

प्रा. डॉ. शशिकांत हरी खलाणे
संयोजक, सर्टिफिकेट कोर्स
झेड. बी. पाटील कॉलेज धुळे.
Date- 23/02/2023

प्रति,

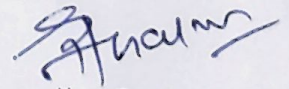
मा. प्राचार्य साहेब,
झेड. बी. पाटील कॉलेज,
धुळे.

विषय: अध्यादेश 181 अंतर्गत प्रमाणपत्र कोर्सेस च्या संलग्नतेबाबत
संदर्भ: कबचौउमवि 11ए/ अध्यादेश 181/ जन 19-9/346/ 2023 दिनांक 11-01 2023 चे पत्र

महोदय,

उपरोक्त संदर्भीय विषयांवर ये आपल्या महाविद्यालयात कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठाचे अध्यादेश 181 अंतर्गत विविध प्रमाणपत्र कोर्सेस सुरु आहेत. त्यातील काही कोर्सेसची संलग्नता मे 2023 पर्यंत संपुष्टात येत आहे. पुढील शैक्षणिक वर्षा पासून (2023-24) आपणास पुढील 3 वर्षासाठी 11 प्रमाणपत्र कोर्सची संलग्नता घ्यावयाची आहे. प्रत्येक कोर्सला संलग्नते साठी 2500/- रुपये कार्यवाही शुल्क विद्यापीठातर्फे आकारण्यात येते. एकूण 11 विषयांसाठी 27, 500 रुपये इतकी कार्यवाही फी आपणास विद्यापीठाला धनादेश (DD) काढून द्यावयाची आहे. धनादेश “मा. वित्त व लेखाअधिकारी कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ जळगाव” यांच्या नावे काढून द्यावयाचा आहे. आपणास विनंती आहे कि, सदर पत्राची कार्यवाही होण्यास मान्यता द्यावी.

आपला विश्वासू



प्रा. डॉ. शशिकांत हरी खलाणे

1. DD- Rs. 27, 500/-
2. “मा. वित्त व लेखाअधिकारी कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ जळगाव”

दिनांक 29 ऑगस्ट 2023 रोजी प्रमाणपत्र कोर्स संदर्भात मा. प्राचार्य डॉ. पी. एच. पवार यांच्या अध्यक्षतेखाली बैठक संपन्न झाली. या बैठकीत शैक्षणिक वर्ष 2023-24 साठी अध्यादेश 181 अंतर्गत प्रमाणपत्र कोर्सच्या संदर्भात पुढील मुद्द्यांवर चर्चा करण्यात आली.

1. शैक्षणिक वर्ष 2023-24 चे प्रवेश
2. प्रवेश फी
3. प्रवेश फॉर्म
4. तासिका सुरु करण्याबाबत
5. शैक्षणिक वर्ष 2022-23 चे विद्यार्थ्यांचे गुणपत्रक
6. आयत्या वेळेचे विषय

Planck

मा. प्राचार्य डॉ. पी. एच. पवार

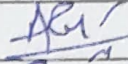
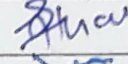
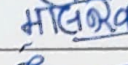

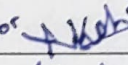
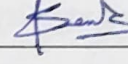

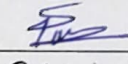
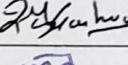
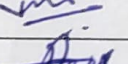
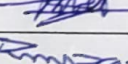
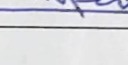
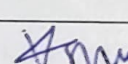
सदर बैठकीस खालील सदस्य उपस्थित होते.

1. P. U. Patil : *P. U. Patil*
2. डॉ. मोरेश्वर नेरकर *मोरेश्वर*
3. Vishal P. Borse *Vishal P. Borse*
4. Uday D. Patil *Uday D. Patil*
5. Rathod V. M. *Rathod V. M.*
6. Dr. Suryakant P. Gokhale *Dr. Suryakant P. Gokhale*
7. Dr V. K. Chavan *Dr V. K. Chavan*
8. Dr. S. M. Shinde *Dr. S. M. Shinde*
9. Dr. K. M. Gokhale *Dr. K. M. Gokhale*
10. Dr. V. B. Jadhav *Dr. V. B. Jadhav*
11. Dr. S. A. Padvi *Dr. S. A. Padvi*
12. Dr. Vansha Patel *Dr. Vansha Patel*
13. Mr. Vinish B. Desai *Mr. Vinish B. Desai*
14. Dr. S. H. Khalane *Dr. S. H. Khalane*
15. _____
16. _____

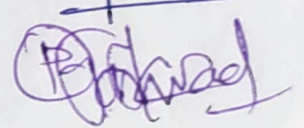
JET's Z.B.Patil College, Dhule

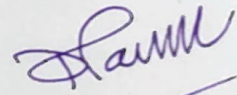
Certificate Course

Meeting- 29/09/2022

Sr. No.	Subject	Name of the Certificate course	Sign.
1	History	Travel and Tourism	
2	Psychology	Soft Skills and Personality Development	
3	Marathi	स्पर्धा परीक्षांसाठी साठी मराठी व्याकरण प्रमाणपत्र कोर्स	
4	Geography	Data Analysis and Cartographic Techniques	
5	Economics	Small Scale Business and ED	
6	Political Sci.	Political Participation of Tribal Women	for 
7	Computer Sci.	Certificate Course in Computer Application	
8	Electronic	Electronic Equipment Maintenance	
9	Zoology	The Basic Concept of Animal Biology	
10	Botany	Food Preservation	
11	Geology	Geochemistry	
12	Chemistry	Certificate Course in Soil & Water Analysis	
13	Hindi	The purpose of literary bank & Insurance Co.	
14	Statistics	Statistical Analysis	
15	English	Gandhian Thoughts	
16	English	Gender Studies	

17 Sanskrit B सेल्फनसम्भाषणम् ।





Principal

Jai Hind Educational Trust's
Zulal Bhilajirao Patil College
Wadi Bhokar Rd, Deopur, DHULE-2



जयहिंद शैक्षणिक ट्रस्ट संचालित

झुलाळ भिलाजीराव पाटील महाविद्यालय

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Web site : www.jaihindcollege.ac.in Ph. off. +91-02562-222343 Resi : +91-2562-273343
Fax : +91-2562-220678 E-mail : jaihind@jaihindcollege.ac.in

Ref. No.

Date :

प्रमाणपत्र

प्रमाणित करण्यात येते की, आमच्या महाविद्यालयात शैक्षणिक वर्ष 2023-24 ते 2025-26 या कालावधीसाठी अध्यादेश 181 अंतर्गत सलग्नता सातत्य मिळवण्यासाठी प्रस्तावानुसार मागणी केलेल्या--
पर्यटन आणि प्रवास Travel & Tourism या करिअर ओरिएंटेड कोर्सचा अभ्यासक्रम (Syllabus) तयार करण्यासाठी विद्यापीठाच्या निर्देशानुसार महाविद्यालय स्तरावर खालील प्रमाणे समिती गठीत करण्यात आली होती:-

1. प्रा. डॉ. ए. पी. खैरनार मा. अधिष्ठाता, (मानव्य विद्याशाखा)
2. प्राचार्य, डॉ. पी.एच. पवार मा.प्राचार्य (झेड. बी. पाटील महाविद्यालय)
3. प्रा. डॉ. शरद कौतिक भामरे (बहिस्थ: विषय तज्ञ)
4. प्रा. डॉ. अमोल प्रकाश पाटील (समन्वयक)

उपरोक्त समितीने अध्यादेश 181 मध्ये नमूद केलेल्या (अभ्यासक्रमाची मांडणी, विषयसंख्या, स्वरूप, प्रात्यक्षिक परीक्षा, गुणदान पद्धत इत्यादी) मुद्द्यांवर साधक बाधक चर्चा करून सदर कोर्सच्या अभ्यासक्रमास (Syllabus) अंतिम स्वरूप देऊन मान्यता दिलेली आहे.

स्वाक्षरी

स्वाक्षरी

(बहिस्थ: विषय तज्ञ)

नाव पदनाम महाविद्यालयाचे नाव

प्रा. डॉ. शरद कौतिक भामरे (सहा. प्रख्यापक)

प्रा. एच. एच. पी. एस. भुसाबळे एम. एल. पाटील

साहित्य आणि मु. जि. मु. भ. वाळीभ महाविद्यालय, धुळे

स्वाक्षरी

मा. अधिष्ठाता मानव्य विद्याशाखा

स्वाक्षरी

Dr. A. P. Patil

स्वाक्षरी

(समन्वयक)

भ्रमणध्वनी क्र. 9271281881

स्वाक्षरी

स्वाक्षरी व शिकका

प्राचार्य, डॉ. पी.एच. पवार

Principal

Principal Trust's

Jaihind Bhilajirao Patil College

Nadi Bhokar Rd, Deopur, DHULE-2



जयहिंद शैक्षणिक ट्रस्ट संघलित

झुलाल भिलाजीराव पाटील महाविद्यालय

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Fax : +91-2562-220678 E-mail : jainind@jainhindcollege.ac.in

Ref. No.

Date :

प्रमाणपत्र

प्रमाणित करण्यात येते की, आमच्या महाविद्यालयात शैक्षणिक वर्ष 2023-24 ते 2025-26 या कालावधीसाठी अध्यादेश 181 अंतर्गत सलग्नता सातत्य मिळवण्यासाठी प्रस्तावानुसार मागणी केलेल्या--
Certificate Course in Marathi Grammar for Competitive Examamination या करिअर ओरिएंटेड कोर्सचा अभ्यासक्रम (Syllabus) तयार करण्यासाठी विद्यापीठाच्या निर्देशानुसार महाविद्यालय स्तरावर खालील प्रमाणे समिती गठीत करण्यात आली होती:-

1. प्राचार्य डॉ. ए.पी. खैरनार मा. अधिष्ठाता (मानवविद्या शाखा)
2. प्राचार्य, डॉ. पी.एच. पवार मा. प्राचार्य (झेड.बी. पाटील महाविद्यालय, धुळे)
3. डॉ. प्रशांत लगडे, मराठी विभागप्रमुख, विद्यावर्धिनी महाविद्यालय, धुळे (बहिस्थ: विषय तज्ञ)
4. डॉ. मोरेश्वर संतोष नेरकर (समन्वयक)

उपरोक्त समितीने अध्यादेश 181 मध्ये नमूद केलेल्या (अभ्यासक्रमाची मांडणी, विषयसंख्या, स्वरूप, प्रात्यक्षिक परीक्षा, गुणदान पद्धत इत्यादी) मुद्द्यांवर साधक बाधक चर्चा करून सदर कोर्सच्या अभ्यासक्रमास (Syllabus) अंतिम स्वरूप देऊन मान्यता दिलेली आहे.

स्वाक्षरी

(बहिस्थ: विषय तज्ञ)

डॉ. प्रशांत लगडे,

मराठी विभागप्रमुख,

विद्यावर्धिनी महाविद्यालय, धुळे

स्वाक्षरी

(समन्वयक)

डॉ. मोरेश्वर नेरकर

भ. क्र. ८८५५८९०३०७

स्वाक्षरी

मा. अधिष्ठाता मानवविद्या शाखा

स्वाक्षरी व शिक्का

प्राचार्य, डॉ. पी.एच. पवार

प्राचार्य,

जयहिंद शैक्षणिक ट्रस्टचे,

झुलाल भिलाजीराव पाटील महाविद्यालय

शिक्षण महर्षि झेड. बी. पाटील (याडीगोकर)

रोड, देवपूर, धुळे-४२४००२



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Fax : +91-2562 - 220678 Email : jaihind@zbpatil.in

Ref. No.

Date :

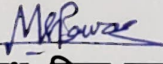
प्रमाणपत्र

प्रमाणित करण्यात येते की, आमच्या महाविद्यालयात शैक्षणिक वर्ष 2023-24 ते 2025-26 या कालावधीसाठी अध्यादेश 181 अंतर्गत सलग्नता सातत्य मिळवण्यासाठी प्रस्तावानुसार मागणी केलेल्या **Certificate Course in Data Analysis and Cartographic Techniques** या करिअर ओरिएंटेड कोर्सचा अभ्यासक्रम (Syllabus) तयार करण्यासाठी विद्यापीठाच्या निर्देशानुसार महाविद्यालय स्तरावर खालील प्रमाणे समिती गठीत करण्यात आली होती:-

1. प्रा. एस एस राजपूत मा.अधिष्ठाता(विज्ञान व तंत्रज्ञान विद्याशाखा)
2. प्राचार्य - डॉ. पी.एच. पवार (झेड.बी. पाटील महाविद्यालय)
3. 3 प्रा. डॉ . मनीषा .एस .पवार (बहिस्थ: विषय तज्ञ) अ .यु.क.केंद्र संचालित कला महिला महाविद्यालय ,धुळे
4. प्रा.डॉ .प्रियंका निकुंभ (समन्वयक) (प्रा.डॉ .प्रियंका निकुंभ)

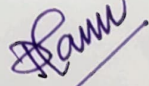
उपरोक्त समितीने अध्यादेश 181 मध्ये नमूद केलेल्या (अभ्यासक्रमाची मांडणी, विषयसंख्या, स्वरूप, प्रात्यक्षिक परीक्षा, गुणदान पद्धत इत्यादी) मुद्द्यांवर साधक बाधक चर्चा करून सदर कोर्सच्या अभ्यासक्रमास (Syllabus) अंतिम स्वरूप देऊन मान्यता दिलेली आहे.

प्रा. एस एस राजपूत
मा.अधिष्ठाता(विज्ञान व तंत्रज्ञान विद्याशाखा)

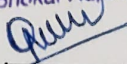

(बहिस्थ: विषय तज्ञ)

प्रा.डॉ.मनीषा.एस.पवार

अ .यु.क.केंद्र संचालित कला महिला महाविद्यालय ,धुळे


प्राचार्य - डॉ. पी.एच. पवार
झेड.बी.पाटील महाविद्यालय, धुळे

Principal
Jai Hind Educational Trust's
Zulal Bhilajirao Patil College
Wadi Bhokar Rd, Deopur, DHULE-2


(समन्वयक)

प्रा. डॉ .प्रियंका निकुंभ

झेड.बी. पाटील महाविद्यालय, धुळे



झुळाळ भिलाजीराव पाटील महाविद्यालय

"A College with Potential for Excellence"

शिक्षण महर्षि झेड. बी. पाटील (वाडीभोकर) रोड, देवपूर, धुळे. ४२४००२ (म.रा.), भारत

Web site : www.jaihindcollege.ac.in Ph. off. +91-02562-222343 Resi : + 91-2562-273343
Fax : +91-2562-220678 E-mail : jaihind@jaihindcollege.ac.in

Ref. No.

Date :

प्रमाणपत्र

प्रमाणित करण्यात येते की, आमच्या महाविद्यालयात शैक्षणिक वर्ष 2023-24 ते 2025-26 या कालावधीसाठी अध्यादेश 181 अंतर्गत सलग्नता सातत्य मिळवण्यासाठी प्रस्तावानुसार मागणी केलेल्या--
आदिवासी महिलांचा राजकीय सहभाग (धुळे तालुका) या करिअर ओरिएंटेड कोर्सचा अभ्यासक्रम (Syllabus) तयार करण्यासाठी विद्यापीठाच्या निर्देशानुसार महाविद्यालय स्तरावर खालील प्रमाणे समिती गठीत करण्यात आली होती:-

1. प्रा. डॉ. अशोक पी. खैरनार मा. अधिष्ठाता, (मान्य विद्याशाखा)
2. प्राचार्य, डॉ. पी.एच. पवार मा.प्राचार्य (झेड. बी. पाटील महाविद्यालय)
3. प्रा. डॉ. मनोहर तुकाराम पाटील (बहिस्थ: विषय तज्ञ)
4. प्रा. विशाल प्रभाकर बोर्से (समन्वयक)

उपरोक्त समितीने अध्यादेश 181 मध्ये नमूद केलेल्या (अभ्यासक्रमाची मांडणी, विषयसंख्या, स्वरूप, प्रात्यक्षिक परीक्षा, गुणदान पद्धत इत्यादी) मुद्द्यांवर साधक बाधक चर्चा करून सदर कोर्सच्या अभ्यासक्रमास (Syllabus) अंतिम स्वरूप देऊन मान्यता दिलेली आहे.

स्वाक्षरी

Principal

S (बहिस्थ: विषय तज्ञ) Sanstha s
Bhau Sahab N. S. Patil Arts And
नांव पदनाम महाविद्यालयाचे नाव
Mulla Fidaan Mulla Aslam Boman
College, Dhule.

स्वाक्षरी

मा. अधिष्ठाता -----विद्याशाखा

स्वाक्षरी

(समन्वयक) विशाल पी बोर्से

भ्रमणध्वनी क्र. 9403741437

स्वाक्षरी व शिक्का

प्राचार्य, डॉ. पी.एच. पवार

PRINCIPAL,

Jai Hind Educational Trust's
Zulal Bhalajirao Patil College,
DHULE - 424 002.



जयहिंद शैक्षणिक ट्रस्ट संचालित

झुलाल भिलाजीराव पाटील महाविद्यालय

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Fax : +91-2562-220678 E-mail : jaihind@jaihindcollege.ac.in

Ref. No.

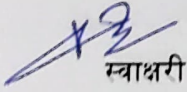
Date :

प्रमाणपत्र

प्रमाणित करण्यात येते की, आमच्या महाविद्यालयात शैक्षणिक वर्ष 2023-24 ते 2025-26 या काळावधीसाठी अध्यादेश 181 अंतर्गत सलग्नता सातत्य मिळवण्यासाठी प्रस्तावानुसार मागणी केलेल्या Certificate Course in Computer Applications या करिअर ओरिएंटेड कोर्सचा अभ्यासक्रम syllabus) तयार करण्यासाठी विद्यापीठाच्या निर्देशानुसार महाविद्यालय स्तरावर खालील प्रमाणे समिती गठीत करण्यात आली होती:

1. प्रा. डॉ. एम. एम. राजपुत मा. अधिष्ठाता (विज्ञान विद्याशाखा)
2. प्राचार्य. डॉ. पी.एच. पवार मा. प्राचार्य (झेड. बी. पाटील महाविद्यालय)
3. प्रा. जितेंद्र बी. कापडे (बहिस्थ: विषय तज्ञ)
4. प्रा. अलका आर. पंजाबी (समन्वयक)

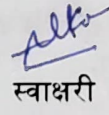
उपरोक्त समितीने अध्यादेश 181 मध्ये नमूद केलेल्या (अभ्यासक्रमाची मांडणी, विषयसंख्या, स्वरूप, प्रात्यक्षिक परीक्षा, गुणदान पद्धत इत्यादी) मुद्द्यांवर साधक बाधक चर्चा करून सदर कोर्सच्या अभ्यासक्रमास (Syllabus) अंतिम स्वरूप देऊन मान्यता दिलेली आहे.


स्वाक्षरी

(बहिस्थ: विषय तज्ञ)

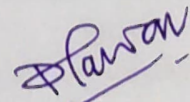
प्रा. जितेंद्र बी. कापडे (सहाय्यक प्राध्यापक)
एम.एम.व्ही. पी.एस. संस्थेचे, पी. आर. घोरे विज्ञान
महाविद्यालय, देवपूर धुळे.

स्वाक्षरी
माननीय अधिष्ठाता, विज्ञान विद्याशाखा


स्वाक्षरी

(समन्वयक)

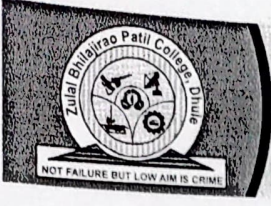
प्रा. अलका आर. पंजाबी
भ्रमणध्वनी क्र. ९४०४१८८५२५



स्वाक्षरी व शिक्षा
प्राचार्य. डॉ. पी. एच. पवार

प्राचार्य.

जयहिंद शैक्षणिक ट्रस्टचे,
झुलाल भिलाजीराव पाटील महाविद्यालय
शिक्षणमहर्षी कै. नागाराहेंव
झेड.बी.पाटील मार्ग, देवपूर, धुळे-४२४००२



Jai Hind Educational Trust's
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Shikshan Maharshi Z.B. Patil Marg, Deopur, Dhule - 424002 (M.S.) India

Website : www.jaihindcollege.ac.in Ph. Off. : +91-2562 - 222343 Resi. : +91-2562 - 273343

Fax : +91-2562 - 220678 Email : jaihind@jaihindcollege.ac.in

Ref. No.

