

University of Mumbai



No. AAMS(UG)/49 of 2021-22

CIRCULAR:-

Attention of the Principals of the Affiliated Colleges and Directors of the Recognized Institutions in Faculty of Humanities is invited to this office circular No. UG/60 of 2018-19, dated 6th July, 2018 relating to the revised syllabus as per the (CBCS) of T.Y.B.A. in Hindi - Sem. V & VI.

They are hereby informed that the recommendations made by the Board of Studies in Hindi at its online meeting held on 12th April, 2021 vide item No. 1 and subsequently passed by the Board of Deans at its meeting held on 11th June, 2021 vide item No. 5.1 (R) have been accepted by the Academic Council at its meeting held on 29th June, 2021 vide item No. 5.1 (R) and that in accordance therewith, the revised syllabus as per the (CBCS) of T.Y.B.A. (Hindi) - Sem V and VI has been brought into force with effect from the academic year 2021-22 accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI-400 032
22nd September, 2021

(Dr. B.N. Gaikwad)
I/c REGISTRAR

The Principals of the Affiliated Colleges the Head of the University Departments and Directors of the Recognized Institutions in Faculty of Humanities. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)

A.C/5.1(R)/29/06/2021

No. AAMS(UG) 49 - A of 2021-22

MUMBAI-400 032

22nd September, 2021

Copies forwarded with Compliments for information to:-

- 1) The Dean Faculty of Humanities,
- 2) The Chairman, Board of Studies in Hindi,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Co-ordinator, University Computerization Centre,

(Dr. B.N. Gaikwad)
I/c REGISTRAR



PRINCIPAL

Arts, Commerce & Science College, Kharepatan,
A.P. Kharepatan, Tal. Kankavli, Dist. Sindhudurg.



UNIVERSITY OF MUMBAI

REVISED SYLLABUS AND PATTERN OF QUESTION PAPER IN THE SUBJECT OF HINDI

AT THE

T.Y.B.A. EXAMINATION

**CHOICE BASED CREDIT SYSTEM
(C.B.C.S.)**

(PAPER - IV, V, VI, VII, VIII, IX)

(With Effect From The Academic Year : 2021-2022)

Arts, Commerce & Science College, Kharepatan, Tal. Kankavli, Dist. Sindhudurg

PRINCIPAL

Arts, Commerce & Science College, Kharepatan,
A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg

NAME OF PROGRAM	T. Y. B. A. (C.B.C.S.) IV
NAME OF THE COURSE	T.Y.B.A. HINDI
SEMESTER	V
PAPER NAME	HISTORY OF HINDI LITERATURE हिंदी साहित्य का इतिहास
PAPER NO.	IV
COURSE CODE	UAHIN-501
LACTURE	60
CREDITS & MARKS	CREDITS - 4 & MARKS-100

हिंदी साहित्य का इतिहास

इकाई- I हिंदी साहित्य का इतिहास-

- हिंदी साहित्य का काल-विभाजन
- हिंदी साहित्य का नामकरण

इकाई- II आदिकाल-

- आदिकालीन हिंदी साहित्य की पृष्ठभूमि
- सिद्ध, नाथ, जैन एवं रासो साहित्य की प्रमुख विशेषताएँ

इकाई- III भक्तिकाल-

- भक्तिकालीन हिंदी साहित्य की पृष्ठभूमि
- संत काव्य, सूफी काव्य, रामभक्ति काव्य, कृष्णभक्ति काव्य की सामान्य विशेषताएँ

इकाई- IV रीतिकाल-

- रीतिकालीन हिंदी साहित्य की पृष्ठभूमि
- रीतिबद्ध, रीतिसिद्ध एवं रीतिमुक्त काव्य की प्रमुख प्रवृत्तियाँ



PRINCIPAL
Arts, Commerce & Science College, Kharasa

NAME OF PROGRAM	T. Y. B. A. (C.B.C.S.) IV
NAME OF THE COURSE	T.Y.B.A. HINDI
SEMESTER	VI
PAPER NAME	HISTORY OF MODERN HINDI LITERATURE आधुनिक हिंदी साहित्य का इतिहास
PAPER NO.	IV
COURSE CODE	UAHIN-601
LACTURE	60
CREDITS & MARKS	CREDITS- 4 & MARKS- 100

आधुनिक हिंदी साहित्य का इतिहास

इकाई- I (क) आधुनिक हिंदी कविता का विकास

- आधुनिक काल – हिंदी साहित्य की पृष्ठभूमि एवं प्रवृत्तियों का सामान्य परिचय
- भारतेन्दु युग
- द्विवेदी युग
- छायावाद

इकाई- II

- प्रगतिवाद
- प्रयोगवाद
- नई कविता
- समकालीन कविता

इकाई- III (ख) आधुनिक हिंदी साहित्य की गद्य विधाओं का विकास-

- उपन्यास
- कहानी
- आलोचना

इकाई- IV

- आत्मकथा
- जीवनी
- संस्मरण




PRINCIPAL

Arts, Commerce & Science College, Kharepatan
A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg.

NAME OF PROGRAM	T. Y. B. A. (C.B.C.S.) V
NAME OF THE COURSE	T.Y.B.A. HINDI
SEMESTER	V
PAPER NAME	POST INDEPENDENCE HINDI LITERATURE स्वातंत्र्योत्तर हिंदी साहित्य
PAPER NO.	V
COURSE CODE	UAHIN-502
LACTURE	60
CREDITS & MARKS	CREDITS - 4 & MARKS - 100

स्वातंत्र्योत्तर हिंदी साहित्य

इकाई- I

- नाटक : अर्थ, परिभाषा, स्वरूप एवं विकास
- नाटक के तत्व एवं प्रकार

इकाई- II निर्धारित पाठ्य पुस्तक-

- काला पत्थर - (नाटक) : डॉ. सुरेश शुक्ल 'चन्द्र'
अमन प्रकाशन, कानपुर

इकाई- III

- एकांकी : अर्थ, परिभाषा, स्वरूप एवं विकास
- नाटक और एकांकी में साम्य-वैषम्य

इकाई- IV निर्धारित पाठ्य पुस्तक-

- एकांकी-सुमन (एकांकी-संग्रह) संपादन: हिंदी अध्ययन मंडल, मुंबई विश्वविद्यालय, मुंबई,
वाणी प्रकाशन 4695, 21-ए, दरियागंज, नई दिल्ली

पाठ्यक्रम के लिए निर्धारित एकांकी-

- दीपदान - रामकुमार वर्मा
- और वह जा न सकी - विष्णु 'प्रभाकर'
- बहू की विदा - विनोद रस्तोगी
- रात के राही - ब्रज भूषण
- जान से प्यारे - ममता कालिया
- अन्वेषक - प्रताप सहगल
- नो एडमिशन - संजीव निगम



PRINCIPAL

Arts, Commerce & Science College, Kharepatan
Tal. Kankavli, Dist. Sindhudurg

NAME OF PROGRAM	T. Y. B. A. (C.B.C.S.) VI
NAME OF THE COURSE	T.Y.B.A. HINDI
SEMESTER	VI
PAPER NAME	POST INDEPENDENCE HINDI LITERATURE स्वातंत्र्योत्तर हिंदी साहित्य
PAPER NO.	V
COURSE CODE	UAHIN-602
LACTURE	60
CREDITS & MARKS	CREDITS - 4 & MARKS -100

स्वातंत्र्योत्तर हिंदी साहित्य

इकाई- I

- कविता : अर्थ, परिभाषा एवं स्वरूप
- स्वातंत्र्योत्तर कविता : संवेदना और शिल्प

इकाई- II निर्धारित पाठ्य पुस्तक-

- काव्य-सौरभ (कविता-संग्रह)-संपादन: हिंदी अध्ययन मंडल, मुंबई विश्वविद्यालय, मुंबई, राजकमल प्रकाशन, दरियागंज, नई दिल्ली

पाठ्यक्रम के लिए निर्धारित कविताएँ-

- यात्री – सच्चिदानंद हीरानंद वात्स्यायन 'अज्ञेय'
- उनको प्रणाम – नागार्जुन
- नया कवि – गिरिजाकुमार माथुर
- प्रमथ्यु गाथा – धर्मवीर भारती
- इस तरह तो – बालस्वरूप 'राही'
- पानी में धिरे हुए लोग – केदारनाथ सिंह
- थोड़े-से बच्चे और बाक़ी बच्चे – चंद्रकांत देवताले
- सिलसिला – सुदामा पाण्डेय 'धूमिल'
- रात किसी का घर नहीं – राजेश जोशी
- चुप्पी टूटेगी – ओमप्रकाश वाल्मीकि
- बाज़ारे-नुमाइश में – दीक्षित दनकौरी
- बूढ़ी पृथ्वी का दुख – निर्मला पुतुल



PRINCIPAL

Arts, Commerce & Science College Kharepatan,
A/p. Kharepatan Tal Kankavli Dist. Sindhudurg.



NAME OF PROGRAM	T. Y. B. A. (C.B.C.S.) VI
NAME OF THE COURSE	T.Y.B.A. HINDI
SEMESTER	V
PAPER NAME	INFORMATION TECHNOLOGY IN HINDI हिन्दी में सूचना प्रौद्योगिकी
PAPER NO.	VI
COURSE CODE	UAHIN-503
LACTURE	45
CREDITS & MARKS	CREDITS - 4 & MARKS - 80

हिन्दी में सूचना प्रौद्योगिकी

इकाई- I

- सूचना प्रौद्योगिकी : अर्थ, परिभाषा, स्वरूप और विकास
- सूचना प्रौद्योगिकी : समस्याएँ, सीमाएँ और चुनौतियाँ
- सूचना प्रौद्योगिकी : सकारात्मक और नकारात्मक प्रभाव

इकाई- II

- सूचना प्रौद्योगिकी का व्यवहार क्षेत्र : समान्य परिचय
- सूचना प्रौद्योगिकी का जनसंचार के क्षेत्र में योगदान और महत्व
(हिन्दी पत्रकारिता: प्रिंट मीडिया, इलेक्ट्रॉनिक मीडिया के संदर्भ में)
- सूचना प्रौद्योगिकी : शिक्षा के क्षेत्र में उपादेयता

इकाई-III

- सूचना प्रौद्योगिकी : हिन्दी भाषा और देवनागरी लिपि का वैश्विक प्रयोग
- सूचना प्रौद्योगिकी : हिन्दी सॉफ्टवेयर परिचय, अनुप्रयोग और महत्व
- सूचना प्रौद्योगिकी के क्षेत्र में हिन्दी भाषा और देवनागरी लिपि के वैश्विक प्रसार
में विविध संस्थानों की भूमिका/योगदान (राजभाषा विभाग, केन्द्रीय हिन्दी
संस्थान, आगरा, सी-डैक पुणे, भारतीय प्रौद्योगिकी संस्थान)

इकाई- IV

- इन्टरनेट और हिन्दी (यूनिकोड फॉण्ट परिवर्तक, देवनागरी लिपि टाइपिंग टूल,
हिन्दी में ईमेल, नेट पर हिन्दी विज्ञापन, हिन्दी की साहित्यिक ई-पत्रिकाएँ, हिन्दी
ब्लॉग)
- भारत में डिजिटलाइजेशन और हिन्दी
- सूचना प्रौद्योगिकी के क्षेत्र में हिन्दी आधारित रोजगार की संभावनाएँ

सूचना: प्रकल्प -20 अंक

(पाठ्यक्रम से संबंधित किसी भी विषय पर 15 से 20 पृष्ठों का प्रकल्प तैयार करना अपेक्षित है।)

PRINCIPAL

NAME OF PROGRAM	T. Y. B. A. (C.B.C.S.) VI
NAME OF THE COURSE	T.Y.B.A. HINDI
SEMESTER	VI
PAPER NAME	SOCIAL MEDIA सोशल मीडिया
PAPER NO.	VI
COURSE CODE	UAHIN-603
LACTURE	45
CREDITS & MARKS	CREDITS - 4 & MARKS - 80

सोशल मीडिया

इकाई- I

- सोशल मीडिया: अर्थ, स्वरूप और विकास
- सोशल मीडिया का व्यवहार क्षेत्र और महत्व
- सोशल मीडिया: चुनौतियाँ और संभावनाएँ

इकाई- II

- सोशल मीडिया में हिन्दी भाषा एवं देवनागरी लिपि का प्रयोग तथा हिन्दी का बदलता रूप (फेसबुक, व्हाट्सअप, ट्विटर, मैसेन्जर, इन्स्टाग्राम, यूट्यूब)
- सोशल मीडिया: शिक्षा के क्षेत्र में उपादेयता
- सोशल मीडिया: हिन्दी का प्रयोग और रोजगार की संभावनाएँ

इकाई- III

- सोशल मीडिया के प्रभाव(राजनीतिक, सामाजिक, आर्थिक, धार्मिक और सांस्कृतिक,)
- सोशल मीडिया: बदलता भारतीय परिवेश (बाल, युवाओं, महिलाओं और वृद्धों के संदर्भ में)
- सोशल मीडिया का जीवन - मूल्यों पर प्रभाव

इकाई- IV

- सोशल मीडिया और कानून
- सोशल मीडिया और मुक्त अभिव्यक्ति तथा दायित्वबोध
- सोशल मीडिया की वैश्विक-व्याप्ति

सूचना: प्रकल्प - 20 अंक

(पाठ्यक्रम से संबंधित किसी भी विषय पर 15 से 20 पृष्ठों का प्रकल्प तैयार करना अपेक्षित है।)



PRINCIPAL

Arts, Commerce & Science College Khare
A.P. Kharepatan, Tal. Kankavli, Dist. Sindh

University of Mumbai



No. UG/29 of 2019-20

CIRCULAR:-

Attention of the Principals of the Affiliated Colleges and Directors of the recognized Institutions in Humanities Faculty is invited to this office Circular No. UG/51 of 2017-18, dated 15th July, 2017 relating to the revised syllabus as per (CBCS) of F.Y.B.A. in Hindi (Compulsory & Ancillary) (Sem. I & II).

They are hereby informed that the recommendations made by the Board of Studies in Hindi at its meeting held on 9th April, 2019 have been accepted by the Academic Council at its meeting held on 15th April, 2019 vide item No. 4.23 & 4.24 and that in accordance therewith, the revised syllabus as per the (CBCS) for the F.Y.B.A. Compulsory & Ancillary (Sem. I & II) in Hindi has been brought into force with effect from the academic year 2019-20, accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI - 400 032
3rd June, 2019

To

(Dr. Ajay Deshmukh)
REGISTRAR

The Principals of the affiliated Colleges and Directors of the recognized Institutions in Humanities Faculty. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)

A.C./4.23 & 4.24 /15/04/2019

No. UG/29 -A of 2019

MUMBAI-400 032

3rd June, 2019

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculty of Humanities,
- 2) The Chairman, Board of Studies in Hindi,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Professor-cum-Director, Institute of Distance and Open Learning (IDOL),
- 5) The Director, Board of Students Development,
- 6) The Co-ordinator, University Computerization Centre,

(Dr. Ajay Deshmukh)
REGISTRAR



PRINCIPAL

Arts, Commerce & Science College, Kharepatan,
A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg.

Arts, Commerce & Science College, Kharepatan,
A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg.



UNIVERSITY OF MUMBAI
Revised Syllabus
And
Pattern of Question Paper in the
Subject of
Hindi
At the
F.Y.B.A. Ancillary Examination
As per
CHOICEBASED CREDIT SYSTEM (CBCS)
(With effect from the Academic Year: 2019-2020)


PRINCIPAL

Arts, Commerce & Science College Kharepatan,
A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg.



	SEMESTER – I
NAME OF PROGRAM	: B.A.
NAME OF THE COURSE	: F.Y.B.A. Ancillary Hindi (ऐच्छिक हिन्दी)
COURSECODE	: UAHIN 101
TOTAL LECTURES	: 60
CREDITS	: 3

Aims and Objectives:

1. विद्यार्थियों को गद्य विधाओं की प्रचलित रचना कहानी, निबंध आदि के अतिरिक्त आत्मकथा, जीवनी, संस्मरण, यात्रा वृत्तान्त और रेखाचित्र आदि नवीनतम विधाओं से परिचित कराना।
2. हिंदी कहानी के आरंभ से लेकर अद्यतन कहानी की प्रवृत्तियों एवं कहानी के विकास से अवगत कराना।
3. विद्यार्थियों का नवीन गद्य विधाओं के स्वरूप-विवेचन तथा विशेषताओं से परिचय कराना।

निर्धारित पाठ्य पुस्तकें:

- 1) **कथा संचयन**: संपादन : हिंदी अध्ययन मंडल, मुंबई विश्वविद्यालय, मुंबई
लोकभारती प्रकाशन, इलाहाबाद -1

1. उसने कहा था	- चन्द्रधर शर्मा 'गुलेरी'
2. परीक्षा	- प्रेमचन्द
3. चित्र का शीर्षक	- यशपाल
4. दिल्ली में एक मौत	- कमलेश्वर
5. फैसला	- भीष्म साहनी
6. बहादुर	- अमरकांत
7. आस्था के आयाम	- मालती जोशी
8. बेटी	- मैत्रेयी पुष्पा
9. परदेसी	- ममता कालिया
10. निर्वासित	- सूर्यबाला


PRINCIPAL

Arts Commerce & Science College, Kharepatan
A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg

2) गद्य के विविध आयाम : संपादन : हिंदी अध्ययन मंडल, मुंबई विश्वविद्यालय, मुंबई
राजकमल प्रकाशन, 1-बी. नेताजी सुभाष मार्ग,
नई दिल्ली-110002

- | | |
|------------------------|---------------------------------------|
| 1. महात्मा गांधी | - मेरा विद्यार्थी-काल (आत्मकथा) |
| 2. शांतिप्रिय द्विवेदी | - तू तो मुझसे भी अभागा है (रेखाचित्र) |
| 3. हरिशंकर परसाई | - सद्गुरु का कहना है (व्यंग्य) |
| 4. देवेंद्रनाथ ठाकुर | - शाहजहाँ के आँसू (एकांकी) |
| 5. फणीश्वरनाथ रेणु | - यशपाल (संस्मरण) |
| 6. विजय कुमार संदेश | - मेरी अंडमान यात्रा (यात्रावृत्त) |
| 7. समाज सेवा | - पदुमलाल पुन्नालाल बख्शी (निबंध) |
| 8. मनमोहन मदारिया | - हंसिनी की भविष्यवाणी (लोककथा) |

प्रथम सत्र यूनिट विभाजन

1) कथा संचयन : संपादन : हिंदी अध्ययन मंडल, मुंबई विश्वविद्यालय, मुंबई

यूनिट-1. (पाठ वाचन, व्याख्या और समीक्षा)

व्याख्यान - 15

- | | |
|----------------------|---------------------------|
| 1. उसने कहा था | - चन्द्रधर शर्मा 'गुलेरी' |
| 2. परीक्षा | - प्रेमचन्द |
| 3. चित्र का शीर्षक | - यशपाल |
| 4. दिल्ली में एक मौत | - कमलेश्वर |
| 5. फैसला | - भीष्म साहनी |

यूनिट-2. (पाठ वाचन, व्याख्या और समीक्षा)

व्याख्यान - 15

- | | |
|------------------|-------------------|
| 6. बहादुर | - अमरकांत |
| 7. आस्था के आयाम | - मालती जोशी |
| 8. बेटा | - मैत्रेयी पुष्पा |
| 9. परदेसी | - ममता कालिया |
| 10. निर्वासित | - सूर्यबाला |

Principal

Arts, Commerce & Science College, Kharapatan
A.P. Kharapatan, Tal. Kankavli, Dist. Sindhudurg.

SEMESTER – II

NAME OF PROGRAM	: B.A.
NAME OF THE COURSE	: F.Y.B.A. Ancillary Hindi (ऐच्छिक हिन्दी)
COURSECODE	: UAHIN 201
TOTAL LECTURES	: 60
CREDITS	: 3

Aims and Objectives:

1. विद्यार्थियों को गद्य विधाओं की प्रचलित रचना कहानी, निबंध आदि के अतिरिक्त आत्मकथा, जीवनी, संस्मरण, यात्रा वृत्तान्त और रेखाचित्र आदि नवीनतम विधाओं से परिचित कराना।
2. हिंदी कहानी के आरंभ से लेकर अद्यतन कहानी की प्रवृत्तियों एवं कहानी के विकास से अवगत कराना।
3. विद्यार्थियों का उपन्यास के स्वरूप - विवेचन तथा विशेषताओं से परिचय कराना।

निर्धारित पाठ्य पुस्तकें:

- 1) जंगल के जुगनू (उपन्यास) - देवेश ठाकुर

वाणी प्रकाशन, 21-ए दरियागंज, नई दिल्ली - 110002

- 2) गद्य के विविध आयाम : संपादन : हिंदी अध्ययन मंडल, मुंबई विश्वविद्यालय, मुंबई
राजकमल प्रकाशन, 1-बी. नेताजी सुभाष मार्ग,
नई दिल्ली-110002

- | | |
|-------------------------|--|
| 9. रामधारी सिंह 'दिनकर' | -नेता नहीं, नागरिक चाहिए (निबंध) |
| 10. महादेवी वर्मा | -बदलू (संस्मरण) |
| 11. बनारसीदास चतुर्वेदी | - बाईस वर्ष बाद (रेखाचित्र) |
| 12. मोहन राकेश | - स्वामी दयानन्द (जीवनी) |
| 13. शंकर पुणतांबेकर | - एक मूर्ति कथा (व्यंग्य) |
| 14. जगदीशचंद्र माथुर | - मकड़ी का जाला (एकांकी) |
| 15. गुणाकर मुले | - कम्प्यूटर: नई क्रांति की दस्तक (वैज्ञानिक लेख) |
| 16. अमृतलाल बेगड़ | - सौंदर्य की नदी नर्मदा (यात्रावृत्त) |

PRINCIPAL

Arts, Commerce & Science College, Kharepatan
Tal. Kankavli, Dist. Sindhudurg

University of Mumbai



No. UG/22 of 2020-21



CIRCULAR:-

Attention of the Principals of the Affiliated Colleges and Directors of the recognized Institutions in Humanities Faculty is invited to this office circular No.UG/25 of 2018-19, dated 22nd June, 2018 relating to the revised syllabus as per the (CBCS) for the S.Y.B.A. in Hindi - Sem.III & IV.

They are hereby informed that the recommendations made by the Board of Studies in Hindi at its online meeting held on 7th April, 2020 vide item No. 5 and subsequently made by the Board of Deans at its meeting held on 26th June, 2020 vide item No. 11 (35) have been accepted by the Academic Council at its meeting held on 23rd July, 2020 vide item No. 4.55 and that in accordance therewith, the revised syllabus as per the (CBCS) of S.Y. B.A paper II - Paper III in Hindi has been brought into force with effect from the academic year 2020 -21 accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI - 400 032
11th November, 2020


(Dr. Vinod Patil)
I/c REGISTRAR

To

Attention of the Principals of the Affiliated Colleges and Directors of the recognized Institutions in Humanities Faculty. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)

A.C/4.55/23/07/2020

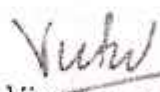
No. UG/ 22-A of 2020-21

MUMBAI-400 032

Copy forwarded with Compliments for information to:-

11th November, 2020

- 1) The Dean, Faculty of Humanities,
- 2) The Chairman, Board of Studies in Hindi
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Co-ordinator, University Computerization Centre,


(Dr. Vinod Patil)
I/c REGISTRAR


PRINCIPAL

Arts, Commerce & Science College, Kharepatan,
A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg



UNIVERSITY OF MUMBAI
Revised Syllabus
And
Pattern of Question Paper in the
Subject of Hindi
At the
S.Y.B.A. PAPER- II & III
CHOICE BASED CREDIT SYSTEM (CBCS)

(With effect from the Academic Year: 2020-2021)




PRINCIPAL

Arts, Commerce & Science College, Kharepatan,
Alp, Kharepatan, Tal. Kankavli, Dist. Sindhudurg.



PAPER II, SEMESTER – III

NAME OF PROGRAM	: B. A. (C.B.C.S)
NAME OF THE COURSE	: S. Y. B. A.
COURSE CODE	: UAHIN301
TOTAL LECTURES	: 45
CREDITS	: 03

अभिप्राय एवं उद्देश्य- Aims and Objectives:

1. विद्यार्थियों को हिन्दी की मध्यकालीन और आधुनिककालीन पद्य विधाओं की प्रसिद्ध, प्रचलित रचनाओं एवं परिवेश की जानकारी प्रदान करते हुए दार्शनिक, सामाजिक, राष्ट्रीय, मानवीय और नवीनतम आधुनिक जीवन-शैली संबंधी मूल्यों का परिचय कराना।
2. हिंदी काव्य के मध्यकाल से लेकर अद्यतन काव्य की प्रवृत्तियों एवं कविता के विकास से अवगत कराते हुए काव्य के सामाजिक, मानवीय सरोकारों के साथ पर्यावरण-चेतना को समृद्ध करना।
3. काव्य के अंतर्गत प्रयुक्त विभिन्न शैलियों का परिचय कराते हुए उसकी शिल्पगत बनावट के साथ जीवन के क्षेत्र में काव्य की उपादेयता को दर्शाना।

परिणाम- Outcomes:

1. विद्यार्थियों में मानवीय संवेदनाओं के विकास के साथ नवीन सामाजिक, सांस्कृतिक बोध और जीवन मूल्यों का विकास होगा।
2. विद्यार्थियों में साहित्य के माध्यम से कलात्मक गुणों की अभिवृद्धि होगी, कला की साहित्यिक विधाओं के प्रति अभिरुचि जागृत होगी तथा रचनात्मक-कौशल को बढ़ावा मिलेगा।
3. विद्यार्थियों में नये वैश्विक-मूल्यों के प्रति सजगता को बढ़ावा मिलेगा एवं पर्यावरणीय चेतना के प्रति दायित्व-बोध उत्पन्न होगा।

अध्यापन प्रणालियाँ- Teaching Method:

1. व्याख्यान, विश्लेषण तथा व्याख्यात्मक पद्धति का प्रयोग।
2. दृश्य/श्रव्य माध्यमों और संगणक का प्रयोग।
3. उदाहरण द्वारा पुष्टि एवं लेखकों के अतिथि व्याख्यान।
4. स्वाध्याय / परियोजना।


PRINCIPAL

Arts, Commerce & Science College, Kharepatan
Tal. Kankavli, Dist. Sindhudurg

S. Y. B. A. PAPER II, SEMESTER -IV (C.B.C.S)

निर्धारित पाठ्य पुस्तकें :

1. व्यंग्य-वीथी

संपादन : हिंदी अध्ययन मंडल, मुंबई विश्वविद्यालय, मुंबई
राधाकृष्ण प्रकाशन, जी-17 जगतपुरी, दिल्ली-110 051

पाठ्यक्रम के लिए निर्धारित व्यंग्य निबंध-

1. वसीयत	:	भगवती चरण वर्मा
2. सुदामा के चावल	:	हरिशंकर कर परसाई
3. एक लाख	:	शंकर पुणतांबेकर
4. बापू की विरासत	:	नामवर सिंह
5. बंसी वाले का पुजारी	:	शरद जोशी
6. वाह रे ! हमदर्द	:	घनश्याम अग्रवाल
7. प्रभु जी, तुम डॉलर हम पानी	:	सूर्यबाला
8. छूकर चरण भाग्य बनाते हैं	:	स्नेहलता पाठक
9. कन्या रत्न का दर्द	:	प्रेम जनमेजय
10. वाशिंग मशीन में बाल सरस्वती	:	बी. एल. आच्छा
11. गाँव के स्कूल में कम्प्यूटर	:	ज्ञान चतुर्वेदी
12. ऐनक के बहाने	:	ब्रजेश कानूनगो

2. शकुंतिका (उपन्यास)

: लेखक - भगवानदास मोरवाल

प्रकाशक : राजकमल प्रकाशन, 1-बी. नेताजी सुभाष मार्ग, नई दिल्ली।

इकाई- विभाजन- SEMESTER-IV, PAPER II, COURSE CODE- UAHIN401

इकाई-1-व्याख्यान-08- वसीयत से बापू की विरासत निबंध तक (पाठ वाचन एवं व्याख्या)

