


**M. S. P. Mandal's  
Shivchhatrapati College, Aurangabad  
Internal Quality Assurance Cell**



1.3.2 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

**Details of inclusion of project work  
in the curriculum**



  
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**OUTLINE OF B.A. THIRD YEAR OPTIONAL ENGLISH COURSE****SEMESTER FIVE**

<b>Paper No.</b>	<b>Paper Title</b>	<b>Paper Code</b>	<b>Paper Type</b>
IX	Twentieth Century English Literature	OPE-5	Subsidiary
X	Introduction to Literary Criticism and Terms	OPE-6	Subsidiary
XI(A)	American Literature	OPE-7	Main
XI(B)	OR Indian Writing in English		
XII	Project Work on History of English Literature (from Renaissance Age to the Age of T.S. Eliot)	OPE-8	Main

**SEMESTER SIX**

<b>Paper No.</b>	<b>Paper Title</b>	<b>Paper Code</b>	<b>Paper Type</b>
XIII	Twentieth Century English Literature	OPE-5	Subsidiary
XIV	Introduction to Literary Criticism and Terms	OPE-6	Subsidiary
XV(A)	American Literature	OPE-7	Main
XV(B)	OR Indian Writing in English		
XVI	Project Work on History of English Literature (from Renaissance Age to the Age of T.S. Eliot)	OPE-8	Main



DR. BABASAHEB AMBEDKAR MARATHWADA  
UNIVERSITY, AURANGABAD.



Syllabus of

**Marathi**

B.A. III Year

Semester- V & VI

(Effective from 2015 – 2016 & onwards)

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डॉ. सदाशिव सरकटे

अध्यक्ष-मराठी अभ्यास मंडळ

डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ,  
औरंगाबाद.

*[Handwritten signature]*  
Dr. S. K. Bhambhani

*[Handwritten signature]*  
Dr. B. K. Kulkarni

*[Handwritten signature]*  
Dean  
Faculty of Arts



*[Handwritten signature]*  
**Principal**  
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**Aurangabad**

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टिप : उपर्युक्त (Subsidary) मराठी हा विषय वेळाने असास करणाऱ्या विद्यार्थ्यांनी पाठव्या  
संबंधीत असासपत्रिका क्र. ०१ व १० आणि सहाय्या संबंधीत असासपत्रिका क्र. १३  
व १४ असासपत्रिका आवाश्यक आहे.

०४. असासपत्रिका १३ वी : प्रकल्प कार्य मार्ग-२

०३. असासपत्रिका १५ वी : मध्यस्थीन मराठी वाङ्मयाचा इतिहास (१९०१ ते १९९८)

०२. असासपत्रिका १४ वी : व्याकरण व निबंधलेखन

०१. असासपत्रिका १३ वी : पाश्चात्य साहित्यविचार

सत्र ३ वे

०४. असासपत्रिका १२ वी : प्रकल्प कार्य मार्ग-१

०३. असासपत्रिका १५ वी : मध्यस्थीन मराठी वाङ्मयाचा इतिहास ( प्रारंभ ते १९००)

०२. असासपत्रिका १० वी : भाषाविज्ञान

०१. असासपत्रिका ९ वी : भारतीय साहित्यविचार

सत्र ५ वे

सजनिहाय असासकस

शैक्षणिक वर्ष सन २०१५ पासून लागू

वी.ए.ए.टी.स. वर्ष ( सत्र - पाववे व सहावे )

डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद





डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद.

जून २०२२ पासून- नवीन अभ्यासक्रम (CBCS)

बी.ए., बी.एससी प्रथम वर्ष (द्वितीय सत्र) अभ्यासपत्रिका-२ री

संकेतांक - AECC-2 Marathi

भारतीय भाषा : मराठी (भाग-२)

(मायबोली)

काव्य विभाग


१. या झोपडीत माझ्या - राष्ट्रसंत तुकडोजी महाराज
२. प्रार्थना - कुसुमाग्रज
३. तुझ्या मताचे - वामनदादा कर्डक
४. सांगा कसं जगायचं ? - मंगेश पाडगावकर
५. आल्या जुळून तारा - सुहासिनी इलेंकर
६. समाधान - फ.म. शहाजिंदे
७. जीवनाचा शोध घेताना - वाहरू सोनवणे
८. शिकवण - नारायण कुलकर्णी कवठेकर
९. कळा सोसताना - जगदीश कदम
१०. जीवाचा आटापिटा - लोकनाथ यशवंत
११. बाप म्हणायचा - इंद्रजित भालेराव
१२. युद्ध - नीरजा

वाद्य विभाग

१. ज्ञात-अज्ञात अहिल्याबाई होळकर - विनया खडपेकर
२. खोप - रा.रं.बोराडे
३. बिनदरदी - भीमराव वाघचौरे
४. क्लोरोफिल - रेखा बैजल
५. निश्चल डोंगरगाव, प्रेमळ माणसं - बा.भो.शास्त्री

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६. लॉरी बेकर - अतुल देऊळगावकर

### उपयोजित मराठी

- १) पुस्तक परीक्षण
- २) नाट्य परीक्षण (प्रयोगाचे आकलन)
- ३) पटकथा (संकल्पना समजून घेणे.)
- ४) जाहिरात लेखन

### प्रकल्प लेखन

प्रकल्प लेखनाच्या संदर्भात पुढील विषयाच्या अनुषंगाने ०१ श्रेयांकात अध्यापकाने मार्गदर्शन करणे अभिप्रेत आहेत.

- १) म्हणी संकलन व विश्लेषण
- २) घोषवाक्य (वेगवेगळ्या विषयावरील दहा घोषवाक्य तयार करून विश्लेषण करणे)
- ३) संवादलेखन
- ४) मुलाखत ( साहित्यिक, लोकप्रतिनिधी, प्रशासक, कर्तबगार व्यक्ती)

टीप : प्रकल्प लेखनासाठी प्रत्येक सत्रात उपनिर्देशित विषयातील एखादा विषय निवडून २००० शब्द मर्यादित लिहावा.

