

सावित्रीबाई फुले पुणे विद्यापीठ, पुणे

मराठी विषयाचा पुनर्रचित अभ्यासक्रम- जून २०२० पासून

द्वितीय वर्ष कला (S. Y. B. A.) मराठी

निवड आधारित श्रेयांक पद्धत

Choice Based Credit System [CBCS]

सत्र	विषयाचे नाव	संकेतांक	पूर्वीचे नाव
पहिले	भाषिक कौशल्यविकास आणि आधुनिक मराठी साहित्यप्रकार : कादंबरी	[CC - 1 C (3)]	नियमित अभ्यासक्रम G2
दुसरे	भाषिक कौशल्यविकास आणि आधुनिक मराठी साहित्यप्रकार : ललितगद्य	[CC - 1 D (3)]	
पहिले	व्यावहारिक व उपयोजित मराठी - भाग ३	[CC - 1 C (3)]	पर्यायी अभ्यासक्रम G2
दुसरे	व्यावहारिक व उपयोजित मराठी - भाग ४	[CC - 1 D (3)]	
पहिले	आधुनिक मराठी साहित्य : प्रकाशवाटा	[DSE 1 A (3)]	S1
दुसरे	मध्ययुगीन मराठी साहित्य : निवडक मध्ययुगीन गद्य, पद्य	[DSE 2 A (3)]	
पहिले	साहित्यविचार	[DSE 1 B (3)]	S2
दुसरे	साहित्य समीक्षा	[DSE 2 B (3)]	
पहिले	प्रकाशनव्यवहार आणि संपादन	SEC 2 A (2)	DSE विषयांशी निगडीत अनिवार्य
दुसरे	उपयोजित लेखनकौशल्ये	SEC 2 B (2)	



प्रश्नपत्रिकेचे स्वरूप

- भाषिक कौशल्यविकास आणि आधुनिक मराठी साहित्यप्रकार : कादंबरी [CC - I C (3)] (सत्र १)
- भाषिक कौशल्यविकास आणि आधुनिक मराठी साहित्यप्रकार : ललितगद्य [CC - I D (3)] (सत्र २)

विद्यापीठ सत्र परीक्षा		
वेळ : ३ तास	घटकनिहाय प्रश्न तपशील	गुण : ७०
प्रश्न क्रमांक		गुण
प्रश्न १ ला	५ पैकी ३ प्रश्नांची उत्तरे प्रत्येकी ५० शब्दांपर्यंत लिहा. (घटक १ व २)	१५
प्रश्न २ रा	३ पैकी २ प्रश्नांची उत्तरे प्रत्येकी १५० शब्दांपर्यंत लिहा. (घटक १)	२०
प्रश्न ३ रा	३ पैकी २ उपप्रश्नांची उत्तरे प्रत्येकी २०० शब्दांपर्यंत लिहा. (घटक २)	२०
प्रश्न ४ था	२ पैकी १ प्रश्नाचे उत्तर ३०० शब्दांपर्यंत लिहा. (घटक २)	१५
सत्र परीक्षा एकूण गुण		७०
अंतर्गत मूल्यमापन		
(घटक १)		
१	अभ्यासेतर-अभ्यासपूरक उपक्रम : जिल्हा ते आंतरराष्ट्रीय स्तरावरील यशस्वी सहभाग / साहित्यविषयक विशेष योगदान / अभ्याससहल / क्षेत्रभेट / अहवाल लेखन	१०
२	प्रकल्प कार्य / सादरीकरण / स्वाध्याय / चर्चासत्र / गटचर्चा / अभिवाचन	
चाचणी (घटक २)		२०
सत्र परीक्षा आणि अंतर्गत मूल्यमापन एकूण गुण		१००
विशेष सूचना :		
<ul style="list-style-type: none"> • अंतर्गत मूल्यमापनाचे नियोजन महाविद्यालयाने करावे. • विद्यार्थ्यांचे अंतर्गत मूल्यमापनविषयक लेखन / तपशील विद्यापीठाच्या निर्देशानुसार, विहित कालावधीपर्यंत महाविद्यालयाकडे जमा असणे आवश्यक आहे. • विद्यापीठाच्या निर्देशानुसार विहित मुदतीत गुण विद्यापीठाकडे पाठवावे. 		



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१८. मध्ययुगीन साहित्याविषयी, डॉ. सतीश बडवे, मीरा बुक्स व पब्लिकेशन, औरंगाबाद.
 १९. संत साहित्य समीक्षेचे बीजप्रवाह, डॉ. सतीश बडवे, गुरुकुल प्रतिष्ठान, पुणे.
 २०. मराठी संत कवयित्रींचा इतिहास, डॉ. विद्यासागर पटांगणकर
 २१. वारकरी संप्रदाय : साहित्य व तत्त्वज्ञान, डॉ. विद्यासागर पटांगणकर
 २२. मध्ययुगीन मराठी वाङ्मयाचा इतिहास, डॉ. विद्यासागर पटांगणकर
 २३. तुका झाला पांडुरंग, दीपक बिचे
 २४. संत शिरोमणी बाबा नामदेव, दीपक बिचे

प्रश्नपत्रिकेचे स्वरूप

- आधुनिक मराठी साहित्य : प्रकाशवाटा - डॉ. प्रकाश आमटे [DSE 1 A (3)] (सत्र १)
- मध्ययुगीन मराठी साहित्य : निवडक मध्ययुगीन गद्य, पद्य [DSE 2 A (3)] (सत्र २)

विद्यापीठ सत्र परीक्षा		
वेळ : ३ तास	घटकनिहाय प्रश्न तपशील	गुण : ७०
प्रश्न क्रमांक		गुण
प्रश्न १ ला	५ पैकी ३ प्रश्नांची उत्तरे प्रत्येकी ५० शब्दांपर्यंत लिहा. (घटक १ व २)	१५
प्रश्न २ रा	३ पैकी २ प्रश्नांची उत्तरे प्रत्येकी १५० शब्दांपर्यंत लिहा. (घटक १)	२०
प्रश्न ३ रा	३ पैकी २ उपप्रश्नांची उत्तरे प्रत्येकी २०० शब्दांपर्यंत लिहा. (घटक २)	२०
प्रश्न ४ था	२ पैकी १ प्रश्नाचे उत्तर ३०० शब्दांपर्यंत लिहा. (घटक २)	१५
सत्र परीक्षा एकूण गुण		७०
अंतर्गत मूल्यमापन		
(घटक-१)		
१. अभ्यासेतर-अभ्यासपूरक उपक्रम : जिल्हा ते आंतरराष्ट्रीय स्तरावरील यशस्वी सहभाग / साहित्यविषयक विशेष योगदान / अभ्याससहल / क्षेत्रभेट / अहवाल लेखन		१०
२. प्रकल्प कार्य / सादरीकरण / स्वाध्याय / चर्चासत्र / गटचर्चा / अभिवाचन		
चाचणी (घटक २ आणि ३)		२०
सत्र परीक्षा आणि अंतर्गत मूल्यमापन एकूण गुण		१००
विशेष सूचना :		
<ul style="list-style-type: none"> • अंतर्गत मूल्यमापनाचे नियोजन महाविद्यालयाने करावे. • विद्यार्थ्यांचे अंतर्गत मूल्यमापनविषयक लेखन / तपशील विद्यापीठाच्या निर्देशानुसार, विहित कालावधीपर्यंत महाविद्यालयाकडे जमा असणे आवश्यक आहे. • विद्यापीठाच्या निर्देशानुसार विहित मुदतीत गुण विद्यापीठाकडे सादर करावे. 		