इकाई-2-व्याख्यान-08-बंसी वाले का पुजारी से छूकर चरण भाग्य बनाते हैं निबंध तक (पाठ वाचन एवं व्याख्या)

इकाई-3-व्याख्यान-08- कन्या रत्न का दर्द से ऐनक के बहाने व्यंग्य निबंध तक (पाठ वाचन एवं व्याख्या)

इकाई-4-व्याख्यान-08- उपन्यास (पाठ वाचन एवं व्याख्या)

इकाई-5-व्याख्यान-08- उपन्यास (पाठ वाचन एवं व्याख्या)

व्याख्यान-05-पाठालोचन और प्रश्न चर्चा

क्रेडिट- 03


PRINCIPAL

S. Y. B. A. PAPER- III, SEMESTER -III

इकाई 1. प्रयोजनमूलक हिंदी :

- प्रयोजनमूलक हिंदी : अर्थ और परिभाषा
- सामान्य हिंदी, साहित्यिक हिंदी
- प्रयोजनमूलक हिंदी : स्वरूप एवं विशेषताएँ
- प्रयोजनमूलक हिंदी : व्यवहार क्षेत्र

इकाई 2. कार्यालयीन एवं व्यावसायिक पत्र-लेखन :

- कार्यालयीन पत्र : कार्यालय आदेश, कार्यालय ज्ञापन, परिपत्र, अनुस्मारक
- व्यावसायिक पत्र : आवेदन (रिक्त पद/अवकाश), पूछताछ, क्रयादेश
- शिकायती पत्र (सार्वजनिक)

इकाई 3. अनुवाद :

- अनुवाद : अर्थ, परिभाषा
- अनुवाद के भेद:
 - (i) शब्दानुवाद (ii) भावानुवाद
 - (iii) अर्थानुवाद (iv) सारानुवाद
 - (v) सर्जनात्मक अनुवाद (काव्यानुवाद/कथानुवाद)
- अनुवाद : महत्व एवं उपयोगिता

इकाई 4. पत्रकारिता :

- पत्रकारिता : परिभाषा, स्वरूप और महत्व
- हिंदी पत्रकारिता : विकासक्रम
- पत्रकारिता के विविध रूप (खेल पत्रकारिता, इलेक्ट्रॉनिक माध्यमों की पत्रकारिता, साहित्यिक- संस्कृतिक पत्रकारिता)

इकाई 5. व्यावहारिक अनुवाद : पारिभाषिक शब्दावली

- अंग्रेजी / मराठी से हिंदी में अनुवाद
- पारिभाषिक शब्दावली : अर्थ, परिभाषा और महत्व
- निर्धारित पारिभाषिक शब्दों के 50 हिन्दी प्रतिशब्द

1. Accounting Year	: लेखा वर्ष
2. Approval	: अनुमोदन
3. Arrears	: बकाया राशि
4. Basic Pay	: मूलवेतन
5. Brought Forward	: आगे लाया गया
6. Concerned	: संबंधित
7. Confidential	: गोपनीय

PRINCIPAL



S. Y. B. A. PAPER III, SEMESTER – IV

इकाई 1. जनसंचार :

- अर्थ, परिभाषा एवं स्वरूप
- जनसंचार के तत्त्व

इकाई 2. जनसंचार माध्यम :

- परंपरागत संचार माध्यमों का सामान्य परिचय एवं भेद (तमाशा, लावणी, कठपुतली, नोटंकी, कीर्तन, लोक-संगीत)
- आधुनिक जनसंचार माध्यमों का सामान्य परिचय एवं भेद (मुद्रित एवं इलेक्ट्रॉनिक)

इकाई 3. जनसंचार माध्यमों का विकास एवं उपयोगिता :

- (i) समाचार पत्र (ii) रेडियो (iii) सिनेमा
- (iv) टेलीविजन (v) कंप्यूटर (vi) मोबाइल
- (vii) सोशल मीडिया

इकाई 4. जनसंचार माध्यमोपयोगी लेखन : सामान्य परिचय

- (i) समाचार लेखन (ii) साक्षात्कार
- (iii) फ्रीचर लेखन (iv) संपादकीय
- (v) संवाद लेखन (vi) पुस्तक एवं फ़िल्म समीक्षा
- (vii) विज्ञापन लेखन

इकाई 5. माध्यमोपयोगी लेखन :

- (i) समाचार लेखन (ii) फ्रीचर लेखन (iii) संवाद लेखन
- (iv) फ़िल्म समीक्षा (v) विज्ञापन लेखन

• पाठ्यक्रम के लिए निर्धारित वस्तुनिष्ठ 50 प्रश्न

1. संचार अंग्रेजी के किस शब्द का पर्याय है?
2. अर्थ की दृष्टि से संचार से सम्बद्ध कौन सा शब्द है ?
3. स्रोत और श्रोता के बीच कौन सी प्रक्रिया होती है?
4. किन्हीं दो संचार माध्यमों के नाम लिखिए?
5. भारतीय पत्रकारिता का जनक किसे माना जाता है?
6. भारत में रंगीन दूरदर्शन का सूत्रपात कब हुआ?
7. निरक्षर लोगों के बीच सन्देश प्रसारित करने के लिए कौन सा माध्यम उपयुक्त है?
8. रेडियो प्रसारण के क्षेत्र में विविध भारती का आरम्भ कब हुआ?
9. भारत की पहली बोलती फिल्म कौन सी है?
10. हिंदी का पहला समाचार पत्र कौन सा था?
11. भारतेन्दु द्वारा प्रकाशित किसी एक पत्रिका का नाम लिखिए?
12. केसरी पत्र का सम्बन्ध किस भाषा से रहा?
13. सरस्वती पत्रिका का पहला अंक कब प्रकाशित हुआ था?
14. अंग्रेजी में अनुवाद के लिए किस शब्द का प्रयोग होता है।

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PRINCIPAL
Arts Commerce & Science College Kharepatan
A.P. Kharepatan Tal Kankavli Dist. Sindhudurg

University of Mumbai



No. UG/23 of 2019-20

CIRCULAR:-

Attention of the Principals of the Affiliated Colleges and Directors of the recognized Institutions in Humanities Faculty is invited to this office Circular No. UG/51 of 2017-18, dated 15th July, 2017 relating to the revised syllabus as per (CBCS) of F.Y.B.A. in Hindi (Compulsory & Ancillary) (Sem. I & II).

They are hereby informed that the recommendations made by the Board of Studies in Hindi at its meeting held on 9th April, 2019 have been accepted by the Academic Council at its meeting held on 15th April, 2019 vide item No. 4.23 & 4.24 and that in accordance therewith, the revised syllabus as per the (CBCS) for the F.Y.B.A. Compulsory & Ancillary (Sem. I & II) in Hindi has been brought into force with effect from the academic year 2019-20, accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI - 400 032

3rd June, 2019

To

(Dr. Ajay Deshmukh)
REGISTRAR

The Principals of the affiliated Colleges and Directors of the recognized Institutions in Humanities Faculty. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)

A.C/4.23 & 4.24 /15/04/2019

No. UG/23 -A of 2019

MUMBAI-400-032

3rd June, 2019

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculty of Humanities,
- 2) The Chairman, Board of Studies in Hindi,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Professor-cum-Director, Institute of Distance and Open Learning (IDOL),
- 5) The Director, Board of Students Development,
- 6) The Co-ordinator, University Computerization Centre,



(Dr. Ajay Deshmukh)
REGISTRAR

PRINCIPAL

Arts Commerce & Science College Kharepatan
A.P. Kharepatan, Tal Kankavli, Dist. Sindhudurg



UNIVERSITY OF MUMBAI
Revised Syllabus
And
Pattern of Question Paper in the
Subject of
Hindi
At the
F.Y.B.A. Compulsory Examination
As per
CHOICE BASED CREDIT SYSTEM (CBCS)
(With effect from the Academic Year: 2019-2020)




PRINCIPAL

Arts, Commerce & Science College, Kharepatan
A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg



SEMESTER - I

NAME OF PROGRAM	: B.A.
NAME OF THE COURSE	: F.Y.B.A. Compulsory Hindi (अनिवार्य हिन्दी)
COURSECODE	: UAHINCOM 101
TOTAL LECTURES	: 60
CREDITS	: 3

Aims and Objectives:

1. विद्यार्थियों को कविता और कहानी विधाओं के अतिरिक्त हिन्दी के प्रमुख साहित्यकारों से परिचित कराना।
2. अनुवाद और पत्र लेखन की कला का ज्ञान देना।
3. विद्यार्थियों की भाषा को समृद्ध करना।

निर्धारित पाठ्य पुस्तकें:

1. **काव्य सरिता**: संपादन: हिंदी अध्ययन मंडल, मुंबई विश्वविद्यालय, मुंबई
परिदृश्य प्रकाशन, मरीन लाईन्स, मुंबई-400002

- | | |
|-------------------------|-----------------------------|
| 1. भारत माता का मंदिर | - मैथिलीशरण गुप्त |
| 2. सब जीवन बीता जाता है | - जयशंकर प्रसाद |
| 3. भर देते हो | - सूर्यकांत त्रिपाठी निराला |
| 4. बापू के प्रति | - सुमित्रानंदन पंत |
| 5. यह मंदिर का दीप | - महादेवी वर्मा |
| 6. शक्ति और क्षमा | - रामधारी सिंह दिनकर |
| 7. पुष्प की अभिलाषा | - माखनलाल चतुर्वेदी |
| 8. वे और तुम | - नागार्जुन |
| 9. रीढ़ की हड्डी | - हरिवंश राय बच्चन |
| 10. आज का दैनिक | - भवानी प्रसाद मिश्र |


PRINCIPAL

Arts, Commerce & Science College, Kharepatan,
A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg

SEMESTER – II

NAME OF PROGRAM	: B.A.
NAME OF THE COURSE	: F.Y.B.A. Compulsory Hindi (अनिवार्य हिन्दी)
COURSECODE	: UAHINCOM 201
TOTAL LECTURES	: 60
CREDITS	: 3

Aims and Objectives:

1. निबंध लेखन और संवाद लेखन द्वारा भावों एवं विचारों की अभिव्यक्ति में सक्षम बनाना।
2. मुहावरों और व्याकरण के माध्यम से विद्यार्थियों की भाषाको समृद्ध करना।
3. विद्यार्थियों में लेखन के दौरान होने वाली अशुद्धियों को दूर करना।

निर्धारित पाठ्य पुस्तकें:

1. काव्य सरिता : संपादन: हिंदी अध्ययन मंडल, मुंबई विश्वविद्यालय, मुंबई
परिदृश्य प्रकाशन, मरीन लाईन्स, मुंबई-400002

- | | |
|-----------------------------|--------------------------|
| ११. मेरा नया बचपन | - सुभद्रा कुमारी चौहान |
| १२. आया बसंत | - सोहनलाल द्विवेदी |
| १३. हम जरूर जीतेंगे | - अज्ञेय |
| १४. हम पंछी उन्मुक्त गगन के | - शिवमंगल सिंह 'सुमन' |
| १५. कहीं पे धूप की चादर | - दुष्यन्त कुमार |
| १६. कागज़ कलम और स्याही | - कुँवर नारायण |
| १७. जड़ें | - सर्वेश्वर दयाल सक्सेना |
| १८. स्त्री | - सुशीला टाकभोरे |
| १९. अपने घर की तलाश | - निर्मला पुतुल |
| २०. मन कितना अभिनय शेष रहा | - भारत भूषण |


PRINCIPAL

UNIVERSITY OF MUMBAI**Syllabus for Approval**

Sr. No.	Heading	Particulars
1	Title of the Course	T.Y.B.A. (MARATHI)
2	Eligibility for Admission	S.Y.B.A. Pass
3	Passing Marks	40
4	Ordinances / Regulations (if any)	Nil
5	No. of Years / Semesters	01 (Two Semester)
6	Level	U.G.
7	Pattern	Semester
8	Status	Revised
9	To be implemented from Academic Year	From Academic Year 2021-22

Name & Signature of BOS Chairperson :

Name & Signature of Dean:



PRINCIPAL

Arts, Commerce and Science College, Kharepatan
A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg-416703

मुंबई विद्यापीठ
तृतीय वर्ष बी.ए.
मराठी

अभ्यासक्रम (CBCS)

Course Code	Core Course	No of Credits
सत्र ५ वे		
UAMAR ५०१	अभ्यासपत्रिका क्र. ४. मध्ययुगीन मराठी वाङ्मयाचा इतिहास भाग १	४
UAMAR ५०२	अभ्यासपत्रिका -५ भारतीय साहित्यविचार	४
UAMAR ५०३	अभ्यासपत्रिका ६. साहित्य आणि समाज भाग १	३
UAMAR ५०४	अभ्यासपत्रिका क्र. ७ भाषाविज्ञान	४
UAMAR ५०५	अभ्यासपत्रिका क्र. ८ आधुनिक मराठी साहित्य,	४
UAMAR ५०६	अभ्यासपत्रिका क्र. ९ भाषांतर कौशल्य	३
सत्र ६ वे		
UAMAR ६०१	अभ्यासपत्रिका क्र. ४. मध्ययुगीन मराठी वाङ्मयाचा इतिहास भाग २	४
UAMAR ६०२	अभ्यासपत्रिका -५ पाश्चात्य साहित्यविचार	४
UAMAR ६०३	अभ्यासपत्रिका ६. साहित्य आणि समाज भाग २	३
UAMAR ६०४	अभ्यासपत्रिका क्र. ७ मराठी व्याकरण	४
UAMAR ६०५	अभ्यासपत्रिका क्र. ८ उत्तर आधुनिक मराठी साहित्य,	४
UAMAR ६०६	अभ्यासपत्रिका क्र. ९ व्यावसायिक मराठी	३



[Signature]
PRINCIPAL

Arts, Commerce and Science College, Kharepatan
A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg-416703

उद्दिष्टे (Objective)

- १) मध्ययुगीन वाङ्मयीन इतिहासाचा परिचय करून देणे
- २) मध्ययुगीन कालखंडातील वाङ्मय निर्मिती प्रेरणा व सांस्कृतिक पार्श्वभूमीचा उलगडा करणे
- ३) मध्ययुगीन कालखंडातील वाङ्मयीन परंपरा, रचना प्रकार व ग्रंथकारांची माहिती करून घेणे
- ४) मध्ययुगीन कालखंडातील मराठी भाषेचे स्वरूप स्पष्ट करणे
- ५) वारकरी संप्रदायातील प्रमुख संतकवींच्या काव्यनिर्मितीचे स्वरूप जाणून घेऊन त्यांची वैशिष्ट्ये लक्षात घेणे
- ६) पंडिती काव्याचे स्वरूप समजावून घेणे

घटक -१ मराठी साहित्याची सुरुवात व महानुभावीयवाङ्मय

- अ) मराठी साहित्याची सुरुवात - मराठी : देशीभाषा म्हणून ८, ९वे शतक परिचय, मराठीतील आद्यग्रंथ : चर्चा, शिलालेख, ताम्रपट यावरील मराठी लेखन. - थोडक्यात परिचय
- ब) महानुभाव संप्रदायाची ठळक वैशिष्ट्ये : वैद्विती तत्त्वज्ञान, पंचकृष्ण, चक्रधरांचे व्यक्तिमत्त्व, मराठीचा स्वीकार व आग्रह, सांकेतिक लिपी.
- महानुभावीय वाङ्मय : चरित्रग्रंथ, तत्त्वज्ञानग्रंथ, सातीग्रंथ, स्फुट गद्य-पद्य-धवळे, टीकाग्रंथ, व्याकरणग्रंथ.

घटक -२ वारकरी पंथीयांचे वाङ्मय -

- अ) यादवकालीन महाराष्ट्रात वारकरी पंथाची प्रस्थापना, पंढरीचा भक्तीसंप्रदाय हा महाराष्ट्रातील प्रमुख वारकरी संप्रदाय म्हणून तेराव्या शतकात धार्मिक, सामाजिक व साहित्यिक दृष्ट्या प्रभावी.
- ब) ज्ञानदेव-नामदेव व त्यांच्या प्रभावळीतील इतरांचे वाङ्मय.

घटक ३ वारकरी पंथीयांचे वाङ्मय -

- अ) बहामनी राजवट, एकनाथकालीन महाराष्ट्र, तमोयुग, एकनाथ, एकनाथपंचक यांचे वाङ्मय
- ब) शिवकालीन महाराष्ट्र - स्वराज्य प्रेरणा. तुकाराम, तुकारामाचे शिष्य यांचे वाङ्मय

घटक ४ पंडिती काव्य-

- अ) पंडिती काव्याची स्वरूपवैशिष्ट्ये, पंडिती काव्याचे गुणदोष चर्चा
- ब) पंडित कवी- मुक्तेश्वर, मोरोपंत, रघुनाथ पंडित, सामराज, निरंजनमाधव, वामनपंडित, नागेश, विठ्ठल



PRINCIPAL

अभ्यासपत्रिका क्र. ४. मध्ययुगीन मराठी वाङ्मयाचा इतिहास भाग २
सत्र - ६वे (श्रेयांकने-४) व्याख्यान - ६०

उद्दिष्टे (Objective)

- १) शाहिरी वाङ्मयाचा परिचय करून घेणे.
- २) इतर धर्मियांनी केलेल्या वाङ्मयीन निर्मितीचा परिचय करून घेणे
- ३) वेगवेगळ्या पंथांचे वाङ्मयाचा परिचय करून घेणे
- ४) बखर वाङ्मय निर्मितीचा परिचय करून घेऊन त्याची ठळक वैशिष्ट्ये जाणून घेणे
- ५) मध्ययुगीन कालखंडातील प्रमुख संप्रदाय व ग्रंथ निर्मिती यांचा अनुबंध स्पष्ट करणे

घटक - १ शाहिरी वाङ्मय-

- अ) लावणी, पोवाडे, या काव्य प्रकारांची स्वरूप वैशिष्ट्ये.
- ब) काही लावणीकार- होनाजी बाळा, रामजोशी, प्रभाकर, अनंत फंदी, परशुराम या शाहिरांचा व त्यांच्या साहित्याचा परिचय.

घटक - २ महानुभाव व वारकरी यांखेरीज इतर पंथीयांचे वाङ्मय

- अ) नाथ, दत्त या पंथातील वाङ्मयाचे स्वरूप.
- ब) समर्थ, लिंगायत या पंथातील वाङ्मयाचे स्वरूप

घटक - ३ हिंदू धर्माखेरीज इतर धर्मियांनी केलेली वाङ्मयनिर्मिती

- अ) ख्रिस्ती धर्मियांनी केलेली वाङ्मयनिर्मिती
(ख्रिस्ती - फादर स्टीफन्स, कुआँ, सालंदाज, पाद्री अल्मैद)
- ब) इस्लामी धर्मियांनी केलेली वाङ्मयनिर्मिती
(इस्लामी - मुंतोजी (मृत्युंजय), हुसेन अंबरखान, शेख महमंद, शहामुनी)

घटक - ४ बखर गद्याची स्वरूप वैशिष्ट्ये

- अ) बखरी- शिवपूर्वकालीन - महिकावतीची उर्फ माहीमची बखर, राक्षसतागडीची लढाई.
बखरी- शिवकालीन- शिवछत्रपतींचे चरित्र- कृष्णाजी अनंत सभासद, चित्रगुप्तविरचित शिवाजी महाराजांची बखर, श्री छत्रपतींची ९१ कलमी बखर - दत्तोत्रिमल वाकेनिस, मल्हार रामराव चिटणीस
विरचित श्री शिवछत्रपतींचे सप्तप्रकरणात्मक चरित्र.
- ब) बखरी - पेशवेकालीन- नाना फडणवीसाचे आत्मचरित्र, श्री रामदास स्वामींचे चरित्राची बखर उर्फ हनुमंत स्वामीची बखर, पेशव्यांची बखर, कृष्णाजी विनायक सोहनी, पानिपतची बखर- रघुनाथ यादव, भाऊसाहेबांची बखर-कृष्णाजी शामराव, खड्यांच्या स्वारीची बखर.

सत्रान्त परीक्षा (गुण १००)

- प्रश्न १. घटक १ वर आधारित प्रश्न (पर्यायासह) गुण २०
प्रश्न २. घटक २ वर आधारित प्रश्न (पर्यायासह) गुण २०



PRINCIPAL

अभ्यासपत्रिका -५
भारतीय साहित्यविचार

सत्र - ५ वे (श्रेयांकने-४) व्याख्याने-६०

उद्दिष्टे (Objective)

- १) भारतीय साहित्याचे स्वरूप आणि सिद्धांत समजावून देणे
- २) साहित्य भाषेचे स्वरूप व कार्य समजावून घेणे
- ३) साहित्याची निर्मिती प्रक्रिया व प्रयोजन समजावून घेणे

घटक -१ भारतीय साहित्यशास्त्र: संकल्पना व सिद्धांत-(१)

- १ अलंकारविचार, वक्रोक्तीविचार
- २ रितीसिद्धांत, ध्वनिसिद्धांत
- ३ औचित्य विचार

घटक-२ भारतीय साहित्यशास्त्र : साहित्याचा आस्वाद.

- १ भरताचा रससिद्धांत
- रससिद्धांताचे भाष्यकार : १. भट्टलोल्लट
२. श्रीशंकुक
३. भट्टनायक
४. अभिनवगुप्त

घटक-३ भारतीय साहित्यशास्त्र : साहित्य भाषेचे स्वरूप व कार्य

१. शब्दशक्ती : अभिधा, लक्षणा व व्यंजना.
२. वृत्त, छंद, मुक्तछंद.

घटक - ४ भारतीय साहित्यशास्त्र : निर्मिती प्रक्रिया व प्रयोजन विचार

१. साहित्य निर्मिती मागील कारणे: प्रतिभा, व्युत्पत्ती व अभ्यास.
२. साहित्याची प्रयोजने : भरत ते अभिनवगुप्त

सत्रान्त परीक्षा - गुण १००

- प्रश्न १. घटक १ वर आधारित प्रश्न (पर्यायासह) गुण २०
- प्रश्न २. घटक २ वर आधारित प्रश्न (पर्यायासह) गुण २०
- प्रश्न ३. घटक ३ वर आधारित प्रश्न (पर्यायासह) गुण २०
- प्रश्न ४. घटक ४ वर आधारित प्रश्न (पर्यायासह) गुण २०
- प्रश्न ५. सर्व घटकांवर आधारित दोन टीपा (पर्यायासह) गुण २०



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सत्र -६ वे (श्रेयांकने-४) व्याख्याने-६०
पाश्चात्य साहित्य विचार

उद्दिष्टे (Objective)

- १) पाश्चात्य साहित्याचे स्वरूप समजावून घेणे
- २) पाश्चात्य साहित्य विचारात साहित्याच्या भाषेचे स्वरूप समजावून घेणे
- ३) साहित्याची निर्मिती प्रक्रिया व प्रयोजन समजावून घेणे
- ४) साहित्याच्या आस्वादाचे सिद्धांत समजावून घेणे

घटक - १ पाश्चात्य साहित्य विचार : साहित्याचे स्वरूप

१ अनुकृती सिद्धांत : प्लेटो व अरिस्टॉटल

२ पाश्चात्यांनी केलेल्या काव्यव्याख्या : वर्डस्वर्थ, कोलरीज, कोर्टहॉप, एडगर अलन पो, अर्नोल्ड.

घटक - २ पाश्चात्य साहित्य विचार : साहित्याची भाषा

१. रूपक, प्रतिक व प्रतिमा

२. अनेकार्थता, नियामोल्लंघन, अपरिचीतीकरण.

घटक - ३ पाश्चात्य साहित्य विचार : साहित्याची निर्मिती प्रक्रिया व प्रयोजन विचार

१ कोलरिजचा कल्पनाशक्तीचा व चमत्कृतीशक्तीचा सिद्धांत.

२ आत्मविष्कार, जीवनभाष्य, सामाजिक बांधिलकी (मार्क्सवादी विचारासह) ही प्रयोजने.

घटक-४ पाश्चात्य साहित्य विचार : साहित्याचा आस्वाद

१ अरिस्टॉटलच्या कॅथार्सिसचा सिद्धांत.

२ रिचर्ड्सचा प्रेरणा संतुलनाचा सिद्धांत.

सत्रान्त परीक्षा - गुण १००

- प्रश्न १. घटक १ वर आधारित प्रश्न (पर्यायासह) गुण २०
- प्रश्न २. घटक २ वर आधारित प्रश्न (पर्यायासह) गुण २०
- प्रश्न ३. घटक ३ वर आधारित प्रश्न (पर्यायासह) गुण २०
- प्रश्न ४. घटक ४ वर आधारित प्रश्न (पर्यायासह) गुण २०
- प्रश्न ५. सर्व घटकांवर आधारित दोन टीपा (पर्यायासह) गुण २०

साध्य (Outcome)

- १) पाश्चात्य साहित्य विचारांचा परिचय होईल
- २) पाश्चात्य साहित्याच्या निर्मिती प्रक्रिया व प्रयोजन विचाराचा परिचय होईल
- ३) पाश्चात्य साहित्याच्या आस्वाद घेण्याच्या पद्धती समजतील



PRINCIPAL

उद्दिष्टे (Objective)

- १) साहित्य आणि समाज यांचा अनोन्य संबंध तपासणे
- २) महानगरीय साहित्याच्या जाणीव समजावून घेणे
- ३) ग्रामीण साहित्याच्या जाणीव समजावून घेणे
- ४) निवडक कलाकृतीच्या आधारे वाङ्मयीन प्रवृत्तीचा शोध घेणे

घटक १ साहित्य - समाज अन्योन्य संबंध (तासिका १५) श्रेयांकन १

- अ) साहित्य, समाजसंस्कृती या संकल्पना व त्यांच्या परस्परसंबंधाचे स्वरूप
- ब) साहित्य- समाज संबंध - तेन , मार्क्स यांचे सिद्धांत , मानवतावाद, मार्क्सवाद, ख्रीवाद, आंबेडकरवाद यांचे स्वरूप विशेष

घटक २ महानगरी जाणिवेचे साहित्य (तासिका १५) श्रेयांकन १

- अ) महानगरी जाणिवेचे साहित्य संकल्पना व मराठीतील परंपरा
- ब) क्रमशः : महेश केळसकर मनोविकास प्रकाशन, पुणे

घटक -३ ग्रामीण साहित्य (तासिका १५) श्रेयांकने १

- अ) ग्रामीण साहित्य- संकल्पना व मराठीतील परंपरा
- ब) धग असतेच आसपास : कल्पना दुधाळ, लोकवाङ्मय गृह, मुंबई

घटक ४ प्रकल्प अहवाल - संबंधित विषयावर २० गुणांचे प्रकल्प लेखन श्रेयांकन १

सत्रान्त परीक्षा (गुण ८०)

- प्रश्न १. घटक १ वर आधारित प्रश्न (पर्यायासह) गुण २०
- प्रश्न २. घटक २ वर आधारित प्रश्न (पर्यायासह) गुण २०
- प्रश्न ३. घटक ३ वर आधारित प्रश्न (पर्यायासह) गुण २०
- प्रश्न ४. सर्व घटकांवर आधारित दोन टीपा (पर्यायासह) गुण २०

साध्ये (Outcome)

- १) साहित्य व समाज यांच्या अनोन्य संबंधाचा परिचय होईल
- २) महानगरीय व ग्रामीण जाणिवेच्या साहित्याचा व समाजाचा अनोन्य संबंध लक्षात येईल
- ३) निवडक कलाकृतीच्या आधारे विविध वाङ्मयीन प्रवाहाचा परिचय होईल



[Signature]
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उद्दिष्टे (Objective)

- १) समाजातील सामाजिक स्थित्यातराचा आणि साहित्याचा संबंध जाणून घेणे
- २) दलित साहित्याचे स्वरूप, वैशिष्ट्ये समजावून घेणे
- ३) स्त्रीवादी जाणीवेच्या साहित्याची वैशिष्ट्ये समजावून घेणे
- ४) निवडक कलाकृतीच्या आधारे वाङ्मयीन प्रवाह समजावून घेणे

घटक-१ सामाजिक स्थित्यंतरे आणि मराठी साहित्य (तासिका १५) श्रेयांकने १

- अ) महाराष्ट्रातील सामाजिक स्थित्यंतरे व मराठी साहित्य - मागोवा
- ब) साहित्य- समाज संबंध- १) ललित वाङ्मयातील सामाजिक जाणिवेचे स्वरूप : शरदचंद्र मुक्तिबोध, साहित्य विचार आणि समाजचिंतन. २) दलित जाणिवेचे स्वरूप - म.ना वानखेडे यांच्या लेखाधारे

घटक-२ दलित साहित्य (तासिका १५) श्रेयांकने १

- अ) दलित साहित्य : संकल्पना व मराठीतील परंपरा
- ब) भाई तुम्ही कुठे आहात ! : ऋषिकेश कांबळे, चिन्मय प्रकाशन, औरंगाबाद

घटक ३ स्त्रीवादी जाणिवेचे साहित्य (तासिका १५) श्रेयांकने १

- अ) स्त्रीवादी साहित्याची संकल्पना व मराठीतील परंपरा
- ब) निवडलेल्या स्त्रीवादी कथांचा अभ्यास
- १) गौरी देशपांडे - पाऊस आला मोठा (आहे हे अस आहे)
- २) सानिया - दुष्काळ (अशी वेळ)
- ३) प्रिया तेंडूलकर - खेळ मांडियला (तिहार)
- ४) उर्मिला पवार - सुटे गिऱ्हाण (हातचा एक)
- ५) मेघना पेठे - आहे कुछ अन्न (आंधळ्याच्या गायी)
- ६) नीरजा - महिषासुरमर्दिनी (ओल हरवलेली माती)
- ७) प्रज्ञा दया पवार - आईच्या नावान (मिळून साऱ्या जणी मासिक)
- ८) प्रतिमा जोशी - दरी (जहन्नम)
- ९) मनस्विनी लता रवींद्र - माझ्या जन्माची गोष्ट (ब्लॉगच या आरशा पल्याड)
- १०) वंदना महाजन - निर्वाणाची स्वगते (वसा दिवाळी अंक)

घटक-४ प्रकल्प अहवाल-संबंधित विषयावर २० गुणांचे प्रकल्प लेखन



Principal

UNIVERSITY OF MUMBAI**Syllabus for Approval**

Sr. No.	Heading	Particulars
1	Title of the Course	S.Y.B.A. (MARATHI)
2	Eligibility for Admission	F.Y.B.A. Pass
3	Passing Marks	40
4	Ordinances / Regulations (if any)	Nil
5	No. of Years / Semesters	01 (Two Semester)
6	Level	U.G.
7	Pattern	Semester
8	Status	Revised
9	To be implemented from Academic Year	From Academic Year 2021-22

Name & Signature of BOS Chairperson :

Name & Signature of Dean:



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 Arts, Commerce and Science College, Kharepatan
 A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg-416703

UNIVERSITY OF MUMBAI



Revised Syllabus

(Choice Based Credit System, CBCS)

Sem. III & Sem. IV

Program: S.Y.B.A.

