



Navodaya Shaikshanik Sanstha Dhule's

**Uttamrao Patil Arts and Science College**

Dahivel, Tal.- Sakri, Dist.-Dhule (Maharashtra) 424302.

### Courses Outcome

Course Outcome (F.Y.B.A. Marathi)		
Sr. No.	Course	Outcome
1	DSC Marathi A I – विशिष्टवांगमय प्रकारांचा अभ्यास -कथा-I	1)कथा या वांगमय प्रकारांचे स्वरूपआणि त्याची शिष्ट्ये समजून घेणे 2) कथारचनेच्या प्रमुख घटकांचे आकलन करून घेणे 3) कथेच्या प्रकारांचा परिचय करून घेणे 4) मराठी कथेची वाटचाल जाणून घेणे 5) हमीद दलवाई यांच्या निवडक कथांच्या कथानकाचे आकलन करून घेणे आणि व्यक्तिचनांची वैशिष्ट्ये जाणून घेणे 6) अमित दलवाई यांच्या कथातील प्रसंग वर्णन, वातावरण निर्मिती, संघर्ष, निवेदनशैली व भाषा विशेष या घटकांचे आकलन करून घेणे
2	DSC Marathi A 2 – विशिष्टवांगमय प्रकारांचा अभ्यास - कविता -II	1)कविता या वांगमय प्रकाराचे स्वरूपव वैशिष्ट्ये समजून घेणे 2) काव्यरचनेच्या प्रमुख घटकांचा परिचय करून घेणे 3) आधुनिक मराठी कवितेची वाटचाल जाणून घेणे 4) कवितासंग्रहातील कवितांचा आशय जाणून घेणे 5) कवितासंग्रहातील विविध प्रकारातील कवितांचे अभिव्यक्ती विशेष जाणून घेणे
Course Outcome (S.Y.B.A. Marathi)		
3	MIL-I Marathi मुद्रितमाध्यमांसाठी लेखन	1) वृत्तपत्रया मुद्रित माध्यमाचा विशेष परिचय करून घेणे 2) वृत्तपत्रया मुद्रित माध्यमाचे कार्य आणि त्याची उपयुक्तता जाणून घेणे 3) वृत्तपत्र माध्यमातून करावयाच्या बातमी लेखनाचे स्वरूप व तंत्र अवगत करणे 4) वृत्तपत्रमाध्यमातून करावयाच्या जाहिरात लेखनाचे स्वरूप व तंत्र अवगत करणे 5) वृत्तपत्रमाध्यमासाठी करावयाच्या विविध वृत्तलेखनाचे स्वरूप व तंत्र अवगत करणे
4	MIL-I-Marathi श्राव्यमाध्यमांसाठी लेखन व संवाद	1) मीडिया लेखन कौशल से छात्रों को अवगत कराना । 2) मीडिया लेखन कौशल के विविध प्रकारों से छात्रों का परिचय कराना । 3) साहित्यल लेखन कौशल से अवगत कराना ।

		<p>4) गीत तथा नवगीत के माध्यम से संवेदनशीलता विकसित करना ।</p> <p>5) गीत तथा नवगीत से छात्रों को परिचित कराना ।</p>
5	DSC- I(C) A वैचारिकगद्दलेखनाचा अभ्यास	<p>1) मराठीतीलवैचारिक गद्दलेखनाच्या परंपरेचा परिचय करून घेणे</p> <p>2) महात्माज्योतिराव फुले यांच्या लेखनसंपदेबाबतमाहिती करून घेणे</p> <p>3) शेतकऱ्याचाआसूड मधील वैचारिक आशयाची स्वरूप वैशिष्ट्ये समजावून घेणे</p> <p>4) शेतकऱ्याचाआसूड या वैचारिक गद्दलेखनाच्या वांग्मयीन गुणवैशिष्ट्यांचा शोध घेणे</p> <p>5) शेतकऱ्याचा असूड मधून आलेल्या वैचारिक मांडणीची समकालीन अर्थपूर्णता जाणून घेणे</p>
6	DSC- I(D)A-Marathi चरित्र-आत्मचरित्रपर लेखनाचाअभ्यास	<p>1) चरित्रव आत्मचरित्र लेखनाचे सामाजिक व वांग्मयीन दृष्ट्या महत्त्व जाणून घेणे</p> <p>2) मराठीतीलचरित्र लेखनाच्या परंपरेचा परिचय करून घेणे</p> <p>3) मराठीतीलआत्मचरित्र लेखनाच्या परंपरेचा परिचय करून घेणे</p> <p>4) जीवन रंगया पुस्तकातील निवडक चरित्र पर लेखांचे स्वरूप जाणून घेणे</p> <p>5) जीवनरंग या पुस्तकातील निवडक आत्मचरित्रपर लेखांचे स्वरूप जाणून घेणे</p> <p>6) जीवनरंग या पुस्तकातील निवडक लेखांची वांग्मयीन गुणवैशिष्ट्ये लक्षात घेणे</p>
7	SEC-I Marathi लेखनकौशल्य-मुद्रित शोधन	<p>1) मुद्रितशोधनाचे स्वरूप आणिआवश्यकता जाणून घेणे</p> <p>2) मुद्रितशोधनाचेकौशल्यआत्मसात करणे</p> <p>3) मुद्रितशोधनाच्या खुणा अर्थ आणि उपयोजन याबाबत जाणून घेणे</p> <p>4) विरामचिन्हेआणि लेखन विषयक नियम यांचे स्वरूप जाणून घेणे</p> <p>5) मुद्रित शोधनाचा सराव करणे</p>
8	SEC-II- Marathi लेखनकौशल्य-सर्जनशील लेखन	<p>1) सर्जनशीललेखनाचे स्वरूप आणि त्याची वैशिष्ट्ये जाणून घेणे</p> <p>2) कथालेखनाचीनिर्मिती प्रक्रिया समजून घेणे</p> <p>3) नाट्यात्मलेखनाची निर्मिती प्रक्रिया समजून घेणे</p> <p>4) कथालेखनाचा व नाट्यात्म लेखनाचा सराव करणे</p>
9	DSE -I (A) Marathi आधुनिकवांग्मय प्रकार : कादंबरी	<p>1) कादंबरी या वांग्मय प्रकाराचे स्वरूप व त्याची वैशिष्ट्ये जाणून घेणे</p> <p>2) आधुनिकमराठी कादंबरीच्या वाटचालीचा पराभर्ष घेणे</p> <p>3) अवकाळीपावसाच्या दरम्यानची गोष्ट या कादंबरीतील ग्रामीण जीवन वास्तवाचे स्वरूप लक्षात घेणे</p> <p>4) अवकाळी पावसाच्या दरम्यानची गोष्ट या कादंबरीचे वांग्मयीन मूल्यमापन करणे</p>

10	DSE -II (A) Marathi आधुनिकवांग्मय प्रकार : कविता	1) कविता या वांग्मय प्रकाराचेस्वरूप व त्याची वैशिष्ट्ये जाणून घेणे. 2) आधुनिक मराठी कवितेच्या वाटचालीचा परामर्श घेणे 3) माझेविद्यापीठ या कवितासंग्रहातील विविध जीवन जाणिव्यांचा शोध घेणे 4)माझेविद्यापीठ या कविता संग्रहाचे वांग्मयीनमूल्यमापन करणे
11	DSE -I (B) Marathi साहित्यविचार (भारतीय आणि पाश्चात्य)	1) भारतीयआणि पाश्चात्य साहित्य विचारांचा परिचय करून घेणे 2) साहित्याचेस्वरूप समजून घेणे 3) साहित्याच्यानिर्मितीची विविध प्रयोजने समजून घेणे 4)साहित्यनिर्मितीच्या प्रधान व गौणकारणांची ओळख करून घेणे
12	DSE -II (B) Marathi साहित्यविचार (भारतीय आणि पाश्चात्य)	1) भारतीयआणि पाश्चात्य साहित्य विचारांचा परिचय करून घेणे 2) शब्दशक्तीचेस्वरूप व प्रकार समजून घेणे 3) साहित्यातीलरस प्रक्रिया संस्कृत साहित्य मीमांसकांनीमांडलेल्यारस विचाराच्या आधारे जाणून घेणे 4) साहित्यातूनप्राप्त होणाऱ्या आनंदाचे स्वरूप जाणून घेणे