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प्रश्नपत्रिकेचे स्वरूप

- साहित्यविचार [DSE 1 B(3)]
- साहित्य समीक्षा [DSE 2 B(3)]

विद्यापीठ सत्र परीक्षा		
वेळ : ३ तास	घटकनिहाय प्रश्न तपशील	गुण : ७०
प्रश्न क्रमांक		गुण
प्रश्न १ ला	३ पैकी २ प्रश्नांची उत्तरे प्रत्येकी ५० शब्दांपर्यंत लिहा. (घटक १, २, ३)	१०
प्रश्न २ रा	३ पैकी २ प्रश्नांची उत्तरे प्रत्येकी १५० शब्दांपर्यंत लिहा. (घटक १)	२०
प्रश्न ३ रा	३ पैकी २ प्रश्नांची उत्तरे प्रत्येकी २०० शब्दांपर्यंत लिहा. (घटक २)	२०
प्रश्न ४ था	३ पैकी २ प्रश्नांचे उत्तर २०० शब्दांपर्यंत लिहा. (घटक ३)	२०
सत्र परीक्षा एकूण गुण		७०
अंतर्गत मूल्यमापन		
(घटक-१)		
१	अभ्यासेतर - अभ्यासपूरक उपक्रम : जिल्हा ते आंतरराष्ट्रीय स्तरावरील यशस्वी सहभाग / साहित्यविषयक विशेष योगदान / अभ्याससहल-क्षेत्रभेट अहवाल लेखन / प्रकल्प कार्य / सादरीकरण / स्वाध्याय / चर्चासत्र / गटचर्चा / अभिवाचन	१०
चाचणी (घटक २ आणि ३)		२०
सत्र परीक्षा आणि अंतर्गत मूल्यमापन एकूण गुण		१००
विशेष सूचना :		
<ul style="list-style-type: none"> • अंतर्गत मूल्यमापनाचे नियोजन महाविद्यालयाने करावे. • विद्यार्थ्यांचे अंतर्गत मूल्यमापनविषयक लेखन / तपशील विद्यापीठाच्या निर्देशानुसार, विहित कालावधीपर्यंत महाविद्यालयाकडे जमा असणे आवश्यक आहे. • विद्यापीठाच्या निर्देशानुसार विहित मुदतीत गुण विद्यापीठाकडे पाठवावे. 		



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सावित्रीबाई फुले पुणे विद्यापीठ, पुणे

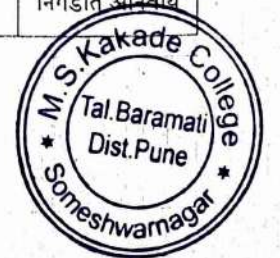
मराठी विषयाचा पुनर्रचित अभ्यासक्रम - जून २०२१ पासून

तृतीय वर्ष कला (T.Y.B.A.) मराठी

निवड आधारित श्रेयांक पद्धत

Choice Based Credit System [CBCS]

सत्र	विषयाचे नाव	संकेतांक	पूर्वीचे नाव
पहिले	भाषिक कौशल्यविकास आणि आधुनिक मराठी साहित्यप्रकार : प्रवासवर्णन	[CC - 1 E (3)]	नियमित अभ्यासक्रम
दुसरे	भाषिक कौशल्यविकास आणि आधुनिक मराठी साहित्यप्रकार : कविता	[CC - 1 F (3)]	G3
पहिले	व्यावहारिक व उपयोजित मराठी : भाग ५	[CC - 1 E (3)]	पर्यायी अभ्यासक्रम
दुसरे	व्यावहारिक व उपयोजित मराठी : भाग ६	[CC - 1 F (3)]	G3
पहिले	मध्ययुगीन मराठी वाङ्मयाचा स्थूल इतिहास : प्रारंभ ते इ.स. १६००	[DSE 1 C (3+1)]	S3
दुसरे	मध्ययुगीन मराठी वाङ्मयाचा स्थूल इतिहास : इ.स. १६०१ ते इ.स. १८१७	[DSE 1 D (3+1)]	
पहिले	वर्णनात्मक भाषाविज्ञान : भाग १	[DSE 2 C (3)+1]	S4
दुसरे	वर्णनात्मक भाषाविज्ञान : भाग २	[DSE 2 D (3)+1]	
पहिले	कार्यक्रम संयोजनातील भाषिक कौशल्ये : भाग १	[SEC 2 C (2)]	DSE विषयाशी निगडित अनिवार्य
दुसरे	कार्यक्रम संयोजनातील भाषिक कौशल्ये : भाग २	[SEC 2 D (2)]	



१५. कविता संदर्भ आणि दृष्टिकोन, आशुतोष पाटील, अक्षर वाडमय प्रकाशन, पुणे
 १६. कामगार कवितेतील सामाजिक जाणिवा, डॉ. दिलीप पवार, सुगावा प्रकाशन, पुणे
 १७. मराठी वाङ्मयाची वाटचाल: स्वरूप व संकल्पना, शब्दालय प्रकाशन, श्रीरामपूर.
 १८. कवितेचं अंतःस्वर, देवानंद सोनटक्के
 १९. नव जग, नवी कविता, विश्राम गुप्ते, संस्कृती प्रकाशन, पुणे
 २०. <https://shabdakosh.marathi.gov.in/ananya-glossary>
 २१. <https://shabdakosh.marathi.gov.in/>
 २२. <https://directorate.marathi.gov.in/>
 २३. <https://sahitya.marathi.gov.in/>
 २४. <https://rmvs.marathi.gov.in/>
 २५. <https://vishwakosh.marathi.gov.in/>
 २६. <http://sahitya-akademi.gov.in/>



प्रश्नपत्रिकेचे स्वरूप

- भाषिक कौशल्यविकास आणि आधुनिक मराठी साहित्यप्रकार : प्रवासवर्णन [CC - 1 E (3)] (सत्र १)
- भाषिक कौशल्यविकास आणि आधुनिक मराठी साहित्यप्रकार : कविता [CC - 1 F (3)] (सत्र २)