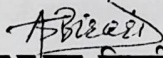
Date :

प्रमाणपत्र

प्रमाणित करण्यात येते की, अमच्या महाविद्यालयात शैक्षणिक वर्ष २०२०-२१ ते २०२२-२३ या कालावधीसाठी अध्यादेश १८१ अंतर्गत संलग्नता/संलग्नता सातत्य मिळणेसाठी प्रस्तावानुसार मागणी केलेल्या **Certificate Course "Electronic Equipment Maintenance"** विषयाच्या करिअर ओरिएंटेड कोर्सचा अभ्यासक्रम (Syllabus) तयार करणेसाठी विद्यापीठाच्या निर्देशानुसार महाविद्यालय स्तरावर खालील प्रमाणे समिती गठित करण्यात आली होती.

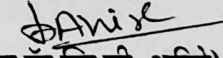
- | | | |
|------------------------------|-------------------------|----------------------|
| १) प्रा.डॉ. ए.बी. चौधरी | मा. अधिष्ठाता | (विज्ञान विद्याशाखा) |
| २) प्राचार्य डॉ. पी.एच. पवार | मा. प्राचार्य | |
| ३) प्रा.ए.एस. बिरारीस | बहिस्थ विषयतज्ज्ञ | |
| ४) प्रा.डॉ.व्ही.डी. अहिरे | समन्वयक (संबंधित कोर्स) | |

उपरोक्त समितीने अध्यादेश १८१ मध्ये नमूद केलेल्या (अभ्यासक्रमाची मांडणी, विषयसंख्या, स्वरूप, प्रात्यक्षिक परीक्षा, गुणदान पध्दत इ.) मुदयांवर साधक बाधक चर्चा करून सदर कोर्सच्या अभ्यासक्रमास (Syllabus) अंतिम स्वरूप देवून मान्यता दिलेली आहे.


(प्रा.ए.एस. बिरारीस)

बहिस्थ विषयतज्ज्ञ

सह.प्राध्यापक, एसएसव्हीपीएस,सायन्स कॉलेज,
धुळे.

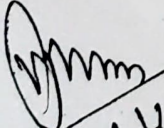

(प्रा.डॉ.व्ही.डी. अहिरे)

समन्वयक संबंधित कोर्स

भ्र.ध्वनी क्रं.९४२२५१५६६

मा. प्रा. डॉ.ए.बी. चौधरी
मा. अधिष्ठाता, विज्ञानशाखा
कबचौ, उमवि, जळगांव.

मा.डॉ.पी.एच. पवार
प्राचार्य
झेड.बी. पाटील महाविद्यालय, धुळे.

Received

14/02/2020



झुलाळ भिलाजीराव पाटील महाविद्यालय

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Web site : www.jaihindcollege.ac.in Ph. off. +91-02562-222343 Resi. : + 91-2562-273343

Fax : +91-2562-220678 E-mail : jaihind@jaihindcollege.ac.in

Ref. No.

Date :

प्रमाणपत्र

प्रमाणित करण्यात येते की, आमच्या महाविद्यालयात शैक्षणिक वर्ष 2023-24 ते 2025-26 या कालावधीसाठी अध्यादेश 181 अंतर्गत सलग्नता सातत्य मिळवण्यासाठी प्रस्तावानुसार मागणी केलेल्या "The Basic Concepts of Animal Biology" या करिअर ओरिएंटेड कोर्सचा अभ्यासक्रम (Syllabus) तयार करण्यासाठी विद्यापीठाच्या निर्देशानुसार महाविद्यालय स्तरावर खालील प्रमाणे समिती गठीत करण्यात आली होती:-

- | | |
|-------------------------------------|---|
| १. प्रा. डॉ. एस. एस. राजपूत | मा. अधिष्ठाता, (विज्ञान विद्याशाखा) |
| 2. प्राचार्य, डॉ. पी. एच. पवार | मा. प्राचार्य (झेड. बी. पाटील महाविद्यालय) |
| 3. प्रा. डॉ. धैर्यशील व्ही. अहिरराव | (बहिस्थ: विषय तज्ञ) |
| ४. डॉ. सतीष एम. शिंदे | (समन्वयक) |

उपरोक्त समितीने अध्यादेश 181 मध्ये नमूद केलेल्या (अभ्यासक्रमाची मांडणी, विषयसंख्या, स्वरूप, प्रात्यक्षिक परीक्षा, गुणदान पद्धत इत्यादी) मुद्द्यांवर साधक बाधक चर्चा करून सदर कोर्सच्या अभ्यासक्रमास (Syllabus) अंतिम स्वरूप देऊन मान्यता दिलेली आहे.

प्रा. डॉ. धैर्यशील व्ही. अहिरराव

(प्रोफेसर व विभाग प्रमुख)

एस. एस. व्ही. पी. एस. डॉ. पी. आर. घोरे

विज्ञान महाविद्यालय, धुळे

डा. सतीष एम. शिंदे

(समन्वयक)

भ्रमणध्वनी क्र. ९४०५५७०९८२

प्रा. डॉ. एस. एस. राजपूत
माननीय अधिष्ठाता विज्ञान विद्याशाखा

प्राचार्य, डॉ. पी. एच. पवार

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Zulal Bhalajirao Patil College
DHULE - 424 002.



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Fax : +91-2562-220678 E-mail : jaihind@jaihindcollege.ac.in

Ref. No. 2BPC/39/Adm/7900

Date :

प्रमाणपत्र

प्रमाणित करण्यात येते की, आमच्या महाविद्यालयात शैक्षणिक वर्ष 2023-24 ते 2025-26 या कालावधीसाठी अध्यादेश 181 अंतर्गत सलग्नता सातत्य मिळवण्यासाठी प्रस्तावानुसार मागणी केलेल्या "Certificate course in Food Preservation" या करिअर ओरिएंटेड कोर्सचा अभ्यासक्रम (Syllabus) तयार करण्यासाठी विद्यापीठाच्या निर्देशानुसार महाविद्यालय स्तरावर खालील प्रमाणे समिती गठीत करण्यात आली होती:-

१. प्रा. डॉ. एस. एस. राजपूत

मा. अधिष्ठाता, (विज्ञान विद्याशाखा)

२. प्राचार्य, डॉ. पी. एच. पवार

मा. प्राचार्य (झेड. बी. पाटील महाविद्यालय)

३. प्रा. डॉ. डी. ए. ढाले

(बहिस्थ: विषय तज्ञ)

४. प्रा.प्रतिक एस. शिंदे

(समन्वयक)

उपरोक्त समितीने अध्यादेश 181 मध्ये नमूद केलेल्या (अभ्यासक्रमाची मांडणी, विषयसंख्या, स्वरूप, प्रात्यक्षिक परीक्षा, गुणदान पद्धत इत्यादी) मुद्द्यांवर साधक बाधक चर्चा करून सदर कोर्सच्या अभ्यासक्रमास (Syllabus) अंतिम स्वरूप देऊन मान्यता दिलेली आहे.

प्रा. डॉ. डी. ए. ढाले

(सहयोगी प्राध्यापक)

एस. एस. व्ही. पी. एस. डॉ. पी. आर. घोगरे

विज्ञान महाविद्यालय, धुळे.

प्रा. प्रतिक एस. शिंदे

(समन्वयक)

भ्रमणध्वनी क्र. ८३८०८२२३९३

प्रा. डॉ. एस. एस. राजपूत

माननीय अधिष्ठाता विज्ञान विद्याशाखा.

प्राचार्य, डॉ. पी. एच. पवार

PRINCIPAL,
Jai Hind Educational Trust's
Zul. Bhilajirao Patil College,
DHULE - 424 002.



जयहिन शैक्षणिक ट्रस्ट संचालित

झुलाल भिलाजीराव पाटील महाविद्यालय

"A College with Potential for Excellence"

शिक्षण महर्षि झेड. बी. पाटील (वाडीभोकर) रोड, देवपूर, धुळे, ४२४००२ (म.रा.), भारत

Web site : www.jalhindcollege.ac.in Ph. off. +91-02562-222343 Resi. : + 91-2562-273343
Fax : +91-2562-220678 E-mail : jalhind@jalhindcollege.ac.in

Ref. No.

Date :

प्रमाणपत्र

प्रमाणित करण्यात येते की, आमच्या महाविद्यालयात शैक्षणिक वर्ष 2023-24 ते 2025-26 या कालावधीसाठी अध्यादेश 181 अंतर्गत सलगता सातत्य मिळवण्यासाठी प्रस्तावानुसार मागणी केलेल्या "Certificate Course in Geochemistry" या करिअर ओरिएंटेड कोर्सचा अभ्यासक्रम (Syllabus) तयार करण्यासाठी विद्यापीठाच्या निर्देशानुसार महाविद्यालय स्तरावर खालील प्रमाणे समिती गठीत करण्यात आली होती:

- | | |
|-------------------------------|--|
| 1. प्रा.डॉ. एस. एस. राजपुत | मा. अधिष्ठाता (विज्ञान विद्याशाखा) |
| 2. प्राचार्य डॉ. पी. एच. पवार | मा. प्राचार्य (झेड. बी. पाटील महाविद्यालय) |
| 3. प्रा. डॉ. एस. एन. पाटील | (बहिस्थ: विषयतज्ञ) |
| 4. डॉ. एस. पी. गायकवाड | (समन्वयक) |

उपरोक्त समितीने अध्यादेश 181 मध्ये नमूद केलेल्या (अभ्यासक्रमाची मांडणी, विषयसंख्या, स्वरूप, प्रात्यक्षिक परीक्षा, गुणदान पद्धत इत्यादी) मुद्द्यांवर साधक बाधक चर्चा करून सदर कोर्सच्या अभ्यासक्रमास (Syllabus) अंतिम स्वरूप देऊन मान्यता दिलेली आहे.

(बहिस्थ: विषयतज्ञ)

प्रा. डॉ. एस. एन. पाटील

(प्राध्यापक व विभाग प्रमुख)

उपयोजित भूशास्त्र विभाग, पर्यावरण आणि भूशास्त्र प्रशाला,
क. व. चौ. उ. म. वि., जळगाव.

(समन्वयक)

डॉ. एस. पी. गायकवाड

भ्रमण ध्वनी क्र. ९७६७५५१६६१

प्रा.डॉ. एस. एस. राजपुत

माननीय अधिष्ठाता, विज्ञान विद्याशाखा

(समन्वयक)

प्राचार्य डॉ. पी. एच. पवार

प्राचार्य

जयहिन शैक्षणिक ट्रस्टचे
झुलाल भिलाजीराव पाटील महाविद्यालय
शिक्षण महर्षी नानासाहेब झेड. बी. पाटील
मार्ग, देवपूर, धुळे-४२४००२



झुलाल भिलाजीराव पाटील महाविद्यालय

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Fax : +91-2562-220678 E-mail : jaihind@jaihindcollege.ac.in

Ref. No. **2BPC/39/Adm/7900**

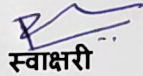
Date :

प्रमाणपत्र

प्रमाणित करण्यात येते की, आमच्या महाविद्यालयात शैक्षणिक वर्ष 2023-24 ते 2025-26 या कालावधीसाठी अध्यादेश 181 अंतर्गत संलग्नता सातत्य मिळवण्यासाठी प्रस्तावानुसार मागणी केलेल्या **Certificate Course in Soil and Water Analysis** या करिअर ओरिएंटेड कोर्सचा अभ्यासक्रम (Syllabus) तयार करण्यासाठी विद्यापीठाच्या निर्देशानुसार महाविद्यालय स्तरावर खालील प्रमाणे समिती गठीत करण्यात आली होती:

- | | |
|-------------------------------|--|
| 1. प्रा. डॉ. एस. एस. राजपुत | मा. अधिष्ठाता (विज्ञान विद्याशाखा) |
| 2. प्राचार्य. डॉ. पी.एच. पवार | मा. प्राचार्य (झेड. बी. पाटील महाविद्यालय) |
| 3. प्रा. आर.जी. महाले | (बहिस्थ: विषय तज्ञ) |
| 4. प्रा. डॉ. व्ही. बी. जाधव | (समन्वयक) |

उपरोक्त समितीने अध्यादेश 181 मध्ये नमूद केलेल्या (अभ्यासक्रमाची मांडणी, विषयसंख्या, स्वरूप, प्रात्यक्षिक परीक्षा, गुणदान पद्धत इत्यादी) मुद्द्यांवर साधक बाधक चर्चा करून सदर कोर्सच्या अभ्यासक्रमास (Syllabus) अंतिम स्वरूप देऊन मान्यता दिलेली आहे.


स्वाक्षरी

(बहिस्थ: विषय तज्ञ)

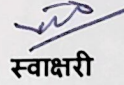
प्रा. आर.जी. महाले (प्राध्यापक)

एस. एस. व्ही. पी. एस. संस्थेचे,

कर्मवीर डॉ. पी. आर. घोगरे विज्ञान महाविद्यालय, देवपूर धुळे.

स्वाक्षरी

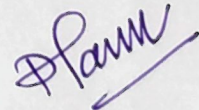
माननीय अधिष्ठाता, विज्ञान विद्याशाखा


स्वाक्षरी

(समन्वयक)

प्रा. डॉ. व्ही. बी. जाधव

भ्रमणध्वनी क्र. 9403546852



स्वाक्षरी व शिक्का

प्राचार्य. डॉ. पी. एच. पवार

PRINCIPAL

Jai Hind Educational Trust's
Zulal Bhilajirao Patil College

Shikshanmaharshi

Nanasaheb Z.B.Patil Marg

Deopur, DHULE- 424002



झुलाळ भिलाजीराव पाटील महाविद्यालय

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Fax : +91-2562-220678 E-mail : jaihind@jaihindcollege.ac.in

Ref. No.

Date २९/०८/२०२२

प्रमाणपत्र

प्रमाणित करण्यात येते की, आमच्या महाविद्यालयात शैक्षणिक वर्ष २०२३-२४ ते २०२५-२६ या कालावधीसाठी अध्यादेश १८१ अंतर्गत सलग्नता सातत्य मिळवण्यासाठी प्रस्तावानुसार मागणी केलेल्या-- The Purpose of Literary Bank & Insurance Com. या करिअर ओरिएंटेड कोर्सचा अभ्यासक्रम (Syllabus) तयार करण्यासाठी विद्यापीठाच्या निर्देशानुसार महाविद्यालय स्तरावर खालील प्रमाणे समिती गठीत करण्यात आली होती:-

१. प्रा. डॉ. अशोक पी. खैरनार मा. अधिष्ठाता, (मानव्य विद्याशाखा)
२. प्राचार्य, डॉ. पी.एच. पवार मा. प्राचार्य (झेड. बी. पाटील महाविद्यालय)
३. प्रा. डॉ. नरेशकुमार शेलार (बहिस्थ: विषय तज्ञ)
४. प्रा. शरद रामदास शेलार (समन्वयक)

उपरोक्त समितीने अध्यादेश १८१ मध्ये नमूद केलेल्या (अभ्यासक्रमाची मांडणी, विषयसंख्या, स्वरूप, प्रात्यक्षिक परीक्षा, गुणदान पद्धत इत्यादी) मुद्द्यांवर साधक बाधक चर्चा करून सदर कोर्सच्या अभ्यासक्रमास (Syllabus) अंतिम स्वरूप देऊन मान्यता दिलेली आहे.

स्वाक्षरी

(बहिस्थ: विषय तज्ञ)

नाव पदनाम महाविद्यालयाचे नाव (रस. रस. वी. पी. रस. घुळे.) भ्रमणध्वनी क्र. ८७६६५९१५०६

स्वाक्षरी

(समन्वयक) Sharanad R. Shelar

स्वाक्षरी

मा. अधिष्ठाता मानव्य विद्याशाखा

स्वाक्षरी व शिक्का

प्राचार्य, डॉ. पी.एच. पवार

प्राचार्य,

जयहिंद शैक्षणिक ट्रस्टचे,

झुलाळ भिलाजीराव पाटील महाविद्यालय

शिक्षण महर्षि कें. नानासाहेब

झेड. बी. पाटील मार्ग, देवपूर, घुळे-४२४००२



झुलाळ भिलाजीराव पाटील महाविद्यालय

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Ref. No.

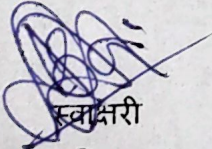
Date :

प्रमाणपत्र

प्रमाणित करण्यात येते की, आमच्या महाविद्यालयात शैक्षणिक वर्ष 2023-24 ते 2025-26 या कालावधीसाठी अध्यादेश 181 अंतर्गत सलग्नता सातत्य मिळवण्यासाठी प्रस्तावानुसार मागणी केलेल्या Certificate Course in Statistical Analysis या करिअर ओरिएंटेड कोर्सचा अभ्यासक्रम (Syllabus) तयार करण्यासाठी विद्यापीठाच्या निर्देशानुसार महाविद्यालय स्तरावर खालील प्रमाणे समिती गठीत करण्यात आली होती:-

1. प्रा.डॉ.एस.एस.राजपूत मा. अधिष्ठाता, (विज्ञान आणि तंत्रज्ञान -विद्याशाखा)
2. प्राचार्य, डॉ. पी.एच. पवार मा. प्राचार्य (झेड. बी. पाटील महाविद्यालय)
3. प्रा.जे.बी.जैन (बहिस्थ: विषय तज्ञ)
4. प्रा.पी.यु.पाटील (समन्वयक)

उपरोक्त समितीने अध्यादेश 181 मध्ये नमूद केलेल्या (अभ्यासक्रमाची मांडणी, विषयसंख्या, स्वरूप, प्रात्यक्षिक परीक्षा, गुणदान पद्धत इत्यादी) मुद्द्यांवर साधक बाधक चर्चा करून सदर कोर्सच्या अभ्यासक्रमास (Syllabus) अंतिम स्वरूप देऊन मान्यता दिलेली आहे.


स्वाक्षरी

(बहिस्थ: विषय तज्ञ)

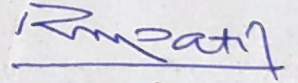
प्रा.जे.बी.जैन

सहयोगी प्राध्यापक,

प्रताप महाविद्यालय, अमळनेर

स्वाक्षरी

माननीय अधिष्ठाता विज्ञान आणि तंत्रज्ञान विद्याशाखा



स्वाक्षरी

(समन्वयक)

प्रा.पी.यु.पाटील

भ्रमणध्वनी क्र.:- ९४२३९१६४२६



स्वाक्षरी व शिक्का

प्राचार्य, डॉ. पी.एच. पवार

Principal

Jai Hind Educational Trust's
Zulal Bhilajirao Patil College
Wadi Bhokar Rd, Deopur, DHULE-२



झुलाळ भिलाजीराव पाटील महाविद्यालय

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प्रमाणपत्र

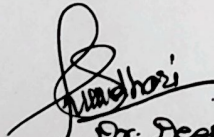
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Gender Studies

या करिअर ओरिएंटेड कोर्सचा अभ्यासक्रम (Syllabus) तयार करण्यासाठी विद्यापीठाच्या निर्देशानुसार महाविद्यालय स्तरावर खालील प्रमाणे समिती गठीत करण्यात आली होती:-

1. प्राचार्य डॉ. ए.पी. शर्करा मा. अधिष्ठाता, (मानव्य विद्याशाखा)
2. प्राचार्य, डॉ. पी.एच. पवार मा.प्राचार्य (झेड. बी. पाटील महाविद्यालय)
3. प्रा. डॉ. दिपक प्रसन्नचौधरी (बहिस्थ: विषय तज्ञ)
4. प्रा. डॉ. वरुणा संजय पाटील (समन्वयक)

उपरोक्त समितीने अध्यादेश 181 मध्ये नमूद केलेल्या (अभ्यासक्रमाची मांडणी, विषयसंख्या, स्वरूप, प्रात्यक्षिक परीक्षा, गुणदान पद्धत इत्यादी) मुद्द्यांवर साधक बाधक चर्चा करून सदर कोर्सच्या अभ्यासक्रमास (Syllabus) अंतिम स्वरूप देऊन मान्यता दिलेली आहे.

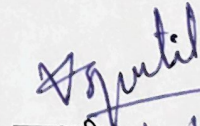

Dr. Deepak S. Chaudhari
स्वाक्षरी

(बहिस्थ: विषय तज्ञ)

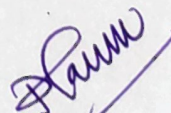
नाव पदनाम महाविद्यालयाचे नाव
Associate Professor, MOD, English,
S.V.P.S. Arts, Com. College, Dhule.

स्वाक्षरी

मा. अधिष्ठाता Jaihind विद्याशाखा


स्वाक्षरी (Vansha Patel)
(समन्वयक)

भ्रमणध्वनी क्र. 9423407231



स्वाक्षरी व शिक्का

प्राचार्य, डॉ. पी.एच. पवार

Principal

Jai Hind Educational Trust's
Zulal Bhilajirao Patil College
Wadi Bhokar Rd, Deopur, DHULE-2

प्रमाणपत्र

प्रमाणित करण्यात येते की, आमच्या महाविद्यालयात शैक्षणिक वर्ष २०१९-२० पासून अध्यादेश १८१ अंतर्गत संलग्नता मिळणेसाठी प्रस्तावानुसार मागणी केलेल्या 'संस्कृत सांभाषणम्' (Sanskrit Sambhashanam) या करिअर ओरिएण्टेड कोर्सचा अभ्यासक्रम तयार करण्यासाठी विद्यापीठाच्या निर्देशानुसार महाविद्यालयीन स्तरावर खालीलप्रमाणे समिती गठीत करण्यात आली होती.