**Course Outcome (T.Y.B.A. Marathi)**

1	MIL-III Marathi दृकश्राव्यमाध्यमांसाठी लेखन व संवाद	1) दूरचित्रवाणी या दृकश्राव्य माध्यमाचाविशेष परिचय करून घेणे 2) दूरचित्रवाणीयादृकश्राव्य माध्यमाचे कार्य आणि त्याची उपयुक्तता जाणून घेणे 3) दूरचित्रवाणी साठी करावयाच्याकार्यक्रमांच्या लेखनाचे स्वरूप व तंत्र अवगत करणे 4) दूरचित्रवाणी साठी करावयाच्या जाहिरातलेखनाचे स्वरूप व तंत्र अवगत करणे
2	MIL-IV Marathi आधुनिकसमाज माध्यमांसाठी लेखन व संवाद	1)आधुनिकसमाज माध्यमांचा विशेष परिचय करून घेणे 2) आधुनिकसमाज माध्यमांचे कार्य आणि त्याची उपयुक्तता याबाबत जाणून घेणे 3) ई-मेललेखनाचे स्वरूप लक्षात घेऊन लेखन तंत्र अवगत करणे 4) फेसबुकट्विटर व्हाट्सअप युट्युब यावरील लेखांचे स्वरूप जाणून घेणे 5) फेसबुकवयुट्युब यावरील निवेदन कौशल्य जाणून घेऊन आत्मसात करणे
3	DSC- E(A) Marathi दलितएकांकिका लेखनाचा अभ्यास	1) एकांकिका या नाट्य प्रकाराचे स्वरूप व त्याची वैशिष्ट्ये जाणून घेणे 2) मराठीतीलएकांकिका लेखनाची वाटचाल लक्षात घेणे 3)दलितएकांकिका लेखनाचे स्वरूप त्याची वैशिष्ट्ये ववाटचाल समजून घेणे 4) निवडकदलित एकांकिकांचा अभ्यास करणे
4	DSC- F (A) Marathi	1)ललित गद्य या वांग्मय प्रकाराची संकल्पनात्याचे स्वरूप व

	ललितगद्य लेखनाचा अभ्यास :ललित रंग	वैशिष्ट्ये जाणून घेणे 2) मराठीतीलललित गद्य लेखनाच्या वाटचालीचा परामर्श घेणे 3) ललितकधी लेखनातील विविध प्रकारांची त्यांच्या बदलत्या रूपांची माहिती करून घेणे 4) श्रीविषयक निवडक ललितगद्य लेखनाचा अभ्यास करणे
5	SEC-III Marathi लेखनकौशल्य-लेखन निबंध	1) निबंधलेखनाचे कौशल्य आत्मसात करणे 2)निबंधलेखनाचे स्वरूप व त्याचे घटक जाणून घेणे 3) निबंधलेखनाचे प्रकार लक्षात घेऊन त्यांच्या लेखनाचा सराव करणे
6	SEC-IVMarathi लेखनकौशल्य-ग्रंथपरीक्षण लेखन	1) ग्रंथपरीक्षण लेखनाचे कौशल्य आत्मसात करणे 2) ग्रंथपरीक्षण लेखनाचे स्वरूप व अशा लेखनाची प्रक्रिया जाणून घेणे 3) विविधप्रकारातील ग्रंथांचे परीक्षण लिहिण्याचा सराव करणे.
7	DSE -III (A) Marathi मध्ययुगीन मराठी वांग्मयाचा इतिहास	1) मध्ययुगीन मराठी वांग्मयाचा इतिहासाचा परिचय करून घेणे 2) मध्ययुगीन मराठी वाङ्मयाच्या निर्मितीमागील प्रेरणा जाणून घेणे 3) महानुभावसंप्रदायाच्या वांग्मय निर्मितीचे स्वरूप लक्षात घेऊन वैशिष्ट्ये जाणून घेणे 4) शाहिरीकाव्याचे स्वरूप लक्षात घेऊन त्याची ठळक वैशिष्ट्ये जाणून घेणे
8	DSE -III (B) Marathi मध्ययुगीनमराठी वांग्मयाचा अभ्यास	1) मध्ययुगीनमराठी वांग्मयाच्याइतिहासाचापरिचय करून घेणे 2) मध्ययुगीनमराठी वाङ्मयाच्या निर्मितीमागील प्रेरणा जाणून घेणे 3)वारकरीसंप्रदायातील संत कवींच्या काव्यनिर्मितीचे स्वरूप व त्याची वैशिष्ट्ये लक्षात घेणे 4) बखरवांग्मय निर्मितीचा परिचय करून घेऊन त्याची ठळक वैशिष्ट्ये जाणून घेणे
9	DSE -IV(A) Marathi मराठीचाभाषिक अभ्यास	1)भाषेचेस्वरूप व तिचे कार्य जाणून घेणे 2) भाषा अभ्यासाच्या विविध अंकांचा परिचय करून घेणे 3) भाषाउत्पत्तीचे सिद्धांत जाणून घेणे 4)भाषाकुल संकल्पना समजून घेऊन मराठीच्या भाषा कुणाची माहिती घेणे
10	DSE -IV(B) Marathi मराठीचाभाषिक अभ्यास	1) मराठीच्या कालिक भेदांचे स्वरूप जाणून घेऊनत्यांची वैशिष्ट्ये नोंदविणे 2) मराठीच्याप्रांतिक भेदांची माहिती करून घेणे 3)मराठीच्यानिवडक प्रमुख बोलींच्या वैशिष्ट्यांचा परिचय करून घेणे 4) भाषाविषयकसमज गैरसमज यांचे निराकरण करून घेणे
11	GE-I (A) Marathi मराठीलोक रंगभूमी	1) लोकरंगभूमीचीसंकल्पना जाणून घेणे 2) लोकरंगभूमीचे स्वरूप जाणून घेऊन वैशिष्ट्यांचा परिचय करून घेणे 3) लोकसाहित्यआणि रंगभूमी यांचा परस्पर संबंध समजून घेणे 4) किर्तनआणि भारुड या लोकरंगभूमीच्या पारंपारिकरूपाची स्वरूप वैशिष्ट्ये जाणून घेणे

		5) खानदेशी वही आणि कोकणी दशावतार या लोक रंगभूमीच्या प्रादेशिक प्रकारांची स्वरूप वैशिष्ट्ये जाणून घेणे
12	GE-I (B) Marathi मराठीलोक रंगभूमी	1) तमाशाया लोक रंगभूमीच्या पारंपारिक रूपाची स्वरूप वैशिष्ट्ये जाणून घेणे 2) लोकनाट्यया लोक रंगभूमीच्या आधुनिक रूपाची स्वरूप वैशिष्ट्ये जाणून घेणे 3) सत्यशोधकीजलसे आणि आंबेडकर या लोक रंगभूमीच्या आधुनिक रूपांची स्वरूप वैशिष्ट्ये जाणून घेणे 4) पथनाट्यआणि रिंगण नाट्य या लोक रंगभूमीच्या आधुनिक रूपांची वैशिष्ट्ये जाणून घेणे
<b>Course Outcome (F.Y.Bsc.Marathi)</b>		
1		
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<b>Course Outcome (S.Y.Bsc. Marathi)</b>		
1	DSC HIN A I – सामान्य हिंदी	1) छात्रों को कथेत्तर गद्य की विविध विधाओं से परिचित करना । 2) कथेत्तर गद्य तथा पद्य की विविध रचनाओं के माध्यम से छात्रों भाषिक और लेखन की क्षमता को विकसित करना ।
2	DSC HIN A 2 – सामान्य हिंदीII	1)कथेत्तर गद्य तथा पद्य की विविध रचनाओं के माध्यम से मानविय मूल्यों के प्रति आस्थाम निर्माण करना । 2) कथेत्तर गद्य तथा पद्य की विविध रचनाओं के माध्यम से सामाजिक संवेदना जागृत करना ।
<b>Course Outcome (S.Y.B.A. Hindi)</b>		
1	MIL-I Hindi लेखन कौशल : मीडिया एवं साहित्यश	1) छात्रों को रचनात्मक लेखन के सैद्धांतिकों से अवगत कराना । 2) अभिव्यक्ति के विविध क्षेत्रों से छात्रों का परिचय कराना । 3) रचनात्मक लेखन के विविध रूपों से छात्रों को परिचित कराना । 4) लघुकथाओं के माध्यम से रचनात्मक लेखन की सर्जन प्रक्रिया को दर्शाना । 5) लघुकथा के माध्यम से मानवीय मूल्यों का संवर्धन एवं संरक्षण करना ।
2	MIL-I Hindi लेखन कौशल : मीडिया एवं साहित्यशII	1) मीडिया लेखन कौशल से छात्रों को अवगत कराना । 2) मीडिया लेखन कौशल के विविध प्रकारों से छात्रों का परिचय कराना । 3) साहित्यल लेखन कौशल से अवगत कराना । 4) गीत तथा नवगीत के माध्यम से संवेदनशीलता विकसित करना । 5) गीत तथा नवगीत से छात्रों को परिचित कराना ।
3	DSC- I (C) A Hindi कथेत्तर गद्य विधाएँ	1) कथेत्तर गद्य विधा का विकासात्मक परिचय प्रस्तुत करना । 2) कथेत्तर गद्य विधा की कालजयी रचनाओं का परिचय कराना । 3) कथेत्तर गद्य विधा की रचनाओं के माध्यम से मुल्या संवर्धन करना । 4) कथेत्तर गद्य विधा की रचनाओं के माध्यम से छात्रों में समाजिक संवेदनशीलता को बढ़ाना ।
4	DSC- I (D) A Hindi श्रेष्ठ हिंदी एकांकी -II	1) एकांकी विधा का विकासात्मक परिचय कराना । 2) प्रमुख एकांकीकारों का सामान्यच परिचय कराना । 3) एकांकी के माध्यम से रंगमंचीय प्रभाव को विशद करना ।
5	SEC-I Hindi भाषिक संप्रेषण	1) हिंदी भाषा के भाषिक स्वरूप से छात्रों को परिचित कराना । 2) अभिव्यक्ति के विविध क्षेत्रों से छात्रों का परिचय कराना । 3) भाषिक संप्रेषण की सैद्धांतिकी से छात्रों को परिचित कराना । 4) मौखिक संप्रेषण के विविध प्रकारों से छात्रों को अवगत कराना । 5) लिखित संप्रेषण के विविध प्रकारों से छात्रों को अवगत कराना ।