विद्यापीठ सत्र परीक्षा		
वेळ : ३ तास	घटकनिहाय प्रश्न तपशील	गुण : ७०
प्रश्न क्रमांक		गुण
प्रश्न १ ला	५ पैकी ३ प्रश्नांची उत्तरे प्रत्येकी ५० शब्दांपर्यंत लिहा. (घटक १ व २)	१५
प्रश्न २ रा	३ पैकी २ प्रश्नांची उत्तरे प्रत्येकी २०० शब्दांपर्यंत लिहा. (घटक १)	२०
प्रश्न ३ रा	३ पैकी २ प्रश्नांची उत्तरे प्रत्येकी २०० शब्दांपर्यंत लिहा. (घटक २)	२०
प्रश्न ४ था	२ पैकी १ प्रश्नाचे उत्तर ३०० शब्दांपर्यंत लिहा. (घटक २)	१५
सत्र परीक्षा एकूण गुण		७०
अंतर्गत मूल्यमापन		
(घटक १)		
अभ्यासेतर-अभ्यासपूरक उपक्रम : महाविद्यालयातील विविध उपक्रमातील सहभाग / साहित्यविषयक विशेष योगदान / अभ्याससहल / क्षेत्रभेट / अहवाल लेखन / प्रकल्प कार्य / सादरीकरण / स्वाध्याय / चर्चासत्र / गटचर्चा / अभिवाचन (यापैकी कोणतेही एक)		१०
चाचणी (घटक २)		२०
सत्र परीक्षा आणि अंतर्गत मूल्यमापन एकूण गुण		१००
विशेष सूचना :		
<ul style="list-style-type: none"> • अंतर्गत मूल्यमापनाचे नियोजन महाविद्यालयाने करावे. • विद्यार्थ्यांचे अंतर्गत मूल्यमापनविषयक लेखन / तपशील विद्यापीठाच्या निर्देशानुसार, विहित कालावधीपर्यंत महाविद्यालयाकडे जमा असणे आवश्यक आहे. • विद्यापीठाच्या निर्देशानुसार विहित मुदतीत गुण विद्यापीठाकडे पाठवावे. 		

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अनुक्रम
बी. ए.द्वितीय वर्ष कला/बी. एस्सी. द्वितीय वर्ष विज्ञान
तृतीय एवं चतुर्थ अयन (Third & Fourth Semester)
शैक्षिक वर्ष 2020-21 से

कोर्स नं.	तृतीय एवं चतुर्थ अयन	क्रेडिट	पृष्ठ क्रमांक
बी. ए. द्वितीय वर्ष कला			
CC-1C (G-2)	आधुनिक काव्य, कहानी तथा व्यावहारिक हिंदी (तृतीय अयन)	3	03
CC-1D (G-2)	आधुनिक हिंदी व्यंग्य साहित्य तथा व्यावहारिक हिंदी (चतुर्थ अयन)	3	05
बी. ए. द्वितीय वर्ष कला –प्रयोजनमूलक हिंदी (वैकल्पिक)			
CC-1C (G-2)	प्रयोजनमूलक हिंदी : अनुप्रयोग (तृतीय अयन)	3	07
CC-1D (G-2)	जनसंचार माध्यम और हिंदी (चतुर्थ अयन)	3	09
बी. ए. द्वितीय वर्ष कला (हिंदी विशेष)			
SEC-2A	अनुवाद स्वरूप एवं व्यवहार (तृतीय अयन)	2	11
SEC-2B	माध्यम लेखन (चतुर्थ अयन)	2	12
बी. ए. द्वितीय वर्ष कला (हिंदी विशेष)			
DSE-1A (S-1)	काव्यशास्त्र (सामान्य) (तृतीय अयन)	3	14
DSE-1B (S-1)	साहित्य के भेद (चतुर्थ अयन)	3	16
DSC-2A (S-2)	मध्ययुगीन काव्य तथा उपन्यास साहित्य (तृतीय अयन)	3	18
DSC-2B (S-2)	मध्ययुगीन काव्य तथा नाटक साहित्य (चतुर्थ अयन)	3	21
बी. एस्सी. द्वितीय वर्ष विज्ञान (सामान्य)General			
AECC-2A	हिंदी काव्य तथा कहानी साहित्य (तृतीय अयन)	2	26
AECC-2B	हिंदी काव्य तथा कहानी साहित्य (चतुर्थ अयन)	2	28



बी. ए. द्वितीय वर्ष कला (शैक्षिक वर्ष 2020-2021 से)

तृतीय अयन (Third Semester)

पाठ्यचर्या : DSC - 1A (S-1) काव्यशास्त्र (सामान्य)

उकमाक (Credit)

उददेश्य :

1. भारतीय काव्यशास्त्र का परिचय देना।
2. काव्य परिभाषा, तत्व आदि अवगत कराना।
3. काव्य के तत्व, शब्द-शक्तियों का परिचय देना।
4. रस का स्वरूप समझाना।
5. भारतीय काव्यशास्त्र में रुचि पैदा करना तथा आलोचनात्मक दृष्टि को विकसित कराना।

इकाई	पाठ्यविषय	तासिकाएँ
इकाई-I	काव्य परिभाषा (संस्कृत, हिंदी, अंग्रेजी) काव्य हेतु- प्रतिभा, व्युत्पत्ति, अभ्यास, समाधि। काव्य प्रयोजन (भारतीय)	15 तासिकाएँ
इकाई-II	काव्य के तत्व- भाव तत्व, बुद्धि तत्व, कल्पना तत्व, शैली तत्व। शब्द-शक्ति- परिभाषा स्वरूप, शब्द-शक्तियों का सोदाहरण परिचय - अभिधा, लक्षणा, व्यंजना।	15 तासिकाएँ
इकाई-III	रस- परिभाषा, स्वरूप रस के अंग- स्थायी भाव, विभाव, अनुभाव, संचारी भाव। रसों का सोदाहरण परिचय - शृंगार, वीर, हास्य, करुण।	15 तासिकाएँ

पूर्णाक : 75

आंतरिक मूल्यांकन : 23 अंक (लघुतरी परीक्षा- 13 अंक, शोध परियोजना/समूह परियोजना/मौखिक प्रस्तुति/क्षेत्रीय अध्ययन - 10 अंक)

सत्रांत परीक्षा : 52 अंक

प्रश्न पत्र का प्रारूप (शैक्षिक वर्ष 2020-21 से आगे)

समय : 3 घंटे

अंक : 52

प्रश्न 1. प्रथम इकाई पर चार में से कोई दो प्रश्न।

14 अंक

S.Y.B.A./S.Y.B.Sc. Syllabus/2020/Hindi/BOS Chairman/Dist.Pune

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बी. ए. तृतीय वर्ष कला (शैक्षिक वर्ष 2021-2022 से)

पंचम अयन (Fifth Semester)

पाठ्यचर्या : Discipline Specific Elective 2 C (S4) भाषाविज्ञान (सामान्य परिचय)

3 कर्मांक (3 Credit) + 1*

उद्देश्य :

1. भाषाविज्ञान के स्वरूप का परिचय देना।
2. छात्रों को भाषाविज्ञान की व्याप्ति समझाना।
3. भाषाविज्ञान के अध्ययन की दिशाओं का परिचय देना।
4. भाषाविज्ञान के अनुप्रयोगात्मक पक्ष को समझाना।
5. साहित्य-अध्ययन में भाषाविज्ञान की उपयोगिता समझाना।

इकाई	पाठ्यविषय	तासिकाएँ
इकाई-I	भाषा विज्ञान का नामकरण और परिभाषा, भाषाविज्ञान की शाखाएँ। भाषा विज्ञान का अन्य शाखाओं से संबंध : भाषा विज्ञान और व्याकरण, भाषा विज्ञान और साहित्य, भाषा विज्ञान और मनोविज्ञान, भाषा विज्ञान और भूगोल।	15 तासिकाएँ
इकाई-II	ध्वनि विज्ञान : ध्वनि का अर्थ और परिभाषा। ध्वनि यंत्र। ध्वनि गुण : मात्रा, स्वराघात, बलाघात। ध्वनि परिवर्तन के कारण। रूप विज्ञान : अर्थ और परिभाषा। रूप और रूपिम में अंतर रूपिम के भेद : मुक्त रूपिम, बद्ध रूपिम, मुक्तबद्ध रूपिम, रूप परिवर्तन के कारण।	15 तासिकाएँ
इकाई-III	अर्थ विज्ञान : परिभाषा। अर्थ परिवर्तन की दिशाएँ। अर्थ परिवर्तन के कारण।	15 तासिकाएँ
Research Project	1* One Credit for Research Project, field work etc.	