१. प्राचार्य डॉ. पी.एच.पवार (प्राचार्य, झेड. बी. पाटील कॉलेज, धुळे)

२. प्राचार्य डॉ. प्रमोद पवार (मा. अधिष्ठाता, मानसनीति व सामाजिक शास्त्रे)

३. डॉ. बी. एस. भालवतकर - सदस्य, संस्कृतभाषा अभ्यास मंडळ (बहिस्थ विषयतज्ज्ञ)

४. प्रा. गायकवाड पी. बी. (समन्वयक, 'संस्कृत सांभाषणम्' कोर्स)

उपरोक्त समितीने अध्यादेश १८१ मध्ये नमूद केलेल्या मुद्द्यावर साधक बाधक चर्चा करून सदर कोर्स चा अभ्यासक्रमास अंतिम स्वरूप देऊन मान्यता दिलेली आहे.

प्राचार्य डॉ. प्रमोद पवार

मा. अधिष्ठाता, मानसनीति व सामाजिक शास्त्रे
)



डॉ. प्राचार्य डॉ. पी.एच.पवार
(प्राचार्य, झेड.बी.पाटील कॉलेज, धुळे)

डॉ. बी. एस. भालवतकर

बहिस्थ विषयतज्ज्ञ



प्रा. गायकवाड पी. बी.
समन्वयक, 'संस्कृत सांभाषणम्' कोर्स

**Kavayitri Bahinabai Chaudhari
North Maharashtra University, Jalgaon**

**Jaihind Educational Trust's
Zulal Bhilajirao Patil College, Dhule**

**A Proposal for
Certificate Course in
TRAVEL AND TOURISM
(Duration - One Year)
Under Ordinance 181**

(Faculty- HUMANITIES)

(With effect from June 2020-21)

TRAVEL AND TOURISM

• Introduction

The real purpose of education is to develop natural potential of students and to build their personality to deal with the challenges of the fast changing world. In the present scenario where the Schools and College are busy in preparing students for examinations these aspects hardly receive attention that they deserve. It is, therefore, necessary that out of Schools and College activities are undertaken to compensate for this deprivation. In few days tourism in recruitment in more for the sector . With this view in mind Jaihind Educational Trust's Z. B. Patil College , Dhule will be proposed to launch a "*Certificate Course in TOURISM: NATURE AND SCOPE* " for under graduation students starting from July, 1, 2019.

• Objectives:

1. To steer destination development.
2. To increases tourism influx
3. To spread the benefits of tourism
4. To reduce tourism impact on environment and local culture.
5. To prompt and market the country ultimately for tourism.

North Maharashtra University, Jalgaon Ordinance 181

College Nam	: Z.B.Patil College, Dhule.
Title of the Course	: TOURISM: NATURE AND SCOPE
Duration of Course	: 1 Year
Fees Structure	: 1000/-
Course Structure	: 1) Paper-1- TOURISM: NATURE AND SCOPE 2) Paper-2 – TOURIST GUIDE
Eligibility for Admission	: Arts, Commerce & Science

Course :

S N	Paper	Name of the Subject	Theory/ Practical	Teachin g Hours	Maximum marks allotted			Passing			Credit
					External	Internal	Total	External	Internal	Total	
1	Paper - I	TOURISM : NATURE AND SCOPE	Theory	90	60	40	100	24	16	40	6
2	Paper - II	TOURIST GUIDE	Theory	90	60	40	100	24	16	40	6
3	Paper - III	Practical	Practical	120	60	40	100	24	16	40	3

* Internal Marks are divided in 3 parts e.g. 05 marks for Attendance, 10 marks for Home Assignment Tutorial & 25 marks for Internal Test.

Minimum Staff : 02
 Mode of Examination : Test, Tutorial /Written Exam.
 Detail Syllabus : Enclosed

Syllabus and Examination pattern for Proposed Course

Theory Paper-I : TOURISM: NATURE AND SCOPE

Marks-100

Periods-90

UNIT 1 : TOURISM: NATURE AND SCOPE	12
a) Meaning and Definition	
b) Nature and Scope	
c) Types of Tourism	
UNIT 2 : TOURISM: PLANNING FACTORS	12
a) Planning	
b) Advertising and Marketing	
c) Travelling and Accommodation	
d) Facilities in Tourism	
UNIT 3 : TOURIST PLACES – I	14
a) Caves and Forts	
b) Museums	
c) Pilgrim places	
UNIT 4 : TOURIST PLACES – II	14
a) Hill Stations	
b) Tourist Centers : Sports and Education	

Question Paper Pattern For Theory Course

Certificate Course in Soft Skills and Personality Development

Time - 2 hrs.

Marks- 60

Instructions-

1. All questions carry equal marks.
2. All questions are compulsory.

- Que. 1. Answer in one sentence. (Any-6) 12
1. -----
 2. -----
 3. -----
 4. -----
 5. -----
 6. -----
 7. -----
 8. -----
 9. -----
- Que.2. Answer in three to four sentences. (Any-4) 12
1. -----
 2. -----
 3. -----
 4. -----
 5. -----
 6. -----
- Que.3. Answer in brief. (Any-3) 12
1. -----
 2. -----
 3. -----
 4. -----
 5. -----
- Que. 4 .Write a Short Note on. (Any-2) 12
1. -----
 2. -----
 3. -----
 4. -----
- Que. 5. Long answer questions. (Any-1) 12
1. -----
 2. -----
 3. -----

- 6. Karma Krishna, Basic to Tourist : Theory, Operation & Practice.
- 7. Mishra L.K., World Heritage sites in India.
- 8. Romila Thaper, Heritage Tourism Development.
- 9. Rai H.L.P., Development of Tourism in India.
- 10. Ratnadeep Singh, Dynamics of Historical, Cultural & Heritage Tourism.
- 11. Saxena Atul, New Trends in Tourism & Hotel Industry.

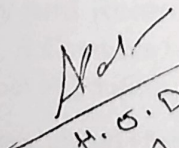
- **Strength of the Students:**

Total 20 students.

- **Teaching:**

Regular classes will be conducted daily **One Lecture** every day.

Coordinator for the Proposed Course	Resource Persons
<p style="text-align: center;">Dr. Amol Patil Assistant Professor Department of History Zulal Bhilajirao Patil College, Dhule.</p>	<p>Dr. D. N. WAGH HOD, PRATAP COLLEGE, AMALNER, DIST. JALGAON</p>
	<p>DR. S. J. PATIL NAVALNAGAR COLLEGE, DHULE</p>
	<p>DR. S. C. AMRUTKAR ASSOCIATE PROFESSOR, V.W.S COLLEGE, DHULE</p>
	<p>Shri Shripad Nandekar Counsellor Rajwade Sanshodhan Kendr, Dhule.</p>


 H. O. D.
 Dr. Amol P. Patil

Theory Paper-II : TOURIST GUIDE

Marks-40

Periods-52

TRAVEL AND TOURISM (PART - II)

UNIT 1 : TOURIST GUIDE 12

- a) Features of Guide
- b) Guide's work and Duties
- c) Guide's Training

UNIT 2 : TOURIST DEVELOPMENT - AGENCIES 14

- a) Tourist Agencies
- b) ITDC
- c) MTDC

UNIT 3 : TOURISM – NATIONAL DEVELOPMENT AND 12
IMPORTANCE

- a) Importance of Tourism
- b) Arts and Handicrafts
- c) Heritage Awareness
- d) Sale and Purchasing

UNIT 4 : HISTORICAL PLACE - VISIT 14

- a) Planning
- b) Tour
- c) Report Writing

• **Books for Study and Reference**

- 1. Agnihotri Vishal, A Complete book on Tourism and travel management.
- 2. Badan B.S., Impact of Tourism in South India.
- 3. Basham A.L., The Cultural History of India.
- 4. Bhatia A.K., Tourism Development.
- 5. Husain S.A., The National Culture of India.

**Kavayitri Bahinabai Chaudhari
North Maharashtra University, Jalgaon**

**Jaihind Educational Trust's
Zulal Bhilajirao Patil College, Dhule**

**A Proposal for
Certificate Course in
Soft Skills and Personality Development
(Duration - One Year)
Under Ordinance 181**

(Faculty- Humanities)

(With effect from June 2019)

Certificate Course in Soft Skills and Personality Development

- **Introduction**

The real purpose of education is to develop natural potential of students and to build their personality to deal with the challenges of the fast changing world. In the present scenario where the Schools and College are busy in preparing students for examinations these aspects hardly receive attention that they deserve. It is, therefore, necessary that out of Schools and College activities are undertaken to compensate for this deprivation. It is well known that the experiences gained at the formative age shape their personality. With this view in mind Jaihind Educational Trust's Z. B. Patil College , Dhule will be proposed to launch a "*Certificate Course in Soft Skills and Personality Development*" for under graduation students starting from July, 1, 2019.

- **About the Course:**

The course aims at to bring a basic awareness about the significance of soft skills in professional and inter-personal communications and facilitate an all-round personality development of the students from both rural and urban areas. Hard or technical skills help the students securing a basic position in one's life and career. But only soft skills can ensure a person retain it, climb further, reach a pinnacle, achieve excellence, and derive fulfillment and supreme joy. Soft skills comprise pleasant and appealing personality traits as self-confidence, psychological development, positive attitude, emotional intelligence, social responsibilities, flexibility, friendliness and effective communication skills. So the institution intended to introduce this course.

- **Objectives:**

1. Develop positive psychological and physical outlook in oneself.
2. Enhance healthy behaviours.
3. Improve interpersonal relationships.
4. Recognize and avoid risky situations and behaviours
5. Self actualization a successful person.

North Maharashtra University, Jalgaon
Ordinance 181

College Name : Z.B.Patil College, Dhule.
Title of the Course : Certificate Course In Soft Skill & Personality Development

Aims/Objective of the Course :

- Develop positive psychological and physical outlook in oneself.
- Enhance healthy behaviours.
- Improve interpersonal relationships.
- Recognize and avoid risky situations and behaviours
- Self actualization a successful person.

Duration of Course : 1 Year

Fees Structure : 2,000/-

Course Structure : 1) Paper-I- Communication Skills & Personality Development
2) paper - II- Soft Skills
3) Practical Course – Practical / Project
Based on Paper I & II

Eligibility for Admission : XIIth. Arts, Commerce & Science

Skeleton of Course :

S N	Paper	Name of the Subject	Theory/ Practical	Teaching Hours	Maximum marks allotted			Passing			Credit
					External	Internal	Total	External	Internal	Total	
1	Paper - I	Communication Skills and Personality Development	Theory	90	60	40	100	24	16	40	6
2	Paper - II	Soft Skills	Theory	90	60	40	100	24	16	40	6
3	Paper - III	Practical	Practical	120	60	40	100	24	16	40	8

* Internal Marks are divided in 3 parts e.g. 05 marks for Attendance, 10 marks for Home Assignment Tutorial & 25 marks for Internal Test.

Minimum Staff : 02

Mode of Examination : Test, Tutorial /Written Exam.

Detail Syllabus : Enclosed

Syllabus and Examination pattern for Proposed Course

Theory Paper-I : Communication Skills & Personality Development

Marks-100

Periods-90

-
1. **Meaning of Personality** (Period- 18)
 - 1.1 Nature, Meaning and Misconception in Personality
 - 1.2 The Developing Personality- Three main influences cited: Heredity, Environment, Situations.
 - 1.3 Type and Trait Approaches of Personality
 - 1.4 Personality Assessment- Self Report, Behavioral and Projective technique.
 - 1.5 Activity

 - K 2. **Effective Communication** (Period- 18)
 - 2.1 Communication- Meaning, Types, Communication Skills (Listening, Talking, Reading, Writing)
 - 2.2 Resume Writing. Writing Formal Letters.
 - 2.3 Public Speaking
 - 2.4 Role of Body Language in Effective Communication
 - 2.5 Activity

 3. **Group Discussion, Facing Job Interview** (Period- 18)
 - 3.1 Team Building,
 - 3.2 Group discussion
 - 3.3 Leadership Development
 - 3.4 Job Interview
 - 3.5 Activity-

 - K 4. **The Self- Concept** (Period- 18)
 - 4.1 Meaning of Self and Self-Concept,
 - 4.2 Dimensions of Self (Real, Ideal, Social, Physical, Mental, Consciousness, Self Perceive Self, Another Perceived Self)
 - 4.3 Developing our Self and Self – Esteem, Self Control.
 - 4.4 Self Motivation
 - 4.5 Activity-

 - 8 5. **Interpersonal Relation** (Period- 18)
 - 5.1 Interpersonal Relations- Meaning and Importance
 - 5.2 Johary Window
 - 5.3 Translational Analysis- Analysis of Ego States
 - 5.4 Life Position :- I'm OK, you're OK, I'm not OK, you're OK, I'm OK, you're not OK, I'm not OK, you're not OK
 - 5.5 Activity-

1. Positive Emotions and Well Being

(Period- 18)

- 1.1 Meaning of Emotion, Types of Emotions, What is Positive Emotion.
- 1.2 Positive Emotion and Health Resources
- 1.3 Emotional Intelligence - Major components of Emotional Intelligence, Difference Between EQ and IQ
- 1.4 Emotional Management
- 1.5 Activity-

2. Time Management and Goal Setting

(Period- 18)

- 1.6 Time Management –
- 1.7 Facing Examination
- 1.8 Goal Setting and Prioritization
- 1.9 Characteristic of Attainable Goals, Types of Goal
- 1.10 Activity-

3. Frustration and Conflict Management-

(Period- 18)

- 1.11 Frustration -Meaning, Sources of Frustration, Reaction to Frustration
- 1.12 Conflict - Meaning, Types
- 1.13 Direct and Indirect Ways to Solve a Problem
- 1.14 Defence Mechanism
- 1.15 Activity

4. Mental Health-

(Period- 18)

- 4.1 Definition and Principles of Mental Health
- 4.2 Stressor
- 4.3 Effect of stress
- 4.4 Stress management
- 4.5 Activity-

5. Healthy Practice for mind and Body

(Period- 18)

- 5.1 Eating Habits
- 5.2 Importance of Yoga and Meditation in our life,
- 5.3 Stress Management – Meaning, Types and Effects of Stress, Strategies of Stress Management.
- 5.4 Self Hypnotism
- 5.5 Activity –

Paper-III : Practical

Marks-100

Periods-120

Each of the practical takes the learners through a series of interactive activities, Discussion, Group Activities, Psycho Education, Role Plays, PPT Presentation, Videos, Games, etc., which stimulate both group and individual learning with the specific aim of developing Soft skills and personality development.

Out of 14 following activity any 10 activity will be for practical examination only.

- ✓1. Resume Writing
- ✓2. Public Speaking
- ✓3. Team Building
- ✓4. Group Discussion
- ✓5. Job Interview
6. Interpersonal relations
7. Decision making
- ✓8. Confidence building
9. Self Motivation
- ✓10. Goal Setting
- ✓11. Time management ✓
- ✓12. Facing the examination
- ✓13. Emotional Intelligence
14. Stress Management

Nature of Practical Examination :- Practical paper will be based on the pattern of the Activity and exercises. It will be of 4 parts of 25 marks each. It will comprise of both Paper- I & Paper-II. **Separate question paper and test slips will provided each student. Practical examination will be 3 hours. This paper covered 100 marks. Division of 100 marks is following methods-**

1. Practical Book	:-	25 Marks
2. Presentation	:-	25 Marks
3. Report Writing	:-	25 Marks
4. Oral	:-	25 Marks

Total = 100 Marks

- **References Books:**

- Atkinson and Hilgard's Introduction to Psychology, 14th Edition Edward E. Smith, Susa Nolen-Hoeksema, Barbara Fredrickson, Geoffrey Loftus, ISBN-10:0155050699 © 2003
- Bernard M. Bass and Irwin A. Berg, Objective Approaches to Personality Assessment, Princeton, New Jersey, 1959.
- Cavett Robert, The Cavett Robert Personal Development Course, Taraporevala Sons & Co. Private Ltd, Bombay.
- Choube Jaiprakash, Development of Human Skills. Vision Publication, Pune (2008)
- Collins Cobuild English Grammar.
- Forseyth. R Donelson, Group Dynamics, Second edition (1990), Brooks /Cole Publishing Company, California.
- Indrajit Bhattacharya, An Approach to Communication Skills, Delhi : Dhanpat Rai, 2008.
- Perry, S. How to enrich your life, (1995) Paul Press, Bombay.
- Ravi Aggarwal : Communication Today & Tomorrow, Sublime Publications, Jaipur, 2008.
- Robert M. Sherfield, Rhonda J. Montgomery Developing Soft Skills, 4th edition (2011) Pearson Publication, Delhi.
- Steve R. Baumgardner, Crothers M.K. Positive Psychology (2009) Pearson Education.
- Varinder Kumar, Bodh Raj, Manocha, Business Communication Skills, Kalyani Publishers, New Delhi, latest edition.
- Verma Shalini, Body Language Your Success Mantra (2005), S. Chand & Company Ltd, Delhi.

- **Admission Process:**

1. General Entrance Test (MCQs and Descriptive) will be conducted of 100 marks.
2. The fees of the course will be decided at the time of commencement of the course.

- **Strength of the Students:**

Total 60 (Sixty) students .

- **Teaching:**

Regular classes will be conducted daily **One Lecture every day.**

Coordinator for the Proposed Course	Resource Persons
Dr. Khalane Shashikant Hari Assistant Professor Department of Psychology Zulal Bhilajirao Patil College, Dhule.	Dr. G. B. Chaudhari HOD, A.Y.K.K. Mahila Mahavidyalaya, Anmol Nagar, Dhule
	Mrs. Varsha Shinde HOD, English Z.B. Patil College, Dhule.
	Mrs. Sonali.S. Bagul, Psychological Counsellor Chavara Public School, Dhule.
	Ku. Ketki Mhaskar Psychological Counsellor Chavara Public School, Dhule.

Question Paper Pattern For Theory Course

Certificate Course in Soft Skills and Personality Development

Time - 2 hrs.

Marks- 60

Instructions-

1. All questions carry equal marks.
2. All questions are compulsory.

Que. 1. Answer in one sentence. (Any-6) 12

1. -----
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8. -----
9. -----

Que.2. Answer in three to four sentences. (Any-4) 12

1. -----
2. -----
3. -----
4. -----
5. -----
6. -----

Que.3. Answer in brief. (Any-3) 12

1. -----
2. -----
3. -----
4. -----
5. -----

Que. 4 .Write a Short Note on. (Any-2) 12

1. -----
2. -----
3. -----
4. -----

Que. 5. Long answer questions. (Any-1) 12

1. -----
2. -----
3. -----

कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव

जयहिंद शैक्षणिक ट्रस्ट

इलाल भिलाजीराव पाटील महाविद्यालय, देवपूर, बुळे

A Proposal for

प्रमाणपत्र कोर्स

(Duration - One Year)

स्पर्धा परीक्षेसाठी मराठी व्याकरण प्रमाणपत्र अभ्यासक्रम

Certificate Course in Marathi Grammar for

Competitive Examination

(Faculty- Humanities)

मराठी विभाग

Ordinance 181

स्पर्धा परीक्षेसाठी मराठी व्याकरण प्रमाणपत्र अभ्यासक्रम
Certificate Course in Marathi Grammar for
Competitive Examination

प्रस्तावना :

आजच्या स्पर्धेच्या युगात विद्यार्थ्यांना टिकण्यासाठी, त्यांना सजग करण्यासाठी आपण सतत प्रयत्न करीत असतो. त्याचप्रमाणे आपल्या भाषिक कौशल्य विकसीत करण्यासाठी मराठी भाषा आणि मराठी भाषेचे व्याकरण येणे गरजेचे आहे. कोणत्याही स्पर्धा परीक्षांमध्ये विद्यार्थ्यांना मराठी व्याकरणावर प्रश्न विचारले जात असतात. परंतु आपल्याच प्रमाण भाषेतील व्याकरणांमध्ये विद्यार्थ्यांचे प्रश्न चुकीचे सोडवीतात. म्हणून हा अभ्यासक्रमाने विविध स्पर्धा परीक्षासाठी त्यांची तयारीही अधिक प्रमाणात होईल. यासाठी स्पर्धा परीक्षांसाठी मराठी व्याकरण हा प्रमाणपत्र अभ्यासक्रम योजला आहे.