6	SEC-II Hindi अनुवाद विज्ञान	1) अनुवाद विज्ञान की प्रविधि से छात्रों को अवगत कराना । 2) अनुवाद विज्ञान का सैध्दांतिक विवेचन करना । 3) साहित्यिक अनुवाद, मशीनी अनुवाद से छात्रों को अवगत कराना ।
7	DSE -I (A) Hindi काव्य शास्त्र	1) काव्यशास्त्र का सामान्य परिचय कराना । 2) काव्य की विविध विधाओं से परिचित कराना । 3) अलंकारों का छात्रों को परिचित कराना ।
8	DSE -II (A) Hindi काव्य शास्त्र	1) गद्य की विविध विधाओं से परिचित कराना । 2) शब्द शक्तियों से छात्रों का परिचय कराना । 3) छंद एवं रसों से छात्रों को परिचित कराना । 4) आलोचना की क्षमता विकसित करना ।
9	DSE -I (B) Hindi उपन्यास विधा	1) हिंदी उपन्यास विधा का विकासात्मक परिचय कराना । 2) हिंदी के प्रमुख उपन्यासकारों का सामान्य परिचय कराना । 3) निर्धारित उपन्यास के माध्यम से छात्रों को मानवीय जीवन के समय का महत्व, व्यक्ति की विश्वासापी स्वतंत्रता वृद्धों की समस्यामूल्य संवर्धन संयुक्त परिवार आदि से अवगत कराना । 4) उपन्यास के माध्यम से सामाजिक उत्तरोत्तर के प्रति जागृत करना
10	DSE -II (B) Hindi नाटक विधा	1) हिंदी नाटक विधा का विकासात्मक परिचय कराना । 2) हिंदी नाटक और रंगमंच के परस्पर संबंधों पर प्रकाश डालना । 3) धरती आबा नाटक के माध्यम से आदिवासी समाज का चित्रण करना । 4) आदिवासी साहित्य और संस्कृति से छात्रों को परिचित कराना ।

### Course Outcome (T.Y.B.A. Hindi)

1	MIL-III Hindi संपादन लेखन और साहित्य	1) छात्रों को संपादकीय कला से अवगत कराना । 2) संपादन की योग्यतादायित्व और महत्व से परिचय कराना । 3) संपादकीय लेखन के तत्व और प्रविधि को दर्शाना । 4) विभिन्न समाचार पत्रों के संपादकीय से परिचित कराना ।
2	MIL-IV Hindi हिंदी सिनेमा और साहित्य	1) छात्रों को हिंदी सिनेमा के इतिहास से अवगत कराना । 2) सिनेमा और भारतीय समाज के संबंध का परिचय कराना । 3) हिंदी सिनेमा के तकनीकी पक्ष से परिचित करवाना । 4) साहित्य कृति पर आधारित सिनेमा से परिचित करना । 5) मोहनदास कहानी के माध्यम से सामाजिक यथार्थ को दर्शाना ।
3	DSC- E (A) Hindi विशेष विधा : यात्रा साहित्य	1) यात्रा साहित्य विधा के सैध्दांतिक विवेचन से छात्रों को अवगत कराना । 2) यात्रा साहित्य विधा के विकासात्मक परिचय से छात्रों को परिचय कराना । 3) यात्रा साहित्य के प्रमुख साहित्यकार तथा उनके यात्रा वर्णन का परिचय । 4) मेरी जपान यात्रा इस साहित्य कृति के माध्यम से छात्रों में यात्रा साहित्य लेखन की कला का विकास करना ।
4	DSC- F (A) Hindi विशेष विधा : भारतीय संत साहित्य-II	1) भारतीय संत काव्य का परिचय कराना । 2) भारतीय संत काव्य का विकासात्मक परिचय कराना । 3) छात्रों को भारतीय संत काव्य का अध्ययन कराना । 4) भारतीय संत काव्य की विशेषताओं तथा उपलब्धीयों का परिचय कराना ।
5	SEC-III Hindi हिंदी व्याकरण तथा अभिव्यक्ति कौशल	1) हिंदी भाषा की व्याकरणिक संरचना से अवगत कराना । 2) छात्रों को हिंदी शब्द संसाधन से परिचय कराना । 3) छात्रों को संप्रेक्षण प्रक्रिया से अवगत कराना । 4) वक्तृत्व वादविवाद, पल्लव कला कौशल की जानकारी देना ।
6	SEC-IV Hindi हिंदी भाषा का मानकीकरण और अशुद्धि शोधन	1) हिंदी भाषा के मानक रूप से परिचित कराना । 2) देवनागरी लिपि तथा वर्तनी संबंधी जानकारी देना । 3) शासकीय पत्र प्रारूप लेखन की क्षमता विकसित कराना । 4) साक्षात्कार प्रणाली की क्षमता विकसित करना ।
7	DSE -III (A) Hindi हिंदी साहित्य का इतिहास	1) हिंदी साहित्य का काल विभाजन और नामकरण से अवगत कराना । 2) आदिकालीन साहित्य की प्रमुख प्रवृत्तियों से परिचित कराना । 3) भक्तिकाल की परिस्थिति और प्रवृत्तियों से छात्रों को परिचित कराना ।

		4) रीतिकालीन साहित्य की परिस्थिति और प्रवृत्तियों से परिचित कराना ।
8	DSE -III (B) Hindi हिंदी साहित्य का इतिहास	1) छात्रों को आधुनिककाल के साहित्य का परिचितकराना । 2) आधुनिककाल के प्रमुख रचनाकार तथा साहित्य प्रवृत्तियों की जानकारी देना। 3) आधुनिककाल के गद्य एवं पद्य साहित्य का परिचय देना । 4) आधुनिककाल की प्रमुख कृतियों का परिचय कराना ।
9	DSE -IV (A) Hindi हिंदी भाषा का विकास	1) भाषा की परिभाषा तथा विशेषताओं से छात्रों को अवगत कराना । 2) भाषा के विविध रूपों का ज्ञान छात्रों प्रदान कराना । 3) छात्रों को विविध बोलियों से अवगत कराना । 4) भाषा के व्युत्पत्ति विषयक सिद्धांतों से छात्रों को परिचित करना 5) हिंदी के प्रचार प्रसार में खानदेश के साहित्यकारों का योगदान बताना ।
10	DSE -IV (B) Hindi भाषा विज्ञान	1) भाषा विज्ञान की परिभाषा तथा उसके अंगों का परिचय कराना । 2) भाषा विज्ञान की व्याकरण से तुलना करना । 3) ध्वनि विज्ञान तथा पद विज्ञान की जानकारी देना । 4) वाक्य विज्ञान तथा अर्थ विज्ञान संबंधित बातों का परिचय देना ।
11	GE-I (A) Hindi हिंदी की राष्ट्रीय काव्याधारा	1) हिंदी की राष्ट्रीय काव्यरधारा से छात्रों को परिचय कराना । 2) राष्ट्रीय काव्यधारा का विकासात्मक परिचय पर प्रकाश डालना । 3) हिंदी की राष्ट्रीय काव्यरधारा के प्रमुख कवियों का परिचय कराना । 4) भारतीय स्वातंत्रता आंदोलन में राष्ट्रीय कवियों का योगदान बताना ।
12	GE-I (B) Hindi खानदेश का लोक साहित्य	1) लोक साहित्य की सैद्धांतिकी से परिचय कराना । 2) खानदेश के लोकसाहित्य और लोकसंस्कृति से छात्रों को परिचित कराना 3) लोकगीत, लोककथा, लोकनाट्य और लोकोत्सव आदि के माध्यम से खानदेश की लोकसंस्कृति का साक्षात्कार कराना । 4) खानदेश की प्रमुख बोलियों में अहिराणीश लेवा और आदिवासी के साहित्य से अवगत कराना ।

**Course Outcome: [T.Y.B.A. Geography]**

1	SEM. V - (DSC 1E) Gg. 351 – Environmental Geography	1. To create the environmental awareness amongst the students. 2. To acquaint the students with fundamental concepts of Environmental Geography. 3. To aware the students about the processes and patterns in the natural environment. 4. To acquaint the students with potentials of Environmental Geography. 5. To aware the students about use of resources with prudence. 6. To acquaint the students with different environmental policies.
2	Gg. 352 (DSE 3A) Economic Geography	1. To acquaint the students with the knowledge of economic realm in the world. 2. To highlight the different economic activities. 3. To study mineral and power resources in the specific regions of the world.
3	Gg. 353 (DSE 4A) Practical in Human Geography and Geo-Statistics.	1. To introduce the practical approach of Human Geography. 2. To introduce the importance of statistical techniques in Human Geography.