अंक विभाजन - पूर्णांक : 100

आंतरिक मूल्यांकन - 30 (लघुत्तरी परीक्षा- 20, शोध परियोजना/समूह परियोजना/मौखिक प्रस्तुति/क्षेत्रीय अध्ययन- 10)

T.Y.B.A. Syllabus/2021/Hind/M.S. Chairman/JBC

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बी. ए. तृतीय वर्ष कला (शैक्षिक वर्ष 2021-2022 से)

पंचम अयन (Fifth Semester)

पाठ्यचर्या : **Discipline Specific Elective 1 C (S3)** हिंदी साहित्य का इतिहास (आदिकाल, भक्तिकाल, रीतिकाल का सामान्य परिचय) 3 कर्मांक (3 Credit) + 1*

उद्देश्य :

1. हिंदी साहित्येतिहास लेखन का परिचय देना।
2. हिंदी साहित्येतिहास के कालविभाजन तथा नामकरण का परिचय देना।
3. आदिकालीन, भक्तिकालीन, रीतिकालीन प्रमुख साहित्यिक प्रवृत्तियों, रचनाकारों और रचनाओं से परिचित कराना।

इकाई	पाठ्यविषय	तासिकाएँ
इकाई-I	हिंदी साहित्य का कालविभाजन और नामकरण। आदिकाल की पृष्ठभूमि, रासो साहित्य : पृथ्वीराज रासो और कवि चंदबरदायी का परिचय। सिद्ध और नाथ साहित्य : गोरखनाथ का साहित्यिक परिचय। अमीर खुसरो की हिंदी कविता। आदिकालीन साहित्य की विशेषताएँ।	15 तासिकाएँ
इकाई-II	भक्तिकाल के उदय के सामाजिक, सांस्कृतिक कारण। भक्ति आंदोलन का महत्व, पृष्ठभूमि। निर्गुण काव्य : संत काव्य की विशेषताएँ। संत कबीर का सामान्य परिचय। सूफी काव्य की विशेषताएँ। कवि जायसी का सामान्य परिचय। सगुण काव्य : राम काव्य की विशेषताएँ। कवि तुलसीदास का सामान्य परिचय। कृष्ण काव्य की विशेषताएँ। कवि सूरदास का सामान्य परिचय।	15 तासिकाएँ
इकाई-III	रीतिकाल की सामाजिक, राजनीतिक, सांस्कृतिक पृष्ठभूमि। रीतिकाल की प्रमुख प्रवृत्तियों का (रीतिबद्ध, रीतिसिद्ध, रीतिमुक्त) सामान्य परिचय। रीतिबद्ध कवि केशवदास का सामान्य परिचय। रीतिसिद्ध कवि बिहारी का सामान्य परिचय। रीतिमुक्त कवि घनानंद का सामान्य परिचय।	15 तासिकाएँ
Research Project	1* One Credit for Research Project, field work etc.	

पूर्णांक : 100

आंतरिक मूल्यांकन : 30 अंक (लघुवारी परीक्षा- 20 अंक) + अन्तर्गत परियोजना/समूह परियोजना/मौखिक प्रस्तुति/

क्षेत्रीय अध्ययन- 10 अंक)

T.Y.B.A. Syllabus/2021/Hindi/BS/Chaitanya/186. Doc

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10. Haigh Rupert. 2004. Legal English. Cavendish Publishing Limited
11. Henry Emery, Andy Roberts. 2008. Aviation English. Macmillan.
12. Karen Englander, James N. Corcoran. 2019. English for Research Publication Purposes. Routledge
13. Kohli Simran. 2006. The Radio Jockey Hand Book. Fusion Books
14. Leila R. Smith, Roberta Moore. 2009. English for Careers: Business, Professional, and Technical. USA. Pearson College Div.
15. Marie Drennan, Yuri Baranovsky (Author), Vlad Baranovsky. 2018. Scriptwriting for Web Series: Writing for the Digital Age. Routledge
16. Michael McCarthy Felicity O'Dell. 2004. English Phrasal Verbs in Use. Cambridge University Press
17. Michael Swan. 2001. Practical English Usage. Cornelsen & Oxford University Press
18. Paul J. Hamel. 2016. English for Better Jobs. Amazon Digital Services
19. Pease A. 1998. Body Language. London: Sheldon Press
20. Ronald Carter, Michael McCarthy. 2006. Cambridge Grammar of English: A Comprehensive Guide. Cambridge University Press

Discipline Specific Elective (DSE-1C & DSE-1D)

(Old S-3)

(w. e. f. 2021- 2022)

Title of the Paper: Appreciating Novel

(Credit-3+1=4)

Rationale:

The impact of literature in human society is undeniable. Literature acts as a form of expression for each individual author. Some books mirror society and allow us to better understand the world we live in. Literature is important because it teaches the universal human experiences. It also provides different meanings to different people or teaches different lessons to the same person at different stages of his life. The novel is one of the major forms of literature which generally deals imaginatively with human experiences, usually through a connected sequence of events involving a group of persons in a specific setting. It is a genre of fiction and fiction may be defined as a form of art. It is not a short story in prose; instead, it is actually an extensive and illustrated account of series of events that happened right through the life of a character. By studying and appreciating novel, the students can develop their interpretative abilities and enhance their analytical skills.

Objectives:



- To introduce students to the basics of novel as a literary form
- To expose students to the historical development and nature of novel
- To make students aware of different types and aspects of novel
- To develop literary sensibility and sense of cultural diversity in students
- To expose students to some of the best examples of novel

* Each semester shall have 3 credits for teaching. Each credit is equal to 15 hours, so this course shall have 45 teaching hours. In addition to that there shall be 03 hours allotted to internal evaluation. ($3 \times 15 = 45 + 3 = 48$).

* Considering the choice-based credit system (CBCS) and the semester pattern, both Semesters-V & VI will have a uniform evaluation pattern of 100 marks each. There will be an 'Internal Examination' for 30 marks and 'Semester-end Examination' for 70 marks.

* The Internal Examination for 30 marks will be conducted at college level.

- Assignment/group discussion/tutorial/seminar/oral/project for 10 marks
- A Mid-semester Written Test for 20 marks

* Semester V and VI -DSE 3+1 = One credit is for Research Project field visit/ or any other Subject-centric activities to be undertaken by the students in consultation with the concerned teacher. The concerned teachers have to evaluate and maintain the record of research project/field visit/ or any other subject-centric activity.