अभ्यासक्रमाची उद्दीष्टे :

- विविध स्पर्धा परीक्षांसाठी आवश्यक मराठी भाषा व्याकरणाची तयारी करून घेणे.
- मराठी भाषेच्या व्याकरणातील महत्वपूर्ण संकल्पना समजून घेणे.
- मराठी भाषेच्या व्याकरणातील संकल्पनांच्या उपयोजनाचे कौशल्य आत्मसात करणे.
- स्पर्धा परीक्षांच्या दृष्टीने आवश्यक मराठी भाषेच्या लेखनाचे स्वरूप जाणून घेणे.
- मराठी भाषेतील लेखनासाठी उपयुक्त कौशल्ये आत्मसात करणे.
- मराठी भाषेतील लेखनाचा सराव करणे.

कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव

Ordinance 181

महाविद्यालयाचे नाव : Z. B. Patil College, Dhule.
अभ्यासक्रमाचे नाव : स्पर्धा परीक्षेसाठी मराठी व्याकरण प्रमाणपत्र अभ्यासक्रम
Certificate Course in Marathi Grammar for
Competitive Examination

प्रस्तावना :

अभ्यासक्रमाचा कालावधी : १ वर्ष
कोर्सची फी : 500/-
अभ्यासक्रमाची रचना : 1) Paper-I- मराठी व्याकरण
2) paper - II- लेखन कौशल्य
3) Practical Course – Practical / Project
Based on Paper I & II
अभ्यासक्रमासाठी पात्रता : पदवी आणि पदव्युत्तर विभाग (कला, वाणिज्य आणि विज्ञान)
अभ्यासक्रम माहिती :

S N	Paper	Name of the Subject	Theory/ Practical	Teachi ng Hours	Maximum marks allotted			Passing			Credit
					External	Internal	Total	External	Internal	Total	
1	Paper – I	मराठी व्याकरण	Theory	90	60	40	100	24	16	40	6
2	Paper - II	लेखन कौशल्य	Theory	90	60	40	100	24	16	40	6
3	Paper - III	प्रात्वाशिके	Practical	120	60	40	100	24	16	40	8

कमीत कमी शिक्षक / प्राध्यापक : 03

परीक्षा पध्दती : चाचणी , गृहपाठ , लेखी परीक्षा

प्रस्तावित कोर्ससाठी अभ्यासक्रम आणि परीक्षेचा नमुना

Paper-I- मराठी व्याकरण लेखी परीक्षा

मराठी व्याकरण स्पर्धा परीक्षा प्रमाणपत्र अभ्यासक्रम

(Certificate Course in Marathi Grammar for Competitive Examination)

गुण-100

तासिका-90

१.१ शब्दांच्या जाती

(विकारी शब्द आणि अविकारी शब्द : व्याख्या , स्वरूप व प्रमुख प्रकार)

१.२ विभक्तीविचार

(विभक्तीचे कारकार्थ , विभक्तीचे प्रत्यय)

१.३ लिंगविचार व वचनविचार

(लिंग: स्वरूप व प्रकार , वचन: स्वरूप व प्रकार)

१.४ प्रयोगविचार

(प्रयोग म्हणजे काय ? कर्तरी , कर्मणी व भावे प्रयोग: स्वरूप व लक्षण)

१.५ वाक्याचे प्रकार

(केवल , विधानार्थी , विध्यर्थी , आज्ञार्थी वाक्य , मिश्र , संयुक्त , होकारार्थी , नकारार्थी , उद्गारार्थी वाक्य व वाक्यरूपांतर)

मराठी व्याकरण स्पर्धा परीक्षा प्रमाणपत्र अभ्यासक्रम
(Certificate Course in Marathi Grammar for Competitive
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पेपर क्र. II- लेखन कौशल्य

गुण -100

तासिका -90

१. संधी व समास

(संधी म्हणजे काय ? स्वरसंधी , व्यंजनसंधी , विसर्गसंधी)

१.१ समास म्हणजे काय ?

समासाचे प्रकार : अव्ययीभाव, तत्पुरुष, व्द्वंद्व , बहुव्रीही)

१.२ शब्दसिध्दी

(तत्सम , तद्भाव , साधित , उपसर्गघटीत , प्रत्ययघटित , सामासिक शब्द ,
समानार्थी , विरुद्धार्थी , अनेकार्थी , शब्दसमुहासाठी एक शब्द)

१.३ अलंकार

(शब्दालंकार - अनुप्रास , यमक , श्लेष आणि अर्थालंकार

उपमा , उत्प्रेक्षा , रूपक)

१.४ म्हणी व वाक्यप्रचार यांचा वाक्यात उपयोग

१.५ कल्पनाविस्तार लेखन (कल्पनाविस्तार स्वरूप व तंत्र)

१.६ सारांश लेखन

१.७ निबंध लेखन

मराठी व्याकरण स्पर्धा परीक्षा प्रमाणपत्र अभ्यासक्रम
(Certificate Course in Marathi Grammar for Competitive
Examination)

पेपर क्र. ०३ : प्रात्यक्षिक

गुण -100

तासिका -120

१. एक गद्यउतारा निवडून त्यातील नामे व सर्वनामे शोधा आणि त्यांच्या प्रकारासह यादी तयार करा.
२. एखादा गद्य उतारा निवडून त्यातील विशेषणे शोधा आणि त्यांच्या प्रकारासह त्यांची यादी करा.
३. सर्वनामाच्या उपप्रकारांविषयी माहिती लिहून प्रत्येक प्रकारांतील एका सर्वनामाच्या वाक्यात उपयोग करून दहा वाक्ये तयार करा.
४. कोणत्याही पाच विशेषणांचा वाक्यात उपयोग करून प्रत्येकी दहा वाक्ये तयार करा
५. एखाद्या गद्य उतारा निवडून त्यातील अव्यये शोधा आणि त्यांच्या प्रकारांसह यादी तयार करा.
६. कोणत्याही पाच क्रियाविशेषण / शब्दयोगी / उभयान्वयी / केवलप्रयोगी अव्ययांचा वाक्यात उपयोग करून प्रत्येकी दहा वाक्ये तयार करून लिहा.
७. एखाद्या गद्य उतारा निवडून त्यातील विभक्ती प्रत्यय शोधा आणि त्यांची प्रकारानुसार यादी तयार करा.
८. कोणतेही दहा शब्द निवडून त्यांची तिन्ही लिंगामधील आणि दोन्ही वचनांमधील रूपे दर्शविणारा तक्ता तयार करा.
९. कोणतेही दहा वाक्ये निवडून त्यांची तिन्ही प्रयोगांमधील रूपे तयार करा.
१०. कोणतेही दहा वाक्ये निवडून त्यांचे आज्ञार्थी , होकारार्थी , नकारार्थी , मिश्र, संयुक्त वाक्ये असे रूपांतर करून वाक्ये लिहा.
११. संधी म्हणजे काय ते सांगून संधीच्या प्रत्येक प्रकाराची दहा उदाहरणे देऊन त्यातील संधीच स्पष्टीकरण द्या .
१२. दहा सामासिक शब्द निवडून त्यांतील समासाचा प्रकार ओळखा आणि त्या शब्दांचा वाक्यात उपयोग करून प्रत्येकी किमान पाच वाक्ये तयार करा.
१३. कोणतेही पंचवीस शब्द निवडून त्यांच्या समानार्थी शब्दांची यादी तयार करा.
१४. कोणतेही पंचवीस शब्द निवडून त्यांच्या विरुद्धार्थी शब्दांची यादी तयार करा.

१५. शब्दसमुहासाठी एक शब्द या प्रकारातील कोणतेही पंचवीस शब्द निवडून त्यांचा वाक्यात उपयोग करून प्रत्येकी एक वाक्य तयार करा.
१६. कोणत्याही पाच कविता निवडून त्यातील अलंकार ओळखून त्यांचे स्पष्टीकरण करा.
१७. एखाद्या गद्य उतारा निवडून त्यातील उपमा, अलंकाराची उदाहरणे शोधा आणि त्यांचे स्पष्टीकरण करा.
१८. कोणतेही दहा वाक्प्रचार निवडून त्यांचा वाक्यात उपयोग करून प्रत्येकी पाच वाक्ये तयार करा.
१९. कोणत्याही दहा म्हणी निवडून त्यांचा वाक्यात उपयोग करून प्रत्येकी पाच वाक्ये तयार करा.
२०. निबंधाचा विषय देऊन त्यावर ३०० शब्दांत निबंध लिहण्यास सांगणे.
२१. एखादा उतारा देऊन १/३ शब्दात पुन्हा सारांश लेखन तयार करण्यास सांगणे.
२२. एखादा बोधात्मक विचारांचा उतारा देऊन प्रश्नांची उत्तरे शोधण्यास सांगणे.

अंतर्गत परीक्षा -

१. प्रात्यक्षिक परीक्षा	२० गुण
२. मौखिक परीक्षा	२० गुण
३. लेखी परीक्षा	६० गुण
	१०० गुण

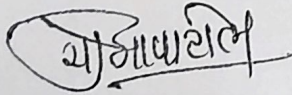
संदर्भसाहित्य :

१. व्यावहारिक मराठी - ल. रा. नसिराबादकर , फडके , कोल्हापुर
२. मराठीचे व्याकरण - लीला गोविलकर , शब्दालय , श्रीरामपुर.
३. उपयोजित मराठी भाग १,२,३ - प्रभाकर जोशी, किशोर पाटील.
४. सुगम मराठी व्याकरण व लेखन - मो. रा. वाळंबे, नितीन प्रकाशन , पुणे.
५. व्यावहारिक मराठी - संपा. स्नेहल तावरे, स्नेहवर्धन प्रकाशन , पुणे.
६. उपयोजित मराठी - संपा . रमेश वरखेडे , महाराष्ट्र विद्यापिठ ग्रंथनिर्मिती , नागपुर
७. व्यावहारिक मराठी - प्रकाश परब, मिथुन , मुंबई.
८. कार्यालयीन कौशल्ये - अक्षय घोरपडे , अथर्व प्रकाशन, जळगाव.
९. तुमचे आमचे मराठी व्याकरण - श्रीपाद भागवत , विद्याभारती प्रकाशन , नागपुर
१०. अभिनव मराठी व्याकरण , शनवारे, श्रीधर विद्याविकास मंडळ, नागपुर
११. व्यावहारिक मराठी, संदीप सांगळे, डायमंड प्रकाशन, पुणे

प्रवेश प्रक्रिया:

- कोर्स सुरु होण्याच्या वेळी फी निश्चित करण्यात येईल.
- विद्यार्थ्यांची संख्या : एकूण 30 (तीस) विद्यार्थी.
- आठवड्यातून तीन तासिका घेण्यात येतील.

Co-ordinator for the Proposed Course	Resource Persons
Dr. Yogita patil Assistant Professor Head of Department Marathi Zulal Bhilajirao Patil College, Dhule.	Dr. Moreshwar Nerkar Assistant Professor Department of Marathi Zulal Bhilajirao Patil College, Dhule..
	Prof. Bhagyashri Patil Assistant Professor Department of Marathi Zulal Bhilajirao Patil College, Dhule
	Dr. Shashikala Pawar
	Prof. Usha Patil



(डॉ. योगिता आशुतोष पाटील)
मराठी विभाग प्रमुख
सकुल बिलाजीराव पाटील महाविद्यालय, धुळे

कोर्ससाठी प्रश्नपत्रिका नमुना

मराठी व्याकरण स्पर्धा परीक्षा प्रमाणपत्र अभ्यासक्रम
(Certificate Course in Marathi Grammar for Competitive Examination)

वेळ - 2 तास.

गुण - 60

सूचना-

1. सर्व प्रश्न समान गुण आहेत.
2. सर्व प्रश्न अनिवार्य आहेत.

प्रश्न 1. एका वाक्यात उत्तर लिहा. (कोणतेही -६)

12

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प्रश्न 2 तीन ते चार वाक्यांमध्ये उत्तर लिहा . (कोणतेही -४)

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प्रश्न 3. थोडक्यात उत्तर लिहा. (कोणतेही -४)

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प्रश्न 4. एक लहान टिपा लिहा . (कोणतेही -४)

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प्रश्न 5 दिव्योत्तरी प्रश्नांची उत्तरे (कोणतेही -१)

12

1. -----
2. -----

Geography

A Proposal for
Certificate Course in
Data Analysis and Cartographic Techniques
(Duration - One Year)

Submitted to
Kavayitri Bahinabai Chaudhari
North Maharashtra University, Jalgaon.

Under Ordinance-181

(Faculty-Science)

(With effect from June 2020)

Department of Geography
JET's Zulal Bhilajirao Patil College, Dhule

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Jaihind Educational Trust's

Zulal Bhilajirao Patil College, Dhule

A Proposal for

Certificate Course in Data Analysis and Cartographic Techniques

• **Introduction**

Data analysis is very essential to know the distribution of various geographical factors and spatio- temporal changes among theme. We get clear picture about distribution and changes with the help of graph and maps. Therefore in this certificate course more emphasis is given on data analysis and cartographic techniques.

Geographical data analysis will be conducted manually as well as with the help of MS-Excel. Since computer knowledge is the prime demand of advance techniques and challenges real application of computerized data analysis will be conducted with the help of MS-Excel and AutoCAD. Cartography deals with the technique of map making. Maps are not only useful for geographical study but also for tourists, traders, administrators, planners and general users. Maps have become tool for everyone today. Keeping in view, to give the knowledge of the data analysis and cartographic techniques have been proposed for the under graduate students.

• **Objectives**

The main objective of the course is to impart adequate knowledge & computer skills so as to enable the students to take up knowledge in the field of cartography.

- 1) To acquaint the students with the basic of cartographic techniques.
- 2) To give basic information about various tools and techniques used in making maps.
- 3) To enable the students to acquire the knowledge of data analysis.
- 4) To introduce to the students a use of MS-Excel and Auto CAD in Cartography.
- 5) To develop the skill of map making and create immense career opportunities to the students
- 6) To promote scientific & technological applications in Geographical teaching & research work.

- **SCOPE OF COURSE**

Cartography is the knowledge associated with the Art, Science & Technology of maps. Map represents and communicates about our world. Almost all maps of places for example Population characteristics, Settlement patterns, Vegetation Cover, Economic and Agricultural activities etc on the earth are created today using computerized system. The technological revolution has created an unprecedented demand for people who understand and how to make & use of maps.

To enable the students to know how to analyse the geographical data manually as well as with the help of MS-Excel and AutoCAD.

COURSE STRUCTURE

- **Course Focus**

Undergraduate Certificate Course in Data Analysis and Cartographic Techniques for the student of Geography. This course caters to the needs of students, teachers, researchers & all those who want to make intelligent use of Cartographic techniques in the field of Geography.

Title of the course	: Data Analysis and Cartographic Techniques
Level of the course	: UG Level
Course Fees	: 500/-
Duration of the course	: 1 Year
Examination Pattern	: (60 Marks external/ 40 Marks Internal)
Intake Capacity	: 25 students
Eligibility	: Undergraduate of any discipline.
Evaluation	: Theory & Practical Examination.
Standard of Passing	: Minimum 40%
Teachers Qualification	: M.A./M.Sc. Geography with NET/SET/ Ph.D.
Course Structure	: 1) Paper I- Theory - Cartographic Techniques 2) Paper II-Theory - Data Analysis (Manually) 3) Paper III -Practical-Practical Based on Paper I and II
Minimum Staff	: 04
Strength of the Students	: 25
Teaching	: Regular Classes will be conducted - 4 theory periods per course per week and one practical per Week.
Mode of Examination:	Written Examination for Theory Papers and Practical Examination with the help of Computer

Skeleton of Course

Paper	Name of the Paper	Teaching Hours	Maximum Marks Allotted			Passing			Credit
			External	Internal	Total	External	Internal	Total	
I	Cartographic Techniques	90	60	40	100	24	16	40	06
II	Data Analysis	90	60	40	100	24	16	40	06
III	Practical Course	120	60	40	100	24	16	40	06

*Nature of Practical Examination: Practical Paper will be based on the Paper I and Paper II. Data Analysis and cartography will be conducted manually and also with the help of MS-Excel and AutoCAD. Practical Examination (External) will be of 3 hours.

PAPER 1 THEORY – CARTOGRAPHIC TECHNIQUES

(Periods-90)

Unit I: Introduction to Cartography

(30 Periods)

- A) Meaning, Definition and Importance of Cartography
- B) Nature and Scope of Cartography
- C) History of Cartography in modern India
- D) Mapping Techniques
 - a) Qualitative Mapping
 - b) Quantitative Mapping
 - c) Shading, Colours, Symbols

Unit II: Maps

(30 Periods)

- A) Types of Maps
 - a) Thematic Map
 - b) Topological Map
 - c) Elements of Map
 - d) Uses of maps in various fields
- B) Cartographic Techniques - study of spatial patterns of distribution
 - a) Types of Graphs
 - b) Choropleth & Isopleth Maps
 - c) Chorochromatic Method– Pie Diagram, Divided circle, Wind Rose.
 - d) Flow Map

Unit III Application of Computer Cartography

(30 Periods)

- A) Application of computer cartography in the various fields
 - a) Environmental Sciences
 - b) Earth Science
 - c) Agriculture
 - d) Disaster Management
 - e) Urban Planning
 - f) Water Resources
- B) Introduction to MS-Excel
 - a) Application of MS Excel in Practical Geography
 - b) Uses of MS-Excel in Cartography

PAPER 2 - DATA ANALYSIS

(Periods -90)

Unit I: Introduction to Data Analysis

(25 Periods)

- A) Definition, Purpose and Application of Data Analysis in various fields
- B) Methods of Data Analysis
- C) Data Collection and Management
 - a) Geographical Data Management
 - b) Interpretation and Analysis of Geographical Data

Unit II: Data Analysis in Population, Settlement and Agriculture Geography *(30 Periods)*

- A) Data Analysis in Population Geography
 - 1) Population Density (Types, Characteristics, and Examples)
 - a) Arithmetic Density
 - b) Nutritional Density
 - c) Economic Density
 - d) Agricultural Density
 - 2) Birth Rate, Death Rate, Infant Mortality Rate
 - 3) Natural Growth Rate
 - 4) Sex Ratio-Age Sex Pyramid

Classification of Population according to Age Groups

- B) Data Analysis in Settlement and Agricultural Geography
 - 1) Classification of Urban and Rural Settlements according to size and population
 - 2) Classification and distribution of crops
 - i) Crop Combination Method
 - ii) Crop Diversification

Unit III: Morphometric Analysis and Interpretation of Topographical Maps *(25 Periods)*

- A) Stream Frequency and Drainage Density
- B) Average Slope (Wentworth Method)
- C) Interpretation of Relief, Drainage, and Vegetation Characteristics
- D) Interpretation of settlements, Transport and Communication system

Unit IV: Introduction to Remote Sensing, GIS and GPS

(10 Periods)

- A) Definition and Uses of Remote Sensing
- B) GIS-Recent trends in GIS
- C) GPS-Application of GPS in various Geographical Fields

PAPER III

PRACTICAL WITH THE HELP OF MS-EXCEL AND AUTO-CAD

(Periods - 120)

Unit I: Data Analysis with the help of MS_Excel

A) Introduction to MS_Excel

- a) Worksheet, Function of Menu, Tools,
- b) Formula Bar, Data Feeding, Editing Techniques
- c) Editing Chart

B) Quantitative Techniques in Cartography

(Practical of- Graphs, Charts, Pie Diagram, Wind Rose, Divided Circle)

C) Population Data Analysis

- a) Population Density
 - i) Arithmetic Density ii) Agricultural Density iii) Economic Density

b) Sex Ratio

c) Child Women Ratio

C) Climate Data Analysis

a) Rainfall and Temperature

b) Climograph

D) Agricultural Data Analysis

a) Crop Combination

b) Crop Diversification

c) Crop Concentration

Unit II: Introduction of AutoCAD

A) Tool bars, layers, Function of Model

B) Create layer

C) Insert the map

D) Layout, Map Digitization

Unit III: Application of AutoCAD

A) Digitizing the map

B) Create Topology

C) Polygon, Hatching

D) Map Preparation

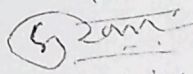
i) Segment Map, ii) Dot Map, iii) Choropleth Map, iv) Isopleth Map

iv) Drainage Map

Reccomended Books:-

- Gregory's (1978) : Statistical Methods & the Geographers. 4th Ed.
- Mahmood. A (1977): Staistical Methods in Geographical Studies, New Delhi
- Robinson (1995): Elements of Cartography, John Wiley & Sons, New York.
- Monkhouse, F.J & Wilkinson.H.R (1963)- Maps & Diagrams, London.
- Dent B.D (1999): Cartography : Thematic Map Design, Boston.
- Cromley R.G (1992): Digital Cartography, Prentice Hall of India, New Delhi.
- Cartography: Dr. S.B Shinde, Kolhapur, India.