भारांश : काव्य -१५, गद्य- १५, उपयोजित मराठी १० गुण, प्रकल्पलेखन -१० गुण = एकूण ५० गुण  
प्रश्नपत्रिकेचे स्वरूप

[४० गुण]

सूचना :

- पहिला प्रश्न सोडविणे अनिवार्य

प्रश्न १ ला : १) बहुपर्यायी - १० गुण

प्रश्न २ रा : पुढील प्रश्नांची सविस्तर उत्तरे लिहा. (कोणतेही दोन) १० गुण


प्रश्न ३ रा : पुढील प्रश्नांची सविस्तर उत्तरे लिहा. (कोणतेही दोन) १० गुण

प्रश्न ४ था : टीपा लिहा . (कोणतेही दोन) १० गुण

(उपरोक्त प्रश्नपत्रिकेचे स्वरूप सर्व अभ्यासपत्रिकांना लागू आहे.)



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डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद.

जून २०२२ पासून- नवीन अभ्यासक्रम (CBCS)

बी.ए. प्रथम (द्वितीय सत्र)

अभ्यासपत्रिका ३ री - ऐच्छिक मराठी

निवडक ललित गद्य (ललित गंध)

संकेतांक - CC-1B(3) Marathi

उद्दिष्टे-

- १) ललित गद्याचे स्वरूप विशेष व परंपरा यावर प्रकाश टाकणे.
- २) इतर वाङ्मयप्रकारापेक्षा ललित गद्याचे वेगळेपण उलगडून दाखवणे.
- ३) ललित लेखकाच्या तरल, संवेदनशील, विचारशील प्रवृत्तीचा शोध व त्या प्रवृत्तीचा लेखनास झालेला स्पर्श आणि त्यातून निर्माण झालेले सौंदर्य याचा शोध घेणे.
- ४) निवडक लेखकांच्या ललित लेखांची भिन्न प्रकृती व त्यातील साम्यता यांचा उलगडा करणे.
- ५) लालित्याच्या अंगाने जाणाऱ्या विविध लेखांचा परिचय करून देऊन विद्यार्थ्यांना ललित लेखनाच्या सर्जनशीलतेसाठी उद्युक्त करणे.

### ललित गद्य

- १) बा शेतकऱ्या ऊठ! - साने गुरुजी
- २) पैस - दुर्गा भागवत
३. गांधी आमचा कोण लागतो? - अनंत भालेराव
४. विघ्न संतोषी - विजय तेंडुलकर
५. महाविद्यालयातील विद्यार्थ्यास पत्र - शरद जोशी
६. वन्यजीव निरीक्षणाची किमया - मारुती चितमपल्ली
७. औरंगाबाद : महाराष्ट्रातील दिल्ली - सुधीर रसाळ
८. अरण्यातील आत्मभान - महेश एलकुंचवार

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१. आपली फुलण्याचीही आणि फुलवण्याचीही क्षमता ओळखू - आ.ह.साळुंखे
१०. शब्दांच्या संध्याकाळी - श्रीनिवास विनायक कुलकर्णी
११. यशवंतरावः साधे, सुसंस्कृत, मायाळू - अनिल अवचट
१२. लेखक व्हायचं तर....जिव्हाळा आणि तटस्थता हवी - दत्ता भगत
१३. सुभाष सानपाची गोष्ट - नागनाथ कोत्तापल्ले

### प्रकल्प लेखन

प्रकल्प लेखनविषयी अध्यापकाने पुढील विषयावर ०.५ श्रेयांकामध्ये मार्गदर्शन करणे अभिप्रेत

- १) ललित गद्य वाङ्मयप्रकाराचा परिचय.
- २) ललित लेखसंग्रहाचा परिचय.
- ३) ललित लेखसंग्रहावरील गटचर्चा व त्याचा अहवाल लेखन.
- ४) अभ्यासलेल्या ललित लेखांच्या आधारे एखादा विषय निवडून ललित लेख लिहावा.

टीप: वरीलपैकी कोणताही एक विषय निवडून विद्यार्थ्याने २००० शब्दांपर्यंत प्रकल्प पूर्ण करणे.



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डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद.

जून २०१९ पासून- नवीन अभ्यासक्रम (CBCS)

बी.ए. प्रथम (द्वितीय सत्र)

अभ्यासपत्रिका ४ थी - ऐच्छिक मराठी

निवडक मराठी कविता (आधुनिक)

संकेतांक - CC-1B(4) Marathi

उद्दिष्टे -

- १) कविता वाङ्मयप्रकाराची माहिती करून देणे.
- २) कवितेच्या माध्यमातून कवितेच्या काळातील स्पंदने व कलावंतांची संवेदनशीलता उलगडून दाखवणे.
- ३) कविता या वाङ्मयप्रकाराच्या आकलन व आस्वादाची क्षमता वाढीला लावणे. तसेच एक रसिक वाचक निर्माण करणे.
- ४) मूल्याधारित कवितेच्या माध्यमातून सामाजिक बांधिलकीची मूल्ये रुजविणे.
- ५) काव्याचे प्रवाह, प्रवृत्ती, अभिव्यक्ती यांचा परिचय करून देणे.
- ६) निवडक कवींच्या कवितेतील आशय व अभिव्यक्ती याचे स्वरूप न्याहाळणे.