SEMESTER-V (DSE-1C)

Course content:

A) Theory of Novel: (20 Clock Hours)


- What is Novel? A brief history of novel as a literary form
- Elements of Novel: Theme, Characters, Plot, Structure Narrative
Techniques, Point of view, Conflict, Setting and atmosphere, Dialogue
- Types of Novels: epistolary, picaresque, bildungsroman, historical, regional,
Psychological, satire, realistic, experimental novel, science fiction
- In addition to this, other literary terms related to novel/fiction be considered
for background study

B) Silas Marner- George Eliot (25 Clock Hours)


SEMESTER-VI (DSE-1D)

A) A Farewell to Arms- Ernest Hemingway (20 Clock Hours)

B) The Painter of Signs- R. K Narayan (25 Clock Hours)


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T.Y.B.A. Economics
Skill Enhancement Course
SEC-3A: Business Management-II (Project Report)
(Course Code:)
Semester – VI

Course Learning Outcomes:

At the end of the Course, the Learner will have the following skills:

- Analytical Skills – Ability to analyze data collected and interpret in the most logical manner
- Project Report Writing Skills- Ability to comprehend and illustrate/demonstrate findings
- Presentation Skills – PPT/Poster- Ability to illustrate findings in the most appealing manner
- Leadership Skills: Ability to show leadership skills with business ideas or work on business ventures as a practical example

Unit No.	Name and Sub Titles of the Topic	No. of Lectures	Skill Enhancement Exercises
1	Case Study	2	Preview to Students for Project Report
	Guest Lecture – Local Entrepreneur – Success Stories / Struggles/ Historical Reviews/ Start-ups, etc		
2	Project Interim Presentation	14	Initial Mid Semester Presentation (15 marks)
	Detailed Study of ANY Business Enterprise under the Guidance of Subject Teacher OR Presentation of a Business Idea		
3	Project Final Presentation	14	Final Presentation Viva (35 Marks) Int. Examiner - 10 Ext. Examiner - 10 Report- 15
	Presentation with PPT or Poster or Exhibition of Business Ideas/ Reports		

Recommended Books

1. Stephen R. Covey, The 7 Habits of Highly effective People (1989), Guerilla Marketing.
2. Harvard Business Review, Management Tips, hbr.org/books.
3. Pandey, I.M. Financial Management, Persons 12th Edn.
4. Saksena, S.C., Principles of Business Management (2019), Sahitya Bhawan Publi. Agra.
5. Kalkar Parag and Ajinath Doke, Vyavsay Vyavsthapan, Nirali Prakashan, Pune.
6. Vasistha, Neeru, Principles of Management, Taxmann.
7. Hannagan, Tim. Management Concepts and Practices, Macmillan India Ltd.
8. Government of India, Official Websites.

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Savitribai Phule Pune University, Pune
Proposed Syllabus in History for TYBA (Credit system)
From the Academic Year 2021-22
Under the Faculty of Humanities
Discipline Specific Elective Courses (DSE-3C) -(3 Credit)
Semester –VI, Course Title: Applied History

Course objectives:

- 1) To Introduce students to information and importance of Applied History.
- 2) To help students understand the usefulness of history in the 21st century, its changing perspectives, the new ideas that have been invented, and the importance of History in a Competitive World.
- 3) To inform the students about the historical significance of Archaeology and Archives and the opportunities in the field of Archaeology and Archives through this course.
- 4) To inform the students about the opportunities in the field of Media, Museums through this Course.

Course Outcomes:

1. Students will be introduced to the information and importance of applied history.
2. Student will learn about the Historical significance of Archaeology and Archives and opportunities in the field of Archaeology and Archives.
3. Through this course, students will be informed about the opportunities in the field of Media, Museums.
4. Students will learn about the usefulness of history in the 21st Century, its changing Perspectives, the new ideas that have been invented, and the importance of History in a Competitive World.

Pedagogy: Lectures / Visual Presentation / Critical Analysis / Assignments / Test/ e-learning

Course Content

Unit-I. Applied History

14

- a. Applied History: Concept and Application
- b. Application of History in Various Subjects
- c. Co-relationship between Past and Present
- d. Contemporary History: Meaning and Nature



Unit-II. Archaeology and Archives

15

- a) Archaeology and Archives: Definition and Development in India
- b) Archival Sources: Ancient, Medieval and Modern- A brief survey
- c) Heritage Sites: Types, Preservation and Conservation
- d) Historical Importance of Heritage Sites and Museums

Unit-III. Mass Media and Applied History

16

- a) Mass Media: Meaning and Types
- b) Print media:
 - i). Establishment and growth of printing press in India
 - ii). Newspaper: Definition, Rise, Newspaper in India - A brief survey
- c) Electronic media: Radio, Television, E-media.

Unit-IV: Project Work /Study Tour Report/Historical Places Visit Rreport

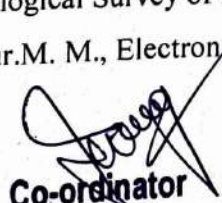
Project work and Evaluation scheme

1. Candidate shall submit Project report of minimum 2000 words i.e.10 to12 pages (Should be DTP) to the department by end of the Semester.
2. A viva-voce should be conducted before theory examination and the results should be sent to the University as immediately
3. The Distribution of Marks – For Report Writing 20 Marks and for Vice-Voce 10 Marks


Reference Books

English

- 1) Bajaj Satish K, Research Methodology in History, Amol Pub Pvt.Ltd, New Delhi.
- 2) Bobade Bhajang R., Manuscriptology from Indian Sources, Pacific Publication, Delhi.
- 3) Carr E.H., What is History, Penguin Books, Harmondsworth, 1971.
- 4) Chitnis K.N., Research Methodology in History, Navi Path, Pune1979.
- 5) Collingwood R.G., The Idea of History, Oxford university,1961.
- 6) Datta.K.B., Mass Media in India, Akansha Publishing House, New Delhi,2005.
- 7) Director General, Archaeological Remains, Monuments and Museums Part1&2, Archaeological Survey of India, New Delhi, 1964.
- 8) Gaur.M. M., Electronic Media, Omega Publication, Delhi, 2006.


Co-ordinator
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PRINCIPAL
Mugutrao Sahebrao Kakade College
Someshwarnagar, Dist. Pune-412306

Semester V
Practical Geography- I
(Techniques of Spatial Analysis) DSE- 2 C
 (No. of Credits: 04)

Workload: Six Periods per week per batch consisting of 12 Students; however the last batch needs to have more than six students.

(Examination for the course will be conducted at the end of the semester)

Objective:

1. To introduce the basic concepts and techniques of Geographical Analysis.
2. To introduce the students with SOI Toposheets and acquire the Knowledge of Toposheet interpretation.
3. To introduce the students with Weather Maps and acquire the Knowledge of its interpretation.
4. To introduce the students with Aerial Photographs and Satellite Images and acquire knowledge to interpret it .
5. To acquaint students with the spatial and structural characteristics of Practical Geography.
6. To explain the elementary and essential principles on field of practical work.

Note:

1. Students must check the practicals regularly and journal should be certified by practical in-charge and Head of the Department before examination.
2. Use of Map stencils, Log tables, Calculator, Computer, Statistical Tables are allowed at the time of examination.
3. Students without a certified journal should not be allowed for the practical examination.
4. Each of the practical batches needs a separate question paper.
5. Internal and External examiner should set jointly the question paper for each batch.

