 2. Project work 	

Reference Books:

BOOK	AUTHOR
SOIL MICROBIOLOGY	N.S.SUBBARAO
SOIL MICROBIOLOGY	ALEXANDER
NATURE AND PROPERTIES OF SOIL	BRADY
MODERN SOIL MICROBIOLOGY	D.V.EALASJAN
METHODS IN ENVIORNMENTAL ANALYSIS –WATER SOIL AND AIR	P. K. GUPTA
AQUATIC ECOLOGY	R.RAGOTHAMAN
WATER,ENVIRONMENT AND POLLUTION	KUMAR
AIR,ENVIRONMENT AND POLLUTION	S .S.PUROHIT
MICROBIOLOGY	PELCZAR
MICROBIAL BIOGEOCHEMISTRY	ZAJIC
WATER AND WASTE WATER TECHNOLOGY	HAMMER AND HAMMER
ECOLOGY, ENVIRONMENT AND POLLUTION	PUROHIT AND RANJAN
WASTE WATER TREATMENT	RAO AND DATTA
ENVIRONMENTAL CHEMICAL HAZARDS	KUMAR
AN INTRODUCTION TO AIR POLLUTION	TRIVEDI AND GOEL
ENVIRONMENTAL AND METAL POLLUTION	KHAN
ENVIRONMENTAL POLLUTION	KATYAL AND SATAKE
ENVIRONMENTAL POLLUTION ANALYSIS	S.M. KHOPKAR
WASTE WATER TREATMENT	M. N. RAO
ECOLOGY OF POLLUTED WATER VOLUME 1	KUMAR
AIR POLLUTION	RAO
AEROBIOLOGY	TILAK
ENVIRONMENTAL POLLUTION	PUROHIT AND AGARWAL
GENE BIOTECHNOLOGY	S.N.JOGDAND
PRINCIPLES OF GENE MANIPULATION	PRIMROSE,TWYMAN AND OLD
BIOTECHNOLOGY- FUNDAMENTALS AND APPLICATIONS	S.PUROHIT
GENETIC ENGINEERING AND ITS APPLICATIONS	P.JOSHI
BIOTECHNOLOGY-FUNDAMENTALS AND APPLICATIONS	NAIDU
TEXTBOOK OF BIOTECHNOLOGY	CHATWAL
BIOTECHNOLOGY	DUBEY
RECENT TRENDS IN BIOTECHNOLOGY	V. S. HARIKUMAR
BIO-TECHNOLOGY- FUNDAMENTALS AND APPLICATIONS	S. S. PUROHIT
PROTEIN BIOTECHNOLOGY	HAZARE
BIOTECHNOLOGY	BARNUM
PHARMACOLOGY & PHARMACOTHERAPEUTICS	R.S.SATOSKAR
PHARMACEUTICAL MICROBIOLOGY	W.B.HUGO
PHARMACEUTICAL MICROBIOLOGY	PUROHIT,SALUJA AND KAKRANI
PHARMACEUTICAL MICROBIOLOGY	HUGO AND RUSSEL
PHARMACEUTICAL MICROBIOLOGY	S. S. PUROHIT, RAJIV RAJAN.
INDIAN PHARMACOPEIA	
FERMENTATION TECHNOLOGY	PEPPLER
PREVENTION OF FOOD ADULTERATION ACT 1954	
Industrial Microbiology	
Indian Pharmacopoeia Latest Edition	E.L. MANASI
European pharmacopoeia latest edition	

COMMON NATURE OF QUESTION FOR THEORY PAPER MENTIONED SPERATELY:

Practical Examination

- A) Exam will be conducted on 3 consecutive days for not less than 6 hours on each day.
- B) Each candidate must produce a certificate from the Head of the Department in his/her college stating that he/she has completed in a satisfactory manner the practical course on the guidelines laid down from time to time by Academic Council on the recommendation of Board of studies and has been recorded his/her observations in the laboratory journal and written a report on each exercise performed. Every journal is to be checked and signed periodically by a member teaching staff and certified by the Head of the Department at the end of staff and certified by the Head of the Department at the end of the year. Candidates are to produce their journal at the time of practical examination. Candidates have to visit the least Two (2) places of Microbiological interest (Pharmaceutical industry, Dairy, Research institutes etc.) and submit the report of their visit at the time of examination.
- C) Each candidate must undergo on job training in an industry / institute for minimum 1 week and submit the report.
- D) The candidates are required to undertake a project and submit the project report

Nature Of Question Paper And Distribution Of Marks For B.Sc. III Industrial Microbiology Practical Examination

PRACTICAL I

Q.1 Major Experiment	20 Marks
Q.2 Minor Experiment	15 Marks

PRACTICAL II

Q.1 Major Experiment	20 Marks
Q.1 Major Experiment	15 Marks

PRACTICAL III

Q.1 Major Experiment	20 Marks
Q.2 Minor Experiment	15 Marks

PRACTICAL IV

Q.1 Project

35 Marks

Q5. ON JOB TRAINING

20 Marks

Q6. JOURNAL

20 Marks

Q7. SPOTTING / VIVA COURSE

10 Marks

Q8. TOUR REPORT

10 Marks