अभ्यासक्रम

( प्रत्येकी ५ कविता)

- १) ना. धों. महानोर
- २) अनुराधा पाटील
- ३) इलाही जमादार
- ४) प्रज्ञा दया पवार
- ५) श्रीकांत देशमुख
- ६) सौमित्र
- ७) कल्पना दुधाळ



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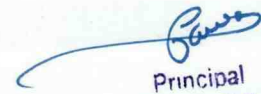
## प्रकल्प लेखन

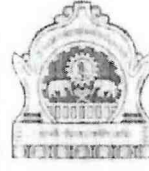
प्रकल्प लेखनविषयी अध्यापकाने पुढील विषयावर ०.५ श्रेयांकामध्ये मार्गदर्शन करणे अभिप्रेत

- १) कविता वाङ्मय प्रकारचा परिचय करून द्या.
- २) कविता संग्रहाचा परिचय.
- ३) कविता संग्रहावरील गटचर्चा व त्याचा अहवाल लेखन.
- ४) निवडक २५ कवितांचा हस्तलिखित कवितासंग्रह (तुमच्या अभिप्रायासह) तयार करा.

टीप : वरीलपैकी कोणताही एक विषय निवडून विद्यार्थ्याने २००० शब्दांपर्यंत प्रकल्प पूर्ण करणे.



  
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जून २०२२ पासून- नवीन अभ्यासक्रम (CBCS)


बी.कॉम.प्रथम वर्ष (द्वितीय सत्र) अभ्यासपत्रिका -२

भारतीय भाषा : मराठी (भाग -२)

संकेतांक - MAR - 02

तासिका - ५७ तास - ४५ श्रेयांक - ०३ गुण - १०० (लेखी परीक्षा -८० प्रात्यक्षिक-२०)

अ. क्र.	घटक	अभ्यासक्रमाचा तपशील	श्रेयांक	तास
१.	काव्य विभाग	१. या झोपडीत माझ्या - राष्ट्रसंत तुकडोजी महाराज २. प्रार्थना - कुसुमाग्रज ३. तुझ्या मताचे - वामनदादा कर्डक ४. सांगा कसं जगायचं ? - मंगेश पाडगावकर ५. आल्या जुळून तारा - सुहासिनी इलेंकर ६. समाधान - फ. म. शहाजिदे ७. जीवनाचा शोध घेताना - बाहरू सोनवणे ८. शिकवण - नारायण कुलकर्णी कवठेकर ९. कळा सोसताना - जगदीश कदम १०. जीवाचा आटापिटा - लोकनाथ यशवंत ११. बाप म्हणायचा - इंद्रजित भालेराव १२. युद्ध - नीरजा	०१	१५
२.	गद्य विभाग	१. ज्ञात - अज्ञात अहिल्याबाई होळकर - विनया खडपेकर २. खोप - रा. रं. बोराडे ३. विनदरदी - भीमराव वाघचौरे	०१	१६

  
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		४. क्लोरोफिल - रेखा वैजल ५. निश्चल डोंगरगाव, प्रेमळ माणसं - बा. भो. शास्त्री ६. लॉरी बेकर - अतुल देऊळगावकर		
३.	उपयोजित मराठी	१. पुस्तक परीक्षण २. नाट्य परीक्षण (प्रयोगिक रूप) ३. पटकथा ४. जाहिरात लेखन ५. माहिती पत्रक ६. निविदा ७. बातमी लेखन ८. अहवाल लेखन	०.५	०७
४.	प्रकल्प / प्रात्यक्षिक / स्वाध्याय	अध्यापकांनी विद्यार्थ्यांच्या कौशल्यांना उपयुक्त असे विषय प्रकल्प / प्रात्यक्षिक / स्वाध्यायाकरिता मार्गदर्शन करणे अपेक्षित आहे.	०.५	०७
		एकूण	०३	४५

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प्रा.डॉ. दासू वैद्य  
अध्यक्ष मराठी भाषा अभ्यासमंडळ



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पालि आणी बुद्धिदम विषयाया प्रोजेक्ट आरखडा स्वरुप

(लघुप्रकल्प)

बी.ए. तृतीय वर्षाच्या विद्यार्थ्यांना प्रोजेक्ट (पालि अंशुड बुद्धिदम या विषयाचा लघुप्रकल्प) देत असतांना खंडीत विषय अभ्यासक्रमाशी निगडीत प्राध्यापकांनी पालि साहित्यावर आधारित सक्षम साहित्यकरी ह्या अभ्यासासाठी विद्यार्थ्यांना निवड खातेस देवून वेळापत्र सांगिते. त्या वाङ्मय केंद्रीत खंडीतनात्मक स्वरुपात प्रकरण करून मुख्यमपानात्मक अभ्यास करवयास सांगून प्रोजेक्ट तयार करून बहिरुप परिक्षक विभाग प्रमुखाना अंतर्गत गुणदान करून द्यावी यादी विद्यापीठाच्या परीक्षा विभागकाडे पाठवावी.

दिन : धर XV व XVI च्या ऐवजी लघुप्रबंध Yearly राहील.

प्र. डॉ. निवस एम. सत्यपाल रशीवर

अध्यक्ष

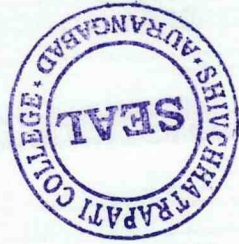
पालि भाषा अभ्यास मंडळ,

डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ,

औरंगाबाद.

9408752408 -

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HISTORY SYLLABUS FINAL

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD

SYLLABUS OF B.A.III<sup>rd</sup>

YEAR (HISTORY) SEMESTER SYSTEM

(Effective From: - 2015-2016 )

- 1) Each Semester consist of Four papers
- 2) Each paper will be of 50 marks:
- 3) Semester-end examination will be of 90 minutes for each paper.