Course: Marathi

From 2021-22



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Arts, Commerce and Science College

Course Code

सत्र ३ रे

UAMAR ३०१

UAMAR ३०२

सत्र ४ वे

UAMAR ४०१

UAMAR ४०२

SYBA - MAR - (II)
(To be implemented from 2021-2022)

द्वितीय वर्ष बी. ए. मराठी अभ्यासपत्रिका क्र.२ कथन साहित्य
सत्र ३ (तिसरे)- एकूण व्याख्याने ४५ - श्रेयांकने - ०३
उद्दिष्टे (Objective)

- १) कथन साहित्याचा परिचय करून घेणे
- २) कादंबरी या वाङ्मय प्रकाराचे स्वरूप व वैशिष्ट्ये समजून घेणे
- ३) नेमलेल्या कादंबरीचे विविध घटकानुसार विवेचन व विश्लेषण करणे
- ४) कथा या वाङ्मय प्रकाराचा घटकानुसार नेमलेल्या कथासंग्रहाचे विश्लेषण करणे

घटक-१ कथन साहित्याचा परिचय (१५ तासिका) श्रेयांकन १

अ) कथा व कादंबरी या साहित्य प्रकाराचा सैद्धान्तिक परिचय

घटक- २ 'फेसाटी - कादंबरी - नवनाथ गोरे, अक्षर वाङ्मय प्रकाशन (१५ तासिका) श्रेयांकन १

घटक-३ 'बक-याची बॉडी - समर खडस, शब्दालय प्रकाशन (१५ तासिका) श्रेयांकन १

तृतीय सत्रान्त परीक्षा - गुण १००

वरील अभ्यासपत्रिकेचे प्रथम सत्रान्त प्रश्नपत्रिकेचे स्वरूप पुढीलप्रमाणे -

प्रश्न १- 'कथन' साहित्यप्रकाराचा सैद्धान्तिक परिचय यावर पर्याय देऊन एक प्रश्न - गुण २०.

प्रश्न २ - "फेसाटी" या कादंबरीवर पर्याय देऊन एक प्रश्न - गुण २०.

प्रश्न ३ - "बक-याची बॉडी" कथा संग्रहावर 'पर्याय देऊन एक प्रश्न - गुण २०.

प्रश्न ४ - तिन्ही गटातील सहा टीपा विचाराव्यात किंवा लघुतरी प्रश्न विचारावेत विद्यार्थ्यांनी कोणतेही चार सोडवाव्यात - गुण ४०.

१) कथन' साहित्यप्रकाराचा सैद्धान्तिक परिचय

२) 'फेसाटी'

३) "बक-याची बॉडी"

साध्ये (Outcome)

- १) मराठी साहित्यातील कथन साहित्य अभ्यासून विद्यार्थ्यांना कथन साहित्याचे विश्लेषण करून मर्म ग्रहण करता येईल
- २) कथा कादंबरी वाचताना कोणत्या दृष्टीने वाचावे याचे ज्ञान प्राप्त होईल

संदर्भ ग्रंथ

- १) फेसाटी : चिंतन आणि मंथन, संपा. आशा मुंडे, संग्राम टेकले, अथर्व पब्लिकेशन्स, जळगाव
- २) फेसाटी विशेषांक, वारूळ त्रैमासिक दिवाळी २०१८



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नाट्य साहित्य

उद्दिष्टे (Objective)

- १) नाटक या वाङ्मय प्रकारची संकल्पना व त्याचे स्वरूप समजून घेणे
- २) मराठी नाट्य वाङ्मयाची वाटचाल ठळक नाट्याधारे लक्षात घेणे
- ३) एकांकिका या नाट्यप्रकारचे स्वरूप व त्याची वैशिष्ट्ये जाणून घेणे
- ४) मराठीतील एकांकिका वाटचाल लक्षात घेणे
- ५) निवडक एकांकिकांचा अभ्यास करणे आणि लेखनाचे स्वरूप वैशिष्ट्ये समजून घेणे

घटक १: नाट्य ('नाटक व एकांकिका') या साहित्यप्रकाराची ठळक वैशिष्ट्ये (१५ तासिका) श्रेयांकन- १

घटक २: 'आमदार सौभाग्यवती' - नाटक - श्रीनिवास जोशी (रा रं बोराडे यांच्या कादंबरीवर आधारित नाटक)

कॉटिनेनटल प्रकाशन, (१५ तासिका) श्रेयांकन १

घटक ३: निवडक एकांकिकांचा अभ्यास (१५ तासिका) श्रेयांकन १

- १ झुलता पूल - सतीश आळेकर
- २ रक्तपुष्प - महेश एलकुंचवार
- ३ जहाज फुटलं आहे : दत्ता भगत
- ४ दुकान कुणी मांडू नये : संजय पवार
- ५ काजळ कुबड्या एकांताला : प्रा. दिलीप परदेशी
- ६ कृष्णाजी केशव : प्रल्हाद जाधव
- ७ चिऊताई चिऊताई दार उघड : प्रदीप राणे
- ८ रिक्शावाला : चंद्रशेखर फणसळकर
९. दगड आणि माती : दत्ता पाटील

चतुर्थ सत्रान्त परीक्षा - गुण १००

वरील अभ्यासपत्रिकेचे प्रथम सत्रान्त प्रश्नपत्रिकेचे स्वरूप पुढीलप्रमाणे -

प्रश्न १- नाट्य ('नाटक व एकांकिका') या साहित्यप्रकाराचा सैद्धान्तिक परिचय यावर पर्याय देऊन एक प्रश्न - गुण २०.

प्रश्न २ - 'आमदार सौभाग्यवती' या नाटकावर पर्याय देऊन एक प्रश्न - गुण २०.

प्रश्न ३ - निवडक एकांकिकावर ' पर्याय देऊन एक प्रश्न - गुण २०.

प्रश्न ४ - तिन्ही गटातील सहा टीपा विचाराव्यात किंवा लघुत्तरी प्रश्न विचारावेत विद्यार्थ्यांनी कोणतेही चार सोडवाव्यात - गुण ४०.

१) नाट्य ('नाटक व एकांकिका') या साहित्यप्रकाराचा सैद्धान्तिक परिचय

२) 'आमदार सौभाग्यवती'

३) निवडक एकांकिका

साध्ये (Outcome)

१) नाटक आणि एकांकिका या प्रकारचे वाङ्मयीन स्वरूप लक्षात येईल



PRINCIPAL

भाषा आणि बोली अभ्यास

उद्दिष्टे (Objective)

- १) भाषेचे स्वरूप समजून घेणे
- २) भाषाबोली समाजाचा परस्पर संबंध अभ्यासणे
- ३) बोलीचे स्वरूप व विषय समजून घेणे

घटक १ (अ) मानवी भाषेचे स्वरूप, एकूण व्याख्याने १५, श्रेयांकने १

संप्रेषण - मानवी आणि मानवेतरांचे, मानवांचे भाषिक व भाषेतर संप्रेषण, मानवी भाषेची लक्षणे किंवा स्वरूप विशेष (ध्वन्यात्मकता, चिन्हात्मकता, यादृच्छिकता, सर्जनशीलता, प्रत्यक्षातीतता, सामाजिकता, परिवर्जनशीलता इ.) मानवी भाषेच्या व्याख्या

(आ) भाषेची विविध कार्ये - रोमान याकबसनचे संप्रेषणाचे नमुनारूप व ६ भाषिक कार्ये (निर्देशात्म, आविष्कारात्म, परिणामनिष्ठ, सौंदर्यात्म, संपर्कनिष्ठ, अतिभाषात्म)

घटक २ (अ) भाषा, समाज आणि संस्कृती - एकूण व्याख्याने १५, श्रेयांकने १

भाषा - एक सांस्कृतिक संचित, सांस्कृतिक जडणघडणीचे, संक्रमणाचे माध्यम एडवर्ड सपीरबेंजामीन बोर्फ यांचा भाषिक सापेक्षतावादाचा अभ्युपगम भाषेकडे पाहण्याचा समाज भाषावैज्ञानिक दृष्टिकोण, समाजातील भाषावैविध्य आणि भाषेचा बहुजिनसीपणा, भाषिकसांस्कृतिक विविधता परस्परसंबंध

आ) भाषा, प्रमाण भाषा आणि बोली : संकल्पना विचार व्याख्याने १५ श्रेयांकने १

'प्रमाण भाषा' म्हणजे काय, प्रमाण भाषेची आवश्यकता, प्रमाण भाषा व बोली यांच्यातील संबंध, त्यांचे वापरक्षेत्र, बोलीवैविध्य- उपबोली, स्थानिक बोली-प्रादेशिक बोली- जातिनिष्ठ बोली-सामाजिक बोली इ., बोलीविषयीचे गैरसमज (शुद्धाशुद्धता, श्रेष्ठकनिष्ठता, अंगभूत क्षमता इ.) व तथ्ये, मराठीच्या विविध बोली

घटक ३ (अ) बोलींच्या अभ्यासाची गरज व महत्त्व

बोलीविज्ञान (Dialectology), बोलींच्या अभ्यासाची दिशा - बोलींचा विजनात्मक अभ्यास, सामाजिक-सांस्कृतिक अभ्यास, बोलींच्या अभ्यासाची साधने, क्षेत्रीय कार्य (Field Work), बोलींची व्याकरणे व कोशरचना यांचे महत्त्व, बोलींसमोरील आव्हाने व त्यांचे जतन व संवर्धन यांसाठी करावयाच्या प्रयत्नांची दिशा

आ) मराठीतील प्रमुख बोली : वऱ्हाडी, अहिराणी, कोकणी बोलीचे स्वरूप विशेष

इ) मालवणी व आगरी बोलींची वैशिष्ट्ये- व्युत्पत्ती आणि विकास, व्याकरणिक वैशिष्ट्ये, उच्चार प्रक्रिया, म्हणी, वाक् प्रचार, शब्दसंग्रह इ.



PRINCIPAL

सत्र ४ (चौथे) एकूण व्याख्याने ४५ श्रेयांकने ३
मराठी व्याकरण आणि लेखन कौशल्ये (स्पर्धा परीक्षा)

उद्दिष्टे (Objective)

- १) भाषा लेखन कौशल्य आत्मसात करणे
- २) निबंध लेखनाचे कौशल्ये आत्मसात करणे
- ३) निबंध लेखनाचा सराव करणे
- ४) संगणकीय उपयोजन करणे
- ५) मराठी व्याकरण समजून त्याचे उपयोजन करणे

घटक १ व्याकरण एकूण व्याख्याने १५ श्रेयांकने १

वर्णमाला शब्दांच्या जाती काळ

लिंग वचन प्रयोग अलंकार

वृत्ते समास वाक्यांचे प्रकार शब्दसंधी

संधी-स्वरसंधी विभक्ती विरामचिन्हे

विरुद्धार्थी शब्द

वाक्प्रचार

म्हणी व अर्थ

समानार्थी शब्द

विरामचिन्हे

शब्द समूहाबद्दल एक शब्द

अलंकाराचे प्रकार इत्यादी घटकांची संक्षेपाने चर्चा

घटक २ एकूण व्याख्याने १५ श्रेयांकने १

मराठी भाषा आणि आधुनिक तंत्रज्ञान परिचय व प्रात्यक्षिक
पॉवरपॉइंट प्रेझेंटेशन, युनिकोड टंकलेखन.

घटक ३ एकूण व्याख्याने १५ श्रेयांकने १

अ निबंध

आ कल्पना विस्तार

इ आकलन

ई सारांश लेखन

चतुर्थ सत्रात परीक्षेचे स्वरूप

प्रश्न क्र. १ घटक १ वस्तुनिष्ठ स्वरूपाचे ४० पैकी कोणतेही ३० प्रश्न सोडविणे (गुण ६०)

प्रश्न क्र. २ घटक २ वर अंतर्गत पर्यायासह एक प्रश्न (गुण २०)

प्रश्न क्र. ३ घटक ३ वर अंतर्गत पर्यायासह एक प्रश्न (गुण २०)

संदर्भ ग्रंथ:

साध्य (Outcome)

- १) भाषा लेखन कौशल्य आत्मसात होईल
- २) मराठीचे लेखन कौशल्य प्राप्त होईल
- ३) संगणकासाठी मराठी भाषेचा उपयोग होईल
- ४) स्पर्धा परीक्षा उत्तीर्ण होण्यासाठी हा अभ्यासक्रम उपयुक्त ठरेल.




PRINCIPAL

Arts, Commerce and Science College, Kharepatan
A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg-416703

University of Mumbai



No. AAMS(UG)/ 52 of 2022-23

CIRCULAR:-

Attention of the Principals of the Affiliated Colleges, Directors of the Recognized Institutions in Faculty of Humanities is invited to this office circular No. UG/91 and UG/92 of 2016-17 dated 25th October, 2016 relating to the revised syllabus as per the CBCS for F.Y.B.A. Marathi (Compulsory) and (Ancillary) (Sem. I & II) respectively.

They are hereby informed that the recommendations made by the Board of Studies in Marathi at its meeting held on 11th May, 2022 and subsequently passed by the Board of Deans at its meeting held on 17th May, 2022 vide item No. 5.29(R) have been accepted by the Academic Council at its meeting held on 17th May, 2022 vide item No. 5.29(R) and that in accordance therewith, the revised syllabus of F.Y.B.A. (Marathi) (Ancillary and Compulsory) Sem I and II (CBCS), has been brought into force with effect from the academic year 2022-23. (The same is available on the University's website www.mu.ac.in).

MUMBAI - 400 032

23rd June, 2022

To

The Principals of the Affiliated Colleges, and Directors of the Recognized Institutions in Faculty of Humanities.

A.C/5.29(R)/17/05/2022

No. AAMS(UG)/ 52-A of 2022-23

25th June, 2022

Copy forwarded with Compliments for information to:-

- 1) The Dean, Faculty of Humanities,
- 2) The Chairman, Board of Studies Marathi,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Director, Department of Information & Communication Technology,
- 6) The Co-ordinator, MKCL.

(Dr. Vinod Patil)
The Registrar



PRINCIPAL

Arts, Commerce and Science College, Kharepatan
A/p Kharepatan, Tal. Kankavli, Dist. Sindhudurg-416703

UNIVERSITY OF MUMBAI



Syllabus for Approval

Sr No.	Heading	Particular
1	Title of the Course	F.Y.B.A (Marathi) Ancillary And Compulsory
2	Eligibility for Admission	Candidates with at least 50% marks in the senior secondary +2 or its equivalent
3	Passing Marks	40%
4	Ordinances / Regulation (if any) No. of Years/Semester	
5	No. of Years / Semester	Sem-I and II (CBCS)
6	Level	U.G
7	Pattern	Semester
8	Status	Revised Syllabus
9	To be implemented form Academic Year	From Academic Year 2022-23

Name & Signature Of BOS Chairperson :

Dr. Vandana Mahajan

Name & Signature Of Dean :

Dr. Rajesh Kharat



PRINCIPAL

Arts, Commerce and Science College, Kharepatan
A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg-416703

FYBA MAR(ANC)
(To be implemented from 2022-23)

SEM-1 (UMAR 101)

SEM2 (UMAR 201)

प्रथम वर्ष बी.ए. मराठी ऐच्छिक (प्रत्येक सत्रात ३ श्रेयांकने)

प्रथम वर्ष बी.ए. मराठी या ऐच्छिक या विषयासाठी २०२२-२३ या शैक्षणिक वर्षापासून नेमलेला अभ्यासक्रम प्रथम वर्ष बी.ए. मराठी ऐच्छिक अभ्यासक्रमात प्रथम सत्रात दोन नाटयकृती व दुसऱ्या सत्रात दोन ललित गद्याचा समावेश करण्यात आला आहे. या अभ्यासक्रमाची श्रेयांकन पद्धतीनुसार रचना करण्यात आली आहे. वरील अभ्यासक्रम दोन सत्रात विभागलेला असून, नेमलेल्या विशिष्ट तासिकामध्ये तो शिकवला जाणे आवश्यक आहे.

अभ्यासपत्रिकेचे उद्दिष्टे -

मराठी साहित्याचा परिचय करून देत असताना साहित्याच्या अभ्यासाकडे वळणाऱ्या विद्यार्थ्यांना विशिष्ट वाङ्मय प्रकारचे ज्ञान मिळवून देणे व साहित्य प्रकाराचे आकलन करून देणे. हे प्रमुख उद्दिष्ट या अभ्यासपत्रिकेचे आहे. मराठीतील नाटक आणि ललितगद्य या साहित्यप्रकारांचा परिचय करून देणे.

सत्र - पहिले - एकूण व्याख्याने - ४५, श्रेयांकने- ०३

घटक १ - नाटक या साहित्यप्रकाराचा सैद्धान्तिक परिचय (४८ मिनिटांच्या १५ तासिका) श्रेयांकन- १
नाटक या साहित्यप्रकाराची संकल्पना, नाटक या साहित्य प्रकाराचे घटक,
नाटकाचे महत्त्वाचे दोन प्रकार (शोकात्मिका व सुखात्मिका), नाटक एक संमिश्र कला, मराठी




PRINCIPAL

P. S. Commerce and Science College, Kharepatan
A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg-416703

नाटकाच्या इतिहासातील महत्त्वाचे टप्पे.

घटक २ - देवभाबळी - प्राजक्त देशमुख, पॉप्युलर प्रकाशन, (४८ मिनिटांच्या १५ तासिका) श्रेयांकन १

घटक ३ - माझं घर - जयंत पवार, शब्दालय प्रकाशन, (४८ मिनिटांच्या १५ तासिका) श्रेयांकन १

प्रथम सत्रान्त परीक्षा -

गुण १००

वरील अभ्यासपत्रिकेचे सत्रान्त प्रश्नपत्रिकेचे स्वरूप पुढीलप्रमाणे ठरविण्यात आले आहे.

प्रथम वर्ष बी.ए. मराठी (ऐच्छिक)

प्रश्न १- 'नाटक' या साहित्यप्रकाराचा सैद्धान्तिक परिचय यावर अंतर्गत पर्याय देऊन एक प्रश्न

गुण २०.

प्रश्न २ - देवभाबळी या नाटकावर अंतर्गत पर्याय देऊन एक प्रश्न

गुण २०.

प्रश्न ३ माझं घर या नाटकावर अंतर्गत पर्याय देऊन एक प्रश्न

गुण २०.

प्रश्न ४ प्रत्येक गटातील एकेक टीप लिहा (अंतर्गत पर्यायासह)

गुण ३०.

१) नाटकाचा सैद्धान्तिक परिचय

२) देवभाबळी या नाटकावर टीपा

३) माझं घर या नाटकावर टीपा

प्रश्न ५- अभ्यासपत्रिकेतील घटक २ व ३ वर आधारित वस्तुनिष्ठ प्रश्न प्रत्येक घटकावर ४ असे एकूण ८

वस्तुनिष्ठ स्वरूपाचे प्रश्न विचारले जातील परीक्षार्थींनी त्यापैकी कोणतेही ५ प्रश्न सोडवायचे आहेत. प्रत्येक योग्य उत्तरास २ गुण असे एकूण गुण १०



प्रथम वर्ष बी.ए. मराठी (ऐच्छिक)

सत्र दुसरे - एकूण व्याख्याने ४५, श्रेयांकने - ०३

घटक १- ललितगद्य या साहित्यप्रकाराचा सैद्धान्तिक परिचय (१५ तासिका) श्रेयांकन - १

या साहित्यप्रकाराची संकल्पना, ललितगद्य या साहित्य प्रकाराचे विविध घटक व विविध प्रकार आणि मराठीतील ललितगद्याचा इतिहास याचा परिचय करणे.

घटक २- इरावती कर्वे - परिपूर्ति

घटक ३- ग्रेस - चर्चबेल

दुसरी सत्रान्त परीक्षा

गुण १००

वरील अभ्यासपत्रिकेचे सत्रांत प्रश्नपत्रिकेचे स्वरूप पुढीलप्रमाणे ठरविण्यात आले आहे.

प्रथम वर्ष बी. ए. मराठी (ऐच्छिक)

प्रश्न १ - घटक १ वर अंतर्गत पर्यायांसह एक प्रश्न

गुण २०

प्रश्न २ - घटक २ मधील ललितगद्यावर अंतर्गत पर्याय देऊन एक प्रश्न

गुण २०

प्रश्न ३ - घटक ३ मधील ललितगद्यावर अंतर्गत पर्याय देऊन एक प्रश्न

गुण २०

प्रश्न ४ - प्रत्येक गटातील एकेक टीप लिहा - (अंतर्गत पर्यायांसह)

गुण ३०

१) ललितगद्याचा सैद्धान्तिक परिचय

२) घटक २ मधील ललितगद्य

३) घटक ३ मधील ललितगद्य

प्रश्न ५ - अभ्यासपत्रिकेतील घटक २ व ३ वर आधारित वस्तुनिष्ठ प्रश्न प्रत्येक घटकावर ४ असे एकूण ८

वस्तुनिष्ठ स्वरूपाचे प्रश्न विचारले जातील परीक्षार्थींनी त्यापैकी कोणतेही ५ प्रश्न सोडवायचे आहेत. प्रत्येक योग्य उत्तरास २ गुण असे एकूण गुण १०.



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FYBA-MAR- Comp
(To be implemented from 2022-23)

SEM-1 (UAMAR 1C1)

प्रथम वर्ष बी.ए. मराठी अनिवार्य

प्रथम वर्ष बी.ए. मराठी अनिवार्य या विषयासाठी २०२२-२३ या शैक्षणिक वर्षापासून नेमलेला अभ्यासक्रम
सत्र - पहिले - एकूण व्याख्याने - ४० श्रेयांकने- ०२

गुण ५०

घटक १- निवडक कथांचा अभ्यास

- १) रत्नाकर मतकरी
- २) योगीराज वाघमारे
- ३) लक्ष्मण माने
- ४) भारत सासणे
- ५) उषाकिरणआत्राम
- ६) जयंत पवार
- ७) अशोक कौतिक कोळी
- ८) शिल्पा कांबळे
- ९) रफिक सूरज
- १०) बबन पोतदार
- ११) प्रणव सखदेव
- १२) विवेक कुडू

(कथांची नावे नंतर कळविण्यात येतील.)

घटक - २ व्यावहारिक मराठी - (घटकविषय) - (२० तासिका) - श्रेयांकन १

गुण ५०

व्यावहारिक मराठी या विषयासाठी घटकविषय

- १) मराठी लेखनाचे नियम व विरामचिन्हे
- २) वर्तमानपत्रासाठी वृत्तलेखन
- ३) वृत्तांतलेखन
- ४) अर्जलेखन
- ५) भाषांतर (इंग्रजीतून मराठीत)

सत्रांत परीक्षा

प्रथम सत्रान्त परीक्षा

गुण १००

वरील अभ्यासपत्रिकेचे सत्रांत प्रश्नपत्रिकेचे स्वरूप पुढीलप्रमाणे ठरविण्यात आले आहे.
प्रथम वर्ष बी.ए. मराठी (अनिवार्य)




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Revised Syllabus for the **F.Y.B.A. (Sem I)**

Microeconomics – I

Course: **Economics**

(As Per Choice Based Credit System with effect from the academic year 2019-20)




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Arts, Commerce & Science College, Kharepatan
A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg

F.Y.B.A.
Subject: Economics
Microeconomics – I
Semester – I

(Academic Year: 2019 - 20)

Preamble: This course is designed to expose the students to the basic principles of microeconomic theory. The emphasis will be on the development of analytical thinking with the help of statistical tools among the students and develop the skill of application of microeconomics concepts to analyze the real life situations.

Module - I: Introduction to Microeconomics

(12 Lectures)

Microeconomics: Meaning, Scope, Nature, Importance and Limitations; Basic Economic Problems; **Role of Price Mechanism in a Market Economy**; Positive Economics and Normative Economics; Concepts of Equation, Functions, Graphs, Diagrams, Line, Slope and Intercept

Module - II: Ten Principles of Economics

(12 Lectures)

Trade-Off Faced by the Individuals; Significance of Opportunity Cost in Decision Making; Thinking at the Margin; Responses to incentives; Benefits from Exchange; Organization of Economic Activities through Markets and its Benefits; Role of Government in improving Market Outcomes; Dependence of Standard of Living on Production; Growth in Quantity of Money; Inflation and Unemployment Trade Off

Module - III: Markets, Demand and Supply

(12 Lectures)

What is a Market; What is Competition; Demand Curves: Market Demand versus Individual Demand, Movements along the Demand Curve, Shifts in the Demand Curve; Supply Curves: Market Supply and Individual Supply, Shifts in Supply Curve; Market Equilibrium - Three Steps to Analyze Changes in Equilibrium; Price Elasticity of Demand, Methods of Measuring Price Elasticity of Demand – Total Outlay Method, Percentage Method and Point Method; Concepts of Income Elasticity of Demand, Cross Elasticity of Demand and Promotional Elasticity of Demand

Module IV: Consumer's Behavior

(12 Lectures)

Introduction to Cardinal and Ordinal Approaches; Indifference Curve Analysis - Properties of Indifference Curves, Budget Line, and Consumer's Equilibrium; Income, Price and Substitution Effect; Derivation of Demand Curve; Consumer's Surplus: Strong Ordering and Weak Ordering



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Revised Syllabus for the **F.Y.B.A. (Sem II)**

Microeconomics – II

Course: **Economics**

(As Per Choice Based Credit System with effect from the
academic year 2019-20)




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A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg

F.Y.B.A.
Subject: Economics
Microeconomics – II
Semester – II

(Academic Year: 2019 - 20)

Preamble:

As a logical sequence to Microeconomics Paper I, this paper is aimed at giving supply side knowledge of Economics to the learner which will enhance their knowledge about aspects of production, cost and revenue analysis, theories of distribution and understanding about the market structure.