Sr. No.	Topic	Sub Topic & learning Points	No. of Lectures
1.	Introduction of S.O.I Toposheet & Relief Representation	a. Introduction of Survey of India Toposheets: Marginal Information, Conventional signs and symbols and Colours in S.O.I. Toposheets. b. Types of toposheets / Indexing of toposheets c. Methods of Relief Representation i) Qualitative: Hachures, Hill shading, Layer Tint. ii) Quantitative: Contours, Form lines, Bench Marks, Spot Heights, Triangulation Mark, Relative Height (r)	15
2.	Interpretation of S.O.I.	a. Reading of SOI toposheets from plain, plateau and Mountainous region. (Minimum one	15




	Toposheets and Data generation	Toposheet per region) b. One day field Excursion for orientation of toposheets, observation and Identification of Geographical Features and Preparation of a Brief Report	
3.	Introduction & Interpretation Weather Maps	a. Introduction to Weather Maps b. Symbols in Daily Weather Report used by India Meteorological Department (IMD) c. Isobaric Pattern d. Reading of Weather Map from i) Summer ii) Monsoon iii) Winter Season (Minimum one weather map from each season)	15
4.	Introduction & Application of GIS & Remote Sensing Techniques	a. Definition and Components of GIS b. GIS Data Types (spatial and non-spatial), Raster and Vector data c. Introduction of Aerial Photographs & Satellite Images d. Use of Computer open source Software for GIS & RS techniques in Geography	15

Reference Books:

1. Ahirrao, D. Y. and Karanjkele, E.K., 2002. Pratyakshik Bhugol, Sudarshan Publication, Nashik.
2. Buoygoot, J. 1964., An Introduction to Map work and Practical Geography, University Tutorial, London.
3. Burrough, P. A., and McDonnell, R. A., 2000. Principles of Geographical Information System, Oxford University Press.
4. Curran, P. 1989., Principles of Remote Sensing, Logman, London.
5. Dickinson, G. C., 1979, Maps and Air Photographs, Arnold Publisher, New Delhi.
6. Dr. P. G. Saptrashi and Dr. S. R. Jog., 1991, Statistical Methods (Marathi)
7. Ebdon, D., 1977. Statistics in Geography: A Practical Approach, Basil Blackwell, Oxford.
8. Kumbhar, A., 2000. Pratyakshik Bhugol, Sumeru Publications, Mumbai.
9. Lillesand, T. M. and Kiefer, R. W., 2002. Remote Sensing and Image Interpretation, John Wiley and Sons, New Delhi.
10. Lutgens, F. K. and Tarbuck, E.J., 2007. The Atmosphere. Prentice hall, Englewood Cliffs, New Jersey, USA.

Savitribai Phule Pune University

13


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PRINCIPAL
Mugtrao Sahebrao Kakade College
Someshwarnagar, Pune-412306

SYBA Syllabus
Defence and Strategic Studies

SEMESTER – III
✓ DEF: - G – 2 Chhatrapati Shivaji Maharaj as a Nation Builder
✓ DEF: - S – 1, - India's Internal Security - I
✓ DEF: - S – 2 – Geopolitics
DEF : - India and its Neighbors - I

SEMESTER – IV
✓ DEF: - G – 2 Chhatrapati Shivaji's Military System
✓ DEF: - S – 1 - India's Internal Security - II
✓ DEF: - S – 2 – Military Geography
DEF : - India and its Neighbors - II

SKILL ENHANCEMENT COURSE (SEC)
(Value / Skill Based Course)
2 credits course
50 marks each courses

Semester III SEC: Introduction to Human Rights and Duties

Semester IV SEC: Introduction to Cyber Security / Information Security



S.Y.B.A
Chhatrapati Shivaji Maharaj as a Nation Builder
Course Code: G-2
Semester: III

Objectives:

The course focuses on the war history of the Marathas. The emphasis is on the strategies and tactics used and on the approaches to war. Specific battles would be used as illustrations for the study.

1. To learn about Chhatrapati Shivaji Maharaj as a Nation Builder
2. To understand about the Maratha Military Organization
3. To gain knowledge of Military History

Unit No.	Topic	No. of Lectures	Teaching Method
I	Rise of Maratha Power 1.1 Economic, Political and cultural state of Maharashtra during Ch Shivaji's time. 1.2 Role of Jijabai	8	Lecture, PPT, Group Discussion, Library Work, Assignment
II	Swarajya Building 2.1 Concept of Swarajya 2.2 Building army of mavala 2.3 Oath at Raireshwar	15	Lecture, PPT, Group Discussion, Library Work, Assignment
III	Shivaji and Adilshahi 3.1 Jawali Incident 3.2 Battle of Pratapgad	8	Lecture, PPT, Group Discussion, Library Work, Assignment, Field Visit
IV	Shivaji and Mughal 4.1 Loot of Campaign 4.2 Raid on Shahistekhan 4.3 Campaign of Mirza Raje Jay Singh and Treaty of Purandar	14	Lecture, PPT, Group Discussion, Library Work, Assignment, Field Visit


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Someshwarnagar, Dist. Pune-412306

शैक्षणिक विभाग
गणेशखिंड, पुणे-४११ ००७
दुरध्वनी क्र.: ०२०-२५६२११६०

ई-मेल : boards@pun.unipune.ac.in

संकेतस्थळ : www.unipune.ac.in

सावित्रीबाई फुले पुणे विद्यापीठ
(पूर्वीचे पुणे विद्यापीठ)



Savitribai Phule Pune University
(Formerly University of Pune)

Academic Unit
Ganeshkhind, Pune-411 007
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Website : www.unipune.ac.in

जावक क्र.: सीबीव्हीपी/ ८६८

दिनांक : १५/१२/२०२१

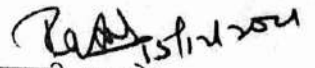
परिपत्रक क्र. ३७६/२०२१

विषय :- वाणिज्य व व्यवस्थापन विद्याशाखेतर्गत तृतीय वर्ष बी.कॉम. च्या आराखडयामध्ये (सत्र ५ व ६) दुरुस्तीस मान्यता देण्याबाबत....

विद्यापीठ अधिकार मंडळाने घेतलेल्या निर्णयानुसार सर्व संबंधितांस या परिपत्रकाद्वारे कळविण्यात येते की, वाणिज्य व व्यवस्थापन विद्याशाखेतर्गत तृतीय वर्ष बी.कॉम. २०१९ पॅटर्नच्या (सत्र ५ व ६) मधील अभ्यासक्रमाच्या आराखडयामध्ये Practical Exam ऐवजी आंतरवासीता (Internship) अशी दुरुस्तीस शैक्षणिक वर्ष २०२१-२२ पासून मान्यता देण्यात येत आहे.

सदरचा अभ्यासक्रम सावित्रीबाई फुले पुणे विद्यापीठाच्या www.unipune.ac.in या संकेत स्थळावर Syllabi या शीर्षकाखाली उपलब्ध आहे.

मा. प्राचार्य, सर्व संलग्नित वाणिज्य व व्यवस्थापन महाविद्यालये यांना विनंती की, सदर परिपत्रकाचा आशय सर्व संबंधितांच्या निदर्शनास आणून द्यावा.