Paper No.	Title of the paper	Credits Allotted	Periods Allotted
<b>SEMESTER – V<sup>th</sup></b>			
9	Historiography	04	60
10	History of Indian National Movement ( A.D. 1885 – A.D. 1947 )	04	60
11	Women's Struggle in Modern India OR History of Modern China ( A.D. 1900 – A.D.1950 ) OR History of India ( A.D. 1757- 1885 )	04	60
12	Project work	04	60
<b>SEMESTER- VI<sup>th</sup></b>			
13	Fields of History ( Archaeology, Museology and Tourism )	04	60
14	Landmarks in the History of modern world	04	60
15	Glimpses of the History of Marathwada OR Nationalist movements in south - East - Asia	04	60
16	Project work	04	60

NOTE:

1. One period of 50 minutes
2. 60 periods are meant for classroom teaching and Project work.



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**DR. BABASAHEB AMBEDKAR  
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**Syllabus of**


**B.A. III YEAR**


**Political Science**

**Semester-V & VI**

**[Effective from 2015-2016 onwards]**



  
**Principal  
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Aurangabad**

  
**Dr. pokale B.G.**

Project Report 80 marks, presentation 20 marks Total- 100

Project evaluation will be done by external and internal examiners at the end of VI<sup>th</sup> semester Examination. Evaluation of project work and presentation examination will be done in the presence of external examiner appointed by university authority.

32 (5) committee of concerned subjects will appoint the external examiners for evaluation and presentation of project work. Schedule of project work of examination will be in the month of Feb. (at the end of VI<sup>th</sup> semester).

Rs. 10/- per candidate per examiner will be the remuneration along with T.A. D.A./ Local conveyance Allowance will be paid by University.

Passing criteria will be 40 marks out of 100.

Project work outline

1. The concern subject teacher should provide outline of the project work to the students.
2. The concern subject teacher should allot the topic of project work separately to each student.
3. Outline of the project work is as follows
  - i. Title of the project
  - ii. Introduction
  - iii. Objectives
  - iv. Importance of the topic
  - v. Analysis and discussion
  - vi. Conclusion
  - vii. References
4. Written work of Project should be around 40 to 50 pages in own hand written along with certification by concerned Lecturer and head of the department.
5. University should provide blank project work book to the colleges.
6. Workload of Project work should be 4 hours per week.

40 to 50

4 30 20



  
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Syllabus of

**B.A. III YEAR**

Sociology

**Semester-V & VI**

*[ Effective from 2015-16 & onwards ]*

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Aurangabad**



B.A. III Year (Semester V & VI)

Paper No.:----- Project work

For All Students offering Main subject (With and without Practical)

Project Report 80 marks, presentation 20 marks Total- 100

Project evaluation will be done by external and internal examiners at the end of VI<sup>th</sup> semester Examination. Evaluation of project work and presentation examination will be done in the presence of external examiner appointed by university authority.

32 (5) committee of concerned subjects will appoint the external examiners for evaluation and presentation of project work. Schedule of project work of examination will be in the month of Feb. (at the end of VI<sup>th</sup> semester).

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4 30 20



  
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Revised Syllabus of  
Economics

B.A - Third Year  
SEMESTER – V and VI

[Progressively Effect from 2015-16 & onwards]

Dr. Dileep Arjune  
B.O.S. Chairman in  
Economics

Principal  
Shivchhatrapati College,  
Aurangabad



## *Revised Structure of Syllabus and Papers*

*for*

### **ECONOMICS**

### *Syllabus of B.A. Third Year*

### **Semester System**

A] 50 marks for each paper.

B] Semester-Wise examination will be of 120 minutes for each paper.

Paper No.	Title of the Paper	Credit Allotted	Periods	Marks
<b><i>Semester – Fifth</i></b>				
<b>Eco -109</b>	International Economics (Compulsory)	04	60	50
<b>Eco -110</b>	Agricultural Economics (Compulsory)	04	60	50
<b>Eco – 111</b>	History of Economic Thought (Optional) OR	04	60	50
<b>Eco -111(A)</b>	Mathematical Economics OR	04	60	50
<b>Eco- 111(B)</b>	Labour Economics	04	60	50
<b>Eco – 112</b>	Project Works (Annually)	04	60	--







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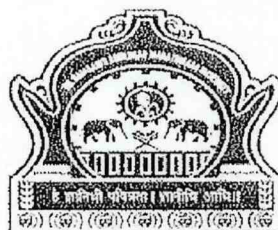
3

[Dr. Arjune Dilip]  
Chairman  
Board of Studies in Economics  
Dr. Babasaheb Ambedkar  
Marathwada University, Aurangabad

- Note:  
1] One period of 50 minutes.  
2] 15 periods = 01 credit  
3] 04 credits = 60 periods  
4] Each paper is comprised of 04 credits.

Paper No.	Title of the Paper	Credit Allotted	Periods	Marks
<b>Semester – Sixth</b>				
Eco – 113	Research Methodology OR Regional Economics	04	60	50
Eco-113 (A)	Industrial Economics OR Foreign Trade and International Institutions	04	60	50
Eco – 114	Industrial Economics	04	60	50
Eco- 114 (A)	Foreign Trade and International Institutions	04	60	50
Eco – 115	Indian Economic Thinker OR Economic Thoughts of Dr. B.R. Ambedkar and Mahatma Phule	04	60	50
Eco- 115 (A)	Economic Thoughts of Dr. B.R. Ambedkar and Mahatma Phule	04	60	50
Eco- 115(B)	Econometrics	04	60	50
Eco- 115 (C)	Economy of Maharashtra	04	60	50
<b>Eco – 116</b>	<b>Project Work</b> <b>(Annual Assessment)</b>	<b>04</b>	<b>60</b>	<b>100</b>

**DR. BABASAHEB AMBEDKAR  
MARATHWADA UNIVERSITY, AURANGABAD**



Revised Syllabus of  
**B.A. Third Year - Geography**

**Semester-V & VI**  
**(Choice Based Credit System)**

**[Effective from 2015-16 onwards]**

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**Aurangabad**



**Dr.Babasaheb Ambedkar Marathwada University,  
Aurangabad**

**GEOGRAPHY**

Curriculum Structure and Scheme of Evaluation for B.A. III  
With effective from 2015-16