Module I: Production Analysis (12 Lectures)

Production Function: Concept And Types; Concepts of Total, Average and Marginal Product; Law of Variable Proportion and Returns to Scale, Isoquant and Producer's Equilibrium

Module II: Cost & Revenue Analysis (12 lectures)

Concepts of Costs: Money and Real Cost, Social Cost, Private Cost, Explicit and Implicit Cost, Opportunity Cost; Relationship between Average, Marginal and Total Cost; Derivation of Short Run and Long Run Cost Curves; Concepts of Revenue: Types and Interrelationship

Module III: Factor Pricing (12 lectures)

Marginal Productivity Theory of Distribution; Rent: Ricardian Theory of Rent, Modern Theory of Rent, Quasi Rent; Wages: Modern Theory of Wages; Collective Bargaining; Supply Curve of Labour; Interest: Classical Theory of Interest, Loanable Funds Theory of Interest; Profit: Risk and Uncertainty Theory, Innovation Theory

Module IV: Equilibrium in Different Market Structure (12 Lectures)

Concept Of Equilibrium: TR - TC And MR - MC Approach; Features of Perfect Competition; Monopoly and Monopolistic Competition, Short Run and Long Run Equilibrium of Firm and Industry under each Market Condition; Selling Cost and Wastages under Monopolistic Competition

Note: we may include case studies and numerical examples for modules 1, 2 and 4 from examination point of view.




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Revised Syllabus for the **S.Y.B.A. (Sem III)** **Paper III** **Macro Economics – I**

Course: Economics

(As Per Choice Based Credit System with effect from the
academic year 2020-21)



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Macro Economics - I

S.Y.B.A. Semester – III Paper III
(Academic Year: 2020 - 21)

Preamble: This course is designed to provide an introduction to the students about the basic building blocks of Macro Economics which will serve as a foundation throughout their career.

Module – I: Introduction to Macro Economics and National Income (12 Lectures)

Introduction: Meaning and Scope of Macro Economics; Concepts of National Income: GNP, NNP, NDP, Per Capita Income, Personal Income and Disposal Income; Methods and Difficulties in Measurement of National Income; Circular Flow of National Income; Closed Economy (Two and Three Sector) and Open Economy Models (Four Sector Model)

Module – II: Consumption and Investment (12 Lectures)

Consumption and Investment; Says Law of Market; Theory of Effective Demand; Consumption Function; Investment Function; Marginal Efficiency of Capital and Rate of Interest- Investment Multiplier

Module – III: Supply of Money and Demand for Money (12 Lectures)

Supply of Money; Determinants of Money Supply; Velocity of Circulation of Money; RBI's Approach to Measurement of Money Supply; Demand for Money: Classical, Keynesian and Friedman's Approaches

Module – IV: Banking (12 Lectures)

Banking: Commercial Bank, Functions of Commercial Banks, Multiple Credit Creation, Balance Sheet of Commercial Bank; Development in Commercial Banking Sector Since 1990-91; Central Bank: Functions of Central Bank - Traditional, Developmental, Promotional

Reference

- 1) N. Gregory Mankiw, (2015), Principle of Macroeconomics, 7th edition, Cengage Learning.
- 2) Abel A. B. B. S. Beranake and D. Croushore (2011), Macroeconomics, Pearson, New Delhi.
- 3) Ahuja H. L., (2008), Macroeconomics theory and Policy, S. Chand and company Ltd. New Delhi.
- 4) Dwivedi D.N., (2007), Macroeconomics theory and Policy, TATA Mcgraw - Hill Publication company Ltd. Delhi.
- 5) Dornbusch Rudiger, Fischer, Stanley and Startz, (2017) (Indian Edition), Macroeconomics Delhi: Mcgraw Hill Publication.
- 6) Paul Samuelson and William Nordhaus, (2010), Economics, Mcgraw Hill Publication.




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Revised Syllabus for the **S.Y.B.A. (Sem IV)** Paper V

Macro Economics – II

Course: Economics

(As Per Choice Based Credit System with effect from the academic year 2020-21)




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Macro Economics - II

S.Y.B.A. Semester – IV Paper V
(Academic Year: 2020 - 21)

Preamble: This course is designed to make students aware of macroeconomic terminologies and make them familiar with macroeconomic terms and concepts in order to understand economics at aggregate level. It also aims to make the students aware about recent developments in macroeconomic literature.

Module - I: Inflation

(12 Lectures)

The Economics of Depression, Hyper Inflation; Inflation: Features and Causes, Demand Pull Inflation and Cost Push Inflation, Effects of Inflation; Nature of Inflation in Developing Economy; Phillips Curve; Stagflation: Meaning, Causes and Consequences

Module - II: Economic Policy

(12 Lectures)

Monetary Policy: Objectives, Instruments, Limitations, Role of Monetary Policy in Developing Economies; Fiscal Policy - Objectives, Instruments, Limitations and Role of Fiscal Policy in Developing Economies

Module - III: Post Keynesian Economics

(12 Lectures)

The IS-LM Model of Integration of Commodity and Money Market; IS Curve: Derivation of IS Curve, Shift in IS Curve, Equilibrium in Goods Market; LM Curve: Derivation of LM Curve, Shift in LM Curve, Equilibrium in Money Market; Simultaneous Equilibrium in Goods and Money Market

Module - IV: External Sector

(12 Lectures)

Balance of Payment: Structure, Disequilibrium in Balance of Payment, Types, Causes and Measures to Correct Balance of Payment Disequilibrium; Foreign Exchange Market: Determination of Exchange Rate; Fixed and Flexible Exchange Rate; Spot and Forward Exchange Rate; Exchange Rate Policy

Reference

- 1 Richard Froyan, (2012), Macroeconomics: Theories and policies, Pearson Education.
- 2 Eroll D'Souza, (2008), Macroeconomics, Pearson Education.
- 3 Suman Kalyan Chakravarty, (2010), Macroeconomics, Himalaya Publishing House.
- 4 N. Gregory Mankiw, (2015), Principle of Macroeconomics Cengage Learning.
- 5 Francis Cherunilam, (1999), International Economics, Tata McGraw-Hill.
- 6 Bo Soderstein, (1994), International Economics, Palgrave Macmillan.



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Revised Syllabus for the **S.Y.B.A. (Sem III)** **Paper IV**

Public Finance

Course: Economics

(As Per Choice Based Credit System with effect from the
academic year 2020-21)



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SYBA - SEMESTER III
Economics – Paper IV
Public Finance

Preamble

Public Finance is the study of government policy from the point of economic efficiency and equity. The role and functions of the government have been changing throughout time. The existence of externalities, acceleration of economic growth, raising the level of employment, the need and concern for adjustment in the distribution of income and wealth etc. require the use of package of policies which require tax systems, expenditure programmes, rising of debt, issues of deficit etc. This paper deals with basic concepts which explain the need for government intervention. It exposes the student to public budget through issues of taxation, expenditure, debt and concepts of deficit. The last Unit is related to topics concerning Indian Public Finance.

Unit – I Introduction

(12 Lectures)

Meaning and Scope of Public Finance; Public Finance versus Private Finance; Market Failure: Public Goods and Private Goods, Externalities, Efficiency versus Equity; Principles of Sound Finance and Functional Finance; Allocation, Distribution, Stabilisation and Growth Functions of the Government

Unit - II Fiscal Policy: Budget and Taxation

(12 Lectures)

Dalton's and Musgrave Versions of the Law of Maximum Social Advantage; Role of Government in a Modern Economy; Types of Public Budget; Structure of Public Budget; Role of Taxation; Merits and Demerits of Direct and Indirect Tax Policy; Features of Good Tax System; Concept of Impact, Incidence and Shifting of Taxation; Elasticity and Determination of Tax Burden

Unit III Fiscal Policy: Public Expenditure and Debt

(12 Lectures)

Canons of Public Expenditure; Classification of Public Expenditure; Wagner's Law of Public Expenditure; Public Expenditure as an Instrument of Fiscal Policy; Meaning and Types of Public Debt; Burden of Public Debt; Principles of Public Debt Management; Concepts of Deficits

Unit IV Indian Public Finance

(12 Lectures)

Budget of The Government of India (Previous Financial Year); Sources of Public Receipts (Tax And Non-Tax, Introduction To GST); Components of Public Expenditure; Sources of Public Borrowing and Debt Liabilities; Deficits; Appraisal of FRBM Act 2004; Fiscal Federalism: Fourteenth Finance Commission Recommendations

References:

1. J. Hindriks, G. Myles, (2006), Intermediate Public Economics, MIT Press.
2. Harvey Rosen, (2005), Public Finance, Seventh Edition, McGraw Hill Publications.



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Revised Syllabus for the **S.Y.B.A. (Sem IV)** **Paper VI**

Indian Economy

Course: Economics

(As Per Choice Based Credit System with effect from the
academic year 2020-21)



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Economics
S.Y.B.A. Semester IV
Paper VI
Indian Economy

Preamble

This paper deals with the nature and sector wise composition of Indian economy. The learners shall be able to understand the problems and prospects of Indian Economy. The content has also intended to orient the learners about the recent developments in the economy.

(12 Lectures)

Module- I: Introduction

Trends in India's National Income and PCI Since 1990; Structural Changes In Indian Economy; Brief Overview of the Employment Generation and Poverty Alleviation Programmes; Regional Inequalities; Measures to Reduce Regional Inequalities in India

(12 Lectures)

Module - II: Agricultural Sector

Role of Agriculture in Economic Development; Causes of Low Productivity; Agricultural Inputs; Agricultural Price Policy: Recent Minimum Support Price Policy; Income Support for Farmers; Sources of Agricultural Finance; Micro Finance; NABARD: Role and Function; Agricultural Marketing: Structure and Problems; National Policy for Farmers, 2007; Organic Farming Policy; Food Security in India

Module -III: Industrial Sector

(12 Lectures)

Infrastructure for Industrial Development; Industrial Policies in India; Industrial Policy of 1991; Micro, Small and Medium Enterprises (MSMEs): Classification, Role and Policy Measures; Growth of Large Scale Industries and Economic Development; Recent Policies and Programs for Industrial Development: Start Up India, Make in India, Skill India; Role and Trends of FDI in Industrial Sector Development

Module -IV: Service Sector

(12 Lectures)

Role of Service Sector in Indian Economy; Growth and Performance of Healthcare; Performance of Trade and Tourism, Information Technology and IT - Enabled Services; Research and Development Services With Reference to Education and Skill Development in Employment Generation in India; Performance of Service Sector during XIIth Five Year Plan

Reference

- 1) Ashwini Mahajan, Gaurav Datt, (2018) 'Indian Economy', S. Chand and Company, New Delhi.
- 2) Brahmananda, P.R. and V.R. Panchmukhi (Eds.), (2001), 'Development Experience in the Indian Economy: Inter-State Perspectives', Bookwell, New Delhi.
- 3) Datt, Ruddra and K.P.M, Sundaram, (2017), 'Indian Economy', S. Chand & Company Ltd., New Delhi.
- 4) Misra, S. K. and V. K. Puri, (2018) 'Indian Economy', Himalaya Publishing House, Mumbai.




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TYBA ECONOMICS (SEMESTER-V)

COURSE CODE	GROUP-I : CORE PAPER PAPER NO -VII	CREDIT	MARKS
ECOAME501	ADVANCED MICROECONOMICS - III	4	100

Course Objectives

The course is designed to provide sound understanding in micro economic theory. Since students have been taught perfect competition, this course focuses on three main pillars of microeconomics such as imperfect competition, welfare economics and information economics.

Course Outcomes

- Enables students to get knowledge on new market structure, imperfect competition.
- Provides understanding on the welfare economics and economics of information.

Module 1: General Equilibrium and Welfare Economics

(12 Lectures)

Concept of General Equilibrium and Walrasian General Equilibrium Model - Pareto Optimality - The Pareto Optimality Condition of Social Welfare - Marginal Conditions for Pareto Optimal Resource Allocation - Perfect Competition and Pareto Optimality - Arrow's Impossibility Theorem

Module 2: Market Structure: Monopoly and Monopolistic Competition

(14 Lectures)

Concept of Monopoly - Measurement of Monopoly Power - Price Discrimination: Types and Classification of Price Discrimination (Degrees of Price Discrimination) - Equilibrium under discriminating Monopoly - Regulation of Monopoly Market Product Differentiation in Monopolistic Competition - Chamberlin's Alternative approach- Equilibrium under Monopolistic Competition - Excess Capacity




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Module 3: Oligopoly

(12 Lectures)

The Cournot Model - Meaning and Characteristics of Oligopoly Market - Rigid Prices - The Sweezy Model of Kinked Demand Curve - Collusive Oligopoly - Cartel: Centralised and Market Sharing Cartel - Imperfect Collusion- Price Leadership Models, Game Theory - Prisoner's Dilemma, Nash Equilibrium and Dominant Strategy Equilibrium

Module 4: Information Economics

(12 Lectures)

Economics of Search and Search Cost - The Theory of Asymmetric Information-The Market for Lemons and Adverse Selection - Risk Preference and Expected Utility - The Problem of Moral Hazard - Market Signaling - Principal-Agent Problem

References:

1. Jhingan MLL. (2012), Advanced Economic Theory, Vrinda Publications, Delhi.
2. Mankiw N. Gregory (2015), Principles of Microeconomics, Cengage Learning.
3. Mansfield, Edwin (1985), Micro-economics: Theory & Applications, 5th edition, W.W. Norton & Company, New York.
4. Patil K. A (Second edition, 2011, Marathi), Advanced Economic Theory-Micro Analysis, Shri Mangesh Prakashan, Nagpur.
5. Salvatore D. (2006), Microeconomics: Theory and Applications, Oxford University Press, New Delhi.
6. Varian Hal R. (8 Edition 2010) Intermediate Microeconomics A Modern Approach, East-West Press, New Delhi




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TYBA (ECONOMICS) (SEMESTER-VI)

COURSE CODE	GROUP-I : CORE PAPER PAPER NO -XIII	CREDIT	MARKS
ECOAME601	ADVANCED MACROECONOMICS - III	4	100

Course Objectives

This course introduces the students to formal modeling of a macro economic theory with analytical tool. Since students have been taught Keynesian Synthesis, this course focuses on four aspects which are the study of Post Keynesian Synthesis, Trade Cycles, Exchange Rate Regimes and International Monetary System.

Course Outcomes

- To make students aware about Post Keynesian Synthesis and understand various aspects of Trade Cycles.
- Students will be able to describe the contemporary Exchange Rate Regimes and International Monetary System.

Module 1: Post Keynesian Synthesis

(14 Lectures)

Derivation of Aggregate Demand Curve with IS-LM - Aggregate Supply Curve - Determination of Equilibrium National Income and Price Level under Aggregate Demand and Aggregate Supply Model - Extension of IS-LM Model with Labour Market and Flexible Prices - Natural Rate of Unemployment - Long run Philips Curve - Friedman's Expectation Model - Tobin's Modified Philips Curve - Adaptive Expectations and Rational Expectations.

Module 2: Trade Cycles

(12 Lectures)

Meaning- Nature- Features and Types of Trade Cycles - Phases of Trade Cycles - Theories of Trade Cycles- Hawtrey's, Kaldor, Paul Samuelson and Hicks - Measures to Control Trade Cycles.



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(12 Lectures)

Module 3: Exchange Rate Regimes and Currency Crises

Managed Exchange Rate- Advantage and Disadvantage - Policy of Managed Flexibility-Adjustable Peg System, Crawling Peg System, Managed Floating System, Clean and Dirty Float System - Balance of Payment and Exchange Rate - Is Balance of Payments Always in Balance? - Convertibility of Currency - Currency Crisis-Causes, Impact and Measures.

(12 Lectures)

Module 4: International Monetary System

Rise and Fall of International Gold Standard - Bretton Woods System- Breakdown of the Bretton Woods System - Monetary System after the Collapse of Bretton Woods System - Maastricht Treaty, Features, Effects and Importance of Euro- Currency Market - Causes and Consequences of Global Economic Crisis - Impact of Global Recession on the Indian Economy - Asia Infrastructure Investment Bank (AIIB) - New Development Bank (NDB): Asian Development Bank (ADB).

References:

1. Blanchard, Oliver (2008), Macroeconomics, Pearson education, New Delhi, India.
2. Dornbusch, Fisher and Startz (2018): Macroeconomics, McGraw Hill Education (India) Pvt. Ltd.
3. Mankiw N Gregory (2003), Macroeconomics, 6th edition, Worth Publishers, New York.
4. Patil J. F (2005, Marathi Edition), Macroeconomic Analysis, Phadke Prakashan, Kolhapur.
5. Rana K. C. & Verma K.N (2017), International Economics, Vishal Publishing CO. Jalandhar.
6. Salvatore D. (1997), International Economics, Printice Hall, New York.




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TYBA (ECONOMICS) (SEMESTER-V)

COURSE CODE	GROUP-I : CORE PAPER PAPER NO - VIII	CREDIT	MARKS
ECOGAD502	ECONOMICS OF GROWTH AND DEVELOPMENT	4	100

Course Objectives

This paper introduces the concepts, theories, process and policies regarding growth and development. The meaning of the development as it has evolved over the years is clarified. The contemporary as well as classical theories of growth, development, and underdevelopment are considered in detail. Theories and issues related to population, poverty, inequality and human capital are considered. Urban and rural aspects of the development process studied. Importance of technology, infrastructure and planning in development process are considered. The approach has been to cover all important areas of development economics.

Course Outcomes

- Enable students to apply and analyse issues in the development process.
- Students will be able to identify the issues related to Growth and Development
- Students will be able to understand the policy options and analyzed the Measures taken for the Development of an economy.

Module 1: Meaning of Economic Growth and Development

(12 Lectures)

Concepts of Economic Growth and Development-Distinction between Economic Growth and Development- Concept of Human Development- H.D.I, G.D.I, Green GDP- Sen's Capability approach- Millennium Development Goals (MDGs)- Initiative by Indian government towards MDGs.

Module 2: Theories of Economic Development

(12 Lectures)

Rostow's stages of growth; Big Push Theory- Leibenstein's Critical Minimum Effort Thesis - Harrod - Domar Growth Model- Lewis Model of unlimited supply of labour - Ragner Nurkse's Theory of Disguised Unemployment- Schumpeter's Theory of Development




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TYBA (ECONOMICS) (SEMESTER-VI)

COURSE CODE	GROUP-I : CORE PAPER PAPER NO - XIV	CREDIT	MARKS
ECOIE602	INTERNATIONAL ECONOMICS	4	100

Course Objectives

The course is designed to provide a general understanding of the fundamentals of International Trade Theories along with the balance of payment concepts, crisis and various policy measures to correct the same. It also provides overview of the working of foreign exchange market, determination of exchange rate and different terms related with the foreign exchange market. The course introduces the main features of the international economic institutions and enables them to critically understand role and functions of those institutions.

Course Outcomes

- Students will be able to understand the trade theories and determinants of trade which helps them to analyze the international trade policies.
- Students will be able to understand the role of various international institutions and trade blocks and their approaches in framing the policies for trade.

Module 1: Introduction to Trade Theories

(12 Lectures)

Meaning, scope and importance of International Trade- Difference between Internal and International Trade - Adam Smith's Theory of International Trade - Ricardian theory of comparative cost difference Heckscher- Ohlin Theory- Leontief's Paradox- Krugman's Model

Module 2: Balance of Trade and Balance of Payment

(12 Lectures)

Concepts of Terms of Trade (Net barter, Gross barter and Income terms of trade)-Meaning and difference between Balance of Trade (BOT) and Balance of Payment (BOP)-Purchasing Power Parity theory, Law of Reciprocal Demand- Marshall-Edgeworth Offer curves, Gains from trade-Case for and against Free Trade and Protection policy




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TYBA (ECONOMICS) (SEMESTER-V)

COURSE CODE	GROUP-II : ELECTIVE PAPER PAPER NO - IX	CREDIT	MARKS
ECOACB503	ECONOMICS OF AGRICULTURE AND CO-OPERATION-I	3	80

Course Objectives

This paper provides an overview of the role of agriculture in the economic development of the country and the salient features associated to agricultural productivity and agricultural labour. The pertinent aspects related to agricultural credit, agricultural marketing as well as the global problems existing in the marketing are dealt in. Students can acquire understanding about the features of agricultural policy and the agrarian crisis as well as the problems and challenges in the field of Agriculture and cooperation.

Course Outcomes

- Students will obtain information regarding various agricultural issues in India and remedies for it.
- Making awareness about self-employment through various local business like agro- tourism, travel agents, horticulture, floriculture, fishery and animal husbandry.

Module 1: Agricultural Productivity

(12 Lectures)

Role of agriculture in Economic Development - Cropping pattern in India, Recent trends, Factors affecting - cropping pattern - Physical, Technical and Economic - Agricultural Productivity, Causes of Low Productivity in Agriculture - Measures taken to improve the Agricultural Productivity in India - Irrigation and Water Management and agricultural development - Agricultural labour Problems and suggestions.

Module 2: Agricultural Credit

(12 Lectures)

Institutional and Non-Institutional Sources of Credit Co-operative Credit and Agriculture Rural Indebtedness - Commercial Banks and Regional Rural Banks - Microfinance and NABARD - Role and Performance - Crop loan and Crop Insurance, Kisan Credit card Yojana.




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Revised Syllabus w.e.f. Academic Year, 2016-2017 (CBSGS)
F.Y.B.A. / F.Y.B.Sc. Geography, Semester – I, Paper – I

Subject Title: Geomorphology

Unit I: Interior of the Earth

(12)

Definition & meaning of Geomorphology - Composition and Structure of the Interior of the Earth -
Rocks and Minerals - Wegner's Continental Drift Theory - Theory of Plate Tectonics

Unit II: Endogenic Processes

(12)

Movements of the Earth's Crust - Diastrophic Movements: Folding and Faulting - Catastrophic
Movements: Volcanoes and Earthquakes - Examples from the World and India

Unit III: Exogenic Processes - I

(12)

Weathering, Erosion and Mass Wasting Fluvial and Glacial Landforms (Erosional and Depositional)

Unit IV: Exogenic Processes - II

(12)

Aeolian Landforms - Coastal Landforms Karst Landforms (Erosional and Depositional)

Unit V: Practicals

(12)

Concept of Contours Calculation of gradient (with HE and VI) Drawing of sections to depict
Contour Landforms Intervisibility

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Revised Syllabus w.e.f. Academic Year, 2016-2017 (CBSGS)
F.Y.B.A. / F.Y.B.Sc. Geography, Semester – II, Paper – II
Subject Title: Human Geography

Unit I: Introduction to Human Geography

(12)

Meaning, Nature and Scope of Human Geography - Branches of Human Geography Different
approaches to Human Geography Man-Environment relationship: Determinism, Possibilism,
Probabilism

Unit II: Settlements


Principal

(12)

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Concept of Urban and Rural Settlements- Types & Patterns of Settlements- Site and Situation
Functional classification of Urban Settlements

Unit III: Population

(12)

Trends and Patterns of World population change - Demographic Transition Model Population
Distribution: Factors and Patterns Concept and Problems of Under-population, over-population and
optimum population

Unit IV: Migration

(12)

Concept and Types of Migration Causes of Migration: Push and Pull Factors Consequences of
Migration: Source and Destination Areas Recent Trends in International Migration Migration
Theories: Lee's Theory of Migration & Reilly's Gravity Model

Unit V: Practicals

(12)

Nearest Neighbour Analysis - Construction and Interpretation of Age-Sex Pyramids - Construction
and interpretation of Flow Diagrams

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Cover Page

UNIVERSITY OF MUMBAI



Syllabus for Approval

Sr. No.	Heading	Particulars
1	Title of the Course	F.Y.B.A./F.Y.B.Sc – GEOGRAPHY PAPER-I
2	Eligibility for Admission	
3	Passing Marks	40
4	Ordinances / Regulations (if any)	
5	No. of Years / Semesters	Sem - I & II
6	Level	U.G
7	Pattern	Semester
8	Status	Revised
9	To be implemented from Academic Year	From Academic Year 2020-2021

Date: 23/04/2020

Signature

Name of BOS Chairman / Dean :Dr. S. A Thakur

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Ar. Kharepatan, Tal. Kankavli, Dist. Sindhudurg.

AC_23/07/2020

Item No. 4.62



UNIVERSITY OF MUMBAI



Program : F.Y.B.A. / F.Y.B.Sc

Course : Geography Paper-I

Syllabus for Semester-I and II

(Choice Based and Credit System with effect from the Academic year 2020-21)


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Revised Syllabus w.e.f. Academic Year, 2020-21 (CBSGS)
F.Y.B.A./F.Y.B.Sc. Geography, Semester – I, Paper – I
Subject Title: Human Geography

UNIT-I Human Geography: An Introduction

- Human Geography - Meaning, Definition, Nature, Scope
- Branches of Human Geography
- Different Approaches of Human Geography
- Man Environment relation, Determinism Possibilism, Probabilism

UNIT-II Population

- Trends and Patterns of World Population change
- Demographic Transition Model
- Population Density, its distribution and its growth
- Concept and Problems of Under-population, over-population and optimum population

UNIT-III Settlement

- Concept of Urban and Rural Settlements
- Types and Pattern of settlement
- Site and Situation
- Functional classification of Urban settlement

UNIT-IV Migration

- Concept and Types of Migration
- Causes of migration – pull and push; Consequences/effects of migration
- Patterns and processes of migration
- Emerging trends of migrations or Issues of legal and illegal international migration Migrant refugee crisis

UNIT-V Practical

- Map - Definition, Components, Type and Importance
- Map scale - Definition, Verbal Scale and Graphical Scale
- Construction of Choropleth Maps, Isopleth, Dot and Flow Maps

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A.P. Kharapalan, Tal. Kankavli, Dist. Sindhudurg.