Co-ordinator for the Proposed Course	Resource Persons for Proposed Course
Dr .P.K.Patil Zulal Bhilajirao Patil College, Dhule	Dr. Manisha S. Pawar A.Y.K.K's Arts Mahila College, Dhule
	Prof. Sadashiv S. Suryawanshi. SSVPS's Arts and Commerce College, Dhule
	Prof. Premraj S. Patil SSVPS's Science College, Dhule
	Prof. Jayesh N.Kor Jai-Hind Jr. College, Dhule
	Prof. Priyanka Nikumbh Z. B. Patil College, Dhule.
	Dr. V.K. Chavan Z. B. Patil College, Dhule.
	Prof. Punam B. Deore. Z. B. Patil College, Dhule
	Dr. Vidya S. Patil Z. B. Patil College, Dhule
	Prof. Manoj. G. Baccha Z. B. Patil College, Dhule
	Prof. Sushil B. Patil Z. B. Patil College, Dhule


 Dr. P.K. Patil
 HOD, Geography
 Co-ordinator
 Certificate Course
 Dhule

Certificate Course. Economics.

Certificate Course in Small Scale Business and Entrepreneurship Development

Syllabus for the Proposed Course:

THEORY PAPER - I

Marks-100
Periods-90

Title of the Paper:-

Introduction of Small Scale Business & Entrepreneurship Development

Unit - I: Introduction 11-44 *Leheleke*

- ✓ 1.1 Meaning of entrepreneur
- ✓ 1.2 Nature and Importance of Entrepreneurship
- ✓ 1.3 Features of Entrepreneurship
- ✓ 1.5 Functions of an Entrepreneur
- ✓ 1.6 Qualities of Entrepreneurship

Unit - II Development of Entrepreneurship

- ✓ 2.1 Concept of Entrepreneurship development 142
- ✓ 2.2 Objectives of Entrepreneurship development program
- 2.3 Phases of Entrepreneurship development
- 2.4 Factors of affecting Entrepreneurship development program

Unit - III Small Enterprises 34-37/38-40
34/37

- 3.1 Definition
- 3.2 Characteristics
- 3.3 Objectives
- 3.4 Role of Small Enterprises in Economic Development
- 3.5 Problems

Certificate Course in Small Scale Business and Entrepreneurship Development

Syllabus for the Proposed Course:

THEORY PAPER – II

Marks-100

Periods- 90

Title of the Paper: Rural and Women Entrepreneurship

Unit-I Rural Entrepreneurship

- 1.1 Concept of Rural Entrepreneurship
- 1.2 Need
- 1.3 Development
- 1.4 Problems

Unit-II Women Entrepreneurship Joveral Madam

- 2.1 Concept of Women Entrepreneurship
- 2.2 Need
- 2.3 Development
- 2.4 Problems

Unit- III District Industries Centres Baehhar Madam

- 3.1 Objectives of DIC
- 3.2 Functions of DIC .
- 3.3 Schemes of DIC

SUGGESTED READING

- 1) Entrepreneurial Development – S.S. Khanka, S. Chand & Company Ltd, 2007
- 2) Entrepreneurship Development- E.Gordon, K. Natarajan Himalaya Publishing House, 2008
- 3) Business Entrepreneurship – CA Y. A. Saindane & S. P. Palve, Prashant Publication, 2016
- 4) Entrepreneurship Development – Vasnt Desai, Himalaya Publishing House, 1991
- 5) Business Maharaje - Gita Piramal ,Mehata publication
- 6) Tatayan – Ratan Tata
- 7) Dhirubhaism- Dhirubhai Ambani
- 8) उद्योजकता विकास -डॉ प्रशांत पब्लिकेशन्स ,अरविंद चौधरी.डॉ ,छाया सुखदाणे .डॉ ,अरुण येवले .
२०१०
- 9) उद्योजकता विकास - संकल्पना आणि व्यवहार - डॉ पिंपाळापुरे अँड कं ,प्रभाकर देशमुख
पब्लिशर्स,

Admission Process:

- Open to All.
- Registration forms will be filled.

Strength of the Students:

- Total 30 students.

Certificate Course in Small Scale Business and Entrepreneurship Development

Syllabus for the Proposed Course:

PRACTICAL PAPER – III

Period =120

Marks-60+40=100

1. **Field Work / Practical / Project basis on paper 1 & 2.**

(Visits to small businesses in Dhule city like Restaurants, Dairy business, Sweet marts etc.)

2. **Project Work- 60 marks**
3. **Practical and Viva- 40 marks**

North Maharashtra University, Jalgaon

Ordinance 181

- College Name** : JET's Z. B. Patil College, Dhule.
- Title of the Course** : Certificate Course in Small Scale Business and Entrepreneurship Development.
- Aims/Objective of the Course** : 1. To understand the concept of entrepreneurship.
2. To know the qualities of entrepreneur.
3. To acquire basic understanding of entrepreneurship and various accepts of managing small business.
4. To enhance the entrepreneurship skills in the students.
5. To increase the employment level in the society
- Duration of Course** : 1 year
- Fees Structure** : 2000/-
- Course Structure** : 1) Paper -I Introduction of Small Scale Business & Entrepreneurship Development
2) paper - II Rural and Women Entrepreneurship
3) Practical Course – Practical / Project Based on Paper I & II
- Eligibility for Admission** : 1) XII Arts, Commerce, Science.

Evaluation of Course :

S N	Paper	Name of the Subject	Theory / Practic al	Teac hing Hour s	Maximum marks allotted			Passing			Credit
					Extern al	Internal	Total	External	Internal	Total	
1	Paper - I	<u>Introduction of Small Scale Business Entrepreneurship Development</u>	Theory	90	60	40	100	24	16	40	3
2	Paper - II	<u>Rural and Women Entrepreneurship</u>	Theory	90	60	40	100	24	16	40	3
3	Paper - III		Practical	120	60	40	100	24	16	40	8

* Internal Marks are divided in 3 parts e.g. 05 marks for Attendance, 10 marks for Home Assignment Tutorial & 25 marks for Internal Test.

Minimum Staff : 02
 Mode of Examination : Test, Tutorial /Written Exam.
 Detail Syllabus : Enclosed

North Maharashtra University, Jalgaon

Ordinance 181

College Name : Jai Hind Educational Trust's Zulai Bhalajirao Patil
College, Dhule

Title of the Course : POLITICAL PARTICIPATION OF TRIBAL WOMEN
(DHULE TALUKA)

Aims/ Objective of the Course :

- What is political participation ? What are the reasons behind it's formation ? What are the reasons of political depression of tribal women in Dhule tehsil ? To study their political participation.
- To see the advantages of political participation and empowerment of tribal women.
- To discuss the consequences of means of political socialization amongst the tribal girls and women. After it, to discuss on the social and political condition of them.
- To understand the reasons and solutions after knowing whether there is any political participation of tribal women or not in Dhule tehsil.
- To increase the participation of the students, to create new political leadership, to develop political ethics etc. all these processes go through political participation.

Duration of Course : 1 Year

Fees Structure : 2000/-

Course Structure : 1. Paper- I :
2. Paper II :
3. Paper- II : Practical Course / Practical / Project

Based on Paper I

Eligibility for Admission : First, Second & Third Year Arts, Science and Commerce

Skeleton of Course :

Sr. No.	Paper	Name of the Subject	Theory/ Practical	Teaching Hours	Maximum marks allotted			Passing			Credit
					External	Internal	Total	External	Internal	Total	
1	Paper I	Basic Concept on Political Participation	Theory	90	60	40	100	24	16	40	03
2	Paper II	Introduction to Local Self Govt. of Maharashtra	Theory	90	60	40	100	24	16	40	03
3	Paper III	Field Work/ Project Work	Practical	120	60	40	100	24	16	40	08

- Internal Marks are divided in 3 parts e.g. 05 marks for attendance, 05 marks for behavior, 10 marks for Home Assignments Tutorial & 20 marks for Internal Test.
- Minimum Staff : 03
- Mode of Examination : Test, Tutorial / written exam
- Detail Syllabus : Enclosed

Jai Hind Educational Trust's
Zulal Bhilajirao Patil College, Dhule - 424002
(NAAC Reaccredited with Grade - B ++ (Cycle - III))

Faculty : Humanities

A Proposal For
CERTIFICATE COURSE IN
POLITICAL PARTICIPATION OF TRIBAL WOMAN
(DHULE TALUKA)
(Duration - 1 Year)

Introduction :

There is an important place for the rights and the movements of tribal women in political and social movements. The tribal woman should be aware of their political rights. Their participation should be increased in the central, state and local level as well as in the areas of urban and rural Local Govt. system. Their active participation should be increased in the social, political and economical system. The study of the political socialization of tribal women.

The political participation of the tribal women has not been done in the present era. Their political participation is very less. To empower these tribal women, we need to create an awareness among them. They should be socially, economically, politically strong in 21st century. To inculcate the political values in tribal women in tribal community. This course will help those tribal people who are deprived from their rights. So, there is the need of introducing the resourceful knowledge about tribal women's rights through this certificate course.

About the Course :

The certificate course is related to the process of political participation of tribal woman. To notice the social, economical and political questions of tribal women and to control their persecution treatment, the member of Human Rights Commission, Mr. A. S. Anand has published a report. It is entitled as, **Report on Prevention of Atrocities Against Schedule Tribe**. In this report, Mr. Anand has regretted that it is not implemented properly. He also expresses that the people do not have such mentality to implement it.

Tribal Community is still not aware of their political rights. Apart from this, very few tribal women take leadership in political system. Though there are a number of tribal women

in Dhule tehsil, their participation in political system is not like that as it should be. These tribal women have a lot of problems. Because of the illiteracy of these tribal women, they are unable to understand the Government Schemes.

The role of the tribal women is so important in the political system of district and tehsil. There is an important place for the process of participation in political science. To increase the participation of the people, to create new political leadership, to develop political ethics etc. all these processes go through political socialization.

Objectives :

- To study the history of political movements of women.
- To analyse the political rights which are given in the constitution.
- What is political participation ? What are the reasons behind its formation ? What are the reasons of political depression of tribal women in Dhule tehsil ? To study their political participation.
- To find out the elements which are responsible for the political participation of tribal women.
- To see the advantages of political participation and empowerment of tribal women.
- To discuss the consequences of means of political participation amongst the tribal girls and women. After it, to discuss on the social and political condition of them.
- To understand the reasons and solutions after knowing whether there is any political participation of tribal women or not in Dhule tehsil.

**CERTIFICATE COURSE IN
POLITICAL PARTICIPATION OF TRIBAL WOMEN (DHULE TALUKA)
Syllabus for the Proposed Course**

Theory Paper - II

Marks : 100

Periods : 90

Title of the Paper : Introduction to Local Self Govt. of Maharashtra

Unit - I : Rural Local Self Government

- 1.1 Meaning, Definition, Nature, Importance
- 1.2 Tribal Women In Panchayat Raj
- 1.3 Role of Gramsabha for tribal women

Unit - II : Urban Local Self Government

- 2.1 Meaning, Definition, Nature, Importance
- 2.2 Influencing Factors of Urban Local Government
- 2.3 Tribal Women in Urban Local Government

Unit - III : Tribal Women in Local Self Govt. – Public Opinion

- 3.1 Meaning, Definition, Nature
- 3.2 Tribal man-women Relationship in Panchayat Raj
- 3.3 Tribal Women's Relationship with Political Parties

Unit - IV : Interview Techniques and Group Discussions

**CERTIFICATE COURSE IN
POLITICAL PARTICIPATION OF TRIBAL WOMEN (DHULE TALUKA)
Syllabus for the Proposed Course**

Practical Paper - III

Marks : 100

Periods : 120

1. Title, Field work / Practical / Project Basic on Paper I and II
2. Project work - 60 marks
3. Practical and Viva - 40 marks

SUGGESTED READING

1. अलीम धकील आणि जोत्स्ना सोनखासकर, राजकीय समाजशास्त्र, प्रतिमा प्रकाशन, पुणे, 2015.
2. अर्जुनराव दर्शनकार, पंचायतराज आणि नागरी प्रशासन, वैलास पब्लिकेशन्स, औरंगाबाद.

**CERTIFICATE COURSE IN
POLITICAL PARTICIPATION OF TRIBAL WOMEN (DHULE TALUKA)**

Syllabus for the Proposed Course

Theory Paper – I

Marks : 100

Periods : 90

Title of the Paper : Basic Concept on Political Participation

Unit - I : Political Socialization

- 1.1 Meaning, Definition, Nature, Importance
- 1.2 Elements and Process of Political Socialization
- 1.3 Condition of Tribal Women's Political Socialization

Unit - II Political Participation

- 2.1 Meaning, Definition, Nature, Importance
- 2.2 Influencing Factors of Political Participation
- 2.3 Political Apathy, Political Alienation, Political Cynicism of tribal woman

Unit - III Political Leadership

- 3.1 Meaning, Definition, Nature, Importance
 - 3.2 State & Central Level Leadership of tribal women
 - 3.3 Problems and Status of tribal women
-



**Kavayitri Bahinabai Chaudhari
North Maharashtra University, Jalgaon**



**Jai Hind Educational Trust's
Zulal Bhilajirao Patil College, Dhule**

**A Proposal for
Certificate Course in
Certificate Course in Computer Applications
(Duration - One Year)
Under Ordinance 181**

(With effect from June 2020)

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon
Ordinance 181

College Name: JET's Z. B. Patil College, Dhule.

Title of the Course: Certificate Course in Computer Applications

Aims / Objective of the Course :

- To explore knowledge of computer tools & techniques.

Duration of Course : 1 Year

Fees Structure : 1000/-

Course Structure : 1) Paper-I : Software Testing
2) Paper-II : Android Operating System
3) Practical Course – Practical Based on Paper I & II

Eligibility for Admission: H.S.C. Passed

Skeleton of Course :

S. N.	Paper	Name of the Subject	Theory / Practical	Teaching Hours	Maximum Marks Allotted			Passing			Credit
					External	Internal	Total	External	Internal	Total	
1	Paper I	Software Testing	Theory	90	60	40	100	24	16	40	6
2	Paper- II	Android Operating System	Theory	90	60	40	100	24	16	40	6
3	Paper III	Practical	Practical	120	60	40	100	24	16	40	8

Minimum Staff : Teachers :03 Non-Teaching -02

Mode of Examination : Annual

Detail Syllabus : Enclosed

Paper-I :Software Testing

Marks-100

Periods-90

-
- | | |
|--|--------------|
| 1. Introduction to Software Testing | (8L) |
| 1.1 Types of Testing | |
| 1.2 Verification | |
| 1.3 Validation | |
| 1.4 V-Model | |
| 2. Levels of Testing | (8L) |
| 2.1 Unit Testing | |
| 2.2 Integration Testing | |
| 2.3 System Testing | |
| 2.4 User Acceptance Testing | |
| 3. Process of Testing | (8L) |
| 3.1 Software Testing Life Cycle (STLC) phases | |
| 3.2 Test plan | |
| 3.3 Method of Testing | |
| 3.4 Test Design | |
| 3.5 Test cases | |
| 3.6 Test Execution | |
| 4. Defect management | (8L) |
| 4.1 What is defect / Bug? | |
| 4.2 Defect Severity & priority | |
| 4.3 Defect life Cycle | |
| 5. Other Testing Types | (18L) |
| 5.1 White Box Testing, Database Testing | |
| 5.2 Non-functional Testing | |
| 5.3 Testing of User-Interface | |
| 5.4 Performance Testing | |
| 5.5 Installation of Testing, Configuration Testing | |
| 5.6 Compatibility Testing, Security Testing | |
| 6. Introduction to Automation Testing | (16L) |
| 6.1 What is Automation Testing | |
| 6.1.1 When to Automate? | |
| 6.1.2 Tools of Automation | |
| 6.2 Selenium Testing | |
| 6.2.1 what is Selenium? | |
| 6.2.2 Selenium components | |
| 2. Selenium IDE | (16L) |
| 7.1 Selenium Features | |
| 7.2 Selenium IDE GUI | |
| 7.3 Creating First Automated Test | |
| 7.4 Test Suite | |
| 7.5 Selenium IDE Debugging | |
| 7.6 Selenium Commands | |
| 7.7 Selenium RC | (8L) |
| 7.7.1 Selenium RC Architecture | |
| 7.7.2 Selenium Server | |
| 7.7.3 Client Libraries | |

References Books:

- The Art of Software Testing, 3rd Edition by Glenford J. Myers, Corey Sandler, Tom Badgett.
- Software Testing, 2nd Edition, 2005 by: Ron Patton
- Software Testing: A Craftsman's Approach, Fourth Edition, Paul C. Jorgensen
- Software Testing Techniques, 2nd edition, Boris Beizer

Paper-II: Android Operating System

Marks-100

Periods-90

Unit-I Introduction To Android:

[8L]

What is android?,History of android,Environment Setup, Architecture, Application Components,,Hello World Application.

Unit -2 USER INTERFACE:

[18L]

Fundamental of Android UI design ,UI Layouts, UI Controls, Event Handling, ,Custom Components.

Unit -3 Intents and Preferences:

[16L]

Activities, Activity lifecycle, Services , Content Providers, Intents:Explicit Intents, Implicit Intents, Shared Preferences

Unit -4 Advanced Concept:

[18L]

Drag and Drop, Notifications, Location Based Services, Sending Email, Sending SMS, Phone Calls, Publishing Android Application.

UNIT-5: UI COMPONENTS (Adapters, Alerts and Menus):

[22L]

Dialog Boxes, Menus: Option menu, Context menu, Sub menu, Audio Manager, Auto Complete, Bluetooth, Camera, Clipboard, Custom Fonts, Data Backup, Developer Tools, Emulator, Gestures, Google Maps, Image Effects, Image Switcher, Internal Storage, Login Screen, Media Player, Multitouch, Navigation, Progress Bar, Push Notification, Render Script, RSS Reader, Screen Cast.

UNIT-6: SQLITE

[8L]

Understanding SQLite database generation, SQLite database management, Connection with SQLite, retrieving data from SQLite, storing data in database from application.

- Android Studio Cookbook , Packt Publishing ISBN-10: 1785286188
- Learn Android Studio ISBN-10: 1430266015.
- Murat Yener, Onur Dundar , Expert Android Studio,. ISBN: 978-1-119-08925-4
- Jerome F. Di Marzio, Beginning Android Programming with Android Studio, ISBN – 1118707427

Lab on Software Testing:

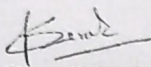
1. Demonstrate Verification Testing.
2. Demonstrate Validation Testing.
3. How to create Test Case.
4. Demonstrate the Installation of Testing
5. Write the test case using selenium tool.

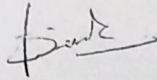
Lab on Android Operating System

1. Create an Android application for printing "Hello world".
2. Create an Android application for showing use of different resources.
3. Create an Android application for showing use UI Layouts.
4. Create an Android application for event handling.
5. Create an Android application for showing use of style and theme.
6. Create an Android application for showing use of notification.
7. Create an Android application for sending email.
8. Create an Android application for sending SMS.
9. Create an Android application for showing use of Alert Dialogs, Animations.
10. Create an Android application for showing use of Image Effects, Image Switcher.
11. Create an Android application for showing use of Login Screen.
12. Create an Android application for showing use of Progress Bar, Push Notification.
13. Create an Android application for showing use of RSS Reader.

**Jai Hind Educational Trust's
Zulal Bhilajirao Patil College, Dhule
Department of Computer Science & I.T.**

S.N.	Name of Teacher
1	Mr. Atul S. Patil
2	Ms. Gitali A. Girase
3	Ms. Kshitija A. Joshi
4	Ms. Pallavi R. Deore


**Course Coordinator
(Mr. G. B. Desale)**


Head
Department of Comp. Sci. & I.T.
Zulal Bhilajirao Patil College
Shiksha Chetana Mahavidyalaya
Z.B. Patil Marg, Dhopur,
Dhule - 431 002.