**SEMESTER VI – MAIN**


Sr. No.	Paper Code	Paper No.	Name of Paper	Scheme of Teaching (Periods / Week )				Scheme of Evaluation		
				L	P	Total Credits	Theory	Theory	Pract./ Viva-voce	Total Marks
1	GEO 117	Geo. XVII	Bio-geography	4	--	4	4	30	--	30
Total Semester VI (Main)				4	--	4	4	30	--	30

**Annual Practical - SEMESTER V & VI – MAIN**

Sr. No.	Paper Code	Paper No.	Name of Paper	Scheme of Teaching (Periods / Week )				Scheme of Evaluation		
				L	P	Total Credits	Theory	Theory	Pract./ Viva-voce	Total Marks
1	GEO 118	XVIII	Practical (MAIN)	-	4	4	--	-	40	40
	GEO 119	Geo. Pract. XIX	Project Work (MAIN) (Practical)	-	4	4	--	-	100	100
Total					8	8	-	-	140	140

- Total period per theory paper, per week -4
- Practical having 4 period per week
- Practical batch – one batch of 20 students



  
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## Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

**PSYCHOLOGY**

Curriculum Structure and Scheme of Evaluation for - B. A. V &amp; VI Sem With effective from 2015-16

<b>SEMESTER – V</b>									
UNIT	Course Code	Name of the Paper	Scheme of Teaching (Periods/Week)				Scheme of Evaluation (Marks)		
			L	P	Total Periods	Total Credits	Theory	Practical Viva-Voce	Total Marks
UNIT I	PSY 113	Subsidiary Abnormal Psychology	4	-	4	4	30	-	30
UNIT II	PSY 114	Organizational Psychology	4	-	4	4	30	-	30
UNIT I & UNIT II	PSY 115	Experiments/ Practicum	-	4	4	4	-		
UNIT I	PSY 116	Main Introduction to Counselling	4	-	4	4	30	-	30
UNIT II	PSY 117	Project Work	4	-	4	4	-	-	-
UNIT I & UNIT II	PSY 118	Experiment/Practicum	-	4	4	4	-		
(A) Total of Semester – V			16	8	24	24	90	-	90
<b>SEMESTER – VI</b>									
UNIT	Course Code	Name of the Paper	Scheme of Teaching (Periods/Week)				Scheme of Evaluation (Marks)		
			L	P	Total Periods	Total Credits	Theory	Pract/ Viva-Voce	Total Marks
UNIT I	PSY 119	Subsidiary Psychopathology	4	-	4	4	30	-	30
UNIT II	PSY 120	Organizational Behaviour	4	-	4	4	30	-	30
UNIT I & UNIT II	PSY 115 & PSY 121	Testing/ Practicum	-	4	4	4	-	80	80
UNIT I	PSY 122	Main Counselling in Action	4	-	4	4	30	-	30
UNIT II	PSY 123	Project Work	4	-	4	4	60	-	60
UNIT I & UNIT II	PSY 118 & PSY 124	Testing/ Practicum	-	4	4	4	-	80	80
(B) Total of Semester – VI			16	8	24	24	150	160	310



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**B. A. THIRD YEAR**

**HOME SCIENCE**

*Dr. N. S. Sultana M.B.  
Chairman, BOS in  
Home Science*

**(EFFECTIVE FROM - 2015 ONWARDS)**

  
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Aurangabad**



**DR . BABASAHEB AMBEDKAR MARATHWADA  
UNIVERSITY AURANGABAD**

Home Science Curriculum Structure and scheme of evaluation  
for B.A V & VI Semester with effective from 2015-2016.

Paper Numbers	Name of the Paper	Scheme of teaching (periods/weak)				Scheme of evolution		
		Theory	Practical	Total Period	Total Credits	Theory	Practical	Marks
IX	Marriage & Family Dynamics	4	-	4	4	30		30
X	Housing & Interior Decoration	4	-	4	4	30		30
Practical	Housing & Interior Decoration	-	4	4	4	-		-
XI	Nutritional Management in health & disease	4		4	4	30		30
Practical	Nutritional Management in health & disease-	4	4	4	-			-
XII	Project Work	4	-	4	4	-		-
	<b>Total of V Semester</b>	<b>16</b>	<b>8</b>	<b>24</b>	<b>24</b>	<b>90</b>		<b>90</b>



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**HOME SCIENCE, SEMESTER VI**

Paper Number	Name Of the Paper	Schemes of teaching				Scheme of evolution		
		Theory	Practical	Total Periods	Total Credits	Theory	Practical viva-ice	Total
<b>XIII</b>	Human Development (Adulthood & Old age)	4	-	4	4	30		30
<b>XIV</b>	Fundamentals of art and design	4		4	4	30		30
<b>Practical</b>	Fundamentals of art and design	-	4	4	4	-	80	80
<b>XV</b>	Communication Process in Home science	4	-	4	4	30	-	30
<b>Practical</b>	Communication Process in Home science	-	4	4	4	-	80	80
	<b>Project Work</b>	4	-	4	4	-	60	60
	<b>Total of semester VI</b>	<b>16</b>	<b>8</b>	<b>24</b>	<b>24</b>	<b>150</b>	<b>160</b>	<b>310</b>