		3. To introduce some basic research methods to the students.
4	Gg. 361 (DSC 1F) Population Geography.	<ol style="list-style-type: none"> <li>1. Understand the components of population change.</li> <li>2. Develop skills to use population information in the planning process.</li> <li>3. Understand the impact of planning activities on population size, composition, and distribution</li> <li>4. Population is an important resource. The development of any nation is depends on human resource. It is a prime deity to acquaint with the human resource of the nation.</li> <li>5. To understand the recent problems of population in the world as well as nati</li> </ol>
5	Gg.362 (DSE 3B) Political Geography	<ol style="list-style-type: none"> <li>1. To enable students to acquire knowledge of Political Geography.</li> <li>2. To understand basic concepts of Political Geography.</li> <li>3. To study various theories of Political Geography.</li> <li>4. To understand the frontiers and Boundaries.</li> </ol>
6	Gg. 363 (DSE 4B) Practical in Physical Geography	<ol style="list-style-type: none"> <li>1. To introduce the students with SOI toposheets and to acquire the knowledge of toposheet Reading / interpretation.</li> <li>2. To acquaint the students with IMD weather maps and to gain the knowledge of weather map reading/ interpretation.</li> </ol>
7	Gg. 365 (GE 1B): SUSTAINABI LITY AND DEVELOPME NT	<ol style="list-style-type: none"> <li>1. It brings to attention the Students about the issues which surround Sustainable</li> <li>2. Development, including its Principles, Processes and Concepts, its Deciding factors, and Potentials it holds.</li> <li>3. Students will get the information and Importance of the MDGS.</li> <li>4. Students will be aware about National Environmental Policy.</li> </ol>
8	Gg. 364 (SEC 4) Geographical Information System.	<ol style="list-style-type: none"> <li>1. To introduce the fundamentals and components of Geographic Information System</li> <li>2. To provide details of spatial data structures and input, management and output processes.</li> <li>3. To aware about the application of GIS in various fields</li> </ol>

**Course Outcome(History)**



IS DSC A 1 History of India (1857-1950)		<ul style="list-style-type: none"> <li>❖ Salient features Cover an important topic of History of India 1857 to 1950. The course broadly covers the basic information in this period. The syllabus provides chronological sequence of the “units” of the subject matter with proper placement of topics with their linkage for better understanding. Develop an interest in student to study the history as discipline. For making learning of history more relevant, meaningful and interesting. Develop positive attitude and appreciate contribution of freedom fighters towards the independents of India. Utility It will create a patriotism and nationalism among the students. The students will be made aware with the historical perspectives of the long freedom movement and sacrifices behind it through which the spirit of national integrity will be a part of study. The various approaches and contexts will be unraveled through the study of the subject. Learning objective To introduce various perspectives of the Indian Freedom Movement. To develop the spirit of nationalism among students. To bring an awareness among the students as responsible citizen of the country. To inculcate Liberty, Equality, and Fraternity among the students. To inculcate the rational thinking among the students.</li> </ul>
HIS DSC A 2 History of India (1857-1950)		<ul style="list-style-type: none"> <li>❖ Core Course- ( HIS – DSC B 1) Social Formations and Cultural Patterns of the Ancient World</li> <li>❖ Learning objective 1. To introduce the student to the culture of various civilizations from ancient times onwards. 2. To highlight how this regional cultural identity forms a part of the main flow of the various cultural traditions. 3. To get acquainted with basic concepts, theories and methodology of social Philosophy. 4. To enable the students comprehend the transition of World from ancient to Modern times and its impact on the world. 5. To acquaint the students with growth of various movements that shaped the modern world. 6. To enable the students to understand the Political, Socio Economic and Cultural Developments of World from Pre Historic times.</li> </ul>
DSC-HIS231 History of the Marathas (A.D. 1605 - A.D. 1750)		<ul style="list-style-type: none"> <li>❖ To Create and enhance interest about regional History among the students.</li> <li>❖ To acknowledge students how Shivaji Maharaj created the empire in adverse circumstances.</li> <li>❖ To motivate students for the research work of the Maratha History 4. Useful for the preparation of the competitive examinations.</li> </ul>

	DSC- HIS-241 History of the Marathas (A.D. 1605- A.D. 1750 )	<ul style="list-style-type: none"> <li>❖ To Create and enhance interest about regional History among the students.</li> <li>❖ To acknowledge students how Shivaji Maharaj created the empire in adverse circumstances.</li> <li>❖ To motivate students for the research work of the Maratha History 4. Useful for the preparation of the competitive examinations.</li> </ul>
	DSE - HIS - 242 History of United States of America (A.D. 1776 - A.D.1945)	<ul style="list-style-type: none"> <li>❖ To understand the importance of America (USA) in the world history.</li> <li>❖ To study the foreign policy of America (USA).</li> <li>❖ Focus on the Role of America (USA) in world politics.</li> <li>❖ To evaluate the progressive era of America (USA) and its important the world.</li> <li>❖ To study and the Role of America between two world wars. 6) Focus on the Human Rights Movement in America (USA).</li> </ul>
	DSE-HIS- 243 History of Ancient India (B.C 600 - A.D 1206)	<ul style="list-style-type: none"> <li>❖ To acquaint the students with different sources of Ancient Indian History.</li> <li>❖ To enable the students to understand the Political, Socio-Economic and Cultural Developments in the Periods under study and appreciate the rich Cultural Heritage in India.</li> <li>❖ To Survey the Sources of History of Ancient India. The Course intends to Provide and Understanding of the Social, Economic, Religious and Institutional Bases of Ancient India.</li> </ul>
	DSE- HIS-243 History of Ancient India (B.C 600 - A.D 1206 )	<ul style="list-style-type: none"> <li>❖ 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 Periods under study and appreciate the rich Cultural Heritage in India.</li> <li>❖ To Survey the Sources of History of Ancient India. The Course intends to Provide and Understanding of the Social, Economic, Religious and Institutional Bases of Ancient India.</li> </ul>
	SEC-HIS-244 An Introduction to Archives in India	<ul style="list-style-type: none"> <li>❖ To create awareness among the students about the role of Archives in the preservation of Heritage.</li> <li>❖ To introduce the importance of Archives in study of History.</li> <li>❖ To create awareness to conserve the historical records in their local areas.</li> <li>❖ Tte interest of students to pursue career in the field of</li> </ul>

		<p>Archives.</p> <ul style="list-style-type: none"> <li>❖ To encourage students to visit Archives.</li> </ul>
EC-HIS-244	An Introduction to Archives in India	<ul style="list-style-type: none"> <li>❖ To create awareness among the students about the role of Archives in the preservation of Heritage.</li> <li>❖ To introduce the importance of Archives in study of History.</li> <li>❖ To create awareness to conserve the historical records in their local areas.</li> <li>❖ To create interest of students to pursue career in the field of Archives.</li> <li>❖ To encourage students to visit Archives.</li> </ul>
DSC 1 E HIS 351	History of Modern Europe (AD 1781 - AD 1913)	<ul style="list-style-type: none"> <li>❖ Develop an interest in students to study the History as discipline.</li> <li>❖ To introduce the students to the concept and Nature of modern European History.</li> <li>❖ It will create patriotism and European nationalism among the students. iv. The various approaches and context will be unraveled though the study of History.</li> <li>❖ To encourage students to pursue carrier in Competitive Examinations.</li> <li>❖ Outcomes (students will be able to)</li> <li>❖ Understand the concept and meaning of the ` History of Modern Europe`.</li> <li>❖ Explain important information of the `History of modern Europe`.</li> <li>❖ To introduce various perspectives of the History of modern Europe. iv. Cover an Important topic of the `History of Modern Europe`1781 to 1945. v. To inculcate Liberty, Equality and fraternity among the students.</li> </ul>
DSC 1 F HIS 361	History of Modern Europe (AD 1914 - AD 1945)	<ul style="list-style-type: none"> <li>❖ Develop an interest in students to study the History as discipline.</li> <li>❖ To Introduce the students to the concept and Nature of modern European History.</li> <li>❖ It will Create a patriotism and European nationalism among the students.</li> <li>❖ The various approaches and context will be unraveled though the study of History.</li> <li>❖ To encourage students to pursue carrier in Competitive Examinations.</li> <li>❖ Outcomes (students will be able to) understand the concept and meaning of the ` History of Modern Europe`.</li> <li>❖ Explain important information of the `History of</li> </ul>