Bibliography
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F.Y.B.A. / F.Y.B.Sc. Semester - II Geography Paper - I,

Title -GEOGRAPHY OF ENVIRONMENT

UNIT - I: FUNDAMENTALS OF ENVIRONMENTAL GEOGRAPHY

1. Definition, Meaning of environment Environmental Geography: Concepts, Scope and Contents
2. Nature, scope and importance
3. Man's interaction with Environment
4. Relationship of Environmental geography with other sciences

UNIT - II: ECOSYSTEM STRUCTURE AND FUNCTIONS

- 1: Ecosystem - meaning and definition and its Structure
- 2: Functions: Energy flow in ecosystem, food chains, food webs, food pyramid
- 3: Classification of Ecosystem detail study of Desert, Rainforest and fresh water lake ecosystem
- 4: Biogeochemical Cycles: Hydrological, Carbon and Nitrogen

UNIT - III: CONTEMPORARY ENVIRONMENTAL ISSUES

- 1: Pollution - Air and Water Pollution - causes, effects
2. Land and Noise Pollution - causes, effects
- 3: Major environmental issues - global warming, Ozone depletion and acid rain
- 4: Major Environmental Movements - Save Amazon forest or Green peace Movement, Chipko movement, Save Narmada,

UNIT - IV: NATURAL RESOURCES AND BIODIVERSITY

- 1: Natural resources - meaning, definitions and importance
2. Types of natural resources:
3. Causes of depletion and methods/measures of natural resources conservation
- 4: Bio-diversity in India and its conservation


UNIT: V- MAP FILLING AND CONSTRUCTION OF CARTOGRAPH (PRACTICAL)

- a) Map Filling - World
- b) Interpretation or question answer on thematic maps drawn with techniques - Choropleth Maps, Isopleth, Dot Maps and Flow Maps


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University of Mumbai
Revised Syllabus w.e.f. Academic Year, 2017-18 (CBSGS)
S.Y.B.A. Geography, Semester- III
Paper-II: An Introduction to Climatology
COURSE CODE: UAGEO 301 (2017-18), Credit - 3

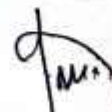


Unit-I: Introduction to Climatology		09 (lectures)
1.1	Definition, nature, scope and branches of climatology	
1.2	Concept and elements of weather and climate	
1.3	Composition and structure of atmosphere	
1.4	Insolation: Vertical and horizontal distribution of temperature	
Unit-II: Air Pressure and Atmospheric Circulation		09 (lectures)
2.1	Air pressure: Influencing factors – Tricellular model	
2.2	Horizontal distribution of air pressure	
2.3	Wind: Types of winds – global, regional and local	
2.4	Upper air circulation – jet stream (concept, origin and effects)	
Unit-III: Humidity and Precipitation		09 (lectures)
3.1	Humidity: Types - absolute, relative and specific	
3.2	Condensation and its forms	
3.3	Precipitation and its types	
3.4	Global distribution of rainfall	
Unit-IV: Climate and Weather Phenomena		09 (lectures)
4.1	Cyclones: tropical and temperate	
4.2	Anti-cyclones and tornados	
4.3	El Nino and Indian monsoon	
4.4	Global warming and climate change	
Unit-V: Practical Component		09 (lectures)
5.1	IMD: Weather signs and symbols, Interpretation of IMD weather	 PRINCIPAL
5.2	maps Construction of :wind rose, climograph and hythergraph	



University of Mumbai
Revised Syllabus w.e.f. Academic Year, 2017-18 (CBSGS)
S.Y.B.A. Geography - Semester- III
Paper-III: Physical Geography of India
COURSE CODE: UAGEO 302 (2017-18), Credit - 3

Unit-I: Introduction of India		09 (lectures)
1.1	India: Location , extent and significance	
1.2	India: Major physiographic divisions and their formation	
1.3	Mountainous region of India	
1.4	North Indian plains	
1.5	Peninsular plateau of India	
1.6	Coastal plains and islands of India	
Unit-II: Drainage and Climate		09 (lectures)
2.1	Drainage System in India (Himalayan and Peninsular drainage system)	
2.2	Major Himalayan rivers of India	
2.3	Major Peninsular Rivers of India	
2.4	Major lakes of India	
2.5	Seasons in India	
2.6	Distribution of rainfall in India	
Unit-III: Soils and Natural Vegetation		09 (lectures)
3.1	Classification of soils of India	
3.2	Problems associated with soils and its remedies in India	
3.3	Classification of Forest in India	
3.4	Importance of Forest in Indian context	
3.5	Deforestation and measures of forests conservation in India	
Unit-IV: Mineral and Power Resources		09 (lectures)


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Revised Syllabus w.e.f. Academic Year, 2017-18 (CBSGS)

S.Y.B.A. Geography, Semester- IV

Paper-II: Introduction to Oceanography

COURSE CODE: UAGEO 402 (2017-18), Credit - 3



Unit-I: Nature of Oceanography		09 (lectures)
1.1	Origin and Development of Oceanography	
1.2	Oceanography : meaning, definition, nature and scope	
1.3	Branches of oceanography: physical chemical and biological	
1.4	Major Oceans and its characteristic features	
Unit-II: Bottom Relief and Ocean Water		09 (lectures)
2.1	Ocean floor and its characteristics	
2.2	Composition of ocean water	
2.3	Factors affecting ocean water temperature	
2.4	Vertical and horizontal distribution of ocean temperature	
2.5	Factors affecting salinity of ocean water	
2.6	Vertical and horizontal distribution of oceanic salinity	
Unit-III: Movements of Ocean Water		09 (lectures)
3.1	Waves- Formation and types	
3.2	Tsunami and their effects on coast	
3.3	Concept and types of Tides	
3.4	Equilibrium theory of Tides	
3.5	Ocean Currents – types and their effects	
Unit-IV: Man and Ocean		09 (lectures)
4.1	El- Niño and La-Niña phenomenon	
4.2	Coral reefs and their importance	
4.3	Marine Ecosystem	
4.4	Marine pollution	
4.5	Oceans and global climate change	
Unit-V: Practical Component		09 (lectures)
5.1	Map filling : Related to Oceanography	
5.2	Reading and Interpretation of navigation charts and bathymetric maps	

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Revised Syllabus w.e.f. Academic Year, 2017-18 (CBSE)
S.Y.B.A./ S.Y.B.Sc. Geography, Semester- IV
Paper-III: Agriculture Geography of India
COURSE CODE: UAGEO401 (2017-18) Credit - 3

Unit-I: Introduction to Agricultural Geography		09 (lectures)
1.1	Definition, nature and scope of agricultural geography	
1.2	Approaches: regional approach, systematic approach, commodity approach, recent approaches	
1.3	Importance of agriculture in Indian economy	
1.4	Factors influencing agriculture in India	
1.5	India a agro-product exporting country	
Unit-II: Introduction to Indian Agriculture		09 (lectures)
2.1	Salient features of Indian agriculture	
2.2	Types of farming in India	
2.3	Major crops of India	
2.4	Agro- climatic regions of India	
2.5	Problems associated with Indian agriculture (Natural, Socio-Economic and Political)	
Unit-III: Green Revolution in India		09 (lectures)
3.1	Introduction of Green Revolution in India	
3.2	Components of Green Revolution	
3.3	Positive impacts of Green Revolution	
3.4	Negative impacts of Green Revolution	
3.5	Need for sustainable agriculture in India	
3.6	Agriculture in drought prone region and watershed management	
Unit-IV: Recent Trends in Agriculture		09 (lectures)
4.1	White revolution and livestock resources,	
4.2	Genetic engineering, tissue culture and horticulture	
4.3	Poly house agriculture	
4.4	Agro processing in India	
4.5	Agro-tourism	
4.6	Agro forestry	
Unit- V		

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Syllabus for Approval

	Heading	Particulars
1	Title of the Course	S.Y.B.A. / S.Y.B. Sc. (Geography) F.Y.B.A. / F.Y.B. Sc. (Geography)
2	Eligibility for Admission	
3	Passing Marks	40%
4	Ordinances / Regulations (if any)	
5	No. of Years / Semesters	Sem-III & IV
6	Level	U.G.
7	Pattern	Semester
8	Status	Revised
9	To be implemented from Academic Year	From Academic Year 2022-23

Name & Signature of BOS Chairperson : Dr. S.A. Thakur

Name & Signature of Dean:

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Arts, Commerce & Science College, Kharepatan,
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Syllabus for S.Y.B.A / S.Y.B. Sc. Course

(Geography) (CBCS)

Revised Syllabus w.e.f. the academic year 2022-23

Paper – II Semester – III

Title: Geography of Maharashtra

Course code: UAGEO 301 Credits: 03



Course Objectives:

1. To acquaint student with the location, administrative and physical environment of Maharashtra
2. To make them understand the spatial distribution of various physical conditions of Maharashtra
3. To assess various resources found in Maharashtra
4. To make them understand the problems and measures to develop agricultural, livestock and fisheries resources of Maharashtra.
5. To acquaint students with different cartographic skills such as map reading and map-filling.
6. To provide students an insight to the subject of Geography of Maharashtra from the viewpoint of competitive examination as well as its application in daily life.

UNIT	TOPIC	NO.OF LECTURES
Unit I	Maharashtra: Location, Physiography, Rives and Climate	9 Lectures
1.1	Introduction –Location and its significance	
1.2	Physiographic Divisions of Maharashtra	
1.3	Major Rivers basins of Maharashtra	
1.4	Maharashtra climate –seasons and monsoon distribution	
Unit II	Maharashtra: Soil, Forest, Minerals and Energy Resources	9 Lectures
2.1	Definition of soil-Importance of soil, types of soils, soil related issues and conservation measures.	
2.2	Definition of forest-Importance of Forest, types of forests, forest related issues and conservation of forest.	
2.3	Definition of Mineral- Types of Minerals, mineral related issues and its conservation	

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2.4	Define energy resources, types of Energy resources, problems related to energy resources. Need for conservation of energy, measures of energy conservation.	
Unit III	Maharashtra: Agriculture, Livestock and Fishing	9 Lectures
3.1	Definition of Agriculture- Types of agriculture - major agricultural regions-	
3.2	Problems associated with agriculture and solutions	
3.3	Definition of Livestock resources- Distribution of livestock resources. Issues related with livestock resources and solutions	
3.4	Define Fisheries – Types of fisheries - Fishing related issues and its conservation-	

Unit IV	Industrial Regions, Transportation and Communication sector	9 Lectures
4.1	Types and characteristics of Industries (Heavy industries, sugar industry, textile industry and chemical industry)	
4.2	Factors of industrial location -Industrial regions of Maharashtra	
4.3	Definition of Transport and Communication – Types of Transport – Network of Transport Development in Maharashtra	
4.4	Issues related with industrial regions and transport development	

Unit V	Practical	9 Lectures
5.1	Map Filling of important geographical features on outline map of Maharashtra related to units covered with units I to IV	
5.2	Construction of Map – Choropleth, Isopleth, Dot map and Pictogram and Flow map related to units covered with units I to IV	

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Question paper pattern		
Q.1.	(Unit I) Attempt any two questions out of three.	20
Q.2.	(Unit II) Attempt any two questions out of three.	20
Q.3.	(Unit III) Attempt any two questions out of three.	20
Q.4.	(Unit IV) Attempt any two questions out of three.	10
Q.5.A.	(Unit V) Map filling – Maharashtra	10
Q.5.B.	(Unit V) Thematic map- construction	



UNIVERSITY OF MUMBAI

Revised Syllabus w.e.f. academic Year, 2022-23 (CBCS)

S.Y.B.A. / S.Y.B.Sc. (Geography) Semester- III Paper-III

Title: Agricultural Geography

COURSE CODE: UAGEO 302

CREDITS : 03

Objectives		
1. To acquaint students with the importance of agriculture in human civilization. 2. To understand the physical and human factors affecting agriculture. 3. To know the types of agriculture and its spatial distribution pattern in the world. 4. To study the issues related with agriculture and suggest remedial measures to overcome them. 5. To develop and promote the cartographic skills such as map reading and statistical techniques.		
Unit-I Introduction to Agricultural Geography		Lectures(09)
1.1	Definition, nature and scope of Agricultural Geography	
1.2	Origin of agriculture, major gene centers	
1.3	Diffusion and change in agriculture	
1.4	Agriculture and human civilizations in the world	
Unit-II Determinants of Agriculture		Lectures(09)
2.1	Physical and economic factors	
2.2	Socio-cultural and political factors, role of technology	
2.3	Critical appraisal of Agricultural land use model of Von Thunen	
2.4	Measurement of agricultural productivity - Bhatia's Agricultural Productivity Index	

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Revised Syllabus w.e.f. Academic Year, 2022-23 (CBCS)

S.Y.B.A. / S.Y.B.Sc. (Geography), Semester – IV

Paper – III: Geography of Tourism

COURSE CODE: UAGEO-402,

Credit: 03



Course objectives:

1. To know the nature and scope of Tourism Geography
2. To recognize the significance, recent trends and factors of tourism.
3. To realize the role of infrastructure and travel agency in tourism development
4. To know the importance of planning and organization of tourism
5. To study the impacts of tourism and concept of sustainable tourism
6. To know the policies of tourism and places of tourist interest in India and Maharashtra
7. To be able to mark the precise locations of tourist centres on the map of India
8. To be able to read thematic maps of India to analyse tourism related information

information		TOTAL NO OF LECTUR ES
UNIT – I: Introduction to Geography of Tourism		9
1.1.	Tourism Geography: definition, nature and scope	9
1.2	Tourism: Concept, Significance and importance of geography in tourism	
1.3	Types of Tourism- Recent trends in tourism	
1.4	Factors influencing tourism development -Physical, economical and socio-Political	
UNIT – II: Tourism Infrastructure and Travel Agency		09
2.1	Tourist accommodation: Concept and Types	09
2.2	Transport and tourism development – Road, Rail, Water and Air Transport	
2.3	Tourism Organisations: U.N.W.T.O., TAAI, IATO ,I.T.D.C. and M.T.D.C	
2.4	Travel Agency: Features and Functions with reference to documentation	
UNIT – III: Tourism Planning, Impacts and Sustainability		09
3.1	Tourism planning: Need, components and levels	

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SYLLABUS FOR THIRD YEAR BACHELOR OF ARTS AND

BACHELOR OF SCIENCE

Program: T.Y.B.A. and T.Y. B.Sc.

Course: Geography

Semester - V and VI at the T.Y.B.A. and T.Y. B.Sc.

Paper IV to IX

(Credit Based Semester and Grading System (CBSGS) with
effect from the academic year 2018-19)


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Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS)
T.Y.B.A. / T.Y.B.Sc. Geography, Semester – V, Paper – IV

Subject Title: GEOGRAPHY OF SETTLEMENTS

COURSE CODE: _____ (2018-19), Credit: 04

UNIT – I: Introduction of Settlement Geography		No. of Lectures
1.1	Settlement geography: definitions, nature and scope	12
1.2	Settlement types, their characteristics and differences	
1.3	Factors influencing growth and distribution of settlements	
1.4	Importance of settlement studies in geography	
UNIT – II: Geography of Rural Settlements		12
2.1	Origin and growth of settlements - evolution of rural settlements	
2.2	Site and situation of rural settlements	
2.3	Classification of rural settlements on the basis of population and patterns	
2.4	Classification of rural settlements on the basis of spacing and functions	
UNIT – III: Rural Settlements in India		12
3.1	Distribution and density of rural settlements in India	
3.2	Structure of house and building materials in India	
3.3	Regional variations in rural settlement patterns in India	
3.4	Morphology of rural settlement in India	
UNIT – IV: Urban Settlements		12
4.1	Origin and growth of urban settlements	
4.2	Classification of urban settlements on the basis of culture and functions	
4.3	Hierarchy of urban Settlement: rank size rule and primate city	
4.4	Ashok Dutt's models of South Asian city: port city and bazaar city	
UNIT – V: Urban Settlements in India		12
5.1	Urbanisation in India: Trends, patterns and types of towns	
5.2	Morphology of urban settlements in India (With reference to a port and inland city)	
5.3	Urban problems in Indian cities	
5.4	Smart city: Concept, need and implementation in India	

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University of Mumbai
Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS)
T.Y.B.A. / T.Y.B.Sc. Geography, Semester – V Paper: V-A
GEOGRAPHY OF MAHARASHTRA

COURSE CODE: _____, **Credit:** 04

Unit-I : Maharashtra: Geographical Setting		TOTAL LECTURES
1.1	Location, extent and boundaries	12
1.2	Administrative setup and divisions	
1.3	Relief and climate	
1.4	Drainage system	
Unit-II : Natural Resources		12
2.1	Soils	
2.2	Natural vegetation	
2.3	Minerals	
2.4	Power resources	
Unit-III : Human Resources		12
3.1	Population growth	
3.2	Distribution –urban-rural and population density	
3.3	Structure of population : Age-sex	
3.4	Occupational structure of population	
Unit-IV :Agriculture, Fishing and Livestock Resources		12
4.1	Salient features of agriculture	
4.2	Agricultural regions, recent issues and policies	
4.3	Fisheries, recent issues and policies	
4.4	Livestock resources recent issues and policies	
Unit-V: Industries, Trade and Transport		12
5.1	Major industrial regions	
5.2	Role of transport in industrial development	
5.3	Industrial issues and policies	
5.4	Trade and transport	

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University of Mumbai
Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS)
T.Y.B.A. / T.Y.B.Sc. Geography, Semester – V, Paper : V-B

Subject Title: POPULATION GEOGRAPHY
COURSE CODE: _____, Credit: 04 _____

UNIT- I, Introduction to Population Geography		TOTAL LECTURES
1.1	Concept, definition, nature, scope, importance	12
1.2	Evolution and recent trends	
1.3	Basic sources of population data and their important elements	
1.4	Population geography and other social sciences	
UNIT- II, Population Dynamics		
2.1	Population growth in the world (continent wise and level of development)	12
2.2	Population growth in India	
2.3	World : Population density and its determinants	
2.4	Structure of population in developed and developing world (Age and Sex, Rural and Urban)	
UNIT- III, Theories of Population Growth		
3.1	Demographic Transition Model	12
3.2	Malthu's Population Theory	
3.3	Leibenstein's motivational theory of population growth	
3.4	Theory of optimum population	
UNIT- IV, Migration		
4.1	Definition and Classification of Migration	12



University of Mumbai
Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS)
T.Y.B.A. / T.Y.B.Sc. Geography, Semester – V. Paper No: VI

Subject Title: TOOLS AND TECHNIQUES IN GEOGRAPHY FOR
SPATIAL ANALYSIS-I (Practical)

COURSE CODE: _____, Credit: 03

Unit -I	Map Projections	Lectures
	1.1. Basic Concepts – Definition, scale, direction, azimuth, graticule, great circle, true meridian, types of projections, choice of projections 1.2. Zenithal Polar Projections – Equal Area, Equidistant 1.3. Cylindrical Projections - Equal Area, Equidistant 1.4. Conical Projections - One standard parallel, two standard parallel	09
Unit-II	Map Basic	
	2.1. Basic elements of map and calculation or identification of relief, direction, bearing and distance 2.2. Area calculation with square method and strip method 2.3. Demarcation of watershed on toposheet, Tracing of stream network and contours	09
Unit-III	Survey of India Toposheets	
	3.1. Signs and symbols, marginal information 3.2. Study of physiography, drainage and vegetation (one full toposheet of hilly and plateau region each) 3.3. Study of settlements – size, pattern, utilities (one full toposheet of plains and urban region each) 3.4. Study of transport network (one full toposheet of plains and urban area each)	09
Unit-III	Preparation of Thematic maps (Manually)	
	4.1. Preparation of a district thematic maps with actual data- Dot and Pictogram 4.2. Preparation of a district thematic maps with actual data- Choropleth and Isopleth 4.3. Preparation of a district thematic maps with actual data- Located bar, located circle and pie chart	09
Unit-V	Use of computers in geographical data representation	
	5.1. Construction of line graphs & simple and multiple bar graphs	09

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Arts and Commerce College, Kharepatan
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University of Mumbai

Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS)

T.Y.B.A. / T.Y.B.Sc. Geography, Semester – VI, Paper: IV

Subject Title: ENVIRONMENTAL GEOGRAPHY

COURSE CODE: _____ Credit: 04

UNIT -I	Introduction to Environmental Geography	No. of Lectures
1.1	Environmental Geography: Definition, Nature, Scope and Importance	12
1.2	Environment: Meaning, Factors and Types	
1.3	Approaches to the Study of Man – Environment Relationship	
1.4	Changing Man - Environment Relationship in Historical Perspective	
UNIT-II	Ecosystem	
2.1	Meaning and Structure of Ecosystem	12
2.2	Ecological Pyramids and Productivity of Ecosystem	
2.3	Functions of Ecosystem: Food Chain & Web, Energy Transfer, Biogeochemical Cycles	
2.4	Types of Ecosystems: Aquatic, Terrestrial, and Aqua-Terrestrial Ecosystems	
UNIT-III	Biodiversity	
3.1	Biodiversity: Concept, Types and Distribution	12
3.2	Biodiversity Hotspots: Concept, and Distribution in India with Special Reference Western Ghats	
3.3	Threat to Biodiversity: Causes	
3.4	Conservation of Biodiversity and Management of Biological Reserves	
UNIT-IV	Environmental Challenges in India	
4.1	Air pollution and Water Pollution: Cases and Effects	12
4.2	Land and Noise Pollution: Cases and Effects	
4.3	Environmental Issues Related to High/large Dams	
4.4	Major environmental Movements in India	
UNIT-V	Sustainable Development and Environmental Management	

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University of Mumbai
Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS)
T.Y.B.A. / T.Y.B.Sc. Geography, Semester – VI
Paper No. – V -A
GEOGRAPHY OF TOURISM and RECREATION

COURSE CODE: _____, **Credit:** 04

Unit-I -Introduction to Tourism Geography		TOTAL LECTURES
1.1	Definition , Nature and Scope	12
1.2	Trends of Tourism Development in World	
1.3	Factors of Tourism Development - Geographical components	
1.4	Factors of Tourism Development - Socio-cultural and political	
Unit-II Types & Impact of Tourism		12
2.1	Types of Tourism,	
2.2	New Trends in Tourism,	
2.3	Positive impact of Tourism on Environment, Socio-culture and Economy	
2.4	Negative Impact of Tourism on Environment, Socio-culture and Economy	
Unit-III - Infrastructure of Tourism and Ancillary Services		12
3.1	Accommodation	
3.2	Transportation	
3.3	Travel Agencies and Tour Guide	
3.4	Documentation and Ticketing	
Unit-IV - Planning of Tourism and Organisation		12
4.1	Need of Planning and Elements of Planning	
4.2	Levels of Planning	
4.3	Tourism Organizations - IATA, PATA, I.T.D.C. and M.T.D.C	
4.4	Incredible India campaign	
Unit-V Potential Tourism Sectors in Maharashtra and Tourism Policy		12
5.1	Coastal tourism in Maharashtra	
5.2	Adventure tourism in Sahyadri	
5.3	Heritage tourism in Maharashtra	
5.4	Tourism Policy of Maharashtra State	

(Signature)
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• **Reference Books**

1. Anand M.M., Tourism & Hotel Industry in India, Prentice Hall of India, New Delhi, Dist. Sindhudurg.



University of Mumbai

Revised Syllabus w.e.f. Academic Year, 2018-19 (CBSGS)

T.Y.B.A. / T.Y.B.Sc. Geography, Semester –VI, Paper No: VI

Subject Title: TOOLS AND TECHNIQUES IN GEOGRAPHY FOR
SPATIAL ANALYSIS-II (Practical)

COURSE CODE: _____, Credit: 03

Unit -I	Nature of data and central tendency	Lectures
	1.1. Meaning and types of data, variable, observation, observation value, simple, discrete data and continuous data	09
	1.2. Frequency Distribution, Histogram, Frequency Polygon and Ogive	
	1.3. Measures of Central Tendency- mean, median and mode	
Unit -II	Dispersion and Deviation	09
	2.1. Mean Deviation and Quartile Deviation	
	2.2. Standard Deviation	
	2.3. Moving Averages (3 years and 5 years)	
Unit -III	Correlation, Regression & Hypothesis Testing	09
	3.1. Calculation of correlation coefficient - Pearson's and Spearman's methods	
	3.2. Regression analysis	
	3.3. Chi square test	
Unit-IV	Sampling	09
	4.1. Sample and sample design in geography	
	4.2. Point sampling – Systematic and random	
	4.3. Line sampling – Systematic and random	
	4.4. Area sampling – Systematic and random	
Unit-V	Field work in Geography of any one place/village	09
	5.1. Collection of physiographic data – Field observation, field sketching, collection of soil and rock samples, identification of vegetation etc.	
	5.2. Collection of socio-economic data – interviews, questionnaire survey, visit to local governing office, NGO's etc.	
	5.3. Collection of geospatial data – toposheets, aerial photographs, Google images/maps, Bhuvan images etc.	
	To prepare a geographical report of a place with the help of an available 5.1, 5.2, and 5.3 aspects	

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Arts and Commerce College, Kharepatan
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AC/ /2018

Itemno.

UNIVERSITY OF MUMBAI



Revised Syllabus for Sem V and Sem VI

Program: B.A.

Course: History and Archaeology

**(Choice Based Credit System with effect from the
Academic year 2018-2019)**



PRINCIPAL

Arts, Commerce & Science College, Kharepatan,
A.P. Kharepatan, Tal. Kankavli, Dist. Sindhudurg.

T.Y.B.A.History

SEMESTER-V

Course IV-History of Medieval India (1000CE-1526CE)

Objectives:

1. To acquaint the students with the history of early Medieval India that laid the foundation of the Sultanate in India.
2. To study the contribution of Vijayanagar and Bahamani kingdoms to Medieval Indian History.
3. To examine the Administrative, socio-economic and cultural aspects of Medieval India.

Module I: Foundation, Expansion and Decline of Delhi Sultanate

- (a) Socio-economic and political conditions on the eve of the Turkish Invasion
- (b) Rise and Decline of Slave dynasty, Khilji Dynasty
- (c) Tughlaq, Sayyid and Lodi Dynasty

Module II: Administrative Structure of the Sultanate

- (a) **Central Administration and Iqta system**
- (b) **Administrative and Military Reforms** of Ala-ud-din Khilji
- (c) Reforms of Firozshah Tughlaq and Mohammed bin Tughlaq

Module III :Emergence of Vijaynagar and Bahamani Kingdoms

- (a) Rise, Growth and Decline of Vijaynagar and Bahamani Kingdoms
- (b) **Administration, Socio-Economic and Cultural conditions of Vijayanagar Empire**
- (c) **Administration, Socio-Economic and Cultural conditions of Bahamani Kingdom**

Module IV: Society, Economy, Religion and Culture of Delhi Sultanate

- (a) Socio-economic and religious life
- (b) **Education and Literature**
- (c) **Art and Architecture**



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T.Y.B.A. History

SEMESTER-V

Core Course V-History of Modern Maharashtra(1818CE-1960CE)

Objectives:

1. To acquaint students with regional history.
2. To understand political and socio-economic developments during the 19th and 20th centuries.
3. To create understanding of the movement that led to the formation of Maharashtra.

Module I: Beginning of the British Rule

- (a) Socio-Economic conditions of Maharashtra in 19th Century
- (b) **Administration and Judiciary**
- (b) Tribal and Peasant Uprisings

Module II: Socio-Economic Awakening

Mahatma Jotirao Phule – Satya Shodhak Samaj and **Universal Humanism**

- (a) Prarthana Samaj
- (b) Contribution of thinkers of Maharashtra to Economic Nationalism

Module III: Political Developments in Maharashtra (1885-1960)

- (a) Moderates, Extremists and Revolutionary parties in Maharashtra
- (b) Response to Gandhian Movements in Maharashtra
- (c) Samyukta Maharashtra Movement

Module IV: Emergence of New Forces

- (a) **Contribution of Reformers in Education**
- (b) **Contribution of Reformers towards Emancipation of Women**
- (c) Contribution of Reformers towards Upliftment of **Depressed Classes** V.R. Shinde, Rajarshi Shahu Maharaj and Dr. B.R. Ambedkar




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Elective Course: Paper VIB–Media and Communication

Objectives:

1. To inform students about the Fundamentals of Communication.
2. To introduce students to Oral Traditions in Communication and the field of Journalism.
3. To familiarize students with the various types of Audio-Visual Media.

Module I: Fundamentals of Communication

- (a) Definition, Evolution and Significance of Communication
- (b) Process, Types, Importance and Need of Communication
- (c) Barriers to Communication

Module II: Oral Traditions in Communication

- (a) **Folk Theatre**–Importance, Marathi Theatre
- (b) **Major Dance Forms – Folk and Classical**
- (c) Folk Expression–Songs, Stories and **Puppetry**

Module II I: Journalism

- (a) Definition, Evolution and **Types of Journalism**
- (b) Role and Functions of Reporters, Sub-Editor and Editor
- (c) **Freedom of Press –** Importance, Ethics and Current Trends

Module IV: Audio-Visual Media

- (a) **Photography–Types, Scope and Limitations**
- (b) **Cinema–Growth, Development and Technical Aspects**
- (c) **Types of Films and Global Indian Cinema**




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Tal. Kankavli, Dist. Sindhudurg.

T.Y.B.A.History

SEMESTER-VI

Course: IV-History of Medieval India(1526CE-1707CE)

Objectives:

1. To acquaint the students with the history of India since the emergence of the Mughal rule.
2. To understand administration of the Mughal Empire.
3. To study the rise of the Maratha Power.

Module I: Foundation, Expansion and Decline of the Mughal Rule

- (a) India on the eve of Mughal Rule; Invasion of Babur
- (b) Humayun, Shershah and Akbar
- (c) Jahangir, Shahjahan and Aurangzeb

Module II: Administrative Structure of the Mughals

- (a) **Central and Provincial Administration**
- (b) Mansabdari System
- (c) **Revenue and Judicial system**

Module III: Rise of the Maratha Power

- (a) Shivaji and Foundation of Swarajya
- (b) **Administration of Shivaji**
- (c) Sambhaji, Rajaram and Tarabai

Module IV : Society and Economy, Religion and Culture of the Mughal Rule

- (a) Society and Economy
- (b) **Religion, Education and Literature**
- (c) **Art and Architecture**




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AC / / 2017
Item no.