  
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36	LC-XII	Enzymology and Immunology	3	100
<b>B. Sc. Third Year, Semester V</b>				
37	XXV-REG	Regulation of gene expression	3	50
38	XXVI-ITB	Introduction to Bioinformatics	3	50
39	XXVII-PGE	Principles of Genetic Engineering	3	50
40	XXVIII-FDP	Fermentation Design and Process	3	50
41	XXIX-PTC	Plant Tissue Culture	3	50
42	XXX-CBC	Clinical Biochemistry	3	50
43	LC-XIII	Gene Expression and Basic Bioinformatics	3	100
44	LC-XIV	Genetic Engineering and Fermentation	3	100
45	LC-XV	Plant tissue culture and clinical Biochemistry	3	100
<b>B. Sc. Third Year, Semester VI</b>				
45	XXXII-GNP	Genomics and Proteomics	3	50
46	XXXIII-RDT	Recombinant DNA technology	3	50
47	XXXIV-FTC	Fermentation Technology	3	50
48	XXXV -BET	BioEthics	3	50
49	XXXVI-	Metabolism of Macromolecules	3	50
50	XXXVII-	Ecology and Evolution	3	50
51	LC-XVI	RDT & Fermentation Technology	3	100
52	LC-XVII	Metabolism, Ecology and Evolution	3	100
53	LC-XVIII	Dissertation in Lieu of Genomics-Proteomics and Bioethics	3	100



  
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**B.Sc. V Semester**

**Course Code - ZOL- 503**

**PAPER: XVII**

**ECOLOGY (PRACTICAL)**

- 
- |  |    |
|--|----|
| 1. Estimation of productivity of pond ecosystem using white and dark bottle method.  | 02 |
| 2. Determine the following parameters of soil.   | 04 |
| > pH   |    |
| > Alkalinity   |    |
| > Chlorinity   |    |
| > Salinity   |    |
| 3. Analysis of DO, CO <sub>2</sub> , Salinity, Chlorinity of water sample.   | 04 |
| 4. Study of animal association ship with example (Charts/photo) -Competition, mutualism, parasitism, predation and commensalisms.      | 01 |
| 5. Estimation of population density by Quadrate method on field and by Simulation method.  | 04 |
| 6. Preparation of permanent slides of following<br><i>Spirogyra, Verticella, Odogonium, Daphnia, Cyclops, Mysis, Cypris, keretella</i> |    |
| 7. Project report: - Forest or fresh water ecosystem.  |    |

**Total practical periods: - 15**



  
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**Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.**  
**B. Sc. III<sup>rd</sup> year Physics Syllabus**  
**(Semester-V and VI)**  
**Revised syllabus from June 2015**

Semester	Course Code	Paper	Title of Paper	Periods	Marks
V	301	XV	Classical & Quantum Mechanics	45	50
V	302	XVI	Electrodynamics	45	50
V	303	XVII	Practical	45	50
V	304	XVIII	Practical	45	50
VI	305	XIX	Atomic, Molecular Physics & Laser	45	50
VI	306	XX	Non-conventional energy sources and Optical fiber	45	50
VI	307	XXI	Practical	45	50
VI	308	XXII	Practical	45	50

**Scheme of practical examination and marks**

Practical examination will be conducted annually

**Practical** : paper XVII+XVIII based on theory paper XV & XVI (50+50= 100 Marks)

**Practical** : paper XXI + XXII based on theory paper XIX & XX (50+50= 100 Marks)

**Experiment** : Paper XVII+XVIII – Experiment 75 marks + Viva-Voce 15 Marks + Record Book/Journals 10 Marks + = 100 Marks

**Experiment** : Paper XXI + XXII - Experiment 70 marks + Viva-Voce 10 Marks + Record Book/Journals 10 Marks + Submission of **project report 10 Marks** = 100 Marks



**Dr. Babasaheb Ambedkar Marathwada University, Aurangabad**

**B. Sc. Fifth Semester**

**Subject: ELECTRONICS**

**Course: ELE-504A**

**Paper XVIII (A) (Practicals)**

**(Effective from June 2015)**

**Practicals Based on Paper XVI (A)**

Every candidate appearing for examination must produce journal showing that he/she has completed *Four* (04) experiments during the semester. The journal must be certified at the end of the semester by The Head of the Department.

**(A) Experiments**

**(Marks 30)**

1. Write a program to blink LED with 0.5 Hz frequency and implement it using Atmel 89C51.
2. Write a program for 8 – bit up counter and implement it using Atmel 89C51.
3. Write a program for 8 – bit binary down counter and implement it using Atmel 89C51.
4. Write a program to interface a switch and 8 LEDs for binary up counter when switch is closed and pause the counter when switch is open, implement it using Atmel 89C51.
5. Write a program to generate square waveforms using Atmel 89C51 and implement it.
6. Write a program for pulse generation using Atmel 89C51 and implement it.
7. Write a program for pulse width measurement using Atmel 89C51 and implement it.

**(B) Project**

**(Marks 20)**

Every student should construct one *Suitable* project. He/she should submit the project and project report thereon at the time of practical examination. The project report must be certified at the end of the semester by The Head of the Department.



  
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**Dr. Babasaheb Ambedkar Marathwada University, Aurangabad**

**B. Sc. Fifth Semester  
Subject: ELECTRONICS**

**Course: ELE-504 B**

**Paper XVIII (B) (Practicals)**

**(Effective from June 2015)**

**Practicals Based on Paper XVI (B)**

Every candidate appearing for examination must produce journal showing that he/she has completed *Four* (04) experiments during the semester. The journal must be certified at the end of the semester by The Head of the Department.

**(A) Experiments**

**(Marks 30)**


1. Write an assembly language program (ALP) to interface 8 LEDs and 8 switches to display status of switch using 8255 and implement it.
2. Write an assembly language program (ALP) to interface Hex keyboard and seven segment display to display key pressed on SSD using 8255 and implement it.
3. Write an assembly language program (ALP) to generate square waveforms of frequency 500 Hz using DAC 0800 with 8255 and 8085 microprocessor, implement it.
4. Write an assembly language program for 8 – Bit binary up counter and implement it using 8255.
5. Write an assembly language program for 8 – Bit binary down counter and implement it using 8255.

**(B) Project**

**(Marks 20)**

Every student should construct one *Suitable* project. He/she should submit the project and project report thereon at the time of practical examination. The project report must be certified at the end of the semester by The Head of the Department.