**Principal
(Dr. P. H. Pawar)**

**Kavyayitri Bahinabai Chaudhari
North Maharashtra University, Jalgaon**

Faculty of Science

**Certificate Course in Electronics
Electronic Equipment Maintenance**

**Submitted by
Dept. of Electronics
JaiHind Educational Trust's
Zulal Bhilajirao Patil College, Dhule**

**Kavyayitri Bahinabai Chaudhari
North Maharashtra University, Jalgaon**

**Under Ordinance 181
(Faculty- Science)**

College Name : JaiHind Educational Trust's Zulai Bhilajirao Patil College, Dhule
Department : Electronics
Title of the Course : Electronic Equipment Maintenance
Aims/ Objective of the Course : i) Exposure to complete PCB Design & manufacturing process.
 ii) Hands-on experience of working with PCB Design.
 iii) Practice the standard troubleshooting procedures as suggested in the product manuals
Duration of the Course : 1 Year
Fee Structure : Rs. 1000/-
Course Structure : 1) SEM I : PCB design, fabrication and assembly
 2) SEM II : Installation, repair and maintenance of Home appliances
 3) PRACTICAL COURSE
Eligibility for admission : H.S.C. onwards
Skeleton of Course:

	Name of the Subject	Theory/ Practical	Teaching Hours	Maximum Marks allotted			Passing			Credit
				Ext.	Int.	Tot.	Ext.	Int.	Tot.	
SEM I	PCB design, fabrication and assembly	Theory	30	60	40	100	24	16	40	3
SEM II	Installation, repair and maintenance of Home appliances	Theory	30	60	40	100	24	16	40	3
	Practical Course	Practical	60	60	40	100	24	16	40	6

Internal Marks divided in three parts: Attendance – 05
 Tutorial – 10
 Internal Test – 25

Total = 40

Minimum Staff : 02
Mode of Examination : Theory and Practical Exam
Detail Syllabus : Enclosed

3

JET's Z. B. Patil College, Dhule
Certificate Course in Electronics
Name of the course: ELECTRONIC EQUIPMENT MAINTENANCE

SEM I

Name of the Paper: PCB design, fabrication and assembly

Objectives -

- Knowledge of Electronic Components
- Knowledge of PCB Design techniques
- Exposure to complete PCB Design & manufacturing process.
- Hands-on experience of working with PCB Design.

UNIT 1: Basics of PCB Need, Classification, Electronics components (discrete, ICs, SMDs) – symbols, dimensions, packages, Connectors and cables.

UNIT 2: Layout planning and design Drawings and diagrams, General PCB design considerations, Mechanical design considerations, Electrical considerations, Components placement rules, Layout design

UNIT 3: Artwork generation and automation Manual artwork, film master preparations, CAD / CAM tools, design automation

UNIT 4: Image transfer techniques cleaning, screen printing, pattern transfer techniques, and photo printing,

UNIT 5: Plating techniques solder masks, etching techniques,

UNIT 6: Mechanical operations – cutting methods, punching, drilling, assembly, soldering

UNIT 7: PCB technology trends: Multilayer and flexible PCBs

Reference:

1. Printed circuits boards, R. S. Khandpur, Tata Mc Graw Hill Publication (2005).
2. Printed circuits handbooks, Clyde F. Coombs and Happy T. Holden, Mc Graw Hill (2016)
3. Printed circuit board: design and technology, Walter Bosshart, Tata McGraw Hill (2008)
4. Printed Circuit boards: Designers reference: Christopher Robertson, Prentice Hall(2004)

SEM II

Name of the Paper : Installation, repair and maintenance of Home appliances

Objectives -

- Identify electronics parts/components/modules of the given appliances.
- Aware of models of different appliances and features.
- Use reference manuals and identify the information required to service the appliances.
- Practice the standard troubleshooting procedures as suggested in the product manuals.

UNIT 1: Basic Electronic Components

UNIT 2: Study and use of multimeter

UNIT 3: Home appliances: *Mixer, toaster, washing machine, Water heater, Refrigerator, Microwave oven, air conditioner etc.*

Study of these appliances with the consideration of following -

- i. Tools and materials
- ii. Appliance diagrams
- iii. Installation procedures
- iv. Repair and maintenances tips
- v. Troubleshooting steps

Reference:

1. DIY guide to appliances: Installing and maintaining your major appliances, Steve Willson, Creative Publishing international (2008)
2. Troubleshooting and repairing major appliances, Eric Kleinert, McGraw Hill professional (2012)
3. Consumer Electronics – Bali, Pearson Education (2014)

Practical
PCB design and Maintenance of Home Appliances Lab

SEM I

1. Identify and test passive and active electronics components.
2. Lay out planning & Artwork preparation (Manual process)
3. Preparation of circuit schematics - Use of open source PCB making software
4. Artwork preparation - Use of open source PCB making software
5. Laboratory PCB making process of transferring layout on copper clad laminate, PCB
6. Etching and Drilling.
7. Soldering and De-soldering of Components from given PCB.
8. To build and Test electronic circuits by using PCB technique.

SEM II

1. Use of multimeter for measurement of electronic parameters.
2. Use of multimeter for testing and finding faults in electronic circuits.
3. Use of CRO for testing waveforms at different testing points in the circuit.
4. Study of Block Diagrams of Home Appliances.
5. Identify and test various mechanical and electrical modules of the given appliances.
6. Home appliances – understanding Users/ installation manual
7. Site preparations, electrical connections and installation procedures
8. Identification of system components and their preventive maintenance

2022
Proposal Submitted To



**Kavayitri Bahinabai Chaudhari
North Maharashtra University, Jalgaon
(Under ordinance 181)**

**For
Certificate Course
In
"Zoology"**

**Coordinated by,
Department of Zoology,
JaiHind Educational Trust's
Zulal Bhilajirao Patil College, Dhule
2022-23**

Title of the Course: Certificate course in Zoology "The Basic Concepts of Animal Biology"

Objectives:

1. Describe levels of organization and related functions in animals.
2. Identify the characteristics and basic needs of living organisms and ecosystems.
3. Students will become familiar with animal classification schemes and associated taxonomic group diagnostic characteristics.
4. To develop an understanding of basic zoological principles.
5. To investigate the evolution mechanisms in animals.

Duration of course : One year

Fee structure : Rs. 500/-

Course structure : Paper I: Invertebrate and Vertebrate Biology
(100 marks, 60 hours)
Paper II: Systematics, Parasitology and Zoogeography
(100 marks, 60 hours)
Paper III: Practical (based on paper I & I)
(100 marks)

Eligibility for admission : FY/SY/TYBSc students from recognized institutions as well as any person interested in study of Zoology.

Skeleton of course:

Sr No	Paper	Name of the subject	Theory/ Practical	Teaching hours	Maximum marks allotted			Passing		
					External	Internal	Total	External	Internal	Total
1.	Paper I	As stated above	Theory	60	60	40	100	24	16	40
2.	Paper II	As stated above	Theory	60	60	40	100	24	16	40
3.	Paper III	As stated above	Practical	60	60	40	100	24	16	40

Minimum staff : Four

Mode of Examination : Annual

Details of syllabus : Attached

Certificate Course in Zoology
The Basic Concepts of Animal Biology
Paper I: Invertebrate and Vertebrate Biology

Unit	Topics	Period
01	Study of distinguishing characters of invertebrates and vertebrates with examples.	02
02	Body plan of the organisms 1. Symmetry - Asymmetry, Radial and Bilateral symmetry with examples 2. Germ layers - Diploblastic, Triploblastic with examples 3. Coelom - Acoelomate, Pseudocoelomate and Coelomate with examples	06
03	Larval forms in Animals 1. Invertebrates 2. Vertebrates	04
04	Study of basic structures of organ systems 1. Digestive system 2. Respiratory system 3. Circulatory system 4. Nervous system 5. Excretory system 6. Reproductive system 7. Endocrine system	13
05	Study of Cranial nerves and Sense organs in vertebrates: 1. Cranial nerves in vertebrates - origin, distribution, nature and functions 2. Sense organs in vertebrates mechanoreceptors, chemoreceptors, photoreceptors, thermoreceptors, proprioceptors, enteroceptors and statoreceptors.	06
06	Definitions with examples 1. Habit and habitat, sanguivorous, detritivorous 2. Herbivorous, omnivorous, graminivorous, carnivorous, insectivorous, frugivorous, cannibalism 3. Neoteny, pedogenesis, hibernation, aestivation, connecting link 4. Hermaphroditism, sexual dimorphism, sexual reproduction, asexual reproduction, regeneration, parthenogenesis 5. Locomotion, swimming, leaping, feeding, croaking, camouflage, cranium, pericardium, meninges, ventricles, polymorphism 6. Archinephros, pronephros, mesonephros, metanephros 7. Metamorphosis 8. Poikilothermous animals and homiothermous animals. 9. Oviparous, viviparous, ovoviviparous	08

	10. Breeding, fertilization, external fertilization, internal fertilization, ootheca, exoskeleton, endoskeleton	
07	Derivatives of integument 1. Epidermal - a. Epidermal glands - mucous, poison, luminescent, femoral, uropygial, sweat, sebaceous, scent, mammary, salivary, gastric, shell gland. 2. Dermal- Claws, nails, hoofs, horns, feathers, hairs.	05
08	Teeth and Dentition in animals 1. Shape of teeth, Attachment of teeth, Succession of teeth, Types of teeth, Functions and significance. 2. Dental formula with examples.	05
09	General Topics 1. Metamerism in annelids 2. Mouth parts in insects 3. Pearl formation 4. Pedicellaria in echinoderms 5. Fins and scales of fishes 6. Canal system 7. Foot in molluscs	08
10	Beaks and feet in birds	03
	Total	60

Certificate Course in Zoology
The Basic Concepts of Animal Biology
Paper - II: Systematics, Parasitology and Zoogeography

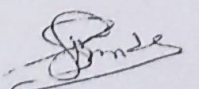
Unit	Topic	Period
01	Systematics <ol style="list-style-type: none"> 1. Origin, development, needs and significance of classification 2. Systems of classification Artificial, Natural, Phylogenetic 3. Nomenclature - Binomial, Trinomial, Rules and Recommendations 4. Taxonomic hierarchy - Hierarchic classification with examples 5. Taxonomic categories and species Three domain system and five kingdom classification General characters with examples of Kingdom Monera, Protista, Fungi, Plantae and Animalia	14
02	Types of habitats <ol style="list-style-type: none"> 1. Aquatic - freshwater, lentic, lotic, marine 2. Terrestrial - forests, grasslands, wetlands and deserts. 	05
03	Adaptation <ol style="list-style-type: none"> 1. Definition 2. Types: aerial (volant), fossorial and subterranean, scansorial, cursorial, amphibious 	04
04	Animal associations <ol style="list-style-type: none"> 1. Definition 2. Types: Intraspecific, interspecific, mutualism, commensalism and parasitism with examples. 	04
05	Introduction, scope and importance of parasitology <ol style="list-style-type: none"> 1. Definition of Host, Parasite and Vectors 2. Types of parasites - according to habitat and degree of parasitism with examples 3. Types of host with examples 4. Host specificity, hyper infestation, hyper parasitism with examples 5. Parasite mix with examples 	08
06	Geological Time Scale (GTS) <ol style="list-style-type: none"> 1. Era, Period and Epochs with characters and examples 	04
07	Distribution and Dispersal of animals <ol style="list-style-type: none"> 1. Means of dispersal of animals, barriers (physical, climatic and biological) 2. Continuous and discontinuous distribution of animals, Bathymetric distribution (Geobiotic, Limnobiotics and Holobiotic) 	06
08	Conservation of species <ol style="list-style-type: none"> 1. Threatened and endangered species 2. Causes and importance 	04
09	Economic importance and Migration in animals	11
	Total	60

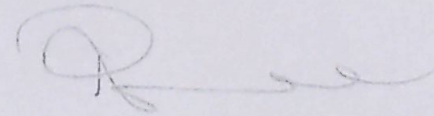
Certificate Course in Zoology
The Basic Concepts of Animal Biology
Paper-III: Practical's corresponding to Paper I and Paper II

1. Study of body plan of the organisms (Symmetry, Germ layers and Coelom).
2. Study of Larval forms in Animals (Invertebrates and Vertebrates).
3. Study of basic structures of organ systems (Digestive, Respiratory, Circulatory, Nervous, Excretory, Reproductive and Endocrine system).
4. Study of Derivatives of integument (Epidermal and Dermal).
5. Study of Teeth and Dentition in animals.
6. Study of Mouth parts in insects.
7. Study of Fins and scales of fishes.
8. Study of canal system.
9. Foot in molluscs.
10. Study of beaks and feet in birds.
11. Study of animal associations in organisms with examples.

Reference books:

1. A Textbook of Zoology Invertebrates and Vertebrates - Marshall and William, CBS Publishers, New Delhi
2. The Invertebrates and Vertebrates - Hymen L. H., Mc. Graw Hill
3. The Invertebrates and Vertebrates - Jordan E. L., S.C. Chand, New Delhi
4. The Invertebrates and Vertebrates - Kotpal R. L., Rastogi Publication, Meerut
5. The Invertebrates and Vertebrates- Prasad S. N., Vikas Publishing House, New Delhi
6. The Invertebrates and Vertebrates-- Dhama and Dhama
7. A Text Book of Practical Zoology Invertebrates and Vertebrates - Lal S. S., Rastogi Publication
8. Evolution and Ecology, S. Chand & Company New Delhi
9. Zoogeography - Dr M. C. Nayar, Sudarshan Publication, Cochin
10. The Biology of Animal Parasites - Cheng T. C.
11. Parasitology - Nobel and Nobel
12. Parasitology - K. D. Chatterjee
13. A Life of Vertebrates - K. Z. Young ELBS Oxford University Press
14. Life origin, Evolution & Adaptation by Chattopadhyay Sajib


Co-ordinator


Head
Department of Zoology
Jatal Bhalajirao Patil College,
Shikshānmaharshi
Nanasaheb Z. B. Patil Marg,
Deopur, DHULE-424 002

Proposal submitted to
KBC North Maharashtra University,
Jalgaon
(Under ordinance 181)

For
Certificate Course
In
“Food Preservation”

Coordinated by
Department of Botany,
JaiHind ET's Z. B. Patil college, Dhule.
2020-21

Title of the Course: Certificate course in 'Food Preservation.'

- Objective** : 1. To inculcate concepts in food Preservation.
2. To understand techniques for maintaining good quality of food.
3. To increase employability skills of the students.
4. To comprehend laboratory safety and aseptic techniques.

Duration of course : One year

Fee structure : Rs. 500/-

Course structure : Paper I: **Principle of Food Preservation.**
(100 marks, 60 hours)
Paper II: **Method of Food Preservation**
(100 marks, 60 hours)
Paper III: **Practical (based on paper I & II)**
(100 marks)

Eligibility for admission: H.S.C. or equivalent qualification from recognized institution

Skeleton of course

Sr. no	Paper	Name of the subject	Theory / practical	Teaching hours	Maximum marks allotted			Passing		
					External	Internal	Total	Internal	External	Total
1	Paper I	As stated above	Theory	60	60	40	100	24	16	40
2	Paper II	As stated above	Theory	60	60	40	100	24	16	40
3	Paper III	As stated above	Practical	60	60	40	100	24	16	40

Minimum staff : Three

Mode of Examination : Annual

Details of syllabus : Attached

Paper I: Principle of food Preservation. (30 Lec.)

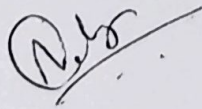
1. Principle of food preservation:- prevention of microbial decomposition. prevention of self-decomposition. prevention of damage due to insect, Animal, mechanical cause.
2. Methods of food preservation:-Sources of contamination. Role of preservative. Types of preservative- i. Natural preservative, ii. Artificial preservative.
3. JAM:- Essentials of an ideal jam: pectin, sugar, acid, water. steps in jam making – selection of fruit, pretreatment of pulp, addition of pulp, cooking, bottling.
4. MORAMBA:- Essential of an ideal moramba :-fruit, sugar. steps in making moramba- selection of fruit, pretreatment, cooking, bottling.
5. JELLY:- Characteristics of an ideal jelly. Essential of an ideal jelly ;-pectin, acid, sugar, water. Steps in jelly making – selection of fruit, pretreatment, preparation of pectin extract, addition of sugar, cooking, bottling.

Paper II: Method of Food Preservation (30 Lec.)

1. MARMALADE - Jam Marmalade and jelly Marmalade
2. SQUASH - Essential of squash, Steps in squash making
3. CANDIED PEEL - Ingredients, Method
4. JELLY CRYSTALS - Ingredients, method preparation of jelly.
5. SYNTHETIC SYRUPS - Method
6. TOMATO KETCHUP - Ingredients, Method
7. TOMATO SAUCE - Ingredients, Method
8. GREEN CHILLI SAUCE - Ingredients, Method
9. RED CHILLI SAUCE - Ingredients, Method
10. TAMARIND SAUCE - Ingredients, Method
11. TOMATO CHUTNEY - Ingredients, Method
12. CHILLI SAUCE - Ingredients, Method
13. GUAVA CHEESE - Ingredients, Procedure
14. FRUIT TOFFEE - Ingredients, Procedure
15. MANGO PICKLES - Ingredients, Procedure
16. MIX VEGETABLE PICKLE - Ingredients, Procedure
17. LEMON PICKLE - Ingredients, Procedure
18. Dehydration of food
19. Freezing - Steps in freezing

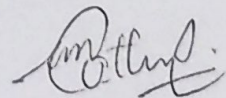
Paper III: Practical food preservation

1. JAM :- Essentials of an ideal jam: pectin, sugar, acid, water. steps in jam making – selection of fruit, pretreatment of pulp, addition of pulp, cooking, bottling.
2. MORAMBA:- Essential of an ideal moramba :- Fruit, sugar. steps in making Moramba- selection of fruit, pretreatment, cooking, bottling.
3. JELLY: - Characteristics of an ideal jelly. Essential of an ideal jelly :- pectin, acid, sugar, water. Steps in jelly making – selection of fruit, pretreatment, preparation of pectin extract, addition of sugar, cooking, bottling.
4. JELLY CRYSTALS –Ingredients, method preparation of jelly.
5. SYNTHETIC SYRUPS - Method
6. TOMATO KETCHUP, TOMATO SAUCE – Ingredients, Method
7. GREEN CHILLI SAUCE - Ingredients, Method
8. RED CHILLI SAUCE - Ingredients, Method
9. TAMARIND SAUCE - Ingredients, Method
10. TOMATO CHUTNEY - Ingredients, Method
11. GUAVA CHEESE - Ingredients, Procedure
12. FRUIT TOFFEE - Ingredients, Procedure
13. MANGO PICKLES - Ingredients, Procedure
14. MIX VEGETABLE PICKLE - Ingredients, Procedure
15. LEMON PICKLE - Ingredients, Procedure



Professor & Head
Department of Botany
Zinai Bhalrao Patil College
"Dopur, DHULE-4"

Co-ordinator



Dr. V. N. Rathod

Geology

**A Proposal for Certificate Course
in Geochemistry
(Duration – One Year)**

Submitted to

**Kavayitri Bahinabai Chaudhari
North Maharashtra University, Jalgaon**

Under Ordinance 181
(Faculty- Science)

Co-ordinated by

**Department of Geology
Jai Hind Educational Trust's
Zulal Bhilajirao Patil College, Dhule**

(With effect from July 2020)

Certificate Course in Geochemistry

➤ Introduction

Geochemistry is a branch of science that involves the study of chemical and physical processes (phenomenon) of mineral and rock formation. This is in short the study of earth's crust. The processes of formation of mineral resources are operating at slow but steady pace. But the exploitation of earth resources is at an alarming rate. Therefore, it is important to know about the processes of earth and its extent upto interior along with elemental distribution. The combination of chemistry and geology would help students to understand and learn the various processes in geochemistry. The main goal of the course is to provide a platform to undergraduate students to understand chemical evolution of the earth. Keeping this view in mind Jai Hind Educational Trust's Z. B. Patil College, Dhule is proposing a "*Certificate Course in Geochemistry*" for undergraduate students starting from the July, 2020.

➤ About the Course:

This course is designed to give you a basic introduction of Geology and Chemistry. Basic concepts of geochemistry and its principles will be studied. There will be theoretical explanation, laboratory exercises, written and oral examination related to these topics. Students would be able to identify and classify the geochemical materials like minerals and rocks.

➤ Aims/Objective of the Course:

- Introduce student to basic concept of Chemistry, Geochemistry and applications of chemistry in Geochemistry
- Introduce student to important geochemical process of mineral & rock formation.
- To provide student with opportunities to use analytical methods and instruments
- Provide students with opportunities for research in the field of interdisciplinary geochemical science
- Enhance and boost their critical thinking

- **Outcome of the course:** At the end of the course, students would able to;
Correlate chemistry and geology, Define principle of Geochemistry, understand and explain various concepts of geochemical phenomena, earth formation, role of minerals and ore, geochemical reactions, find the applications of geochemistry, etc.

- Duration of Course : One Year
- Fees Structure : Rs 500/-
- Course Structure : 1) Paper-I- Geology: Basic Concept & Principles of Geochemistry
(100 marks, 90 hours)
- 2) Paper - II- Chemistry: Basic Concept & Applications in Geochemistry
(100 marks, 90 hours)
- 3) Paper- III: Practical Course/ Project Based on Paper I & II
(100 marks, 120 hours)

Eligibility for Admission : H.S.C or equivalent qualification from recognised institution

Skeleton of Course :

S N	Paper	Name of the Subject	Theory/ Practical	Teaching Hours	Maximum marks allotted			Passing			Credit
					External	Internal	Total	External	Internal	Total	
1	Paper - I	Geology: Basic Concept & Principles of Geochemistry	Theory	90	60	40	100	24	16	40	6
2	Paper - II	Chemistry: Basic Concept & Applications in Geochemistry	Theory	90	60	40	100	24	16	40	6
3	Paper - III	Practical	Practical	120	60	40	100	24	16	40	8

* Internal Marks are divided in 3 parts e.g. 05 marks for Attendance, 10 marks for Home Assignment Tutorial & 25 marks for Internal Test.