UNIVERSITY OF MUMBAI



Revised Syllabus for Sem III and Sem IV

Program: B. A.

Course: History and Archaeology

(Choice Based Credit System with effect from the Academic
year 2017-2018)




PRINCIPAL

Arts, Commerce & Science College, Kharepatan,
A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg.

SYBA History- Paper- III
Ancient India from Earliest Times to 1000 A.D.

SEMESTER-III

Objectives: To acquaint the students with different sources of Ancient Indian History. To enable the students to understand the political, socio-economic and cultural developments in the period under study and appreciate the rich cultural heritage in India

Module I: Sources of Ancient India and their Importance

- (a) Archaeological
- (b) Literary
- (c) Foreign Travellers

Module II: Indus Valley Civilization

- (a) Social and Economic Life**
- (b) Religious Life
- (c) Town Planning and Decline of the Civilization

Module III: Vedic Age

- (a) Janapada
- (b) Social and Economic Life**
- (c) Religion**

Module IV: India after 6th Century B.C.

- (a) Administration of Mahajanapadas**
- (b) Jainism and Buddhism**
- (c) Persian and Greek Invasions




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Revised syllabus for Sem I and II Program: B. A.

Course:History&Archaeology

(ChoiceBasedCreditSystemwitheffectfromtheAcademic year
2016-17)



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K. J. Somaiya Commerce & Science College Kharapattan,
Kharapattan, Tal. Kankavli, Dist. Sindhudurg.

Semester –II

History of Modern India: Society and Economy.

Module I: Socio. Religious Reform Movements: Reforms and Revival

- (a) Brahmo Samaj, Arya Samaj and Ramakrishna Mission
- (b) Satyashodhak Samaj, Aligarh movement and Singh Sabha Movement.
- (c) Impact of Reform Movements

Module II: Education, Press and Transport

- (a) Introduction of Western Education and its Impact
- (b) Development of Press
- (c) Transport and Communications

Module III: Impact of the British Rule on Indian Economy.

- (a) Revenue Settlements, Commercialization of Agriculture
- (b) Drain Theory
- (c) Deindustrialization and Growth of Large Scale Industry

Module IV : Nationalism and Social Groups: interfaces.

- (a) women
- (b) Dalits
- (c) Peasants and Tribals




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University of Mumbai
Revised Syllabus w.e.f. Academic Year, 2016-2017 (CBSGS)

FYBA

Political Science,

Semester – I, Political Paper – I

Subject Title: Indian Political System

SUB-TITLE: THE CONSTITUTIONAL FRAMEWORK

1. INTRODUCTION TO THE CONSTITUTION (12)



1.1. BRIEF HISTORY OF THE MAKING OF CONSTITUTION

1.2. REMARKABLE

1.3. BASIC FEATURES

2. CITIZENS AND THE CONSTITUTION

2.1. FUNDAMENTAL RIGHTS - ARTS 14 TO 19



2.2. FUNDAMENTAL RIGHTS --ARTS- 20 TO 32

2.3. DIRECTIVE PRINCIPLES OF STATE POLICY (11)

3. LEGISLATURE AND JUDICIARY (11)

3.1. PARLIAMENT



JUDICIAL SYSTEM - ORIGINAL AND WRIT JURISDICTION

3.2. JUDICIAL ACTIVISM

4. EXECUTIVE (11)

4.1. UNION EXECUTIVE - THE PRESIDENT,



4.2. PRIME MINISTER AND COUNCIL OF MINISTERS

4.3. LOCAL SELF-GOVERNMENT - 73rd, 74th, AMENDMENTS AND
THEIR IMPLEMENTATION


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University of Mumbai
Revised Syllabus w.e.f. Academic Year, 2016-2017 (CBSGS)

SYBA

Political Science,

Semester – III, Political Paper – II

Subject Title: PRINCIPLES AND CONCEPTS OF POLITICAL THEORY

Module 1 - Introduction to Political Theory [11 lectures]

- 1.1 Definition and Scope of Political Theory
- 1.2 Approaches to the Study of Political Theory: Traditional
- 1.3 Approaches to the Study of Political Theory: Contemporary

Module 2 – State, Civil Society & Market [12 Lectures]

- 2.1 State: Concept and Perspectives
- 2.2 Nation - State: Meaning and Changing Perceptions
- 2.3 State, Civil Society and Market

Module 3 – Power, Authority and Legitimacy [10 Lectures]

- 3.1 Power
- 3.2 Authority
- 3.3 Legitimacy

Module 4 : Concept of Law and Political Obligation [12 Lectures]

- 4.1 Concept of Law
- 4.2 Political Obligation
- 4.3 Right to Resist


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University of Mumbai
Revised Syllabus w.e.f. Academic Year, 2016-2017 (CBSGS)

SYBA

Political Science,

Semester – III, Political Paper – III

Subject Title: Public Administration

Module 1: Introduction to Public Administration [Lectures 12]

1.1 Meaning, Scope and Significance

1.2 Evolution of Public Administration as a Discipline

1.3 Public Administration in the Age of Liberalisation, Privatisation and Globalisation

Module 2: Theories of Administration [Lectures 10]

2.1. Scientific Management Theory- F.W. Taylor

2.2. Bureaucratic Theory- Max Weber

2.3. Human Relations Theory- Elton Mayo

Module 3: Basic Principles and Theories of Organisation [Lectures 12] 3.1. Hierarchy,

Delegation, Centralisation-Decentralisation

3.2. Motivation Theories- McGregor, McClelland

3.3. Leadership Theories- Trait theory, Contingency theory

Module 4: Contemporary Techniques and Practices in Administration [Lectures 11]

4.1 Good Governance

4.2 E-Governance



4.3 Public-Private Partnership (PPP)


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University of Mumbai
Revised Syllabus w.e.f. Academic Year, 2016-2017 (CBSGS)

SYBA

Political Science,

Semester – IV, Political Paper – II

Subject Title: Political Values of Ideologies

Module 1 – Rights

1.1 Meaning and Nature of Rights

1.2 Theories of Rights

1.3 Classification of Rights

Module 2 – Basic Political Values

2.1 Liberty

2.2 Equality

2.3 Justice

Module 3 – Democracy

3.1 Theories of Democracy

3.2 Principles of Liberal Democracy

3.3 Conditions for the Successful Working of Democracy

Module 4 – Political Ideologies

4.1 Marxism

4.2 Fascism

4.3 Feminism


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University of Mumbai
Revised Syllabus w.e.f. Academic Year, 2016-2017 (CBSGS)

FYBA

Political Science,

Semester – I, Political Paper – II

Subject Title: Indian Political Process

SUB-TITLE: THE CONSTITUTIONAL FRAMEWORK

1. CHANGING NATURE OF FEDERAL SYSTEM (11)

1.1 CENTRE-STATE RELATIONS WITH REFERENCE TO FISCAL
AND EMERGENCY POWERS.

 1.2 DEMAND FOR GREATER AUTONOMY

 1.3 CHANGING DYNAMICS OF CENTRE-STATE RELATIONS

2. PARTY POLITICS AND ELECTIONS (11)

2.1 NATIONAL PARTIES - FEATURES


2.2 REGIONAL PARTIES - CHARACTERISTICS

 2.3 ANALYSIS OF ELECTORAL PERFORMANCE OF NATIONAL AND
REGIONAL PARTIES SINCE 1989

3. SOCIAL DYNAMICS (11)


3.1 CASTE (WITH REFERENCE TO RESERVATION)

3.2 RELIGION (WITH REFERENCE TO COMMUNALISM)

 3.3 GENDER (WITH REFERENCE TO POLITICAL PARTICIPATION)

4. CHALLENGES TO NATIONAL SECURITY (12)

4.1 CRIMINALISATION OF POLITICS

 4.2 INTERNAL THREATS TO SECURITY (WITH REFERENCE TO
NAXALISM AND INSURGENCY)

4.3 GLOBAL TERRORISM


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University of Mumbai
Revised Syllabus w.e.f. Academic Year, 2016-2017 (CBSGS)

SYBA

Political Science,
Semester – IV, Political Paper – III
Subject Title: Indian Administration

Module 1: Introduction to Indian Administration [Lectures 11]

1.1 Evolution and Constitutional Context

1.2 Salient features

1.3 District Administration since Independence: Changing role of District Collector

Module 2: Personnel Administration [Lectures 11]

2.1. Recruitment: All India Services, Central Services, State Services

2.2. Public Service Commission: Union Public Service Commission and Maharashtra Public Service Commission

2.3. Training: All- India Services, Central Services, State Services (Maharashtra)

Module 3: Financial Administration [Lectures 12]

3.1. Budgetary Process

3.2. Parliamentary Committees: Public Accounts Committee, Estimates Committee, Committee on Public Undertakings

3.3. Comptroller and Auditor General

Module 4: Contemporary Issues in Indian Administration [Lectures 11] 4.1. Integrity in Administration: Lokpal, Lokyakta, CVC

4.2. Citizen and Administration

4.3. Citizens' Charter




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UNIVERSITY OF MUMBAI

No. UG/53 of 2018-19

CIRCULAR:-

Attention of the Principals of the Affiliated Colleges and Directors of the recognized Institutions in Humanities Faculty is invited to this office circular No. UG/207 of 2010, dated 21st July, 2010 relating to syllabus of Bachelor of Arts.

They are hereby informed that the recommendations made by the Board of Studies in Politics at its meeting held on 4th June, 2018 have been accepted by the Academic Council at its meeting held on 14th June, 2018 vide item No. 4.2 and that in accordance therewith, the revised syllabus as per the (CBCS) for the T.Y.B.A. in Politics - Sem V & VI has been brought into force with effect from the academic year 2018-19, accordingly. (The same is available on the University's website www.mum.ac.in).

MUMBAI-400 032

4th July 2018

To

(Signature)
(Dr. Dinesh Kamble)
I/c REGISTRAR

The Principals of the affiliated Colleges and Directors of the recognized Institutions in Humanities Faculty. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)

A.C./4.2/14/06/2018

No. UG/53-A of 2018

MUMBAI-400 032

4th July, 2018

Copy forwarded with Compliments for information to:-

- 1) The De Dean, Faculty of Humanities,
- 2) The Chairman, Board of Studies in Politics,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Professor-cum-Director, Institute of Distance and Open Learning (IDOL),
- 6) The Co-Ordinator, University Computerization Centre,

(Signature)
(Dr. Dinesh Kamble)
I/c REGISTRAR



Paper IV: International Relations
Semester V: World Politics

No. of Lectures

Module 1: Concepts and approaches 12

- 1.1 International Relations, International Politics – Definition, Scope and Relevance
- 1.2 Approaches: Realism and Liberalism
- 1.3 Concepts: Power, National Interest and Balance of Power

Module 2: World Order 09

- 2.1 Cold War: Bipolarity
- 2.2 Post-Cold War: Unipolarity, Multipolarity and Non-Polarity

Module 3: Conflict, Peace and Security 12

- 3.1 Types of Conflict and changing nature of Conflict
- 3.2 Approaches to Peace: Arms Control, Disarmament and Collective Security
- 3.3 Changing Idea of Security: National Security and Human Security

Module 4: International Political Economy 12

- 4.1 Bretton Woods Institutions: IMF, World Bank and WTO
- 4.2 Regional Economic Integration: European Union
- 4.3 Globalisation


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Arts and Commerce College, Kharepatan
Tal. Kankavali, Dist. Sindhudurg.

**Politics Paper V: Political Thought
Semester V: Western Political Thought**

Module 1: Modern State

- 1.1 Niccolo Machiavelli [1469-1527]
- 1.2 John Locke [1632-1704]

12

Module 2: Liberty and Justice

- 2.1 John Stuart Mill [1806-1878]
- 2.2 John Rawls [1921-2002]

11

Module 3: Revolution and Hegemony

- 3.1 Karl Marx [1818-1883]
- 3.2 Antonio Gramsci [1891-1937]

11

Module 4: Feminism and Multiculturalism

- 4.1 Simone de Beauvoir [1908-1986]
- 4.2 Will Kymlicka [1962-till date]

11

Semester VI- Indian Political Thought

Module 1: Ideas on State

- 1.1 Mahadev Govind Ranade (1842 - 1901)
- 1.2 Mohandas Karamchand Gandhi (1869 - 1948)

12

Module 2: Nationalism

- 2.1 Rabindranath Tagore - (1861 - 1941)
- 2.2 Vinayak Damodar Savarkar (1883 - 1966)

11

Module 3: Rational and Radical Reform

- 3.1 Gopal Ganesh Agarkar (1856 - 1895)
- 3.2 Bhimrao Ramji Ambedkar (1891 - 1956)

11

Module 4: Socialism

- 4.1 Jawaharlal Nehru (1889 - 1964)
- 4.2 Rammanohar Lohia (1910 - 1967)

11



6A

Politics Paper VI A: Political Process in Modern Maharashtra

Semester V: Politics of Modern Maharashtra

Theory – 80 marks + Project – 20 marks = Total 100 marks

No. of Lectures
(Total 45)

Module 1: Historical Background

11

- 1.1 Evolution of the idea of Maharashtra
- 1.2 Nationalist Movement and Social Reform Movement
- 1.3 Sanyukta Maharashtra Movement

Module 2: Sub-regionalism, Regional Disparity and Development

12

- 2.1 Konkan, Marathwada & Vidarbha
- 2.2 Dandekar Committee Report
- 2.3 Statutory Development Boards

Module 3: Political Institutions in Maharashtra

12

- 3.1 State Legislature: Composition and Functions
- 3.2 Chief Minister and Council of Ministers: Role
- 3.3 High Court and Subordinate Courts

Module 4: Caste and Politics in Maharashtra

10

- 4.1 Dominant Caste Politics
- 4.2 Dalit Politics
- 4.3 OBC Politics

One theory question paper of 80 marks at the end of the semester, consisting 4 compulsory questions of 20 marks each with internal options for each question – i.e. Q. 1a or Q. 1b.

Project reports (20 marks) - will be collected and assessed at college level by respective subject teachers, on or before a fixed date, well before the beginning of semester end theory exam. The date will be decided by the Subject teachers in respective colleges. Topics for projects should be based on the semester syllabus.

List of topics for projects

(This is not a comprehensive list and teachers are free to design projects based on the syllabus)

1. Reviews of books related to politics of Maharashtra.
2. Interviews of politicians and administrators.
3. Reviews of biographies and autobiographies of influential leaders.
4. Review of social welfare schemes
5. Study of sub regions – Konkan, Marathwada, Vidarbha, Western Maharashtra
6. Legislative process

Politics Paper VIA : Political Process in Modern Maharashtra

Semester VI: Determinants of Politics of Maharashtra

Theory – 80 marks + Project – 20 marks = Total 100 marks

No. of Lectures
(Total 45)

Module 1 : Political Economy of Maharashtra	12
1.1 Business and Politics	
1.2 Politics of Cooperatives	
1.3 Land issues: Urban and Rural	
Module 2 : Political Parties	12
2.1 Indian National Congress (I), Nationalist Congress Party and Bharatiya Janata Party	
2.2 Republican Party of India, Peasants and Workers Party, Shiv Sena and Maharashtra NavNirman Sena	
2.2 Coalition Politics	
Module 3 : Contemporary issues and movements	10
3.1 Tribal issues	
3.2 Farmers movements and agitations	
Module 4 : Civil society initiatives and alternative models of development	11
4.1 Civil society - Concept and nature	
4.2 Movements for the right to information in Maharashtra	
4.3 Initiatives for protection of environment	

One theory question paper of 80 marks at the end of the semester, consisting 4 compulsory questions of 20 marks each with internal options for each question – i.e. Q. 1a or Q. 1b.

Project reports – (20 marks) – will be collected and assessed at college level by respective subject teachers, on or before a fixed date, well before the beginning of semester end theory exam. The date will be decided by the Subject teachers in respective colleges. Topics for projects should be based on the semester syllabus.

List of topics for projects

(This is not a comprehensive list and teachers are free to design projects based on the syllabus)

1. Studying electoral performances on the basis of statistical data available on the website of Election Commission of India.
2. Campaigning to register voters from your area.
3. Projects related to the activities of non-governmental organisations.
4. Projects about the right to information – which may include conducting workshops for people to make them aware about their rights.

University of Mumbai
Board of Studies in Botany
FYBSc Syllabus Credit System 2014-2015 onwards

AC 7/4/2014
Item No. 4.23

Semester I USB0101		L	Cr
Paper I -- Plant Diversity 1		45	2
UNIT I		15	
ALGAE			
1	Structure, life cycle and systematic position of <i>Nostoc</i> and <i>Spirogyra</i> .		
2	Economic importance of Algae.		
UNIT II		15	
FUNGI			
1	Structure, life cycle and systematic position of <i>Rhizopus</i> and <i>Aspergillus</i>		
2	Economic importance of Fungi.		
3	Modes of nutrition in Fungi (Saprophytism and Parasitism).		
UNIT III		15	
BRYOPHYTA			
1	General characters of Hepaticae		
2	Structure, life cycle and systematic position of <i>Riccia</i> .		




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University of Mumbai
Board of Studies in Botany
FYBSc Syllabus Credit System 2014-2015 onwards

AC 7/4/2014
Item No. 4.23

		L	Cr
Semester I USB0102		45	2
Paper II – Form and Function I		15	
UNIT I			
CELL BIOLOGY			
1	General structure of plant cell: cell wall Plasma membrane (bilayer lipid structure, fluid mosaic model)		
2	Ultra structure and functions of the following cell organelles: Endoplasmic reticulum and Chloroplast	15	
UNIT II			
ECOLOGY			
1	Energy pyramids, energy flow in an ecosystem.		
2	Types of ecosystems: aquatic and terrestrial.	15	
UNIT III			
GENETICS			
1	Phenotype/Genotype, Mendelian Genetics- monohybrid, dihybrid; test cross; back cross ratios.		
2	Epistatic and non epistatic interactions; multiple alleles.		




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Arts, Commerce & Science College, Kharepatan,
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University of Mumbai
Board of Studies in Botany
FYBSc Syllabus Credit System 2014-2015 onwards

AC 7/4/2014
Item No. 4.23

	Semester I USBOP I	L	Cr
	PRACTICAL Paper I – Plant Diversity 1	30	1
1	Study of stages in the life cycle of <i>Nostoc</i> from fresh/ preserved material and permanent slides.		
2	Study of stages in the life cycle of <i>Spirogyra</i> from fresh/ preserved material and permanent slides.		
3	Economic importance of algae: <i>Ulva</i> (Biofuel), <i>Spirulina</i> (Neutraceutical), <i>Gelidium</i> (Agar)		
4	Study of stages in the life cycle of <i>Rhizopus</i> from fresh/ preserved material and permanent slides.		
5	Study of stages in the life cycle of <i>Aspergillus</i> from fresh/ preserved material and permanent slides.		
6	Economic importance of Fungi: Mushroom , Yeast, wood rotting fungi (any bracket fungus).		
7	Study of stages in the life cycle of <i>Riccia</i> from fresh/ preserved material.		
8	Study of stages in the life cycle of <i>Riccia</i> with the help of permanent slides.		
	PRACTICAL PAPER II- FORM AND FUNCTION 1	30	1
1	Examining various stages of mitosis in root tip cells (<i>Allium</i>)		
2	Cell inclusions: Starch grains (Potato and Rice); Aleurone Layer (Maize)		
3	Cystolith (<i>Ficus</i>); Raphides (<i>Pistia</i>); Sphaeraphides (<i>Opuntia</i>).		
4	Identification of cell organelles with the help of photomicrograph: Plastids: Chloroplast, Amyloplast, Endoplasmic Reticulum and Nucleus		
4	Identification of plants adapted to different environmental conditions: Hydrophytes: Floating: Free floating (<i>Pistia/Eichornia</i>); Rooted floating (<i>Nymphaea</i>); Submerged (<i>Hydrilla</i>)		
5	Mesophytes (any common plant); Hygrophytes (<i>Typha/Cyperus</i>)		




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AC 7/4/2014
Item No. 4.23

	Semester II USBOP2	Cr
	PRACTICAL Paper I – Plant Diversity 1	1
1	Study of stages in the life cycle of <i>Nephrolepis</i> : Mounting of ramentum, hydathode, T.S. of rachis.	
2	T.S. of pinna of <i>Nephrolepis</i> passing through sorus.	
3	Stelar evolution with the help of permanent slides: Protostele: haplostele, actinostele, plectostele, mixed protostele, siphonostele: ectophloic, amphiphloic, dictyostele, eustele and atactostele.	
4	<i>Cycas</i> : T.S of leaflet (<i>Cycas</i> pinna)	
5	Megasporophyll, microsporophyll, coralloid root, microspore, L.S. of ovule of <i>Cycas</i> – all specimens to be shown.	
6	Economic importance of Gymnosperms: <i>Pinus</i> (turpentine, wood, seeds)	
7	Leaf morphology : as per theory	
8	Types of inflorescence: as per theory	
9	Malvaceae	
10	Amaryllidaceae	
	PRACTICAL Paper II – Form and Function 1	1
1	Primary structure of dicot and monocot root.	
2	Primary structure of dicot and monocot stem.	
3	Study of dicot and monocot stomata.	
4	Epidermal outgrowths: with the help of mountings Unicellular: <i>Gossypium</i> /Radish Multicellular: <i>Lantana</i> /Sunflower Glandular: <i>Drosera</i> and Stinging: <i>Urtica</i> – only identification with the help of permanent slides. Peltate: <i>Thespesia</i> Stellate: <i>Erythrina</i> / <i>Sida acuta</i> / <i>Solanum</i> / <i>Helecteris</i>	




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Arts, Commerce & Science College, Kharepatan,
A.p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg

UNIVERSITY OF MUMBAI

No. UG/193 of 2017-18

CIRCULAR:-

A reference is invited to the syllabi relating to the Bachelor of Science (B.Sc.) Programme vide this office Circular No.UG/372 of 2009, dated 25th September, 2009 and the Principals of the affiliated Colleges in Science and the Heads of the recognized Science Institutions concerned are hereby informed that the proposal received from Chairperson, Board of Studies in Botany has been accepted by the Academic Council at its meeting held on 11th May, 2017 vide item No.4.213 and that in accordance therewith, the revised syllabus as per the (CBCS) of S.Y.B.Sc. Botany - Paper - I (Sem -III), which is available on the University's website (www.mu.ac.in) and that the same has been brought into force with effect from the academic year 2017-18, accordingly.

MUMBAI - 400 032

9th August, 2017

To


(Dr.M.A.Khan)
REGISTRAR

The Principals of the affiliated Colleges in Science and the Heads of the recognized Science Institutions concerned.

A.C/4.213/11/05/2017

No. UG/ 193 -A of 2017

MUMBAI-400 032

9th August, 2017

Copy forwarded with Compliments for information to:-

- 1) The Co-ordinator, Faculty of Science,
- 2) The Chairman, Board of Studies in Botany,
- 3) The Offg. Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Co-Ordinator, University Computerization Centre,
- 6) The Professor-cum-Director, Institute of Distance and Open Learning (IDOL),




(Dr.M.A.Khan)
REGISTRAR

....PTO


PRINCIPAL

Arts Commerce & Science College, Kharepatan,
Tal. Kharepatan, Tal. Kankavli, Dist. Sindhudurg

Syllabus for the **S.Y.B.Sc.** Program: B.Sc. Course: **BOTANY**

SEMESTER III **THEORY**

Course Code	Title	Credits
USBO301	PLANT DIVERSITY	2 Credits (45 lectures)
Unit I : Thallophyta (Algae) & Bryophyta <ul style="list-style-type: none"> General Characters of Division Phaeophyta: Distribution, Cell structure, range of thallus, Economic Importance. Structure, life cycle and systematic position of <i>Sargassum</i> General Account of Class Anthocerotae and Musci Structure, life cycle and systematic position of <ul style="list-style-type: none"> <i>Anthoceros</i> <i>Funaria</i> 		15 Lectures
Unit II: Angiosperms Systematics: Objectives and Goals of Plant systematic <ul style="list-style-type: none"> Plant Nomenclature Taxonomy in relation to <ul style="list-style-type: none"> Anatomy Palynology Chemical constituents Embryology Cytology Ecology With the help of Bentham and Hooker's system of Classification for flowering plants study the vegetative, floral characters and economic importance of the following families: <ul style="list-style-type: none"> Leguminosae Asterace Amaranthaceae Palmae 		15 Lectures
Unit III :Modern Techniques to Study Plant Diversity Preservation methods :Dry and Wet method <ul style="list-style-type: none"> Microscopy – Principle and working of Light, and electron microscope. Chromatography- Principles and techniques in paper and thin layer chromatography. Principles and techniques of Horizontal and Vertical electrophoresis. 		15 Lectures



[Signature]
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Arts, Commerce & Science College, Kharepatan,
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Syllabus for the S.Y.B.Sc. Program: B.Sc. Course: BOTANY

SEMESTER IV THEORY

Course Code	Title	Credits
USBO401	PLANT DIVERSITY	2 Credits (45 lectures)
Unit I : Thallophyta: Fungi, Plant Pathology and Lichens Fungi <ul style="list-style-type: none"> General characters of Ascomycetae Structure, life cycle and systematic position of <i>Erysiphe</i> and <i>Xylaria</i> Plant Pathology- Symptoms, causative organism, disease cycle and control measures of o Powdery mildew and Late blight of potato Lichens- Classification, Structure, Method of Reproduction, Economic Importance and Ecological Significance of Lichens. 		15 Lectures
Unit II: Pteridophyta and Paleobotany Pteridophyta- <ul style="list-style-type: none"> Salient features and classification upto orders (with examples of each) of Psilophyta and Lepidophyta (G M Smith's system of classification to be followed) Structure, life cycle and systematic position of <i>Selaginella</i> Paleobotany- The geological time scale; Formation and types of fossils; Structure and systematic position of form genus <i>Rhynia</i> 		15 Lectures
Unit III : Gymnosperms <ul style="list-style-type: none"> Salient features, classification up to orders (with examples of each) and economic importance of Coniferophyta (Chamberlain's system of classification to be followed) Structure life cycle and systematic position of <i>Pinus</i> Structure and systematic position of the form genus <i>Cordaites</i> 		15 Lectures



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Arts Commerce & Science College, Kharepatan,
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UNIVERSITY OF MUMBAI

No. UG/110 of 2017-18

CIRCULAR:-

The Principals of the affiliated Colleges in Science and the Directors of recognized Science Institutions concerned are hereby informed that in continuation syllabi relating to Bachelor of Science degree Course (S.Y.B.Sc) passed by the Academic Council at its meeting held on 26/2/2015, vide item No. 4.33 and proposal received from Chairperson, Board of Studies in Botany has been accepted by the Academic Council at its meeting held on 11th May, 2017 vide item no. 4.214 and that in accordance therewith, the revised syllabus as per the (CBCS) for S.Y.B.Sc. Paper – II (Sem - III) Programme in the Course of Botany, which is available on the University's website (www.mu.ac.in) and that the same has been brought into force with effect from the academic year 2017-18.

MUMBAI – 400 032

27th July, 2017

REGISTRAR

To,

The Principals of the affiliated Colleges in Science and the Directors of Recognized Institutions concerned.

A.C/4.214/11.05.2017

No. UG/110 -A of 2017

MUMBAI-400 032

27th July, 2017

Copy forwarded with compliments for information to :-

- 1) The Co-ordinator, Faculty of Science,
- 2) The Offg. Director, Board of Examinations and Evaluation,
- 3) The Chairperson, Board of Studies in Botany,
- 4) The Director of Board of Studies Development,
- 5) The Professor-cum-Director, Institute of Distance and Open Learning.
- 6) The Co-Ordinator, University Computerization Centre.



Circular 2014-15/Science/1

PRINCIPAL

Arts Commerce & Science College, Kharepatan,
Apurva Kharepatan, Tal. Kankavli, Dist. Sindhudurg.