  
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**Dr. Babasaheb Ambedkar Marathwada University, Aurangabad**

**B. Sc. Sixth Semester**

**Subject : ELECTRONICS**

**Course: ELE-603 A**

**Paper – XXI (A)**

(Effective from June 2015)

**Practicals Based on Paper XIX (A)**

Every candidate appearing for examination must produce journal showing that he/she has completed *Four* (04) experiments during the semester. The journal must be certified at the end of the semester by The Head of the Department.

**VII – A: Experiments**

**(Marks 30)**


1. Study of Water Level Controller, Using PLC Simulator.
2. Study of Traffic Light Control, Using PLC Simulator.
3. Study of Horizontal Motion of Conveyor Belt using Limit Switches, Using PLC Simulator.
4. Study of Lift Control, Using PLC Simulator.
5. Study of Bottling Plant with Counter, Using PLC Simulator.

**VII – B: Project**

**(Marks 20)**

Every student should construct one *Suitable* project. He/she should submit the project and project report thereon at the time of practical examination. The project report must be certified at the end of the semester by The Head of the Department.



  
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**Dr. Babasaheb Ambedkar Marathwada University, Aurangabad**

**B. Sc. Sixth Semester**

**Subject: ELECTRONICS**

**Course: ELE-603 B**

**Paper – XXI (B)**

**(Effective from June 2015)**

**Practicals Based on Paper XIX (B)**

Every candidate appearing for examination must produce journal showing that he/she has completed *Four* (04) experiments during the semester. The journal must be certified at the end of the semester by The Head of the Department.

**A: Experiments**

**(Marks 30)**

1. Study of IC AD590 as Temperature sensor.
2. Study of PT100 as Temperature sensor.
3. Study of Thermister as Temperature sensor.
4. Study of photo transistor & photo diode as light sensor
5. Study of photo voltaic cell & LDR as light sensor
6. Study of temperature sensing transducer.
7. Study of strain gauge transducer.

**B: Project**

**(Marks 20)**

Every student should construct one *Suitable* project. He/she should submit the project and project report thereon at the time of practical examination. The project report must be certified at the end of the semester by The Head of the Department.



  
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**ELE : 221 : Lab course 2 (based on ELE-211 and ELE-212 )**

**Marks: 50** ( Practical: 40 Marks and Mini Project: 10 Marks)

**Credits: 1.5**

Every candidate appearing for the examination must produce a journal showing that he/she has completed 04 experiments during the academic year. The journal must be certified at the end of the year by the Head of the Department.

1. Built and study CE amplifier, plot the frequency response curve and find 3 dB bandwidth
2. Built and study common source FET amplifier, plot the frequency response curve and find 3 dB bandwidth
3. Built and study current series feedback amplifier, plot frequency response curve with and without feedback
4. Built and study two stage RC coupled CE amplifier, plot the frequency response curve and find 3 dB bandwidth
5. Built and study JK, T and D- Flip-Flops using IC 7476
6. Built and study 4-bit binary parallel adder / subtractor using IC 7483
7. Built and study MOD 16 Asynchronous binary UP counter
8. Built and study binary decade counter IC 7490
9. Built and study D/A converter using R-2R ladder network

The students should work on a **mini-project and** submit it at the time of examination along with the project report.



  
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Student should prepare and present a seminar on any latest topic should be related to Computer Science.

**Paper No.: CSO22**

**Comp. Sci. (Gen.) Semester : VI**

**Paper title: Major Project**

Students group (maximum 3 students) should design and develop a project.

S\*/-170516/-





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कार्यालय : संचालक, परीक्षा व मूल्यामापन मंडळ

संदर्भ : परीक्षा/समन्वय/२०२१/१३५९

दिनांक : १७.०८.२०२१

### अत्यंत महत्वाचे

प्रति,  
प्राचार्य/संचालक,  
सर्व संलग्नित महाविद्यालय/परिसंस्था,  
डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ,  
औरंगाबाद.

विषय : पदवी द्वितीय वर्षासाठी पर्यावरण (अनिवार्य) विषयाची परीक्षा दिनांक २९.०८.२०२१ रोजी ऑनलाईन पद्धतीने देणेबाबत.

संदर्भ : या कार्यालयाचे पत्र क्र.परीक्षा/समन्वय/२०१९/१०८०२० दि.१५/१६.०३.२०१९.

महोदय/महोदया,

उपरोक्त विषयी सर्व संबंधितांना कळविण्यात येते की, विद्यापीठाच्या विद्यापरिषद व परीक्षा व मंडळाच्या निर्णयानुसार **Compulsory Six Month Course in Environmental Studies** च्या विषयाची परीक्षा विद्यापीठातर्फे पदवीच्या द्वितीय वर्षाच्या चौथे सत्रासाठी घेण्याचे ठरलेले आहे.

त्यानुसार शैक्षणिक वर्ष २०२०-२१ मधील मार्च/एप्रिल २०२१ च्या जुलै/ऑगस्ट -२०२१ मध्ये होणाऱ्या सर्व पदवी द्वितीय वर्ष चौथे सत्राच्या विद्यार्थ्यांसाठी **Compulsory Six Month Course in Environmental Studies** च्या विषयाची परीक्षा रविवार, दिनांक २९ ऑगस्ट २०२१ रोजी सकाळी १० ते ०१ वाजेपर्यंत या कालावधीत घेण्यात येणार असून परीक्षेसाठी प्रत्यक्षात ६० मिनिटे इतकाच वेळ असणार आहे. सदर अभ्यासक्रमाच्या परीक्षेमधून ज्या विद्यार्थ्यांना सुट मिळणार आहे त्याबाबत या विद्यापीठाने यापुर्वी ठरवून दिलेले नियम व अटी लागू राहतील. (प्रत सोबत जोडली आहे) सदर परीक्षा ही फक्त ऑनलाईन पद्धतीने घेण्यात येणार आहे. याची सर्वांनी नोंद घ्यावी.