		<p>modern Europe`.</p> <ul style="list-style-type: none"> <li>❖ To introduce various perspectives of the History of modern Europe. iv. Cover an Important topic of the `History of Modern Europe` 1781 to 1945.</li> <li>❖ To inculcate Liberty, Equality and fraternity among the students.</li> </ul>
DSE 1 D HIS 362 History of India (AD 1750 – AD 1857)	<ul style="list-style-type: none"> <li>❖ Salient features x Cover an important topic of History of India 1750 to 1857.</li> <li>❖ The course broadly covers the basic information in this period.</li> <li>❖ The syllabus provides chronological sequence of the “units” of the subject matter with proper placement of topics with their linkage for better understanding.</li> <li>❖ Develop an interest in student to study the history as discipline.</li> <li>❖ For making learning of history more relevant, meaningful and interesting.</li> <li>❖ Develop positive attitude and appreciate contribution of freedom fighters towards the independents of India.</li> <li>❖ Utility It will create a patriotism and nationalism among the students.</li> <li>❖ The students will be made aware with the historical perspectives of the freedom movement and sacrifices behind it through which the spirit of national integrity will be a part of study.</li> <li>❖ The various approaches and contexts will be unraveled through the study of the subject. Learning objective</li> <li>❖ To introduce various perspectives of the Modern India.</li> <li>❖ To develop the spirit of nationalism among students.</li> <li>❖ To bring an awareness among the students as responsible citizen of the country.</li> <li>❖ To inculcate Liberty, Equality, and Fraternity among the students.</li> <li>❖ To inculcate the rational thinking among the students.</li> </ul>	
DSE 2 C HIS 353 History of India (AD 1206 – AD 1526)	<ul style="list-style-type: none"> <li>❖ Syllabus covers competitive examinations (UPSC, MPSC, NET, SET, Railway Board and Staff Selection etc.)</li> <li>❖ To developed the skill and opportunities among the student’s.</li> <li>❖ To make awareness and interest about Social, Economic and Cultural Heritage and History of India.</li> <li>❖ To make awareness about research.</li> <li>❖ Syllabus related to tour and excursion visit and report</li> </ul>	

		<p>writing.</p> <ul style="list-style-type: none"> <li>❖ Career and job oriented syllabus. Outcomes</li> <li>❖ Students learn about the various polity and sultanate period's (1206-1526) in India.</li> <li>❖ Students understand and review about the social, Economic and cultural information during the Sultanate period in Medieval India.</li> <li>❖ Students understand and review detail about the agricultural, trade and commerce position of women and religious condition in sultanate period.</li> </ul>
	DSE 2 D HIS 363 History of India (AD 1526 – AD 1707)	<ul style="list-style-type: none"> <li>❖ Syllabus covers competitive examinations (UPSC, MPSC, NET, SET, Railway Board and Staff Selection etc.)</li> <li>❖ To developed the skill and opportunities among the student's.</li> <li>❖ To make awareness and interest about Social, Economic and Cultural Heritage and History of India.</li> <li>❖ To make awareness about research.</li> <li>❖ Syllabus related to tour and excursion visit and report writing.</li> <li>❖ Career and job oriented syllabus.</li> <li>❖ Students learn about the various polity and sultanate period's (1206-1526) in India.</li> <li>❖ Students understand and review about the social, Economic and cultural information during the Sultanate period in Medieval India.</li> <li>❖ Students understand and review detail about the agricultural, trade and commerce position of women and religious condition in sultanate period.</li> </ul>
	SEC 3 HIS 354 Travel and Tourism in India	<ul style="list-style-type: none"> <li>❖ To introduce the students to the concept and nature of Tourism.</li> <li>❖ To acquaint the students about tourism planning.</li> <li>❖ To introduce important various tourist destinations in India to the students.</li> <li>❖ To encourage students to pursue career in Tourism. Outcomes (Students will be able to)</li> <li>❖ Understand the concept and types of Tourism.</li> <li>❖ Acquire adequate knowledge about various aspects in Tourism planning.</li> <li>❖ Explain important information of some Historical tourist places.</li> <li>❖ Develop career in Tourism industry.</li> </ul>
	SEC 4 HIS 364 An Introduction to Museums in India	<ul style="list-style-type: none"> <li>❖ To create awareness among the students about the role of Museum in the preservation of Heritage.</li> <li>❖ To explain the importance of Museums in study of</li> </ul>

		<p>History.</p> <ul style="list-style-type: none"> <li>❖ To create awareness to conserve the historical Monuments &amp; Places in their local areas.</li> <li>❖ To encourage students to pursue career in museology. Outcomes (Students will be able to)</li> <li>❖ Grasp the concept of Museum.</li> <li>❖ Acquire adequate knowledge about Historical Importance of Museums as Sources of History.</li> <li>❖ Understand Management of Museums.</li> <li>❖ Acquire important information of some Famous Museums in India.</li> <li>❖ Develop career in Tourism industry.</li> </ul>
	GE 1 A HIS 355 Making of Contemporary India.	<ul style="list-style-type: none"> <li>❖ Objective &amp; Outcome of this course</li> <li>❖ This course presents some important vignettes of a complex, highly diverse India that is also witnessing unprecedented changes since its formal independence in 1947 from Great Britain.</li> <li>❖ The course revolve around social dimensions of change, political democracy, economic transition from the state to the market, gender relations, India's economic globalization and changing world view. However, it would be helpful if students are aware of the socio political dynamics at play in contemporary India and keep themselves abreast with current affairs and debates in the country to fully appreciate the various dimensions and contours if the subject matter in the course.</li> </ul>
	B HIS 365 Making of Contemporary India.	<ul style="list-style-type: none"> <li>❖ Objective &amp; Outcome of this course</li> <li>❖ This course presents some important vignettes of a complex, highly diverse India that is also witnessing unprecedented changes since its formal independence in 1947 from Great Britain. The course revolve around social dimensions of change, political democracy, economic transition from the state to the market, gender relations, India's economic globalization and changing world view. However, it would be helpful if students are aware of the socio political dynamics at play in contemporary India and keep themselves abreast with current affairs and debates in the country to fully appreciate the various dimensions and contours if the subject matter in the course.</li> </ul>
<b>Course Outcome: [T.Y.B.A. Sociology]</b>		
	Course code: CC SOC-I Course code: CC SOC-II	<ul style="list-style-type: none"> <li>❖ G-201-Foundation of Sociology</li> <li>❖ Objectives of the Paper:</li> <li>❖ To introduce the students to the Discipline of Sociology.</li> </ul>

		<ul style="list-style-type: none"> <li>❖ To familiarize students with the basic concepts of Sociology.</li> <li>❖ To provide basic understanding of the Social Structure of Society</li> </ul>
DSE-SOC 1 A (232) DSE-SOC 1 B (242)		<ul style="list-style-type: none"> <li>❖ Foundation of Sociological Thought</li> <li>❖ To familiarize the students with the Social, Political, Economic and Intellectual</li> <li>❖ Context's in which sociology emerged as a distinctive discipline.</li> <li>❖ To understand the development of Sociological Thought.</li> <li>❖ Understand their Continuing relevance to Contemporary Concerns.</li> </ul>
DSE-SOC 2 A (233) DSE-SOC 2 B (243)		<ul style="list-style-type: none"> <li>❖ Tribal Society in India</li> <li>❖ To provide a comprehensive profile of Tribal people in India.</li> <li>❖ To understand the Demographic Features, Social Structure and cultural patterns</li> <li>❖ To understand the problems of Tribal people.</li> <li>❖ To familiarize students with the welfare policies, development issues and Tribal</li> </ul>
DSC-SOC 1 C (231) DSC-SOC 2 C (241)		<ul style="list-style-type: none"> <li>❖ Indian Society : Issues and Problems.</li> <li>❖ To Sensitive the student to the Emerging social issues in India.</li> <li>❖ To Enable them to acquire sociological understanding of these issues and problems over and above their commonsense understanding.</li> <li>❖ To empower them to deal with these issues and problems.</li> </ul>
DSE-SOC 3 A (352) DSE-SOC 3 B (362)		<ul style="list-style-type: none"> <li>❖ Techniques of Sociological Research.</li> <li>❖ To provide students exposure of the fundamentals of various research techniques and methods.</li> <li>❖ To try to build upon the basic assumptions in adopting different methodologies for different kinds of research themes.</li> <li>❖ To understand the nature of social phenomena and social reality.</li> <li>❖ To provide students exposure of the fundamentals of various research techniques and methods.</li> <li>❖ To try to build upon the basic assumptions in adopting different methodologies for different kinds of research themes.</li> <li>❖ To understand the nature of social phenomena and social reality.</li> </ul>
DSE-SOC 4 A (353)		<ul style="list-style-type: none"> <li>❖ Industrial Sociology</li> </ul>

DSE-SOC 4 B (363)	<ul style="list-style-type: none"> <li>❖ To acquaint the students with the structure of industrial society.</li> <li>❖ To provide the students sociological understanding of work and industry. □ To familiarize the students with the actual problem situation in industrial</li> </ul>
DSC-SOC 1 E (351) □ DSC-SOC 1 F (361)	<ul style="list-style-type: none"> <li>❖ Indian Society : Structure and Change</li> <li>❖ To introduce students the socio-cultural background of the Indian society.</li> <li>❖ To familiarize students with the institutional changes in the Indian society since the ancient period.</li> <li>❖ To get the basic understanding of the various social processes in the Indian Society.</li> </ul>
SEC-SOC 3 (354) SEC-SOC 4 (364)	<ul style="list-style-type: none"> <li>❖ Women in India -</li> <li>❖ To introduce students the basic concepts of the women studies.</li> <li>❖ To understand overall situation of women under the system of patriarchy in India. □ To sensitize the student to the emerging women social issues in India.</li> </ul>
GE-SOC 1 A (355) □ GE-SOC 1 B (365)	<ul style="list-style-type: none"> <li>❖ Sociology for Competitive Examinations</li> <li>❖ To impart knowledge on basic sociological concepts and various sociological perspectives.</li> <li>❖ Students will demonstrate familiarity with the Sociological Imagination.</li> <li>❖ To practice the students for competitive Examinations of state and Central Government department.</li> <li>❖ To help the students to achieve a career after graduation</li> </ul>
<b>Course Outcome: [T.Y.B.A , S Y.B.A , F . Y B . A. POLITICAL SCIENCE</b>	
Course code: CC pol-I Course code: CC pol-II	<ul style="list-style-type: none"> <li>❖ Indian political thinker G-201-Foundation of political thought</li> <li>❖ Objectives of the Paper: <ul style="list-style-type: none"> <li>❖ • To introduce the students to the Discipline of indian political thinker</li> <li>❖ • To familiarize students with the basic concepts of Indian political tradition.</li> <li>❖ • To provide basic understanding of the Social Structure of Indian politics</li> </ul> </li> </ul>
Sec pol 364 political journalism	<ul style="list-style-type: none"> <li>❖ Foundation of political journalism</li> <li>❖ 1. To familiarize the students with the Social, Political, Economic and Intellectual Journalism</li> <li>❖ Context's in which mass communication emerged as</li> </ul>