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Syllabus for the S.Y.B.Sc. Program: B.Sc.Course : BOTANY

Course Code	SEM III- Title	Credits
USBO302	FORM AND FUNCTION II	2 Credits (45 lectures)
Unit II : Cell Biology		
<ul style="list-style-type: none"> Ultra Structure and functions of the following cell organelles: <ul style="list-style-type: none"> Mitochondrion(membranes, cristae, F1 particles and matrix) Peroxisomes and Glyoxysomes Ribosomes (prokaryotic, eukaryotic and subunits) Cell Division and its significance <ul style="list-style-type: none"> Cell Cycle, structure of Interphase Nucleus(nuclear envelop, chromatin network, nucleolus and nucleoplasm) Mitosis & Meiosis Differences between Mitosis and Meiosis Nucleic Acids: Types, structure and functions of DNA and RNA 		15 Lectures
Unit III : Cytogenetics		
<ul style="list-style-type: none"> Variation in Chromosome structure (Chromosomal Aberrations) Definition, Origin, Cytological and Genetic Effects of the following: Deletions, Duplications, Inversions and Translocations. Sex determination, Sex linked, sex influenced and sex limited traits : Sex determination- Chromosomal Methods: heterogametic males and heterogametic females. Sex determination in monoecious and dioecious plants. Genic Balance Theory of sex determination in <i>Drosophila</i>, Lyon's Hypothesis of X chromosome inactivation. Sex linked- eye colour in <i>Drosophila</i>, Haemophilia, colour blindness Sex influenced- baldness in man Extranuclear Genetics Organelle heredity- <ul style="list-style-type: none"> Chloroplast determines heredity - Plastid transmission in plants, Streptomycin resistance in <i>Chlamydomonas</i>. Male sterility in maize 		15 Lectures
Unit III : Molecular Biology		
<ul style="list-style-type: none"> DNA replication : Modes of Replication, Messelson and Stahl Experiment, DNA replication in prokaryotes and eukaryotes- enzymes involved and molecular mechanism of replication. Protein Synthesis: <ul style="list-style-type: none"> Central dogma of Protein synthesis Transcription in prokaryotes and eukaryotes: promoter sites, initiation, elongation and termination. RNA processing: Adenylation & Capping. 		15 Lectures




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Syllabus for the S.Y.B.Sc. Program: B.Sc.Course : BOTANY
SEM IV

USBO402	FORM AND FUNCTION II	2 Credits (45 lectures)
Unit I : Anatomy	<ul style="list-style-type: none"> • Normal Secondary Growth in Dicotyledonous stem and root. • Growth rings, periderm, lenticels, tyloses, heart wood and sap wood. • Mechanical Tissue system <ul style="list-style-type: none"> ◦ Tissues providing mechanical strength and support and their disposition ◦ I-girders in aerial and underground organs • Types of Vascular Bundles. 	15 Lectures
Unit II : Plant Physiology and Plant Biochemistry	<ul style="list-style-type: none"> • Respiration: Aerobic: Glycolysis, TCA Cycle, ETS & Energetic of respiration; Anaerobic respiration. • Photorespiration • Photoperiodism: Phytochrome Response and Vernalization with reference to flowering in higher plants, Physico-chemical properties of phytochrome, Pr-Pfr interconversion, role of phytochrome in flowering of SDPs and LDPs; • Vernalization mechanisms and applications. 	15 Lectures
Unit III : Ecology and Environmental Botany	<ul style="list-style-type: none"> • Biogeochemical Cycles- Carbon, Nitrogen and Water. • Ecological factors: Concept of environmental factors. Soil as an edaphic factor, Soil composition, types of soil, soil formation, soil profile. • Community ecology- Characters of community - Quantitative characters and qualitative characters 	15 Lectures



J. M. S.
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Syllabus for the S.Y.B.Sc. Program: B.Sc.Course : BOTANY

Semester III USBOP3

PRACTICAL Paper II – FORM AND FUNCTION- II

Cr
1

Cell Biology

- 1 Study of the ultra-structure of cell organelles prescribed for theory from Photomicrographs
- 2 Estimation of DNA from plant material (one Std & one Unknown, No Std Graph)
- 3 Estimation of RNA from plant material (one Std & one Unknown, No Std Graph)

Cytogenetics

- 4 Study of inheritance pattern with reference to Plastid Inheritance
- 5 Study of cytological consequences of chromosomal aberrations (Laggards, Chromosomal Bridge, Ring chromosome, Chromosomal ring) from permanent slides or photomicrographs.
- 6 Study of mitosis and meiosis from suitable plant material

Molecular Biology

- 7 DNA sequencing- Sanger's method
- 8 Determining the sequence of amino acids in the protein molecule synthesised from the given m-RNA strand (prokaryotic and eukaryotic)




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Syllabus for the S.Y.B.Sc. Program: B.Sc.Course : BOTANY

SEMESTER IV USBOT P4

PRACTICALS Paper II – FORM AND FUNCTION- II

Cr
1

Anatomy

- 1 Study of normal secondary growth in the stem and root of a Dicotyledonous plant
- 2 Types of mechanical tissues, mechanical tissue system in aerial, underground organs.
- 3 Study of conducting tissues- Xylem and phloem elements in Gymnosperms and Angiosperms as seen in LS and through maceration technique.
- 4 Study of different types of vascular bundles.
- 5 Growth rings, periderm, lenticels, tyloses, heart wood and sap wood

Plant Physiology and Plant Biochemistry

- 6 Q_{10} - germinating seeds using Phenol red indicator
- 7 NR activity – *in-vivo*
- 8 Estimation of proteins by Lowry's method (Prepare standard graph).

Ecology and Environmental Botany

- 9 Study of the working of the following Ecological Instruments- Soil thermometer, Soil testing kit, Soil pH, Wind anemometer.
- 10 Mechanical analysis of soil by the sieve method & pH of soil.
- 11 Quantitative estimation of organic matter of the soil by Walkley and Blacks Rapid titration method.
- 12 Study of vegetation by the list quadrat method




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UNIVERSITY OF MUMBAI

No. UG/110f 2017-18

CIRCULAR:-

The Principals of the affiliated Colleges in Science and the Directors of recognized Science Institutions concerned are hereby informed that in continuation syllabi relating to Bachelor of Science degree Course (S.Y.B.Sc) passed by the Academic Council at its meeting held on 26/2/2015, vide item No. 4.33 and proposal received from Chairperson, Board of Studies in Botany has been accepted by the Academic Council at its meeting held on 11th May, 2017 vide item no. 4.215 and that in accordance therewith, the revised syllabus as per the (CBCS) for S.Y.B.Sc Paper – III (Sem - III) Programme in the Course of Botany, which is available on the University's website (www.mu.ac.in) and that the same has been brought into force with effect from the academic year 2017-18.

MUMBAI – 400 032

२३rd July, 2017


REGISTRAR

To,

The Principals of the affiliated Colleges in Science and the Directors of Recognized Institutions concerned.

A.C/4.215/11.05.2017

No. UG/ 11 -A of 2017

MUMBAI-400 032

२३rd July, 2017

Copy forwarded with compliments for information to :-

- 1) The Co-ordinator, Faculty of Science,
- 2) The Offg. Director, Board of Examinations and Evaluation,
- 3) The Chairperson, Board of Studies in Botany,
- 4) The Director of Board of Studies Development,
- 5) The Professor-cum-Director, Institute of Distance and Open Learning.
- 6) The Co-Ordinator, University Computerization Centre.



Circular 2014-15/Science/4


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PROPOSED SYBSC SYLLABUS FOR ACADEMIC YEAR 2017-18

Course Code	Title	Credits
USBO303	CURRENT TRENDS IN PLANT SCIENCES I	2 Credits (45 lectures)
Unit1: Pharmacognosy and phytochemistry <ul style="list-style-type: none"> • Introduction to pharmacopoeia • Indian pharmacopoeia, Indian Herbal Pharmacopoeia and Ayurvedic Pharmacopoeia • Study of Monograph from pharmacopoeia • Secondary Metabolites: Sources, properties, uses and adulterants, regional and seasonal variations • Adulterants: <i>Saraca asoca</i>, <i>Polyalthia longifolia</i>, <i>Terminalia arjuna</i>, <i>Terminalia tomentosa</i>, <i>Bacopa monnieri</i>, <i>Centella asiatica</i>, <i>Abrus</i>, <i>Glycyrrhiza</i>, <i>Phyllanthus amarus</i> (Bhuiamla) 		15 Lectures
Unit 2: Forestry and Economic Botany <ul style="list-style-type: none"> • Forestry: Outline of types of forest in India • Forestry: Agro-forestry, Urban forestry, organic farming, Silviculture • Economic Botany: <ul style="list-style-type: none"> • Types of fibers: Jute and cotton, • Current trends in Fiber industries • Spices and condiments: Saffron and cardamom • Commercial market of spices 		15 Lectures
Unit 3: Industry based on plant products <ul style="list-style-type: none"> • Aromatherapy- Introduction, Uses with few examples. Jojoba, lemon, jasmin • Botanical and nutraceuticals -<i>Spirulina</i>, <i>Vanillin</i>, <i>Garcinia indica</i>/<i>Garcinia cambogia</i>, <i>Chlorella</i>, and <i>Kale</i>. • Enzymes industry: Cellulases, Papain, Bromelain • Biofuels. 		15 Lectures




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Course Code	Title	Credits
USBO403	CURRENT TRENDS IN PLANT SCIENCES I	2 Credits (45 lectures)
Unit I : Horticulture and Gardening Introduction to Horticulture: Branches of Horticulture Gardening: <ul style="list-style-type: none"> Locations in the garden- edges, hedges, lawn, flower beds, avenue, water garden (with names of two plants for each category). Focal point. Types of garden <ul style="list-style-type: none"> Formal and informal gardens National Park: Sanjay Gandhi National Park. Botanical Garden: Veer Mata Jijabai Udyan (Victoria Garden). 		15 Lectures
Unit II : Biotechnology <ul style="list-style-type: none"> Introduction to plant tissue culture <ul style="list-style-type: none"> Laboratory organization and techniques in plant tissue culture Totipotency Organogenesis Organ culture – root cultures, meristem cultures, anther and pollen culture, embryo culture. R-DNA technology- <ul style="list-style-type: none"> Gene cloning Enzymes involved in Gene cloning Vectors used for Gene cloning. 		15 Lectures
Unit III : Biostatistics and Bioinformatics <ul style="list-style-type: none"> Biostatistics: <ul style="list-style-type: none"> The chi square test, Correlation – Calculation of coefficient of correlation. Bioinformatics o Information technology: History and tools of IT, Internet and its uses. 		15 Lectures



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<ul style="list-style-type: none"> o Introduction to Bioinformatics- goal, need, scope and limitation o Aims of Bioinformatics: Data organization, Tools of Bioinformatics- tools for web search, Data retrieval tools- Entrez, o BLAST o Bioinformatics programme in India. 	
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Semester III USBOP3		Cr 1
PRACTICAL - Paper III CURRENT TRENDS IN PLANT SCIENCES I		
Horticulture		
1	Study of five examples of plants for each of the garden locations as prescribed for theory	
2	Preparation of garden plans – formal and informal gardens	
3	Bottle and dish garden preparation.	
Biotechnology		
4	Various sterilization techniques	
5	Preparation of Stock solutions, Preparation of MS medium.	
6	Seed sterilization, callus induction	
7	Regeneration of plantlet from callus.	
8	Identification of the cloning vectors – pBR322, pUC 18, Ti plasmid.	
Biostatistics and Bioinformatics		
9	Chi square test	
10	Calculation of coefficient of correlation	
11	Web Search – Google, Entrez.	
12	BLAST	



[Signature]
PRINCIPAL

Arts Commerce & Science College, Kharepatan,
Tal. Kankavli, Dist. Sindhudurg.

University of Mumbai



No. UG/ 36 of 2019-20

CIRCULAR:-

Attention of the Principals of the Affiliated Colleges and Directors of the recognized Institutions in Science & Technology Faculty is invited to this office Circular No. UG/95 of 2015-16, dated 5th October, 2015 relating to the revised syllabus as per (CBSEGS) for the T.Y.B.Sc. Botany (Sem. V & VI).

They are hereby informed that the recommendations made by the Board of Studies in Botany at its meeting held on 18th March, 2019 have been accepted by the Academic Council at its meeting held on 10th May, 2019 vide item No. 4.26 and that in accordance therewith, the revised syllabus as per the (CBSEGS) for the T. Y .B.Sc. Botany in (Sem. V & VI) has been brought into force with effect from the academic year 2019-20, accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI - 400 032

03rd July, 2019.

To


(Dr. Ajay Deshmukh)
REGISTRAR

The Principals of the affiliated Colleges and Directors of the recognized Institutions in Science & Technology Faculty. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)

A.C./4.26/10/05/2019

No. UG/ 36 -A of 2019

MUMBAI-400 032

3rd July, 2019.

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculty of Science & Technology,
- 2) The Chairman, Board of Studies in Botany,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Professor-cum-Director, Institute of Distance and Open Learning (IDOL),
- 5) The Director, Board of Students Development,
- 6) The Co-ordinator, University Computerization Centre,s




(Dr. Ajay Deshmukh)
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Arts Commerce & Science College Kharepatan,
A/p. Kharepatan, Tal. Kankavli, Dist. Sindhudurg

University of Mumbai



UNIVERSITY OF MUMBAI

**Syllabus for the T.Y.B.Sc.
Program: B.Sc. Course: BOTANY**

(Credit Based Semester and Grading System with effect from
the academic year 2019–2020)




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**SEMESTER I
THEORY**

Course Code	Title	Credits
USBO501	PLANT DIVERSITY - III	2.5 Credits (60 Lectures)
Course outcomes: <p>The students would be able :</p> <ul style="list-style-type: none"> To gain knowledge about microbial diversity and techniques for culturing and visualization. To understand the salient features of three major groups of algae, their life cycle patterns with a suitable example; to be able to identify them. To learn the general characteristics and classification of two major groups of fungi along with life cycles of each group; to be able to identify them. To understand the scope and importance of Plant Pathology and apply the concepts of various control measures of commonly widespread plant diseases. 		
Unit I: Microbiology <ul style="list-style-type: none"> Types of Microbes: Viruses, Bacteria, Algae, Fungi, Protozoa, Mycoplasma and Actinomycetes. Culturing: Sterilization, media, staining, colony characters. Pure cultures 		(15 lectures)
Unit -II: Algae (G.M. Smith Classification System to be followed) <ul style="list-style-type: none"> Division Rhodophyta: Classification and General Characters: Distribution, Cell structure, pigments, reserve food, range of thallus, reproduction: asexual and sexual, Alternation of Generations, Economic Importance. Structure, life cycle and systematic position of <i>Polysiphonia</i>, <i>Batrachospermum</i>. Classification and General Characters of Xanthophyta: Distribution, Cell structure, pigments, reserve food, range of thallus, Reproduction: asexual and sexual, Alternation of Generations, Economic Importance. Structure, life cycle and systematic position of <i>Vaucheria</i>. Classification and General Characters of Bacillariophyta: Distribution, Cell structure, pigments, reserve food, range of thallus, Reproduction: asexual and sexual, Alternation of Generations, Economic Importance. Structure, life cycle and systematic position of <i>Pinnularia</i>. 		(15 lectures)
Unit III: Fungi (G.M. Smith Classification System to be followed) <ul style="list-style-type: none"> Basidiomycetes: Classification and General characters <ul style="list-style-type: none"> Life cycle of <i>Agaricus</i> Life cycle of <i>Puccinia</i> Deuteromycetae: Classification and General Characters Life cycle of <i>Alternaria</i> 		(15 lectures)



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Course Code	Title	Credits
USBO502	PLANT DIVERSITY – IV	2.5 Credits (60 lectures)
Course outcomes: The students would be able : <ul style="list-style-type: none"> • To acquire knowledge of different fossil forms and understand their role in evolution. • To provide plant description, describe the morphological and reproductive structures of seven families and also identify and classify according to Bentham and Hooker's system. • To gain proficiency in the use of keys and identification manuals for identifying any unknown plants to species level. • To relate anomalies in internal stem structure with function and appreciate the salient features of the root stem transition zone. • To get exposure to pollen study and learn to apply it in various fields. 		
Unit I: Paleobotany <ul style="list-style-type: none"> • <i>Lepidodendron</i>– All form genera root, stem, bark, leaf, male and female fructification. • <i>Lyginopteris</i>– All form genera root, stem, leaf, male and female fructification. • <i>Pentoxylon</i>– All form genera. • Contribution of Birbal Sahni, Birbal Sahni Institute of Paleobotany, Lucknow 		(15 lectures)
Unit II: Angiosperms I <ul style="list-style-type: none"> • Morphology of flower – All Parts of Flower. • Complete classification of Bentham and Hooker (only for prescribed families), Merits and demerits • Bentham and Hooker's system of classification for flowering plants up to family with respect to the following prescribed families and economic and medicinal importance for members of the families. (Special stress on fruit morphology to be given) <ul style="list-style-type: none"> ➤ Capparidaceae ➤ Umbelliferae ➤ Cucurbitaceae ➤ Rubiaceae ➤ Solanaceae ➤ Commelinaceae ➤ Graminae 		(15 lectures)
Unit III: Anatomy I <ul style="list-style-type: none"> • Anomalous secondary growth in the Stems of <i>Bignonia</i>, <i>Salvadora</i>, <i>Achyranthes</i>, <i>Dracaena</i>. Storage roots of Beet, Radish • Root stem transition • Types of Stomata– Anomocytic, Anisocytic, Diacytic, Paracytic, and Graminaceous 		(15 lectures)



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Course Code	Title	Credits
USBO503	FORM AND FUNCTIONS- II	2.5 Credits (60 Lectures)

Course outcomes:

- The students would be able :
- To acquire knowledge about two important organelles and molecular mechanisms of translation
 - To understand water relations of plants, inorganic and organic solute transport, and apply the knowledge to manage mineral nutrition and survival in challenging abiotic stresses.
 - To understand succession in plant communities and study remediation technologies in order to apply knowledge acquired for cleanup of polluted sites.
 - To get exposure to principles and techniques of plant tissue culture and apply these studies for improving agriculture and horticulture and to become an entrepreneur.

Unit I: Cytology and Molecular Biology

- Structure and function of nucleus
- Structure and function of vacuole
- Structure and function of giant chromosomes
- The genetic code: Characteristics of the genetic code
- Translation in Prokaryotes and Eukaryotes.

(15 lectures)

Unit II: Plant Physiology I

- **Water relations:** Potential, osmosis, transpiration, imbibition,
- **Solute transport:** Transport of ions across cell membranes, active and passive transport, carriers, channels and pumps.
- **Translocation of solutes:** Composition of phloem sap, girdling experiment.
- **Pressure flow model (Munch's hypothesis):** Phloem loading and unloading, anatomy of sieve tube elements and mechanisms of sieve tube translocation.
- **Mineral Nutrition:** Role of Macro and Micro nutrients, physiological functions and deficiency symptoms.

(15 lectures)

Unit III: Environmental Botany

- **Bioremediation:** Principles, factors responsible and microbial population in bioremediation.
- **Phytoremediation:** Metals, Organic pollutants
- **Plant succession:** Hydrosere and Xerosere – Formation of Barren Space, Succession on the Land Citing Different Seres leading up to the Climax, Succession in Water, Ecesis, Poly and Mono-climax theories.

(15 lectures)

Unit IV: Plant Tissue Culture

- **Aspects of Micro-propagation with reference to Floriculture:** Detailed study of Orchid Cultivation
- **Plant cell suspension cultures for the production of secondary metabolites:** With special reference to Shikonin production.
- **Somatic Embryogenesis and Artificial Seeds.**
- **Protoplast Fusion and Somatic Hybridization:** i) Concept, Definition, and various methods of Protoplast Fusion ii) Applications of Somatic Hybridization in Agriculture

(15 lectures)



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Course Code	Title	Credits
USBO504	CURRENT TRENDS IN PLANT SCIENCES – II	2.5 Credits (60 Lectures)
Course outcomes: The students would be able : <ul style="list-style-type: none"> • To get exposure to the technique of mushroom cultivation and explore the possibility of entrepreneurship in the same. • To learn ethnobotanical principles, applications and utilize indigenous plant knowledge for the cure of common human diseases and improvement of agriculture. • To gain knowledge about the latest molecular biology techniques for isolation and characterization of genes. • To learn principles and application of commonly used techniques in instrumentation. • To gain proficiency in the monograph study and pharmacognostic analysis of six medicinal plants. 		
Unit I: Ethnobotany and Mushroom Industry <ul style="list-style-type: none"> • Ethnobotany- Definition, history, sources of data and methods of study. • Applications of ethnobotany: <ul style="list-style-type: none"> ➤ Ethno-medicines. ➤ Agriculture. ➤ Edible plants. • Traditional medicines used by tribals in Maharashtra towards <ul style="list-style-type: none"> ➤ Skin ailments: <i>Rubia cordifolia</i>, <i>Sandalwood</i> ➤ Liver ailments: <i>Phyllanthus</i>, <i>Andrographis</i> ➤ Wound healing and ageing: <i>Centella</i>, <i>Typha</i>, <i>Terminalia</i>, <i>Tridax</i>. ➤ Fever: <i>Vitex negundo</i>, <i>Tinospora cordifolia</i> leaves ➤ Diabetes: <i>Momordica charantia</i>, <i>Syzygium cumini</i> • Mushroom industry: <ul style="list-style-type: none"> ➤ Detail general account of production of mushrooms with respect to methods of Composting, spawning, casing, harvesting of mushroom. Cultivation of <i>Pleurotus</i>, <i>Agaricus</i>, <i>Volvariella</i> mushroom. ➤ General account of mushrooms: Nutritional value, picking and packaging, economic importance. 		(15 lectures)
Unit II: Plant Biotechnology I <ul style="list-style-type: none"> • Construction of genomic DNA libraries, Chromosome libraries and c- DNA libraries. • Identification of specific cloned sequences in c-DNA libraries and Genomic libraries • Analysis of genes and gene transcripts –Restriction enzyme, analysis of cloned DNA sequences. Hybridization(Southern Hybridization) 		(15 lectures)
Unit III: Instrumentation <ul style="list-style-type: none"> • Colorimetry and Spectrophotometry (Visible, UV and IR) – Instrumentation, working, principle and applications. • Chromatography: General account of Column chromatography. Principle and bedding material involved in adsorption and partition chromatography, ion exchange chromatography, molecular sieve chromatography. 		(15 lectures)

Principal

SEMESTER V PRACTICAL

Minimum marks for passing: 20

Semester V USBOP5 – For 6 Units	Cr
PRACTICAL PAPER I-PLANT DIVERSITY III – USBOP 501 (For 6 Units)	1.5
Microbiology <ul style="list-style-type: none"> Study of aeromicrobiota by petriplate exposed method: Fungal culture, Bacterial culture. Determination of Minimum Inhibitory Concentration (MIC) of sucrose against selected microorganism. Study of antimicrobial activity by the disc diffusion method. 	
Algae (G.M. Smith Classification System to be followed) <ul style="list-style-type: none"> Study of stages in the life cycle of the following Algae from fresh / preserved material and permanent slides. <ul style="list-style-type: none"> ➤ <i>Polysiphonia</i> ➤ <i>Batrachospermum</i> ➤ <i>Vaucheria</i> ➤ <i>Pinnularia</i> 	
Fungi (G.M. Smith Classification System to be followed) <ul style="list-style-type: none"> Study of stages in the life cycle of the following Fungi from fresh / preserved material and permanent slides <ul style="list-style-type: none"> ➤ <i>Agaricus</i> ➤ <i>Puccinia</i> ➤ <i>Alternaria</i> 	
Plant Pathology <ul style="list-style-type: none"> Study of the following fungal diseases: <ul style="list-style-type: none"> ➤ White rust in Cruciferae (Brassicaceae) ➤ Tikka disease in Groundnut ➤ Damping off disease ➤ Citrus canker ➤ Leaf curl in <i>Papaya Leaf</i> 	
Semester V USBOP7 – For 3 Units	
PRACTICAL PAPER II-PLANT DIVERSITY IV USBOP 502 (For 3 & 6 Units)	Cr
Paleobotany <ul style="list-style-type: none"> Study of the following form genera with the help of permanent slides/ photomicrographs. <ul style="list-style-type: none"> ➤ <i>Lepidodendron</i> ➤ <i>Lyginopteris</i> ➤ <i>Pentoxylon</i> 	1.5
Angiosperms I <ul style="list-style-type: none"> Morphology of Flower – All Parts of Flower Study of one plant from each of the following Angiosperm families as per Bentham and Hooker's system of classification. <ul style="list-style-type: none"> ➤ <i>Capparidaceae</i> ➤ <i>Umbelliferae</i> ➤ <i>Cucurbitaceae</i> 	



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Semester V USBOP6 – For 6Units Semester V USBOP7 – For 3Units	Cr
PRACTICAL – PAPER III FORM AND FUNCTION II USBOP 503 (For 3 & 6 Units)	1.5
Cytology and Molecular Biology <ul style="list-style-type: none"> Mounting of Giant chromosomes from <i>Chironomous</i> larva Smear preparation from <i>Tradescantia</i> buds Predicting the sequence of amino acids in the polypeptide chain that will be formed following translation(Eukaryotic) 	
Plant Physiology I <ul style="list-style-type: none"> Estimation of Phosphate phosphorus (Plant acid extract) Estimation of Iron (Plant acid extract) <p>Note: Preparation of a standard graph and determination of the multiplication factor for Phosphate / Iron estimation using a given standard phosphate / Standard Iron solution should be done in regular practical as this will also be put as a question in practical exam</p>	
Environmental Botany <ul style="list-style-type: none"> Estimation of the following in given water sample <ul style="list-style-type: none"> Dissolved oxygen demand Biological oxygen demand Hardness Salinity and Chlorinity 	
Micropropagation <ul style="list-style-type: none"> Plant Tissue culture: Identification – Multiple shoot culture, hairy root culture, somatic embryogenesis Preparation of stock solutions for preparation of MS medium <p>(Note: Concept of preparation of specified molar solutions should be taught and problems based on preparation of stock solutions for tissue culture media will be given).</p>	
Semester V USBOP6 – For 6 Units	
PRACTICAL – PAPER IV CURRENT TRENDS IN PLANT SCIENCES II USBOP 504 (For 6 Units)	Cr
Ethnobotany and mushroom industry <ul style="list-style-type: none"> Study of plants mentioned in theory for Ethnobotany Mushroom cultivation (To be demonstrated) Identification of various stages involved in mushroom cultivation – spawn, pin head stage, mature/ harvest stage of <i>Agaricus</i>, <i>Pleurotus</i>, <i>Volvarella</i> 	1.5
Biotechnology I <ul style="list-style-type: none"> Growth curve of <i>E. coli</i> Plasmid DNA isolation and Separation of DNA using AGE Restriction mapping (problems), Southern blotting 	
Instrumentation <ul style="list-style-type: none"> Demonstration of Beer Lambert's Law Experiment based on ion exchange chromatography for demonstration Experiment based on separation of dyes/ plant pigments using silica gel column. 	



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Syllabus for **sem V & VI**

Program: B.Sc.