- Minimum Staff : 04
- Mode of Examination : Theory and practical Exam.
- Detailed Syllabus : Enclosed

Syllabus for Proposed Course

Theory Paper-I : Geology: Basic Concepts & Principles of Geochemistry

Marks-100

Periods-90

1. Geodynamics and Mineralogy

(Period- 35)

Chemistry of the universe, stars, nucleosynthesis, origin of the solar system, meteorites, Zoned structure and elemental composition of the earth, Primary differentiation of the elements, Geochemical classification of the elements, Composition and structure of earth's atmosphere, Evolution of the atmosphere and composition of the primeval atmosphere; change in atmosphere composition in a geological time scale, Mineral definition, Physical and chemical properties of minerals, Silicate minerals.

2. Petrology

(Period- 35)

Origin and occurrence of igneous, metamorphic and sedimentary rocks, Processes of formation of three types of rocks, Role of geochemistry in igneous, sedimentary and metamorphic petrology.

3. Principles of Geochemistry

(Period- 20)

Atom, ion, chemical bonds, Silicate structures, Chemistry of Sun, Meteorite, Crust, Mantle and Core of Earth, Phase rule and mineral formation, Volume and energy changes during mineral transformations.

Theory Paper-II: Chemistry: Basic Concept and Applications in Geochemistry

Marks-100

Periods-90

1. Basic Concepts in chemistry and periodic Table

(Period- 35)

Elements in periodic table, periodic properties of the elements, Cosmic abundance of elements, Acid-base reaction, cation, anion, general rules of bonding, electronegativity, atomic substitution, covalent and ionic bonding, Shapes of s, p and d atomic orbitals - charge cloud diagrams and boundary surface diagrams, nodal planes. Isotopes and their applications in understanding earth processes.

2. Phase Rule and Thermodynamics in Mineral formation

(Period- 35)

Phase rule in mineral formation, thermodynamics, colloids (definition, electrical mechanical and optical properties), Clay minerals as colloids, Aqueous geochemistry: basic concept and speciation in solution, relation between Eh and pH, Groundwater chemistry: physical, chemical and bacteriological properties of ground water, Conservation of mass, isotopic and elemental fractionation.

3. Applications of Chemistry in Geochemistry

(Period- 20)

Study of the geochemical cycle, Rocks, Minerals and fossils (Definition, general characters and applications), Analysis of minerals and ore mineralogy, internal structures of minerals, metallic and non-metallic ores, Applications of analytical chemistry instruments for analysis of samples, Inorganic sample analysis, Chromatography.

Paper-III : Practical

Marks-100
Periods-120

Practical would help the student to conduct a series of experimental work. To learn and to know more about analysing, identifying and predicting the properties of material. It would also help them in designing and conducting various experiments. Eight practicals will be conducted (4 in each semester). The details are given below,

1. Demo practicals of Instrumentation in Chemistry (02)
2. Demo practicals of Instrumentation in Geology (02)
3. Uses of chemical data in mineral formation (02)
4. Qualitative analysis of water and minerals (02)

Nature of Practical Examination:- Practical paper will be based on the performance and analysis of data. It will be of 4 parts of 25 marks each. It will comprise of both Paper- I & Paper- II. Separate question paper and test slips will be provided to each student. Practical examination will be of 3 hours. This paper is covered in 100 marks. Distribution of 60 marks is shown below-

1. Practical Book	40 Marks
2. Presentation	20 Marks
3. Tour/Industrial visit	15 Marks
4. Oral	15 Marks

Total = 60 Marks

** (Topics are subject to change)

- **References Books: (relevant pages of the reference)**
 1. Essentials of Geochemistry, John V. Walther.
 3. Krauskopf - Introduction to Geochemistry
 4. Concise Inorganic Chemistry by J. D. Lee. 5th Edition. 2014.
 5. Rutley's elements of Mineralogy- H. H. Read. 27th edition.
 6. Essentials of Physical Chemistry B. S. Bahl, G. D. Tuli, ArunBahl (S. Chand and Co Ltd.) (25th edition) 2010.
 7. Introduction to Ore geology by Anthony M. Evans second Edition.
- **Admission Process:**

Eligibility: 12th pass
- **Strength of the Students:**

Total 30 (Thirty) students
- **Teaching:**

Regular classes will be conducted as **four lectures every week**.

Coordinators for the Proposed Course	Resource Persons
Suryakant Gaiwad Assistant Professor Department of Geology Zulal Bhilajirao Patil College, Dhule.	Ms. Arati Baride, Dept. of Geology, Z. B. Patil College, Dhule.
	Dr. J. B. Pawar, Dept. of Geology, Z. B. Patil College, Dhule.
	Dr. S. L. Sonawane, Dept. of Chemistry, Z. B. Patil College, Dhule.
	Dr. S. A. Padvi Dept. of Chemistry, Z. B. Patil College, Dhule.

Question Paper Pattern for Theory Course

Certificate Course in Geochemistry

Time - 2 hrs.

Marks- 60

Instructions-

1. All questions carry equal marks.
2. All questions are compulsory.

Que. 1. Answer in one sentence. (Any-6) 12

1. -----
2. -----
3. -----
4. -----
5. -----
6. -----
7. -----
8. -----

Que.2. Answer in three to four sentences. (Any-4) 12

1. -----
2. -----
3. -----
4. -----
5. -----

Que.3. Answer in brief. (Any-3) 12

1. -----
2. -----
3. -----
4. -----

Que. 4 .Write a Short Note on. (Any-2) 12

1. -----
2. -----
3. -----

Que. 5. Long answer questions. (Any-1) 12

1. -----
2. -----

S. P. Tripathi
Dr. S. P. Tripathi
(Co-ordinator)

S. P. Tripathi
Head
Department of Geology
Zala Bhatnagar Patil College
Shikshamaharshi
Manasaheb Z.B. Patil Nare

**A Proposal for Certificate Course
In
Soil and Water Analysis**
(Duration - One Year)

Submitted to

**Kavayitri Bahinabai Chaudhari
North Maharashtra University, Jalgaon**

Under Ordinance 181
(Faculty- Science)

**Department of Chemistry
Jaihind Educational Trust's
Zulal Bhilajirao Patil College, Dhule**

(With effect from July 2020)

Certificate Course in Soil and Water Analysis

• Introduction

The real purpose of education is to develop natural potential of students and to build their personality to deal with the challenges of the fast changing world. In the present scenario where the Schools and College are busy in preparing students for examinations these aspects hardly receive attention that they deserve. It is, therefore, necessary that out of Schools and College activities are undertaken to compensate for this deprivation. It is well known that the experiences gained at the formative age shape their personality. With this view in mind Jai hind Educational Trust's Z. B. Patil College, Dhule will be proposed to launch a "*Certificate Course in soil and water analysis*" for under graduation students starting from July, 2020.

• About the Course:

Water is most vital liquid for maintaining the life on the earth. About 97% water is exists in oceans that is not suitable for drinking and only 3% is fresh water wherein 2.97% is comprised by glaciers and ice caps and remaining little portion of 0.3% is available as a surface and ground water for human use (Miller, 1997). Safe drinking water is a basic need for good health and it is also a basic right of humans. Fresh water is already a limiting resource in many parts of the world. In the next century, it will become even more limiting due to increased population, urbanization and climate change (Jackson et al., 2001). Unfortunately, in developing countries (i.e. Pakistan) the drinking quality of water is continuously being contaminated and hazardous for human use due to high growth of population, expansion in industries, throwing away of waste water and chemical effluents into canals and other water sources. According to recent estimates, the quantity of available water in developing regions of South Asia, Middle East and Africa is decreasing sharply while quality of water is deteriorating rapidly due to fast urbanization, deforestation, land degradation etc.

Career Opportunities

Analytical chemists work in a variety of industries including pharmaceuticals, petroleum, government laboratories, food, agriculture, and consumer products.

- Analytical chemist
- Quality control chemist
- Quality assurance chemist
- Agricultural chemist
- Soil and plant chemist
- Analytical development scientist

North Maharashtra University, Jalgaon
Ordinance 181

- College Name : Z.B.Patil College, Dhule.
- Title of the Course : Certificate Course In..Soil and Water Analysis
- Aims/Objective of the Course :
 - Develop positive psychological and physical outlook in oneself.
 - Enhance healthy behaviours.
 - Improve interpersonal relationships.
 - Recognize and avoid risky situations and behaviours
 - Self actualization a successful person.
- Duration of Course: 1 Year
- Fees Structure : Rs. 700/-
- Course Structure : Paper- I : Soil Chemistry
Paper - II : Water Chemistry
Paper-III : Practical Course

Eligibility for Admission : H.S.C Onward

Skeleton of Course : Two Theory Course and one Practical Course

S N	Paper	Name of the Subject	Teaching Hours	Maximum marks Allotted			Minimum marks for Passing			Credit
				Int	Ext	Total	Int	Ext	Total	
1	Paper-I	Soil Chemistry	90	40	60	100	16	24	40	6
2	Paper -II	Water Chemistry	90	40	60	100	16	24	40	6
3	Paper -III	Practical Course	120	40	60	100	16	24	40	8

• **Examination Pattern:**

➤ **Internal Examination: Theory Paper –I and paper-II Time: 1 Hour each paper**

Internal Test 25 marks
Home Assignment 10 marks
Attendance 05 marks

Total 40 marks

➤ **Internal Examination: Practical Paper-III**

Time: 3 Hours

Soil /water Analysis 25 marks
Oral 05 marks
Journal 10 marks

Total 40 marks

➤ **External Examination: Theory Paper -I and paper-II**
60 Marks each paper
Time: 2 Hours each paper

➤ **External Examination: Practical Paper-III** **Time: 3 Hours**
Soil /water Analysis 50 marks
Journal 05 marks
Oral 05 marks

Total . 60 marks

Minimum Staff : 02
Mode of Examination : Theory and practical Exam.
Detail Syllabus : Enclosed

Syllabus for Proposed Course

Paper-I : Soil Chemistry

Marks-100

Periods-90

Topic 1: Soil chemistry

Definition, composition of soil-Mineral matter, organic matter, soil water, soil air. soil formation – Physical weathering, chemical weathering, Biological weathering, soil microorganisms, soil profile, Types and Characteristics of soil, soil pH, soil acidity,

(16)

Topic 2: Soil Pollution

Soil pollution by industrial wastes, urban wastes, agricultural practices, chemical and metallic pollutants, biological agents, Soil pollution by soil sediments, Effect of industrial pollutants, Effect of sewage and domestic waste. Diseases caused by soil pollution, Control of soil pollution, Control of sewage, domestic and industrial waste.

(24)

Topic 3 : Soil analysis: Collection and preservation of soil samples, p^H of soil, conductivity, organic carbon, calcium carbonate, liming materials, Available Nitrogen, available phosphorus, available potassium and calcium, Total alkalinity, Boron,

(30)

Topic 4 : Importance of soil testing

Soil testing and interpretation of soil test results for fertilizer recommendation, Types of soil amendments, Effect of liming on soil, saline and alkaline soils, use of gypsum, soil conditioners

(20)

Paper-I: Water Chemistry

Marks-100

Periods-90

Topic 1: Water Chemistry- Introduction, Chemistry of water, Types of water –sources and quality assessment, surface water, ground water, potable water, domestic and industrial waste water

(16)

Topic 2: Water pollution

Definition, groundwater pollution, surface water pollution, lake water pollution, river water pollution, sources of water pollution, prevention and control of water pollution.

(16)

Topic 3: Water quality

Characteristics of water, water quality parameters for drinking and irrigation, terms and units used to express data obtained from chemical analysis of water, water quality standards, water quality index, Determination of water quality for drinking and irrigation purpose.

(28)

Topic 4: Water Analysis: Collection and preservation of water samples, Physico-chemical analysis of water samples- color, odour, test, turbidity, pH, conductivity, Total dissolved solids, dissolved oxygen, total alkalinity, total hardness, Sodium, potassium, nitrate, sulphates, chlorides, phosphates, zinc, iron, copper,

(30)

Paper-III : Practical Course

Marks-100

Soil analysis: (At least nine experiments)

1. Collection of representative s(30) oil sample from fields and preparation of soil sample in laboratory.
2. Determine pH, EC and organic carbon of soil.
3. Determination of CaCO₃, lime and gypsum requirements of soil.
4. Determine available nitrogen from soil by alkaline permanganate method.
5. Determine available phosphorus from soil by using colorimeter.
6. Determine available potassium and calcium from soil by flame photometer.
7. Determination of total alkalinity of soil sample.
8. Determination of chloride content in soil sample.
- 9) Determine sulphate content in soil sample.
- 10) Determine organic matter in soil sample.
- 11) Determination of boron content in soil sample.

Water analysis: (At least nine experiments)

Field work: Survey and collection of representative water sample.

1. Determination of pH, electrical conductivity and total dissolved solids of water sample
2. Determine dissolved oxygen and free carbon dioxide in water sample
4. Determine turbidity in water sample using Nephelometric method
5. Determine total alkalinity, carbonate, bicarbonate of water sample
6. Determine hardness, calcium and magnesium in the given water sample
7. Determine sodium and potassium present in water sample by flame photometric method
8. Determination of nitrate in water sample by Brucine method using spectrophotometer
9. Determination of chloride in water sample
10. Determine sulphate in water sample by turbidimetric method
11. Determination of phosphate in water sample using spectrophotometer
12. Determine fluoride in water sample by SPADNS method using spectrophotometer
13. Determination of iron in water sample
14. Determination of heavy metals such as manganese, zinc, copper in water sample.
15. Determine water quality for irrigation purpose

Reference Books:

- 1) Environmental Chemistry (8th edn)
B.K.Sharma (Goel Publishing House, Meerut)
 - 2) Quality Assessment of Water and Waste water
Mamata Tomar, Lewis Publishers, Boca Raton, Florida
 - 3) Environmental Chemistry(7th edn)(2010)
A.K.De (New age International (P) Ltd, New Delhi)
 - 4). Enviromental Pollution – Monitoring and Control
S.M.Khopkar (New Age International (P) limited, New Delhi)
 - 5) American Public Health Association (1989), Standard Methods for the examination of water and waste water. 17th edn, Washington, DC.
 - 6) Chemical and Biological methods for water pollution studies,(1986),
(Environmental Publication, Karad)
 - 7) Physicochemical examination of water sewage and industrial effluent. 5th edn (2005)
Manivaskam N, (Pragati Prakashan Meerut)
 - 8) Practical methods in Ecology and Environmental Science.
R.K.Trivedy, P.K.Goel and C.L.Trishal (Enviromedia publications, Karad)
- **Admission Process:** Admission will begin from July 2020
 - **Strength of the Students:** 60 students

Coordinator for the Proposed Course	Resource Persons
Dr. Vijay T. Patil Specialization: Physical Chemistry Associate Professor Department of Chemistry Zulal Bhilajirao Patil College, Dhule.	Dr. Vilas B. Jadhav Specialization: Inorganic Chemistry
	Dr. Pravinsing S. Girase Specialization: Organic Chemistry
	Dr. Swapnil A. Padavi Specialization: Organic Chemistry
	Dr. Swapnil L. Sonawane Specialization: Organic Chemistry

Question Paper Pattern for Theory Course

Time - 2 hrs.

Marks- 60

Instructions-

1. All questions carry equal marks.

2. All questions are compulsory.

Que. 1. Answer in one sentence. (Any-6)

12

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

Que.2. Answer in three to four sentences. (Any-4)

12

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Que.3. Answer in brief. (Any-3)

12

1. _____
2. _____
3. _____
4. _____
5. _____

Que. 4 .Write a Short Note on. (Any-2)

12

1. _____
2. _____
3. _____
4. _____

Que. 5. Long answer questions. (Any-1)

12

1. _____
2. _____
3. _____

कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जलगाँव

जयहिंद शैक्षणिक ट्रस्ट

झुलाल भिलाजीराव पाटिल महाविद्यालय, देवपुर, धुलियाँ

A Proposal for

प्रमाणपत्र कोर्स

(Duration - One Year)

साहित्यिक, बँक एवं बिमा कंपनी हेतु प्रमाणपत्र पाठ्यक्रम

मानविकी विद्याशाखा

साहित्यिक, वैंक एवं विमा कंपनी हेतु प्रमाणपत्र पाठ्यक्रम

पाठ्यक्रम के उद्देश्य

- १) अनुवाद विज्ञान की प्रविधि से छात्रों को अवगत कराना।
- २) अनुवाद विज्ञान की सैद्धान्तिक विवेचन कराना।
- ३) मशीनी एवं साहित्यिक अनुवाद से छात्रों को अवगत कराना।
- ४) संचार एवं कार्यलयीन अनुवाद से छात्रों को अवगत कराना।
- ५) अनुवाद का समाजशास्त्र परिचय कराना।

कवयित्री वहिणावाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगांव

अध्यादेश (Ordinance -181) १८१

अभ्यासक्रम का नाम	:-	इं. वी. पाटिल महाविद्यालय, धुलिया
पाठ्यक्रम की अवधि	:-	वैंक, विमा कंपनी एवं साहित्यिक अनुवाद प्रमाणपत्र
कोर्स फी	:-	एक वर्ष
पाठ्यक्रम की संरचना	:-	५००
	:-	१) पेपर १ - साहित्यिक अनुवाद
	:-	२) पेपर २ - मशीनी एवं कार्यलयीन
	:-	३) प्रात्यक्षिक कार्य अनुवाद
	:-	४) लघु अध्ययन परियोजना / प्रात्यक्षिक कार्य
पाठ्यक्रम/अभ्यासक्रम की पात्रता	:-	कला, वाणिज्य एवं विज्ञान

पाठ्यक्रम

:-

क्र.	पेपर	विषय का नाम	लेखक एवं प्रात्यक्षिक	पढाने का समय तासिका	अधिकतम अंक अवटित			सर्वाधिक			श्रेयांक
					बाह्य	अंतरिक	कुल	बाह्य	अंतरिक	कुल	
१	पेपर I	साहित्यिक अनुवाद	लेखन	९०	६०	४०	१००	२४	१६	४०	६
२	पेपर II	मशिन एवं कार्यालयीन अनुवाद	लेखन	९०	६०	४०	१००	२४	१६	४०	६
३	पेपर III	प्रात्यक्षिक	प्रात्यक्षिक	१२०	६०	४०	१००	२४	१६	४०	६

कमसे कम अध्यापक

:- ०३

परीक्षा पद्धति

:- चाचणी, कक्षेत्तर कार्य, लेखी परीक्षा

प्रस्तावित कोर्स का पाठ्यक्रम एवं परीक्षा का नमुना
लेखी परीक्षा
साहित्यिक, बैंक एवं बीमा कंपनी संबंधित / हेतु प्रमाणपत्र पाठ्यक्रम

अंक - १००

तासिका - १०

अ) अनुवाद

- १) अनुवाद अर्थ
- २) अनुवाद का स्वरूप
- ३) अनुवाद की परिभाषाएँ (संस्कृत, हिंदी एवं पाश्चात्य विद्वानों द्वारा दी गई परिभाषाएँ)
- ४) अनुवाद की अवधारणा
- ५) अनुवाद का महत्व
- ६) अनुवाद के क्षेत्र
- ७) अनुवाद के प्रकार (शाब्दिक अनुवाद, छायानुवाद एवं सारानुवाद)
- ८) अनुवाद की प्रक्रिया
- ९) अनुवाद प्रविधि
- १०) अनुवाद के गुण
- ११) अनुवाद के सिद्धांत
- १२) अनुवाद का वर्गीकरण
- १३) अनुवाद की भूमिका
- १४) अनुवाद की समस्याएँ
- १५) अनुवाद परीक्षण एवं मूल्यांकन
- १६) अनुवाद के गुण-दोष
- १७) अनुवाद का समाजशास्त्र
- १८) अनुवाद की शिक्षा

ब) अनुवाद कार्य में सहायक साधन

- १) अनुवाद एवं संचार
- २) साहित्य का अनुवाद
- ३) कार्यालयीन हिंदी और अनुवाद
- ४) मशीनी / कम्प्यूटर अनुवाद

अंतरिका :-

- अंतर्गत परीक्षा - २० अंक
- मौखिक परीक्षा - २० अंक
- लेखी परीक्षा - ६० अंक

संदर्भ ग्रंथ -

- १) अनुवाद का स्वरूप एवं समस्याएँ - डॉ. गिरीश सोलंकी
- २) अनुवाद अनुभूति और अनुभव - डॉ. सुरेश सिंहल
- ३) अनुवाद के विविध परिप्रेक्ष्य - डॉ. रामगोपालसिंह जादौन
- ४) अनुवाद विज्ञान सिद्धांत एवं प्रविधि - डॉ. भोलानाथ तिवारी
- ५) अनुवाद की समस्याएँ - जी गोपीनाथन
- ६) अनुवाद की प्रक्रिया, तकनीक और समस्याएँ - श्रीनारायण समीर
- ७) अनुवाद कला : कुछ विचार - आनंदप्रकाश खेमानी
- ८) अनुवाद सिद्धांत और व्यवहार - एस.के. शर्मा
- ९) काव्यानुवाद की समस्याएँ - महेंद्र चतुर्वेदी, डॉ. ओमप्रकाश शर्मा
- १०) अनुवाद का समाजशास्त्र - डॉ. सुर्यनारायण रणसुभे
- ११) अनुवाद एवं संचार - डॉ. पुरनचंद्र टंडन
- १२) अनुवाद विशेषकृत भाषा और अनुवाद - गोपाल शर्मा
- १३) अनुवाद सिद्धांत और प्रयोग - जी गोपीनाथन

प्रवेश प्रक्रिया

- कोर्स आरंभ होने के समय पर शुल्क तय किया जायेगा।
- छात्रों की संख्या :- कुल ३० छात्र
- शिक्षा / शिक्षण :- नियमित कक्षा सप्ताह में तीन तासिका का आयोजन किया जायेगा।

समन्वयक	संसाधन व्यक्ति
प्रस्तावित कोर्स के लिए	
प्रा.टी.एन.मोची सहाय्यक अध्यापक हिंदी विभाग डॉ.वी.पाटिल महाविद्यालय धुलिया	प्रा.डॉ.सुनील एम पाटिल सहयोगी अध्यापक आर.सी.पटेल कला, वाणिज्य एवं विज्ञान महाविद्यालय, शिरपूर प्रा.डॉ.दीपक पाटिल एस.एस.व्ही.पी.एस. महाविद्यालय, शिंदखेडा

कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव

अध्यादेश 181

महाविद्यालयाचे नाव

जयहिंद शैक्षणिक संस्थेचे,
झुलाल भिलाजीराव पाटील महाविद्यालय, देवपूर, धुळे

करिअर ओरीएंटड कोर्सचे नाव

Certificate Course in Statistical Analysis

विद्याशाखा

(विज्ञान)

शैक्षणिक वर्ष

(2020-21)

A Proposal for Certificate Course

In

Statistical Analysis

(Duration - One Year)

Submitted to

**Kavayitri Bahinabai Chaudhari
North Maharashtra University, Jalgaon**

**Under Ordinance 181
(Faculty- Science)**

Department of Statistics
**Jaihind Educational Trust's
Zulal Bhilajirao Patil College, Dhule**

(With effect from July 2020)

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Under Ordinance 181
(Faculty- Science)

College Name:- Jaihind Educational Trust's; Zulai Bhilajirao Patil College, Dhule

Title of the Course:- Certificate Course in Statistical Analysis

Aims/Objective of the Course:- This course will benefit for the students who don't have knowledge of Statistics, which will help them in their further study. The basics or the fundamentals of Statistics are covered in this course which will help them for their higher studies. The students of Statistics can also offer this course who are poor in the subject so that their concepts will get more clear.