		<p>a distinctive discipline.</p> <ul style="list-style-type: none"> <li>❖ 2. To Understand the development of political journalism</li> <li>❖ 3. Understand their Continuing relevance to Contemporary Concerns.</li> </ul>
	Generic paper pol 365 civil services and good governance I and II	<ul style="list-style-type: none"> <li>❖ Civil services in India</li> <li>❖ Objectives :</li> <li>❖ 1) To provide a comprehensive profile of Indian civil service.</li> <li>❖ 2) introduction to Indian civil service</li> <li>❖ 3) To understand the problems of civil service to British era</li> <li>❖ 4) To familiarize students with the welfare policies, development issues in Mughal Samrajya</li> </ul>
	DSC-pol 1 C (231) 241 introduction to local and district administration	<ul style="list-style-type: none"> <li>❖ District administration</li> <li>1) To Sensitive the student to the Emerging political deployment in Maharashtra</li> <li>❖ 2) To Enable them to acquire political developmental understanding of these issues and</li> <li>❖ Problems over and above their commonsense understanding.</li> <li>❖ 3) To empower them to deal with these issues and problems</li> </ul>
	Sec pol 242 and pol 232 political research methodology	<ul style="list-style-type: none"> <li>❖ 1 Research methodology in political science</li> <li>Objectives:</li> <li>❖ 1. To provide students exposure of the fundamentals of various research</li> <li>❖ techniques and methods.</li> <li>❖ 2. To try to build upon the basic assumptions in adopting different</li> <li>❖ methodologies for different kinds of research themes.</li> </ul>

		<ul style="list-style-type: none"> <li>❖ 3. To understand the nature of research phenomena and political reality</li> <li>❖ 1. To provide students exposure of the fundamentals of various research</li> <li>❖ Techniques and methods.</li> <li>❖ 2. To try to build upon the basic assumptions in adopting different</li> <li>❖ Methodologies for different kinds of research themes.</li> <li>❖ 3. To understand the nature of social phenomena and political research methodology</li> </ul>
	DSc pol G 101. Pol G 201	<ul style="list-style-type: none"> <li>❖</li> <li>❖ Introduction to Indian constitution This paper deals with major fundamental concept and dimension in Indian constitution and political system it high light various aspect of political system .This paper would be assets of any kind of educational institutional as well as beneficial to all types of computer I've Exams</li> </ul>

**Course Outcome: [T.Y.B.Sc. Chemistry]**

	<b>CH-501</b> -Principles of Physical Chemistry-I	<ul style="list-style-type: none"> <li>❖ Understand the significance of wave function and postulates of quantum mechanics.</li> <li>❖ Deduce rate equations and half-life equations for first and second order reactions</li> <li>❖ Draw and explain the one and two component system phase diagrams. Explain the principles of electrode processes and apply them during practical's.</li> </ul>
	<b>CH-601</b> Principles of Physical Chemistry-II	<ul style="list-style-type: none"> <li>❖ Analyze the rotational spectra of diatomic molecules and determine the bond length.</li> <li>❖ Explain and apply the radioactivity principles for various chemical and biological investigations.</li> <li>❖ Describe the mechanism of fluorescence, phosphorescence and photochemical reactions.</li> <li>❖ Analyze the given crystal structure and determine the indices of planes, inter-planer distances and type of crystal structure.</li> </ul>
	<b>CH-502</b> Inorganic Chemistry	<ul style="list-style-type: none"> <li>❖ Learn about the VSEPR theory and how it can be used to explain molecular shapes.</li> <li>❖ Learn about the VBT to describe the formation of covalent bonds in terms of atomic orbital overlap.</li> <li>❖ Learn about stability of complexes using CFSE.</li> <li>❖ Learn about MOT to draw energy diagrams and to predict bond order.</li> </ul>

	<b>CH-602</b> Chemistry of Inorganic Solids	<ul style="list-style-type: none"> <li>❖ Learn about basic principles and synthesis of nanomaterials.</li> <li>❖ Learn about classification, composition and processing of cement.</li> <li>❖ Learn about classification and composition of alloys.</li> <li>❖ Learn about types manufacture and applications of fertilizers.</li> </ul>
	<b>CH-503</b> Organic Reaction Mechanism	<ul style="list-style-type: none"> <li>❖ Students will learn organic reactions like nucleophilic substitution, electrophilic substitution, nucleophilic addition, electrophilic addition and elimination.</li> <li>❖ Students will be able to write/ explain mechanisms of those types of reactions.</li> <li>❖ Students will understand how a reaction takes place in one or more steps.</li> <li>❖ Students will understand the types of intermediates formed in different reactions.</li> <li>❖ Students will learn how reagent attacks the substrate molecule and accordingly how bonds break and formed.</li> <li>❖ Students will learn how change in structure of substrate, reagent and solvent changes the product formed and its stereochemistry.</li> <li>❖ Students will be able to predict the products and to suggest the mechanisms.</li> </ul>
	<b>CH-603</b> Spectroscopic Methods of Structure Determination	<ul style="list-style-type: none"> <li>❖ Students will learn interaction of radiations with matter. They will understand different regions of electromagnetic radiations. They will know different wave parameters.</li> <li>❖ Students will learn principle of mass spectroscopy, its instrumentation and nature of mass spectrum.</li> <li>❖ Students will understand principle of UV spectroscopy and nature of UV spectrum. They will learn types of electronic excitations.</li> <li>❖ Students will be able to calculate maximum wavelength for any conjugated system. And from the value of <math>\lambda</math>-max they will be able to find out extent of conjugation in the compound.</li> <li>❖ Students will understand principle of IR spectroscopy, types of vibrations and the nature of IR spectrum. From IR spectrum, they will be able to find out IR frequencies of different functional groups. And thus, they will be able to find out functional groups present in the compound.</li> <li>❖ Students will understand principle of NMR spectroscopy and will understand various terms used in NMR spectroscopy. They will learn measurement of chemical shift and coupling constants.</li> <li>❖ Students will be able to interpret the NMR data and they will be able to use it for determination of structure of organic compound.</li> </ul>

		<ul style="list-style-type: none"> <li>❖ Students will be able to determine structure of simple organic compounds on the basis of spectral data such as <math>\lambda</math> max values, IR frequencies, chemical shift (<math>\delta</math> values)</li> </ul>
	<b>CH-504</b> Industrial Chemistry	<ul style="list-style-type: none"> <li>❖ Basic requirements of Chemical Industry, different terms, operations and processes involved in chemical Industry.</li> <li>❖ Describe Copy Right Act, Patent Act and Trade Marks, Bureau of Indian Standards (BIS) and International Organization for Standardization (ISO).</li> <li>❖ Basic requirements, raw materials, different processes and operations involved in Sugar Industry and also different grades of sugar and uses of by-products of sugar industry.</li> <li>❖ Importance of fermented products, basic requirements, theory and process of alcohol making, fractional distillation and various terms involved in Fermentation Industry.</li> <li>❖ Understand Occurrence of Petroleum, theories of formation of Petroleum and different terms Viz. Knocking, Anti-Knock Compounds, Octane number, Cetane number, Gasohol and Power alcohol etc.</li> <li>❖ Manufacturing processes involved in Industrial Organic Synthesis such as Methanol, Isopropanol, Glycerol, Acetylene and Aromatic hydrocarbon i.e. Toluene from petroleum with their uses.</li> </ul>
	<b>CH-604</b> Chemistry of Industrially Important Products	<ul style="list-style-type: none"> <li>❖ Describe the industrial production of a number of important organic and inorganic compounds / chemicals and products of end use.</li> <li>❖ Gain comprehensive knowledge of cutting-edge developments in a field of different chemical industries.</li> <li>❖ Importance of Cosmetics Industry and a general study including preparation and uses of the Hair dye, hair spray, shampoo, suntan lotions, lipsticks, talcum powder, nail enamel, creams (cold, and shaving creams).</li> <li>❖ Perfumes and identify the distinguishing features of its components and also an essential oils and their importance in cosmetic industries with reference to Eugenol, Geraniol, sandalwood oil, eucalyptus, rose oil, 2- phenyl ethyl alcohol, Jasmone, Civetone, Muscone etc.</li> <li>❖ Know about pesticides both natural and synthetic, benefits and adverse effects of it, also synthesis, manufacture and uses of pesticides viz. Organochlorines (DDT, Gammexene,); Organophosphates (Malathion, Parathion); Anilides (Alachlor and Butachlor).</li> <li>❖ Definition, classification, raw material used in soaps</li> </ul>