Course: **Horticulture**

Applied Component

(Credit Based Semester and Grading System with
effect from the academic year 2013–2014)




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plants.	
• Application of Tissue Culture in relation to Horticulture.	
UNIT-3 MANURES, FERTILIZERS AND DISEASES	
<ul style="list-style-type: none"> • Manures: Definition, importance, important manures FYM(compost), oil cakes, green manure, organic manures and vermicompost. • Fertilizers: Definition, Types – Straight, Compound and mixed. Nitrogenous ($(\text{NH}_4)_2\text{SO}_4$, Urea, $\text{Ca}(\text{NO}_3)_2$, NH_4Cl, Phosphatic (Superphosphate, Bone meal), Potassic (Muriate of potash, K_2SO_4) • Biofertilizers: Bacteria, Cyanobacteria, Mycorrhiza, Sea weeds. • Diseases: Horticultural plant diseases and their control. Fungal diseases- Rust, Smut, Powdery mildew. Bacterial – Citrus canker, Bacterial wilt. Viral – TMV, Leaf curl. • Pests – common pests on horticultural crops – Aphids, beetle, stem borer, caterpillars and rats. • Friends of farmers: Eartworm, snakes and predaceous fungi. 	15 L
UNIT 4 GARDEN OPERATIONS FOR HORTICULTURE	
<ul style="list-style-type: none"> • Selection of site, Preparation of soils for garden • Mulching, top- dressing, blanching • Sowing, transplanting, tree transplanting, • Irrigation, - Overhead, Surface, Underground • Weeding and pruning, - Principles, Objectives and general technique. • Water management and conservation through horticulture, Dry land Horticulture. • Organic Farming Definition, Scope, Indian scenario, Future scope 	15 L

Practicals

Semester V USACHO5P1	Cr
PRACTICAL	2
Garden implements and their uses .	
Different types of pots & Potting medium , Potting and repotting	
Propagation practices by seed, Vegetative propagation , cutting ,layering , budding, grafting .	
Identification of :	



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Fertilizers – Identification by physical and chemical methods –Urea , Ammonium sulphate , Potassium sulphate, super phosphate .	
Manures – Identification of plants as green manure – <i>Glyricidia</i> , <i>Crotolaria</i> , <i>Leucaena</i> .	
Biofertilizers – Identification (material as slides) <i>VAM</i> , <i>Nostoc</i> , <i>Rhizobium</i> .	
Soil pH, Use of soil testing Kit, electrical conductivity, pH of water, liquid fertilizers .	
Method of preparing bonsai, Bottle Garden / Terrarium, Hanging baskets ,Dish garden .	
Diseases and pests Fungal – Powdery mildew ,Rust ,Wilt, Blight, Smut, Bacterial – Canker ,Wilt Viral – Leaf curl ,yellow vein Mosaic Insects – Sucking, Biting, Chewing, Borers & Ants . Non Insects pests- Nematodes, Rodents.	
Preparation of natural insecticides – Neem arka , Dashparni arka, Seetaphal powder, Tobacco extracts .	
Project – Each student should individually present a project related to any topic related to Horticulture .It should be duly certified presented at practical examination.Project presentation college at level compulsory.	

SEMESTER VI
THEORY

Course Code	Title	Credits
USACHO601	<u>HORTICULTURE AND GARDENING –II</u>	2 Credits (60 lectures)
<u>Unit 1 LANDSCAPE GARDENING</u> <ul style="list-style-type: none">Principles of landscaping & garden design.Indoor plants & Indoor gardens- Hydroponics, Terrarium/ Bottle garden,		15 L



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UNIVERSITY OF MUMBAI
No. UG/166 of 20 6-17

CIRCULAR:-

A reference is invited to the Syllabi relating to the B.Sc. degree course, vide this office Circular No. UG/128 of 2011, dated 13th June, 2011 and the Principals of affiliated Colleges in Science are hereby informed that the recommendation made by the Ad-hoc Board of Studies in Chemistry at its meeting held on 7th July, 2016 has been accepted by the Academic Council meeting held on 14th July, 2016 vide item No. 4.12 and that in accordance therewith, the revised syllabus as per the Choice Based Credit System for F.Y. B.Sc. programme in Chemistry (Sem. I & II), which are available on the University's web site (www.mu.ac.in) and that the same has been brought into force with effect from the academic year 2016-17.

MUMBAI - 400 032

19 November, 2016

To,

The Principals of the affiliated Colleges in Science.

A.C/4.12/14.07.2016

(Dr.M.A.Khan)
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No. UG/166 -A of 2016

MUMBAI-400 032

19 November, 2016

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- 1) The Co-ordinator, Faculties of Science,
- 2) The Chairman, Board of Studies in Chemistry,
- 3) The Professor-cum-Director, Institute of Distance & Open Learning (IDOL)
- 4) The Director, Board of College and University Development,
- 5) The Co-Ordinator, University Computerization Centre,
- 6) The Controller of Examinations.

(Dr.M.A.Khan)
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Choice Based Credit System F.Y.B.Sc. Chemistry Syllabus

To be implemented from the Academic year 2016-2017

SEMESTER I

Course Code	Unit	Topics	Credits	L / Week
USCH101		Chemical Thermodynamics	2	
	I	Chemical calculations		1
	II	Atomic structure, Periodic Table and periodicity		1
	III	Basics of Organic Chemistry: Classification and Nomenclature of Organic Compounds Bonding and Structure of organic compounds Fundamentals of organic reaction mechanism		1
USCH102	I	Chemical Kinetics Liquid state	2	1
	II	Comparative chemistry of Main Group Elements		1
	III	Stereochemistry I		1
USCHP1		Chemistry Practicals	2	6

SEMESTER II

Course Code	UNIT	Topics	Credits	L /Week
USCH201	I	Gaseous state Chemical Equilibrium and thermodynamic parameters	2	1
	II	Concept of Qualitative Analysis Acid Base Theories		1
	III	Chemistry of Aliphatic Hydrocarbons		1
USCH202	I	Ionic equilibria, Molecular Spectroscopy Solid State Chemistry	2	1
	II	Chemical bond and Reactivity Oxidation Reduction Chemistry		1
	III	Stereochemistry II: Cycloalkanes and Conformational Analysis Aromatic hydrocarbons		1
USCHP2	Chemistry Practicals		2	6




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Semester I

Paper I

Unit-I

1.1 Chemical Thermodynamics: (10L)

Thermodynamic terms: System, surrounding, boundaries, open, closed and isolated system, intensive and extensive properties, state functions and path functions, zeroth law of thermodynamics

First law of thermodynamics: concept of heat (q), work (w), internal energy (U), statement of first law, enthalpy, relation between heat capacities, sign conventions, calculations of heat (q), work (w), internal energy (U), and enthalpy (H) (Numericals expected)

Thermochemistry: Heats of reactions, standard states, enthalpy of formation of molecules, enthalpy of combustion and its applications, calculation of bond energy, bond dissociation energy and resonance energy from thermochemical data, Kirchhoff's equation (Numericals expected)

1.2 Chemical Calculations: (5L)

Expressing concentration of solutions: Normality, molality, molarity, formality, mole fractions, weight ratio, volume ratio, weight to volume ratio, ppm, ppb, millimoles, milliequivalents (Numericals expected)

Unit II

2.1 Atomic structure: (10L)

(Qualitative treatment only; it is expected that the learner knows the mathematical statements and understands their physical significance after completing this topic. No derivations of the mathematical equations required)

a) **Historical perspectives of the atomic structure:** Rutherford's Atomic Model, Bohr's theory, its limitations and atomic spectrum of hydrogen atom. Structure of hydrogen atom.

b) **Hydrogenic atoms:**

1. Simple principles of quantum mechanics;
2. Atomic orbitals

- i) **Hydrogenic energy levels**
- ii) Shells, subshells and orbitals
- iii) Electron spin
- iv) Radial shapes of orbitals
- v) Radial distribution function
- vi) Angular shapes of orbitals.

3. Many Electron Atoms

- i) Penetration and shielding
- ii) Effective nuclear charge

4. Aufbau principle

2.2: Periodic Table and periodicity : (5L)

Long form of Periodic Table; Classification for elements as main group, transition and inner transition elements; Periodicity in the following properties : Atomic and ionic size; electron gain enthalpy; ionization enthalpy, effective nuclear charge (Slater's rule); electronegativity : Pauling, Mulliken and Alred Rochow electronegativities (Numerical problems expected, wherever applicable.)

Unit III

3. Basics of Organic Chemistry

3.1 Classification and Nomenclature of Organic Compounds: (5L)

Review of basic rules of IUPAC nomenclature. Nomenclature of mono and bi-functional aliphatic compounds on the basis of priority order of the following classes of compounds: alkanes, alkenes, alkynes, haloalkanes, alcohols, ethers, aldehydes, ketones, carboxylic acids, carboxylic acid derivatives (acid halides, esters, anhydrides, amides), nitro compounds, nitriles and amines; including their cyclic analogues.

3.2 Bonding and Structure of organic compounds: (4L)

Hybridization: sp^3 , sp^2 , sp hybridization of carbon and nitrogen; sp^3 and sp^2 hybridizations of oxygen in Organic compounds (alcohol, ether, aldehyde, ketone, carboxylic acid, ester, cyanide, amine and amide)

Overlap of atomic orbitals: Overlaps of atomic orbitals to form sigma and pi bonds, shapes of organic molecules.

Shapes of molecules; Influence of hybridization on bond properties (as applicable to ethane, ethene, ethyne)

3.3 Fundamentals of organic reaction mechanism: (6L)

Electronic Effects: Inductive, electromeric, resonance and mesomeric effects, hyperconjugation and their applications; Dipole moment; Organic acids and bases; their relative strengths.

Bond fission: Homolytic and Heterolytic fission with suitable examples. Electrophiles and Nucleophiles; Nucleophilicity and basicity;

Types (primary, secondary, tertiary, allyl, benzyl), shape and their relative stability of reactive intermediates: Carbocations, Carbanions and Free radicals.




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Introduction to types of organic reactions: Addition, Elimination and Substitution reaction. (With one example of each)

Semester I

Paper II

Unit I

1.1 Chemical Kinetics: (8L)

Rate of reaction, rate constant, measurement of reaction rates, order and molecularity of reaction, integrated rate equation of first and second order reactions (with equal initial concentration of reactants) (Numericals expected)

Determination of order of reaction by (a) Integration method (b) Graphical method (c) Ostwald's isolation method (d) Half time method (Numericals expected)

1.2 Liquid State: (7L)

Surface tension: Introduction, methods of determination of surface tension by drop number method (Numericals expected)

Viscosity: Introduction, coefficient of viscosity, relative viscosity, specific viscosity, reduced viscosity, determination of viscosity by Ostwald viscometer (Numericals expected)

Refractive index: Introduction, molar refraction and polarizability, determination of refractive index by Abbe's refractometer (Numericals expected)

Liquid crystals: Introduction, classification and structure of thermotropic phases (Nematic, smectic and cholesteric phases), applications of liquid crystals

Unit-II

2.0 Comparative chemistry of Main Group Elements: (15L)

Metallic and non-metallic nature, oxidation states, electronegativity, anomalous behaviour of second period elements, allotropy, catenation, diagonal relationship. Comparative chemistry of carbides, nitrides, oxides and hydroxides of group I and group II elements. Some important compounds- NaHCO_3 , Na_2CO_3 , NaCl , NaOH , CaO , CaCO_3 ; oxides of carbon, oxides and oxyacids of sulphur and nitrogen with respect to environmental aspects.

Unit III

3. Stereochemistry I: (15L)

Fischer Projection, Newman and Sawhorse Projection formulae (of erythro, threo isomers of tartaric acid and 2,3 dichlorobutane) and their interconversions ;

Geometrical isomerism in alkene and cycloalkanes: cis-trans and syn-anti isomerism E/Z notations with C.I.P rules.

Optical Isomerism: Optical Activity, Specific Rotation, Chirality/Asymmetry, Enantiomers, Molecules with two similar and dissimilar chiral-centres, Distereoisomers, meso structures, racemic mixture and resolution (methods of resolution not expected).

Relative and absolute configuration: D/L and R/S designations.

Conformation analysis of alkanes (ethane, propane and n-butane); Relative stability with energy diagrams.

Semester II

Paper I

Unit-I

1.1 Gaseous State: (8L)

Ideal gas laws, kinetic theory of gases, Maxwell-Boltzmann's distribution of velocities (qualitative discussion), ideal gases, real gases, compressibility factor, Boyle's temperature (Numericals expected)

Deviation from ideal gas laws, reasons for deviation from ideal gas laws, Van der Waals equation of state, Joule-Thomson effect: qualitative discussion and experimentation, inversion temperature. (Numericals expected)

1.2 Chemical Equilibria and Thermodynamic Parameters: (7L)

Reversible and irreversible reactions, law of mass action, dynamic equilibria, equilibrium constant, (K_c and K_p), relationship between K_c and K_p , Le Chatelier's principle, factors affecting chemical equilibrium (Numericals expected)

Statement of second law of thermodynamics, concepts of entropy and free energy, spontaneity and physical significance of free energy, thermodynamic derivation of equilibrium constant (Numericals expected)

Unit II

2.1 Concept of Qualitative Analysis: (7L)

- Testing of Gaseous Evolutes, Role of Papers impregnated with Reagents in qualitative analysis (with reference to papers impregnated with starch iodide, potassium dichromate, lead acetate, dimethylglyoxime and oxine reagents).




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Essentials Elements of The Syllabus

1	Title of Course	Syllabus for two semester S. Y. B. Sc. course in chemistry
2	Couse Code	USCH301, USCH302, USCH303 USCH401, USCH402, USCH404 USCHP1 to USCHP6
3	Preamble	Attached
4	Objective	<ul style="list-style-type: none">• To infuse in the learner a spirit of inquiry into the fundamental aspects of the various core areas of Chemistry.• To make the learner proficient in analysing the various observations and chemical phenomena presented to him during the course.• To make the learner capable of solving problems in the various units of this course• To give the learner an opportunity to get hands on experience of the various concepts and processes in the various branches of chemistry• To impart various skills of handling chemicals, reagents, apparatus, instruments and the care and safety aspects involved in such handling• To make the learner capable of analysing and interpreting results of the experiments he conducts or performs
5	Eligibility	Pass F. Y. B. Sc.
6	Fee Structure	As Per Guidelines issued from the University
7	No. of Lectures	9 lectures per week (three lectures per paper)
8	No. of Practicals	9 periods per week (three periods per paper)
9	Duration of Course	Two Semester




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Semester III
Paper I
Theory: 45 Lectures

Unit I: Physical Chemistry

1.1 Chemical Thermodynamics-II(8L)

1.1.1 Free Energy Functions: Helmholtz Free Energy, Gibb's Free Energy, Variation of Gibb's

free energy with Pressure and Temperature.

1.1.2 Gibbs-Helmholtz equation, van't Hoff reaction isotherm and van't Hoff reaction isochore.

(Numericals expected).

1.1.3 Thermodynamics of Open System: Partial Molal Properties, Chemical Potential and its variation with Pressure and Temperature, Gibb's Duhem equation.

1.1.4 Concept of Fugacity and Activity

1.2 Electrochemistry: (7L)

1.2.1 Conductivity, equivalent and molar conductivity and their variation with dilution for weak and strong electrolytes.

1.2.2 Kohlrausch law of independent migration of ions.

1.2.3 Applications of conductance measurements: determination of degree of ionization and ionization constant of weak electrolyte, solubility and solubility product of sparingly soluble salts, ionic product of water. (Numericals expected).

1.2.4 Transference number and its experimental determination using Moving boundary method. (Numericals expected). Factors affecting transference number.

Unit-II

Chemical Bonding

2.1 Non-Directional Bonding

(4L)

2.1.1 Ionic Bond: Conditions for the Formation of Ionic Bond.

2.1.2 Types of Ionic Crystals

2.1.3 Radius Ratio Rules

2.1.4 Lattice Energy, Born-Landé Equation

2.1.5 Kapustinski Equation

2.1.6 Born-Haber Cycle and its Application

2.2. Directional Bonding: Orbital Approach.

(6L)

2.2.1 Covalent Bonding The Valence Bond Theory- Introduction and basic tenets.




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Choice Based Credit System
S. Y. B. Sc.
Chemistry Syllabus
To be implemented from the Academic year 2017-2018

Course Content
Semester III

Course Code	Unit	Topics	Credits	L/Week
USCH301	I	Chemical Thermodynamics-II, Electrochemistry	2	1
	II	Chemical Bonding		1
	III	Reactions and reactivity of halogenated hydrocarbons, alcohols, phenols and epoxides		1
USCH302	I	Chemical Kinetics-II, Solutions	2	1
	II	Selected topics on p block elements		1
	III	Carbonyl Compounds		1
USCH303	I	Introduction to Analytical Chemistry and Statistical Treatment of analytical data-I	2	1
	II	Classical Methods of Analysis		1
	III	Instrumental Methods-I		1
USCHP1		Chemistry Practicals I	1	3
USCHP2		Chemistry Practicals II	1	3
USCHP3		Chemistry Practicals III	1	3

Semester IV

Course Code	Unit	Topics	Credits	L/Week
USCH401	I	Electrochemistry-II, Phase Equilibria	2	1
	II	Comparative Chemistry of the transition metals & Coordination Chemistry		1
	III	Carboxylic acids and their derivatives, Sulphonic acids		1
USCH402	I	Solid state, Catalysis	2	1
	II	Ions in aqueous medium & Uses and Environmental Chemistry of volatile Oxides and oxo-acids		1
	III	Amines, Diazonium salts, Heterocyclic compounds		1
USCH403	I	Separation Techniques in Analytical Chemistry	2	1
	II	Instrumental Methods-II		1
	III	Statistical Treatment of analytical data --II		1
USCHP4		Chemistry Practicals I	1	3
USCHP5		Chemistry Practicals II	1	3
USCHP6		Chemistry Practicals III	1	3

- 3.2.1. **Alcohols:** Nomenclature, Preparation: Hydration of alkenes, hydrolysis of alkyl halides, reduction of aldehydes and ketones, using Grignard reagent. Properties: Hydrogen bonding, types and effect of hydrogen bonding on different properties. Acidity of alcohols, Reactions of alcohols
- 3.2.2. **Phenols:** Preparation, physical properties and acidic character. Comparative acidic strengths of alcohols and phenols, resonance stabilization of phenoxide ion. Reactions of phenols.
- 3.2.3. **Epoxides:** Nomenclature, methods of preparation and reactions of epoxides: reactivity, ring opening reactions by nucleophiles (a) In acidic conditions: hydrolysis, reaction with halogen halide, alcohol, hydrogen cyanide. (b) In neutral or basic conditions: ammonia, amines, Grignard reagents, alkoxides.

Semester III

Paper II

Unit I: Physical Chemistry

1.1 Chemical Kinetics-II (7L)

1.1.1 Types of Complex Chemical reactions: Reversible or opposing, consecutive and parallel reactions (No derivations, only examples expected),

Thermal chain reactions: H. and Br. reaction. (only steps involved, no kinetic expression expected).

1.1.2 Effect of temperature on the rate of reaction, Arrhenius equation, Concept of energy of activation (E_a). (Numericals expected).

1.1.3 Theories of reaction rates: Collision theory and activated complex theory of bimolecular reactions. Comparison between the two theories (Qualitative treatment only)

1.2 Solutions: (8 L)

1.2.1 Thermodynamics of ideal solutions: Ideal solutions and Raoult's law, deviations from Raoult's law-non-ideal solutions. Vapour pressure-composition and temperature -composition curves of ideal and non-ideal solutions. Distillation of solutions. Lever rule. Azeotropes.

1.2.2 Partial miscibility of liquids: Critical solution temperature; effect of impurity on partial miscibility of liquids with respect to Phenol-Water, Triethanolamine - Water and Nicotine - Water systems

1.2.3 Immiscibility of liquids- Principle of steam distillation.

1.2.4 Nernst distribution law and its applications, solvent extraction.

Unit-II

2. Selected topics on p block elements

(15L)



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Item No. 4.20

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Syllabus for sem V & VI
Program: B.Sc.
Course: CHEMISTRY

(Credit Based Semester and Grading System with
effect from the academic year 2013–2014)



	II	<p>2.1 Surface Chemistry & Catalysis (9L)</p> <p>2.1.1 Adsorption: Physical and Chemical Adsorption, types of adsorption isotherms . Langmuir's adsorption isotherm (Postulates and derivation expected). B.E.T. equation for multilayer adsorption, (derivation not expected). significance of the terms involved in the equation is expected.),determination of surface area of an adsorbent using B.E.T. equation. Numericals on surface area determination are expected.</p> <p>2.1.2 Catalysis: Homogeneous and heterogeneous catalysis, catalytic activity and selectivity, promoters, inhibitors, catalyst poisoning and deactivation,</p> <p>2.1.3 Acid-Base catalysis, mechanism and kinetics of acid-base catalyzed reactions, effect of pH on acid-base catalyzed reactions. Mechanism and kinetics of enzyme catalyzed reaction (Michaelis-Menten equation).</p> <p>2.2 Colloids (6L)</p> <p>2.2.1 Introduction to colloidal state of matter.</p> <p>2.2.2 Origin of charge on colloidal particles. Concept of electrical double layer, zeta potential, Helmholtz and Stern model, Electro-kinetic phenomena:1.Electrophoresis ,2.Electrophoresis ,3. Streaming potential 4. Sedimentation potential .</p> <p>2.2.3 Colloidal electrolytes.</p> <p>2.2.4 Donnan Membrane Equilibrium.</p> <p>2.2.5 Surfactants, micelle formation, applications of surfactants in detergents, food industry, in pesticide formulations.</p>		1
	III	<p>3.1 Electrochemistry – Electrochemical cells (15L)</p> <p>3.1.1 Lewis concept of Activity and Activity coefficient, Mean ionic activity and mean ionic activity coefficient γ_{\pm} of an electrolyte, expression for activities of electrolytes of different valence type, ionic strength of a solution, Debye-Huckel limiting law (derivation not expected)</p>		1



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of stability of intermediate; and of pyridine on the basis of electron distribution. Nucleophilic substitution reaction of pyridine on the basis of electron distribution.

4.1.4 Reactions of heterocycles: The following reactions of furan, pyrrole and thiophene: Halogenation, Nitration, Sulphonation, Vilsmeier formylation reaction, Friedel-Crafts reaction. Furan: Diels-Alder reaction.

Ring opening of furan. Pyrrole: Acidity and basicity of pyrrole-Comparison of basicity of pyrrole and pyrrolidine, Acid catalyzed polymerization of pyrrole. Pyridine: Basicity. Comparison of basicity of pyridine, pyrrole and piperidine. Sulphonation of pyridine, with and without catalyst. Reduction. Oxidation of alkyl pyridines and action of sodamide (Chichibabin reaction). N-methylation of pyridine. Quaternization of piperidine, pyrrolidine and Hofmann elimination of the quaternary salts.

4.2. Organic Synthesis (7L)

4.2.1 Introduction: Criteria for ideal organic synthesis. Yield and selectivity. Multi-component synthesis – with examples, Mannich reaction, Hantzsch synthesis of pyridines (without mechanism).

4.2.2 Illustrative synthesis of industrially important compounds: Ibuprofen (chiral synthesis), paracetamol (green synthesis), L-ascorbic acid (from D-glucose), norfloxacin, thyroxine, vanillin, methyl dihydrojasmonate (Hedione), Bifenox-I, pigment red 242, indigo, 2-hydroxy-3-amino-5-nitrobenzene sulphonic acid.

4.2.3 Newer methods of organic synthesis: Introduction to the use of the following in organic synthesis: Ultrasound, microwaves, PTC.

4.1.1 Introduction: aromaticity of furan, pyrrole, thiophene and pyridine.

4.1.2 Synthesis: Synthesis of furans, pyrroles, and thiophenes by Paal-Knorr synthesis. Pyridines by Hantzsch



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	<p>stereo selective reduction of olefins.</p> <p>3.1.2 Reagents: (1) LiAlH_4 and Red-Al: reduction of CO, COOR, CN, NO_2. (2) NaBH_4: reduction of CO (3) SeO_2: hydroxylation of allylic and benzylic positions, oxidation of CH_2, alpha to CO to CO. (5) mCPBA and $\text{R-OOH}/\text{H}_2\text{O}_2$ for epoxidation of $\text{C}=\text{C}$. (6) NBS: allylic and benzylic bromination of position alpha to CO.</p> <p>3.2 Natural Products (10L)</p> <p>3.2.1 Introduction: Primary and secondary metabolites. Introduction to the following natural products with respect to the sources and classes. (Structures of the compounds specified below are expected).</p> <p>(a) Terpene: Isoprene and special isoprene rule. α-terpeniol, citral, camphor, α-pinene.</p> <p>(b) Alkaloids: nicotine, atropine.</p> <p>(c) Vitamins: Vitamins A and C.</p> <p>(d) Hormones: adrenaline, thyroxine.</p> <p>(e) Steroids: cholesterol, progesterone.</p> <p>3.2.2 Structure determination of natural products: 3.2.2.1 Ozonolysis in terpenoids- Examples of open chain and monocyclic monoterpenes. 3.2.2.2 Hofmann exhaustive methylation and degradation in alkaloids - simple open chain and monocyclic amines. 3.2.2.3 Structure determination of citral and nicotine through degradation studies. Total synthesis of (i) Citral from 3-methylbutan-1-ol (ii) Nicotine from nicotinic acid.</p> <p>3.2.4 Commercial importance of terpenoids and alkaloids: Synthesis of camphor from α-pinene, α and β ionones, geraniol and nerol from citral.</p> <p>3.2.5</p>	
IV	<p>4.1 Organometallic Chemistry (5L)</p> <p>4.1.1 Introduction: Carbon-metal bond- Nature, types reactivity.</p> <p>4.1.2 Organo magnesium Compounds: Grignard reagent: Preparation, structure, and stability, Reaction with compounds containing acidic hydrogen, carbonyl compounds, cyanides and CO_2.</p> <p>4.1.3 Organolithium Compounds: Preparation using alkyl/aryl halides. Reactions with compounds containing</p>	1



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Program: S.Y.B. Sc.

Course: Zoology

(Credit Based Semester and Grading System
with effect from the academic year 2016-2017)




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Syllabus for

S.Y.B.Sc.

Course – ZOOLOGY

To be implemented from Academic year 2016-17

SEMESTER - III

COURSE CODE	UNIT	TOPIC	CREDITS	LECTURE WEEK
USZO301	I	Fundamentals of Genetics,	2	1
	II	Chromosomes and Heredity,		1
	III	Nucleic acids		1
USZO302	I	Study of Nutrition and Excretion	2	1
	II	Study Respiration and circulation,		1
	III	Control and coordination, Locomotion and Reproduction		1
USZO303	I	Ethology	2	1
	II	Parasitology		1
	III	Economic Zoology		1
USZOP3		Practical based on all three courses	03	9

SEMESTER - IV

COURSE CODE	UNIT	TOPIC	CREDITS	LECTURES/ WEEK
USZO401	I	Origin and evolution of Life,	2	1
	II	Population genetics and evolution,		1
	III	Scientific Attitude methodology, writing and ethics		1
USZO402	I	Cell Biology,	2	1
	II	Endo membrane System		1
	III	Biomolecules		1
USZO403	I	Comparative Embryology,	2	1
	II	Aspects of Human Reproduction,		1
	III	Pollution and its effect on organisms		1



Signature

S.Y.B.Sc. ZOOLOGY UNIT WISE DISTRIBUTION

Semester III			Semester IV		
Course 5	Course 6	Course 7	Course 8	Course 9	Course 10
Unit 1 Fundamentals of Genetics	Unit 1 Study of Nutrition & Excretion	Unit 1 Ethology	Unit 1 Origin & Evolution of Life	Unit 1 Cell Biology	Unit 1 Comparative Embryology
Unit 2 Chromosome & Heredity	Unit 2 Study of Respiration & circulation	Unit 2 Parasitology	Unit 2 Population Genetics & Evolution	Unit 2 Endomembrane System	Unit 3 Aspects of human Reproduction
Unit 3 Nucleic Acids	Unit 3 Control and Coordination Locomotion & Reproduction	Unit 3 Economic Zoology	Unit 3 Scientific Attitude, Methodology, Writing & Ethics	Unit 3 Biomolecules	Unit 3 Pollution & Effects on Animals
Practical (USZO P3)	Practical (USZO P3)	Practical (USZO P3)	Practical (USZO P4)	Practical (USZO P4)	Practical (USZO P4)




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Syllabus for F.Y.B.Sc.
Program BSc
Course: ZOOLOGY

Semester I and II

**(Credit Based Semester and Grading System
with effect from the academic year 2015–2016)**




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Arts, Commerce & Science College, Kharepatan,
A/p, Kharepatan, Tal. Kankavli, Dist. Sindhudurg

**Syllabus for
FYBSc.
Course – ZOOLOGY
To be implemented from Academic year 2015-16
SEMESTER - I**

COURSE CODE	UNIT	TOPICS	CREDITS	LECTURES/WEEK
USZO101	I	Wonders of animal world	2	1
	II	Biodiversity and its conservation		1
	III	Footsteps to follow		1
USZO102	I	Laboratory safety and Units of Measurement	2	1
	II	Animal Biotechnology		1
	III	Instrumentation		1
USZOP1	Practical based on both courses		2	6

SEMESTER - II

COURSE CODE	UNIT	TOPICS	CREDITS	LECTURES/WEEK
USZO201	I	Population Ecology	2	1
	II	Ecosystem		1
	III	National park and Sanctuaries		1
USZO202	I	Nutrition and Health	2	1
	II	Public health and Hygiene		1
	III	Common human Diseases		1
USZOP2	Practical based on both courses		2	6