(मुंजाजी रासवे)
उपकुलसचिव





Co-ordinator
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PRINCIPAL

Mugutao Sahebrao Kakade College
Someshwarnagar, Dist. Pune-412306

DSE: (505) Project**Total Credits: 4**

Teaching Scheme

- Project: 4 hours/week
- Batch Size: 10 Projects

Workload:

1. One project guide to be assigned to 10 Projects.
2. 4 hours /week to be allotted for 10 Projects.

Guidelines:

- Students should work in a team of maximum 2 students.
- Students can choose a project topic without any restriction on technology or domain.
- The student group will work independently throughout the project work including: problem identification, information searching, literature study, design and analysis, implementation, testing, and the final reporting.
- Project guide must conduct project presentations (minimum 4) to monitor the progress of the project groups.
- At the end of the project, the group should prepare a report which should conform to international academic standards. The report should follow the style in academic journals and books, with clear elements such as: abstract, background, aim, design and implementation, testing, conclusion and full references, Tables and figures should be numbered and referenced to in the report.
- The final project presentation with demonstration (UE) will be evaluated by the project guide (appointed by the college) and one external examiner (appointed by the University).

Evaluation guidelines:

IA (30 marks)			UE (70 marks)		
First presentation	Second presentation	Documentation	Project Logic/Presentation	Documentation	Viva
10	10	10	40	10	20

Recommended Documentation contents:**Abstract****Introduction**

- motivation
- problem statement
- purpose/objective and goals
- literature survey
- project scope and limitations


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Someshwarnagar, Dist. Pune-412306

DSE: (605) Project

Total Credits: 4

Teaching Scheme

- Project: 4 hours/week
- Batch Size: 10 Projects

Workload:

1. One project guide to be assigned to 10 Projects.
2. 4 hours /week to be allotted for 10 Projects.

Guidelines:

- Students should work in a team of maximum 2 students.
- Students can choose a project topic without any restriction on technology or domain.
- The student group will work independently throughout the project work including: problem identification, information searching, literature study, design and analysis, implementation, testing, and the final reporting.
- Project guide must conduct project presentations (minimum 4) to monitor the progress of the project groups.
- At the end of the project, the group should prepare a report which should conform to international academic standards. The report should follow the style in academic journals and books, with clear elements such as: abstract, background, aim, design and implementation, testing, conclusion and full references, Tables and figures should be numbered and referenced to in the report.
- The final project presentation with demonstration (UE) will be evaluated by the project guide (appointed by the college) and one external examiner (appointed by the University).

Evaluation guidelines:

IA (30 marks)					UE (70 marks)		
First presentation	Second presentation	Third presentation	Fourth presentation	Documentation	Project Logic/Presentation	Documentation	Vi
5	5	5	5	10	40	10	2

Recommended Documentation contents:

Abstract

Introduction

- motivation
- problem statement
- purpose/objective and goals
- literature survey
- project scope and limitations

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Someshwarnagar, Dist. Pune-412306

T.Y.B.Sc. (Physics) (Sem-V)
PHY-359: Physics Project-I

Lectures: 36

(Credits-02)

Guidelines:

It is expected that,

1. The student does work equivalent to about ten (10) laboratory experiments throughout the semester in the third year.
2. One bears in mind that the project work is a practical course and it is intended to develop a set of skills pertaining to the laboratory work apart from the cognition of students. Therefore, the guides should not permit projects that involve no contribution on part of student.
3. The project must have a clear and strong link with the principles of basic physics and/or their applications.
4. The theme chosen should be such that it promotes better understanding of physics concepts and brings out the creativity in the students.
5. The evaluation of the project work must give due credit to the amount of the project work actually done by a student, skills shown by the student, understanding of the physics concepts involved and the final presentation at the time of viva voce.
6. It is also recommended that a teacher will look after Four (4) projects at one time.
7. Practical examination will be conducted semester wise.
8. The student can perform an Experimental/Theoretical/Computational Project in Physics or interdisciplinary areas under the supervision of one or more guides.
9. The student can learn the basics of the topic chosen for project, to learn how to do literature survey and set up the basic experimental/theoretical and computational techniques needed for the project.
10. The department encourage to students for projects both in experimental and theoretical areas of Physics in collaboration with other institutes and industry.

The Project work shall consist of the following Criteria.

1. Project work is mandatory for all the T. Y. B. Sc. students.
2. All the T. Y. B. Sc. students will have to complete the Project work prescribed by the Board of Studies in Physics of Savitribai Phule Pune University during the Vth Semester.
3. The Project work shall consist of the following Criteria.
 - It is expected that students must finalize the Title of Project, Aim and objective, Significance, Literature survey, Materials required, Method and Application etc.
 - Introduction to foundations of Project Work.
 - Introduction of Project Research Methodology.
 - Study of Data Collection Methods.
 - Project Problem Writing and Presentation Skills.

Evaluation weightage:

- Project-I: Semester End University Examination : 35 Marks
- Internal Examination: 15 Marks



Semester VI

Practical Course-III

DSEC-MB 369 Fermentation Technology- II and Food Microbiology

[2 Credits; 78 Lectures]

[1 credit=15hrs x 130 mins = 1950 mins/50 mins=39 lectures]

78 L distributed as 60 L for performing practicals and 18 L for internal evaluation

12 Practical x 5 lectures = 60 Lectures

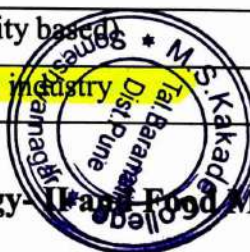
Sr. No	Title of the practical	No. of practicals
1.	Lab Scale production of the fermentation products: a. Ethanol (fermentation, recovery by simple distillation, estimation of end product by CAN method and fermentation efficiency) or b. Citric acid (fermentation, recovery by acid base precipitation and estimation of product by titrimetry)	2
2.	Solid state fermentation for production of any one fermentation product (<i>Trichoderma sp.</i> / mushrooms / enzymes)	1
3.	Isolation and identification of Probiotic microflora from natural sources or any commercial formulation.	2
4.	Study of SOPs for pharmaceutical industry a. disinfectant efficacy testing b. Physical monitoring of microbiology section c. Handling of biological indicators d. Microbiological testing of vials e. Identification of contaminant in sterile area	1
5.	Detection of aflatoxin	1
6.	Determination of TDP and TDT value	2
7.	Determination of TDR and D value	1
8.	HACCP guidelines for food industry (activity based)	1
9.	Visit to any food industry or a fermentation industry	1

References: MB 369 Fermentation Technology- II and Food Microbiology

1. Lab scale fermentations:

- Casida L. E. Internal Quality Assurance Cell (IQAC) Industrial Microbiology, Mugunsa Saheb Ina Karade College, Someshwarnagar, Pune

Savitribai Phule Pune University (SPPU), Pune



PRINCIPAL

Mugunsa Saheb Ina Karade College, Someshwarnagar, Dist. Pune-412306

Savitribai Phule Pune University
(Formerly University of Pune)

REVISED SYLLABUS

OF

S. Y. B. Sc. STATISTICS

(at subsidiary level)

Choice Based Credit System Syllabus (pattern 2019-20)

With Effect from June 2020

STATISTICS



Notes :