		<p>and detergents, reaction involved in it, Manufacture of Soaps and cleansing action of soaps and detergents.</p> <ul style="list-style-type: none"> <li>❖ Definition, properties of good dyes, relation between colour and constitution, classification of dyes according to their mode of application and chemical constitution.</li> <li>❖ Importance's, definition and meaning of the different terms involved in Drugs and Pharmaceuticals Industry and also synthesis, uses, properties and industrial manufacture of Paracetamol, Aspirin, and Chloramphenicol.</li> </ul>
	<b>CH-505</b> Analytical Instrumentation	<ul style="list-style-type: none"> <li>❖ Explain the fundamentals of analytical methods and instruments for qualitative and quantitative Analysis.</li> <li>❖ Express the role of analytical chemistry in science.</li> <li>❖ Students will be able to function as a member of an interdisciplinary problem solving team.</li> </ul>
	<b>CH-605</b> Analytical Techniques	<ul style="list-style-type: none"> <li>❖ Compare the Instrumental methods and non instrumental methods and there advantages.</li> <li>❖ Solve the problem of detection and separation using analytical instruments. Students will be able to explore new areas of research in both chemistry and allied fields of science and technology.</li> <li>❖ Students will be able to explain why chemistry is an integral activity for addressing social, economic, and environmental problems</li> </ul>
	<b>CH-506(A)</b> Biochemistry	<ul style="list-style-type: none"> <li>❖ Students will study biomolecules like carbohydrates, amino acids, proteins, enzymes, lipids and nucleic acids.</li> <li>❖ Students will understand definitions, classifications and examples of these biomolecules.</li> <li>❖ Students will learn the detailed structure of these biomolecules along with types of bonds or linkages present in their molecules.</li> <li>❖ Students will learn the chemical properties of these biomolecules and the action of some reagents on them in the form of reactions or graphical presentation.</li> <li>❖ Students will understand biochemical energetics of common energy rich compounds along with hydrolytic reactions.</li> <li>❖ Students will learn metabolisms like Glycolysis, TCA cycle, Transamination, deamination and <math>\beta</math>- oxidation through reactions, enzymes involved, outlines and energetics</li> </ul>
	<b>CH-606(A)</b> Polymer Chemistry	<ul style="list-style-type: none"> <li>❖ Define terms like monomer, polymer, polymerization, polydispersity index, etc., classify polymers based on their origin, native backbone chain, and thermal response.</li> <li>❖ Know glass transition temperature and its determination, various ways to express molecular weights of polymers and polydispersity index.</li> </ul>

		<ul style="list-style-type: none"> <li>❖ Identify different mechanisms of polymerizations viz. free radical, ionic, and condensation polymerizations.</li> <li>❖ Distinguish techniques of polymerization based on physical conditions required for the preparation of polymers in laboratory or industry.</li> <li>❖ Familiar with preparation, properties, and applications of industrially important selected polymers.</li> </ul>
	<b>CH-507 &amp; CH-607</b> Physical Chemistry Practical	<ul style="list-style-type: none"> <li>❖ Students will get basic analytical and technical skills to work effectively in the various fields of chemistry.</li> <li>❖ Students will be able to calibrate and handle instruments like conductometer, potentiometer, pH meter, colorimeter, spectrophotometer, polarimeter.</li> <li>❖ They have ability to perform accurate quantitative measurements with an understanding of the theory and use of contemporary chemical instrumentation, interpret experimental results, perform calculations on these results and draw reasonable, accurate conclusions.</li> <li>❖ They get skills required in chemistry such as the proper handling of apparatus and chemicals.</li> <li>❖ They will have ability to present scientific and technical information resulting from laboratory experimentation in both written and oral formats. Students will apply conductometer, potentiometer, pH meter, colorimeter, spectrophotometer, polarimetry techniques for analysis and measurement.</li> </ul>
	<b>CH-508 &amp; CH-608</b> Inorganic Chemistry Practical	<ul style="list-style-type: none"> <li>❖ Student will be able to determine cation &amp; anion from inorganic mixtures by using qualitative analysis.</li> <li>❖ Student will be able to determine metal from ore &amp; alloys.</li> <li>❖ Students will be able to design &amp; carry out scientific experiments as well as accurately record &amp; analyze the results of experiments.</li> <li>❖ Students will be able to handle colorimeter for estimation of metal ions.</li> </ul>
	<b>CH-509 &amp; CH-609</b> Organic Chemistry Practical	<ul style="list-style-type: none"> <li>❖ Separate and analyze binary water insoluble mixture. Separate and analyze binary water soluble mixture.</li> <li>❖ Estimate - Acetamide, Glucose and Glycine by volumetric method, Estimate basicity of various acids.</li> <li>❖ Synthesis of various organic compounds through greener alternatives.</li> <li>❖ Understand Thin Layer Chromatographic techniques and physical constant.</li> <li>❖ Understand the purification technique use in organic chemistry.</li> </ul>
<b>Outcome of Courses-Physical Sciences</b>		
	<b>PHY-101:Basic Mechanics:</b>	<ul style="list-style-type: none"> <li>❖ Upon completion of this course, students are expected to understand the following concepts:</li> <li>❖ Understand the role of vectors and coordinate systems in Physics, solve Ordinary Differential Equations,</li> </ul>

		<p>laws of motion and their application to various dynamical situations.</p> <ul style="list-style-type: none"> <li>❖ Learn the concept of Inertial reference frames their transformations. Also, the concept of conservation of energy, momentum, angular momentum and apply them to basic problems. Understand the phenomena of elastic and in-elastic collisions, phenomenon of simple harmonic motion, understand angular momentum of a system of particle, understand concept of Geosynchronous orbits .</li> <li>❖ Understand special theory of relativity - special relativistic effects and their effects on the mass and energy of a moving object. In the laboratory course, after acquiring knowledge of how to handle measuring instruments (like screw gauge, Vernier calipers, travelling microscope) student shall embark on verifying various principles and associated measurable parameters.</li> </ul>
	<b>PHY102:Dynamics</b>	<ul style="list-style-type: none"> <li>❖ At the end of the course student will be able</li> <li>❖ To apply elastic analysis to study the fracture mechanics.</li> <li>❖ To apply linear elasticity in the design and analysis of structures such as beams, plates, shells and sandwich composites.</li> <li>❖ Also to apply hyper elasticity to determine the response of elastomer-based objects and to analyze the structural sections subjected to torsion.</li> </ul>
	<b>PHY-231:Waves and Optics:</b>	<ul style="list-style-type: none"> <li>❖ On successfully completing the requirements of this course, the students will have the skill and knowledge to Understand Simple harmonic oscillation and superposition principle. Understand the importance of classical wave equation in transverse and longitudinal waves and solving a range of physical systems on its basis.</li> <li>❖ Understand Concept of normal modes in transverse and longitudinal waves: their frequencies and configurations. Understand Interference as superposition of waves from coherent sources derived from same parent source. Demonstrate understanding of Interference experiments: Young's Double Slit, Fresnel's biprism, Lloyd's Mirror, Newton's Rings. Demonstrate basic concepts of Diffraction: Superposition of wavelets diffracted from apertures. Understand Fraunhofer Diffraction from a slit. Concept of Polarization.</li> <li>❖ In the laboratory course, student will gain hands-on experience of using various optical instruments and making finer measurements of wavelength of light</li> </ul>

		using Newton Rings experiment, Fresnel Biprism etc. Resolving power of optical equipment can be learnt first-hand. The motion of coupled oscillators, study of Lissajous figures and behaviour of transverse, longitudinal waves can be learnt in this laboratory course.
	<b>PHY:202: Electromagnetics:</b>	<ul style="list-style-type: none"> <li>❖ Understand the basic mathematical concepts related to electromagnetic vector fields. . Apply the principles of electrostatics to the solutions of problems relating to electric field and electric potential, boundary conditions and electric energy density.</li> <li>❖ Apply the principles of magnetostatics to the solutions of problems relating to magnetic field and magnetic potential, boundary conditions and magnetic energy density. Understand the concepts related to Faraday's law, induced emf and Maxwell's equations. Apply Maxwell's equations to solutions of problems relating to transmission lines and uniform plane wave propagation.</li> </ul>
	<b>PHY:202: Modern Physics:</b>	<ul style="list-style-type: none"> <li>❖ This course will prepare the students to appreciate and comprehend the following aspects: Understand historical basis of quantum mechanics.</li> <li>❖ Explain how quantum mechanical concepts answer some of unanswered questions of Classical mechanics such as photoelectric effect, Compton scattering etc. Explain inadequacy of Rutherford model, discrete atomic spectra from hydrogen like atoms and its explanation on quantum mechanical basis.</li> <li>❖ Demonstrate ability to apply wave-particle duality and uncertainty principle to solve physics problems. Explain two slit interference experiment with photons, atoms and particles establishing non-deterministic nature of QM. Set up Schrodinger equation for behavior of a particle in a field of force for simple potential and find wave solutions establishing wave-like nature of particles.</li> <li>❖ Demonstrate ability to solve 1-D quantum problems including the quantum particle in a box, a well and the transmission and reflection of waves. Explain nuclear structure, binding energy, nuclear models and impossibility of an electron being in the nucleus as a consequence of the uncertainty principle.</li> <li>❖ Understand radioactivity, radioactive decays, apply radioactive laws to solve related physics problems and Pauli's prediction of neutrino, and the subsequent discovery.</li> </ul>
	<b>PHY:202: Electricity</b>	❖ At the end of this course, students will be able to Gain