Duration of Course: 1 Year

Fees Structure: Rs.1,000/-

Course Structure:- 1) Paper – I : Basic Statistics

2) Paper – II: Statistical Methods

3) Paper – III: Practical Course

Eligibility for Admission: H.S.C. Onwards

Skeleton of Course:

Sr. No.	Paper	Name of the Subject	Theory / Practical	Teaching Hours	Maximum marks Allotted			Passing			Credit
					Ext	Int	Total	Ext	Int	Total	
1	Paper-I	Basic Statistics	Theory	90	60	40	100	24	16	40	6
2	Paper -II	Statistical Methods	Theory	90	60	40	100	24	16	40	6
3	Paper –III	Practical Course	Practical	120	60	40	100	24	16	40	8

Internal marks are divided in three parts:- 5 marks for attendance, 10 marks for home assignment & 25 marks for internal test.

Minimum Staff : 02

Mode of Examination : Theory and Practical Exam.

Detail Syllabus : Enclosed

Syllabus for Proposed Course

PAPER – I: BASIC STATISTICS (90)

1. **CONCEPTS OF POPULATION & SAMPLE (5)**
 - 1.1 Population, sample, sampling.
 - 1.2 Objectives of sampling.
 - 1.3 Methods of sampling; Simple random sampling with and without replacement, Stratified sampling and Systematic sampling.

2. **STATISTICAL DATA (10)**
 - 2.1 Meaning of data, Raw data, and Qualitative and Quantitative data.
 - 2.2 Attributes and Variables, continuous and discrete variables.
 - 2.3 Sources of data.

3. **FREQUENCY DISTRIBUTION (15)**
 - 3.1 Discrete and Continuous frequency distribution
 - 3.2 Cumulative frequency distribution: less than, more than type.
 - 3.3 Graphical representation of data:-Histogram (equal and unequal classes), Frequency curve, Frequency Polygon, ogives,

4. **AVERGAES (15)**
 - 4.1 A.M., G.M. & H.M., Median & Mode, Use of appropriate average.
 - 4.2 Examples & problems.

5. **DISPERSION (15)**
 - 5.1 Meaning of dispersion:- Range, Q.D., M.D. , Variance, S.D. & c.v.
 - 5.2 Examples & problems.

6. CORRELATION

(15)

- 6.1 Bi-variate data. Scatter diagram, Covariance
- 6.2 Correlation & its types.
- 6.3 Karl Pearson's correlation coefficient and its properties, interpretation.
- 6.4 Examples & problems.

7. REGRESSION

(15)

- 7.1 Regression: Linear & Non-linear
- 7.2 Multiple regression (up to 3 variables only)
- 7.3 Examples & problems.

BOOKS FOR REFERENCE

1. Agarwal, B. L. (2003). Programmed Statistics, Second Edition, New Age International Publishers, New Delhi.
2. Goon, A. M., Gupta, M. K. and Dasgupta, B. (2002). Fundamentals of Statistics, Vol. I and II, 8th Edition, the World Press Pvt. Ltd., Kolkata.
3. Gupta, S. C. and Kapoor, V. K. (1983). Fundamentals of Mathematical Statistics, Eighth Edition, Sultan Chand and Sons Publishers, New Delhi.
4. Sarma, K. V. S. (2001). Statistics Made it Simple: Do it yourself on PC. Prentice Hall of India, New Delhi.

1. UNIVARIATE DISCRETE PROBABILITY DISTRIBUTION (5)

- 1.1 Discrete random variable, p.m.f., c.d.f.
- 1.2 Mean, Median and mode of a discrete random variable.
- 1.3 Examples & problems.

2. BINOMIAL DISTRIBUTION (10)

- 2.1 Probability mass function
- 2.2 Conditions for the application of binomial distribution and real life situations of binomial distribution.
- 2.3 Mean and variance.
- 2.4 Computation of probabilities using statistical table.
- 2.5 Examples & problems.

3. POISSON DISTRIBUTION (10)

- 3.1 Probability mass function
- 3.2 Conditions for the application of Poisson distribution and real life situations of Poisson distribution.
- 3.3 Mean and variance.
- 3.4 Computation of probabilities using statistical table.
- 3.5 Examples & problems.

4. UNIVARIATE CONTINUOUS PROBABILITY DISTRIBUTION (10)

- 4.1 Continuous random variable, p.d.f., c.d.f.
- 4.2 Mean, Median and mode of a continuous random variable.
- 4.3 Examples & problems.

5. NORMAL DISTRIBUTION (10)

- 5.1 Probability density function, Identification of parameters, Properties.
- 5.2 Standard Normal Variate.
- 5.3 Real life situations of normal distribution.
- 5.4 Computation of probabilities using Normal Probability Table.
- 5.5 Numerical problems.

6. TESTING OF HYPOTHESIS (15)

- 6.1 Random sample, Parameter, Statistic, Hypothesis, Statistical Hypothesis, Null Hypothesis, Alternate Hypothesis.
- 6.2 Two types of error, sizes of two types of error, Level of significance, Critical Region, Acceptance Region, Critical Value, Test of Significance, Test Statistic, One-Tailed Test, and Two-Tailed Test, p – value.
- 6.3 General procedure of testing of hypothesis.

7. LARGE SAMPLE TESTS (15)

- 7.1 Tests for single population mean
- 7.2 Tests for two population means
- 7.3 Tests for single population proportion
- 7.4 Tests for two population proportions.
- 7.5 Numerical problems.

8. TESTS BASED ON t , χ^2 and F DISTRIBUTIONS (15)

- 8.1 One Sample t – test, Two – sample t – test, Paired t – test
- 8.2 Chi-square tests for goodness of fit & independence of attributes
- 8.3 F – test for equality of variances.

BOOKS FOR REFERENCE

1. Gupta, S.C. and Kapoor, V. K. (1983). Fundamentals of Mathematical Statistics, Eighth Edition, Sultan Chand and Sons Publishers, New Delhi.
2. Ross S. (2002). A First Course in Probability, Sixth Edition, Pearson Education, Inc. & Dorling Kindersley Publishing, Inc.
3. Hogg, R.V., Tanis, E.A. and Rao J.M. (2009): Probability and Statistical Inference, Seventh Ed, Pearson Education, New Delhi.
4. Myer, P.L. (1970): Introductory Probability and Statistical Applications, Oxford & IBH Publishing, New Delhi.

PAPER III – STATISTICS PRACTICALS (120)

INSTRUCTIONS:

1. The total duration of external practical examination shall be 3 clock hours.
2. Student must complete all the practicals to the satisfaction of concerned teacher.
3. Student must produce at the time of the practical examination, the laboratory journal of practicals completed along with the completion certificate signed by the concerned teacher and the Head of department.
4. All practicals must be carried out by using personal computers (PC) based on MS-Excel (2010 or higher version) software.

LIST OF PRACTICALS (120)

1. Introduction to MS-Excel (2010 or higher version). 2
2. Drawing random samples by using SRSWOR, SRSWR, Stratified, systematic sampling
3. Graphical representation of statistical data : Histogram, frequency curve, frequency polygon, ogives.

4. Computation of Measures of averages & dispersion.
5. Scatter diagram, correlation & regression.
6. Fitting of non-linear regression.
7. Fitting of binomial distribution
8. Fitting of Poisson distribution
9. Fitting of normal distribution
10. Applications of binomial, Poisson & normal distributions.
11. Large sample tests
12. Test based on t distribution
13. Test based on χ^2 distribution
14. Test based on F distribution

Practical
P. V. Patil
(Co-ordinator)

(K. Sharma)

**Kavayitri Bahinabai Chaudhari
North Maharashtra University, Jalgaon**

**Jaihind Educational Trust's
Zulal Bhilajirao Patil College, Dhule**

**A Proposal for
Certificate Course in
'संस्कृतसंभाषाम्' (Sanskrit Sambhashan)
(Duration - One Year)
Under Ordinance 181**

(Faculty- Humanities)

(With effect from June 2021-22)

Certificate Course in Sanskrit Sambhashanm

- **Introduction**

Speaking, Reading and Writing are the important aspects of any language study. The purpose of language education is to do deep study of language and literature. Those three skills play very important role in language study. The purpose of language education is to grow the natural potential of students and to build their personality to deal with the challenges of the fast changing world. In the present scenario where the Schools and College are busy in preparing students for examinations these aspects hardly receive attention that they deserve. It is, therefore, necessary that out of Schools and College activities are undertaken to compensate for this deprivation. It is well known that the experiences gained at the formative age shape their personality. With this view the Jaihind Educational Trust's Z. B. Patil College , Dhule proposed to launch a "*Certificate Course in Sanskrit Sambhashanam*" for under graduation students starting from July, 1, 2021-22

- **About the Course:**

The course aims at to bring a basic awareness about the significance spoken Sanskrit professional and inter-personal communications and facilitate an all-round personality development of the students from both rural and urban areas. Hard or technical skills help the students securing a basic position in one's life and career. But only Spoken skills can ensure a person retain it, climb further, reach a pinnacle, achieve excellence, and derive fulfilment and supreme joy. So the institution intended to introduce this course.

- **Objectives:**

1. Develop positive Spoken Sanskrit Skill.
2. To improve the language grammar base.
3. To improve the knowledge of Sanskrit Shubhashita
4. To improve the Sanskrit vocabulary of students of sanskrit language.

North Maharashtra University, Jalgaon
Ordinance 181

College Name : Z.B.Patil College, Dhule.

Title of the Course : **Certificate Course in Sanskrit Sambhashanm**
Aims/Objective of the Course :

- Develop positive Spoken Sanskrit Skill.
- To improve the language grammar base.
- To improve the knowledge of Sanskrit Shubhashita
- To improve the Sanskrit vocabulary of students of sanskrit language.

Duration of Course : 1 Year

Fees Structure : 2,000/-

Course Structure : 1) Paper I - संस्कृतसंवद-परिचयाम्।

2) paper – II - सुभाषितपरिचयम्।

3) Practical Course – सुबन्तम् तिगन्तम्।

Eligibility for Admission : XIIth. Arts, Commerce & Science

Skeleton of Course :

S N	Paper	Name of the Subject	Theory/ Practical	Teachin g Hours	Maximum marks allotted			Passing			Credit
					External	Internal	Total	External	Internal	Total	
1	Paper - I	संस्कृतसंवद-परिचयाम्।	Theory	90	60	40	100	24	16	40	6
2	Paper - II	सुभाषितपरिचयम्।	Theory	90	60	40	100	24	16	40	6
3	Paper - III	सुबन्तम् तिगन्तम्।	Practical	120	60	40	100	24	16	40	8

* Internal Marks are divided in 3 parts e.g. 05 marks for Attendance, 10 marks for Home Assignment Tutorial & 25 marks for Internal Test.

Minimum Staff : 02

Mode of Examination : Test, Tutorial /Written/Practical Exam.

Detail Syllabus : Enclosed

Syllabus and Examination pattern for Proposed Course

Theory Paper 4 : संस्कृत-वैशेषिक :

विद्यार्थी 090

Periods : 90

1. संन्यासम् ।

(Duration: 30)

- संन्यासः ।
- अर्थव्यापः ।
- शब्द-साधनम् ।
- अति-पदम् ।

2. अक्षरव्यापकवैशेषिकम् ।

(Duration: 30)

- संन्यासः ।
- अर्थव्यापः ।
- शब्द-साधनम् ।
- अति-पदम् ।

3. अक्षरव्यापकवैशेषिकम् ।

(Duration: 30)

- संन्यासः ।
- अर्थव्यापः ।
- शब्द-साधनम् ।
- अति-पदम् ।

4. अक्षरव्यापकवैशेषिकम् ।

(Duration: 30)

- संन्यासः ।
- अर्थव्यापः ।
- शब्द-साधनम् ।
- अति-पदम् ।

5. अक्षरव्यापकवैशेषिकम् ।

(Duration: 30)

- संन्यासः ।
- अर्थव्यापः ।
- शब्द-साधनम् ।
- अति-पदम् ।

Theory Paper-II : सुभाषितपरिचयाम् ।

Marks-100
Periods-90

1. नीतिशतकम् । पंचदश श्लोकाः ।

- (Period- 18)

- 1.1 पंचदश श्लोकाः - लेखनम् ।
- 1.2 पंचदश श्लोकाः - वचनम् ।
- 1.3 पंचदश श्लोकाः - सार्थस्पष्टिकरणम् ।
- 1.4 पंचदश श्लोकाः - कंठस्थिकरणम् ।
- 1.5 पंचदश श्लोकाः - प्रवचनम् ।

2. नीतिशतकम् । पंचदश श्लोकाः ।

- (Period- 18)

- 1.6 पंचदश श्लोकाः - लेखनम् ।
- 1.7 पंचदश श्लोकाः - वचनम् ।
- 1.8 पंचदश श्लोकाः - सार्थस्पष्टिकरणम् ।
- 1.9 पंचदश श्लोकाः - कंठस्थिकरणम् ।
- 1.10 पंचदश श्लोकाः - प्रवचनम् ।

3. नीतिशतकम् । पंचदश श्लोकाः ।

- (Period- 18)

- 1.11 पंचदश श्लोकाः - लेखनम् ।
- 1.12 पंचदश श्लोकाः - वचनम् ।
- 1.13 पंचदश श्लोकाः - सार्थस्पष्टिकरणम् ।
- 1.14 पंचदश श्लोकाः - कंठस्थिकरणम् ।
- 1.15 पंचदश श्लोकाः - प्रवचनम् ।

4. नीतिशतकम् । पंचदश श्लोकाः ।

- (Period- 18)

- 1.16 पंचदश श्लोकाः - लेखनम् ।
- 1.17 पंचदश श्लोकाः - वचनम् ।
- 1.18 पंचदश श्लोकाः - सार्थस्पष्टिकरणम् ।
- 1.19 पंचदश श्लोकाः - कंठस्थिकरणम् ।
- 1.20 पंचदश श्लोकाः - प्रवचनम् ।

5. नीतिशतकम् । पंचदश श्लोकाः ।

- (Period- 18)

- 1.21 पंचदश श्लोकाः - लेखनम् ।
- 1.22 पंचदश श्लोकाः - वचनम् ।
- 1.23 पंचदश श्लोकाः - सार्थस्पष्टिकरणम् ।
- 1.24 पंचदश श्लोकाः - कंठस्थिकरणम् ।
- 1.25 पंचदश श्लोकाः - प्रवचनम् ।

Paper-III : Practical

Marks : 100

Duration : 2 1/2

Each of the practical taken for learners through a series of interactive activities, Discussion, Group Activities, Psycho Education, Role Plays, PPT Presentation, Video Clips, etc. which stimulates both group and individual learning with the specific aim of developing self skills and personality development.

• यह विषय प्राथमिक

- 1. सजिवालय
- 2. अजिवालय
- 3. सुखलय
- 4. आसर्ग
- 5. विचार

• यह विषय माध्यमिक

- 1. सजिवालय
- 2. अजिवालय
- 3. सुखलय
- 4. आसर्ग
- 5. विचार

• यह

- 1. सुखलय
- 2. अजिवालय
- 3. आसर्ग
- 4. सुखलय
- 5. अजिवालय
- 6. सुखलय
- 7. अजिवालय
- 8. सुखलय

1. Practical	-	25 Marks
2. Presentation	-	25 Marks
3. Report Writing	-	50 Marks

Total = 100 Marks

• **References Books:**

- नीतिशतकम् – प्रा. डॉ. सौ. भाग्यश्री भलवतकर, अथर्व पुब्लिकेशन, जळगाव, २०१९
- संस्कृत संभाषणम् - प्रा. सीमा चव्हाण, गार्गी संस्कृत प्रकाशन धुळे. २०१८
- संस्कृत व्याकरण रचना पद्धती- प्रा. सीमा चव्हाण, गार्गी संस्कृत प्रकाशन धुळे. २०१८
- पंचतंत्रम् - चौखंभा विद्याभवन, वाराणसी
- सुगम संस्कृत व्याकरण - प्र. शं. जोशी नितीन प्रकाशन, पुणे. १९९३
- शब्द-धातु-रूपावलि: । -नवनीत प्रकाशन, मुंबई.
- <https://www.sanskritabharati.in>
- https://www.sabda.in/catalog/booksearch.php?language_key=SAN
- <https://www.sanskritfromhome.in>
- http://www.dasbodh.com/p/blog-page_11.html
- [http://www.sanskrit.nic.in/sanskrit language teaching.php](http://www.sanskrit.nic.in/sanskrit_language_teaching.php)

• **Admission Process:**

1. General Entrance Test (MCQs and Descriptive) will be conducted of 50 marks.
2. The fees of the course will be decided at the time of commencement of the course.

• **Strength of the Students:**

Total 60 (Sixty) students .

• **Teaching:**

Regular classes will be conducted daily **One Lecture every day.**

Coordinator for the Proposed Course	Resource Persons
Orf. Gaikwad Pandit Baburao Associate Professor Department of Sanskrit Zulal Bhilajirao Patil College, Dhule.	Prof. Ashwani Surwanshi
	Prof. Bhushan Bhandari

Question Paper Pattern For Theory Course

Time - 2 hrs.

Marks- 60

Instructions-

1. All questions carry equal marks.
2. All questions are compulsory.

Que. 1. Answer in one sentence. (Any-6) 12

1. -----
2. -----
3. -----
4. -----
5. -----
6. -----
7. -----
8. -----
9. -----

Que.2. Answer in three to four sentences. (Any-4) 12

1. -----
2. -----
3. -----
4. -----
5. -----
6. -----

Que.3. Answer in brief. (Any-3) 12

1. -----
2. -----
3. -----
4. -----
5. -----

Que. 4 .Write a Short Note on. (Any-2) 12

1. -----
2. -----
3. -----
4. -----

Que. 5. Long answer questions. (Any-1) 12

1. -----
2. -----
3. -----