1. A student of the three year *B. Sc.* degree course will not be allowed to offer Statistics and Statistical Techniques simultaneously in any of the three years of the course.
2. Students offering Statistics at the first year of the three year *B. Sc.* course may be allowed to offer Statistical Techniques as one of their subjects in the second year of the three year *B. Sc.* course in the place of Statistics.
3. Students offering Statistical Techniques at the first of the three year *B. Sc.* course may be allowed to offer Statistics as one of their subjects in the second year of the three year *B. Sc.* course in place of Statistical Techniques provided they satisfy other requirements regarding subject combinations, if any.
4. Students must complete all the practicals to the satisfaction of the teacher concerned.
5. At the time of practical examination, a student must produce the laboratory journal along with the completion certificate signed by the Head of the Department.
6. **Study Tour:** In order to acquaint the students with applications of Statistical methods in various fields such as industries, agricultural sectors, Government Institutes etc. study tour may be arranged and the report be attached in practical journal.
7. Structure of evaluation of practical paper at *S. Y. B. Sc.*


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PRINCIPAL

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SOMESHWARNAGAR, TAL. BARAMATI, DIST. PUNE: 412306


Head

Department of Statistics

A) Continuous Internal Assessment (CIA)

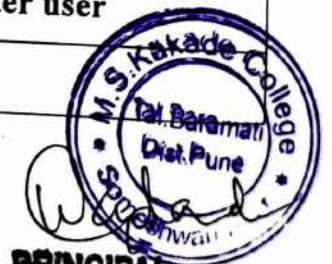
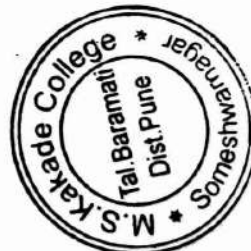
Section	Marks
i) Journal	05
ii) Viva-voce	05
iii) Project	05
Total of A	15

B) End of Semester Examination (ESE)

Section	Nature	Marks	Time
I	On line examination: Note : Question No.1 is compulsory. Q. 1: Execute the commands and write the same in answer book along with answers using (A) Ms – EXCEL (For Sem-III) (B) R – Software (For Sem-IV)	07 07	Maximum 30 minutes
II	Using Calculator / Computer Note : Attempt any two of the four questions : Q2 : Q3 : Q4 : Q5 :	24 (12 marks for each question)	2 hours - for calculator user 1 hour 30 minutes- for computer user
III	Viva-voce	04	10 minutes
	Total of B	35	2 Hours 40 minutes- for calculator user 2 hour 10 minutes- for computer user
	Total of A and B	50	

P. P. Deshpande
Head

Co-ordinator
Internal Quality Assurance Cell (IQAC)
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PRINCIPAL
MURTRAO SAHEBRAO KAKADE COLLEGE,
SOMESHWARNAGAR, TAL. BARAMATI, DIST. PUNE: 412306

DSEC-II: CH-505: Industrial Chemistry - I**[Credit -2, 36 L]**

Chapter No.	Title of Topic/Chapter	No. of lecture
1	Modern Approach to Chemical Industry	06
2	Manufacture of Basic Chemicals	07
3	Sugar and Fermentation Industry	07
4	Soap and Detergents Industry	08
5	Dyes and Pigments	08
Total		36

1. Modern Approach to Chemical Industry**(6 L)**

Introduction, basic requirements of chemical industries, chemical production, unit process and unit operations, Quality control and quality assurance, process control, research and development, human resource, safety measures, classification of chemical reactions, batch and continuous process, Conversion, selectivity and yield, copy-right act, patent act, trademarks.

Ref. No.-7, Relent pages, Ref. - 10: www.wikipedia.org/wiki/copyright_act_of1976/patent_act/trademark

Aims and Learning objectives: The students are expected to learn;

- i. Importance of chemical industry,
- ii. Meaning of the terms involved,
- iii. Comparison between batch and continuous process,
- iv. Knowledge of various industrial aspects

2 Manufacture of Basic Chemicals**(7 L)**

- a) Ammonia: Manufacture of ammonia by modified Haber-Bosch process, Physico-chemical principles involved and uses of ammonia.
- b) Nitric acid: Manufacture of nitric acid by Ostwald's process, Physico-chemical principles involved and uses of nitric acid.
- c) Sulphuric acid: Manufacture of sulphuric acid by contact process, Physico-chemical principles involved and uses of sulphuric acid.

Reference No.-1: Page No. 731 to 761, 809 to 844, Reference-3: 1128-1175, 1253-1263

Aims and Learning objectives: The students are expected to learn

- i. Concept of basic chemicals,
- ii. Their uses and manufacturing process.
- iii. They should also know the physico-chemical principals involved in manufacturing process



References:

1. Industrial Chemistry, B. K. Sharma, Goel publishing House, 18th Ed. (2014)
 2. Riegeal's Hand book of industrial chemistry, James A. kent. 9th Ed. CBS publishers
 3. Advanced Inorganic Chemistry, Satyaprakash, Tuli, Basu pages 458-463.
 4. Advanced Inorganic Chemistry, Satyaprakash, Tuli, Basu pages 830-849
 5. Handbook of Industrial Chemistry and Biotechnology, James A. Kent, Tilak V. Bommaraju, Scott D. Barnicki, Thirteenth Edition, Springer.
 6. Inorganic Pigments by Gerhard Pfaff, Publisher-De Gruyter, 1st Ed.
 7. Shreeve's chemical process industries 5th Edition, G.T. Austin, TATA McGraw-Hill Edition, chemical engineering series
 8. Industrial Chemistry, Part-II, R. K. Das, Kalyani Publisher, Second Ed.
 9. Inorganic Pigments by Gerhard Pfaff, Publisher-De Gruyter, 1st Ed.
- www.wikipedia.org/wiki/copyright_act_of1976 , www.wikipedia.org/wiki/patentact and www.wikipedia.org/wiki/trademark

Industrial visit:

Visit to any one of the Chemical / Pharmaceutical / Polymer / Research Institutes / Sugar Factories / waste water treatment plant, etc. is essential and a systematic report is to be submitted by the student to the Department of Chemistry.

DSEC-II: CH-506: Inorganic Chemistry Practical - I**[Credit -2, 73 L]**

Total 12 experiments to be completed.

A. Gravimetric estimations (Any 3)

1. Gravimetric estimation of Fe as Fe₂O₃. Ref-1: 457
2. Gravimetric estimation of Ba as BaSO₄ using homogeneous precipitation method. Ref-1: 448
3. Gravimetric estimation of Nickel as Ni – DMG. Ref-1: 462
4. Analysis of sodium bicarbonate from mixture by thermal decomposition method. Ref.-6
5. Determination of water of crystallization by thermal decomposition. Reference-5
6. Analysis of Food/Pharmaceutical sample for ash and sulphated ash example-Aspirin, Ref. -2.

B. Inorganic preparations (Any 3) (Ref-7, 8, 9)

Preparation of inorganic complexes and spot tests for metal ions and ligands:

1. Preparation of hexamminenickel(II) chloride, [Ni (NH₃)₆]Cl₂.
2. Preparation of Potassium trioxalatoferrate(III), K₃[Fe(C₂O₄)₃].
3. Preparation of Manganese (III) acetylacetonate, [Mn(acac)₃].
4. Preparation of tris(glycinato)nickelate(II), [Ni(gly)₃].
5. Preparation of Potassium dioxalatocuprate(II), [K₂Cu(C₂O₄)₂].

Savitribai Phule Pune University (SPPU), Pune

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