	<b>and Magnetism :</b>	<p>the concepts of vector analysis. Apply Gauss's law of electrostatics to solve a variety of problems.</p> <ul style="list-style-type: none"> <li>❖ Articulate knowledge of electric current, resistance and capacitance in terms of electric field and electric potential.</li> <li>❖ Calculate the magnetic forces that act on moving charges and the magnetic fields due to currents (Biot-Savart and Ampere laws); Gain brief idea of dia, para and ferro-magnetic materials.</li> <li>❖ Understand the concepts of induction and selfinduction, to solve problems using Faraday's and Lenz's laws. Have an introduction to Maxwell's equations.</li> <li>❖ In the laboratory course the student will get an opportunity to verify network theorems and study different circuits such as RC circuit, LCR circuit. Also, different methods to measure low and high resistance, capacitance etc.</li> </ul>
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	<b>PHY-201:Electromagnetis</b>	<ul style="list-style-type: none"> <li>❖ Upon successful completion, students will have the knowledge and skills to:Describe and understand the basic concepts underpinning electricity and magnetism such as potential and field.</li> <li>❖ Understand the relationship between electric and magnetic fields. Calculate the electrostatic and magnetic fields produced by static and moving charges in a variety of simple configurations. See how the theory describing electricity and magnetism relates to areas in physics such as gravitation, fluids, thermal physics and quantum mechanics. Identify and apply appropriate theoretical techniques to solve a range of different problems in electromagnetism.</li> <li>❖ Apply those theoretical techniques to solve problems in any context underpinned by coupled linear differential equations.Design, set up, and carry out experiments; analyse data recognising and accounting for errors; and compare with theoretical predictions.</li> </ul>
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**F.Y.B. Sc. Zoology Semester I**

	<b>Zoo:101:Invertebrate Zoology</b>	<ul style="list-style-type: none"> <li>❖ To provide thorough knowledge about external morphological features of grasshopper</li> <li>❖ To develop an understanding about internal structural and functional details of grasshopper including its reproductive system and life cycle.</li> <li>❖ Learning outcomes:</li> <li>❖ After successful completion of this course, students</li> </ul>
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		<ul style="list-style-type: none"> <li>❖ are expected to:</li> <li>❖ Acquire knowledge about external morphological features of grasshopper</li> <li>❖ Understand internal structural and functional details of grasshopper</li> <li>❖ Develop deeper knowledge about reproduction and life cycle of grasshopper</li> </ul>
	<b>Zoo-102: Grasshopper-The Nonchordate</b>	<p><b>Course objective:</b></p> <ul style="list-style-type: none"> <li>❖ To understand habit, habitat and taxonomic status of invertebrate animals</li> <li>❖ To explain the basic aspects of structural and functional details of grasshopper</li> <li>❖ Learning outcomes: After successful completion of this course, students are</li> <li>❖ Expected to: Know the basic concept of Invertebrate Zoology.</li> <li>❖ Understand common and unknown invertebrate species.</li> <li>❖ Acquire practical knowledge about structural and functional aspects of grasshopper</li> </ul>
	<b>Zoo: 201: Vertebrate Zoology</b>	<p><b>Course objective:</b></p> <ul style="list-style-type: none"> <li>❖ To understand General Characters, habit, habitat and Distribution of vertebrate animals.</li> <li>❖ To understand the classification of vertebrate animals.</li> <li>❖ To learn about general topics like</li> <li>❖ Accessory Respiratory Organs</li> <li>❖ Migration in Fishes</li> <li>❖ Metamorphosis in frog and Parental care in Amphibians.</li> <li>❖ Poisonous and non-poisonous snakes, Importance of snake venom.</li> <li>❖ Flight adaptations in birds, Migration in birds .Origin and Evolution of mammals</li> <li>❖ Learning outcomes:</li> <li>❖ After successful completion of this course, students are expected to:</li> <li>❖ Gain the knowledge of the systematic position, habit and habitat of vertebrate animals</li> </ul>

		<ul style="list-style-type: none"> <li>❖ Acquire the knowledge about classification of vertebrates Understand the general topics related to vertebrate animals.</li> </ul>
	<b>Zoo: 202: Frog-The Chordate</b>	<p><b>Course objective</b></p> <ul style="list-style-type: none"> <li>❖ To understand habit, habitat and taxonomic status of vertebrates</li> <li>❖ To explain the basic aspects of structural and functional details of Frog</li> <li>❖ Learning outcomes</li> <li>❖ After successful completion of this course, students are expected to:</li> <li>❖ Understand the systematic position, habit and habitat of Frog</li> <li>❖ Acquire the knowledge about structural and functional details about Frog.</li> </ul>
	<b>Zoo - 203: Practical (Corresponding to Zoo 201 &amp; 202)</b>	<ul style="list-style-type: none"> <li>❖ To acquire the practical skill about classification of Vertebrate animals</li> <li>❖ To perform mountings of various significant parts of Vertebrate animals like Fins and scales of fishes. beaks and feet in birds poisonous and non-poisonous snakes</li> <li>❖ To understand the concept of systematic or taxonomic features of vertebrate animals.</li> <li>❖ Learning outcomes:</li> <li>❖ After successful completion of this course, students are expected to:</li> <li>❖ Enlighten them with knowledge related to systematic features of vertebrate animals.</li> <li>❖ Enrich themselves with understandings of accessory organs.</li> <li>❖ Know the poisonous and nonpoisonous snakes.</li> </ul>
	<b>BOT. 101</b> Microbial diversity, Algae and Fungi	<ol style="list-style-type: none"> <li>i) Understand the diversity among Bacteria, Viruses and Algae and Fungi</li> <li>ii) Understand the salient features of Bacteria, Viruses and Algae and Fungi</li> <li>iii) Know the systematic, morphology and structure of Bacteria, Viruses, Algae and Fungi</li> <li>iv) Understand life cycle pattern of Bacteria, Viruses and Algae and Fungi</li> <li>v) Understand the useful and harmful activities of Algae and Fungi Bacteria, Viruses and Algae and Fungi.</li> </ol>

<p><b>BOT. 102</b> Plant Taxonomy</p>	<ul style="list-style-type: none"> <li>i) The students will know the systematic position of Genera, Species and Families.</li> <li>ii) know the distinguishing features of angiosperm families.</li> <li>iii) Understand the diversity of angiosperms.</li> <li>iv) The student develop knowledge about plant nomenclature</li> <li>v) Understand the comparative account among the families of angiosperms</li> <li>vi) Know the economic importance of the angiosperm plants</li> </ul>
<p><b>BOT.103</b> Practical Based on BOT. 101&amp; 102</p>	<ul style="list-style-type: none"> <li>i) Gram staining of Bacteria</li> <li>ii) Study of Viral and Bacterial disease w.r.t. causal organism, symptoms and control measures</li> <li>iii) Study of Algal and Fungal diversity w.r.t. systematic position and morphology</li> <li>iv) Study of plant families w.r.t. systematic position, morphological characters, floral formula and floral diagram</li> <li>v) Preparation of artificial key.</li> </ul>
<p><b>BOT.201</b> Diversity of Archegoniates</p>	<ul style="list-style-type: none"> <li>i) Become aware the status of higher cryptogams as a group in plant kingdom</li> <li>ii) Understand habit and habitat of higher cryptogams in the field</li> <li>iii) Understand the distinguishing features, interrelationships, phylogeny and evolutionary tendencies of selected orders with their affinities</li> <li>iv) Realize the economic importance of higher cryptogams plants</li> </ul>
<p><b>BOT. 202</b> Plant Ecology</p>	<ul style="list-style-type: none"> <li>i) Know the scope and importance of the discipline.</li> <li>ii) Understand plant communities and ecological adaptations in plants.</li> <li>iii) Learn about conservation of biodiversity.</li> <li>iv) Discover botanical regions of India and vegetation types of Maharashtra.</li> </ul>
<p><b>BOT. 203</b> Practical Based on 201 &amp; 202</p>	<ul style="list-style-type: none"> <li>i) Understand morphological diversity of Bryophytes and Pteridophytes.</li> <li>ii) Know the evolution of Bryophytes and Pteridophytes.</li> <li>iii) Understand the economic importance of Bryophytes and Pteridophytes</li> <li>iv) Demonstration, working and uses of ecological instruments</li> <li>v) To know the soil texture, water holding capacity, PH and test for carbonate, nitrate and sulphate.</li> <li>vi) Study of morphological and anatomical adaptation in locally available hydrophytes and Xerophyte.</li> <li>vii) To determine the minimum size of quadrat by 'Species area curve method.</li> </ul>

**The Principal,**

**Uttamrao Patil Arts and Science College,Dahiwel**