करिता, प्राचार्य/संचालक यांनी उपरोक्त विषयाची परीक्षा देण्याबाबत सर्व संबंधित विद्यार्थ्यांना सुचित करावे. ही विनंती.

सदर पत्र विद्यापीठाच्या <http://bamua.digitaluniversity.ac> या संकेतस्थळावर Circular/Notice या सदराखाली प्रसिद्ध करण्यात आले आहे.

Principal

Shivhatrapati College

Aurangabad



संचालक

परीक्षा व मूल्यामापन मंडळ



संदर्भ क्र. परीक्षा/समन्वय/२०१९/१०८०२०

दिनांक १५.०३.२०१९

16

**Compulsory Six Month Course in Environmental Studies**

प्राचार्य/प्राचार्या,  
सर्व संलग्नित महाविद्यालये,  
डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद

विषय : पर्यावरण (अनिवार्य) ची परीक्षा दिनांक २६.०३.२०१९ रोजी घेणेबाबत.  
महोदय/महोदया,

उपरोक्त संदर्भांकित विषयास अनुसरून आपणांस कळविण्यात येते की, विद्यापीठाच्या विद्यापरिषद व परीक्षा मंडळाच्या निर्णयानुसार **Compulsory Six Months Course in Environmental Studies** या विषयाची परीक्षा विद्यापीठातर्फे पदवीच्या द्वितीय वर्ष (चौथे सत्र) घेण्याचे ठरलेले आहे. याबाबत आपणास परीक्षा आयोजनासंबंधी खालील प्रमाणे सूचना करण्यात येत आहे :-

- १) द्वितीय वर्षाच्या **"Environmental Studies"** हा अभ्यासक्रम मार्च/एप्रिल २०१० च्या परीक्षेपासून सर्व पदवी स्तरावरील वर्गासाठी अनिवार्य करण्यात आलेला असून काही अभ्यासक्रम/विद्यार्थी यांना वगळण्यात आलेले आहेत. खालील प्रमाणे आहेत.
  - क) जे विद्यार्थी बी.एफ.ए. किंवा बी.एड. अभ्यासक्रमास प्रवेशित असतील असे.  
तसेच
  - ख) ज्या विद्यार्थ्यांना पदवी अभ्यासक्रमामध्ये **"Environmental Science"** हा ऐच्छिक विषय घेतलेला असेल.  
तसेच
  - ग) बी.एस्सी. बायोटेक पदवी अभ्यासक्रमामध्ये हा विषय घेतलेला असेल असे.
- २) या विषयाची लेखी परीक्षा ७५ गुणांची असून सदरची लेखी परीक्षा विद्यापीठातर्फे घेण्यात येईल.
- ३) **Environment Studies** या विषयाची परीक्षा दिनांक २६.०३.२०१९ रोजी दुपारी २.०० ते ४.०० वाजे पर्यंत विद्यार्थी शिक्षण घेत असलेल्या महाविद्यालयातच (Home Centre) प्राचार्यांच्या नियंत्रण व मार्गदर्शनाखाली घेण्यात येणार आहे.
- ४) सदर परीक्षेसाठी Multiple Choice Question Paper Cum- Answer Sheet च्या आवश्यक प्रती सर्व संबंधित महाविद्यालयांना विद्यापीठामार्फत पुरविण्यात येतील.
- ५) सदरील पेपरच्या प्रश्नपत्रिकेची (Multiple Choice Question Paper) उत्तरे (Answer Key) विद्यापीठाच्या [www.bamu.ac.in/](http://www.bamu.ac.in/) किंवा [bamua.digitaluniversity.ac/compulsory/](http://bamua.digitaluniversity.ac/compulsory/) Environment Studies या वेबसाईटवर दिनांक ०७.०४.२०१९ रोजी उपलब्ध करण्यात येईल व ती पुढील आठ दिवसाकरिता वेबसाईटवर उपलब्ध असेल.



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**Dr. Babasaheb Ambedkar  
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**डॉ. बाबासाहेब आंबेडकर**

**मराठवाडा विद्यापीठ**

औरंगाबाद-४३१ ००४. महाराष्ट्र (भारत)

नॅक समिती तर्फे 'अ' दर्जा प्राप्त

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Director, Board of Examinations & Evaluation

कार्यालय, संचालक, परीक्षा व मूल्यमापन मंडळ

- ६) पर्यावरणशास्त्र परीक्षा उत्तीर्ण होणेसाठी ३५% गुण आवश्यक आहे. (लेखी परीक्षेसाठी २६ गुण आणि फील्ड वर्कसाठी ०९ गुण अनिवार्य आहेत) अंतर्गत व लेखी परीक्षांच्या संपादित गुणाबाबत व इतर माहितीबाबत विद्यापीठाच्या शैक्षणिक विभागाचे परिपत्रक क्र ACAD/NP/COMP.SCI./ENV.SCI. /2008 / 6587-6786 दिनांक २०.०६.२००८ चे अवलोकन करावे.
- ७) संबंधित महाविद्यालयामध्ये उत्तरपत्रिका तपासून झाल्यानंतर अंतर्गत आणि सदर लेखी परीक्षेचे गुण व त्यांची एकूण बेरीज गुणांच्या यादीमध्ये दर्शविण्यात यावी.
- ८) उत्तीर्ण झालेल्या विद्यार्थ्यांच्या संख्येइतक्या प्रमाणपत्राच्या प्रती विद्यापीठाच्या परीक्षा विभागातील भांडार कक्षाकडून प्रत्यक्ष प्राप्त करून घ्याव्यात. महाविद्यालयांनी सदर प्रमाणपत्रामध्ये संबंधित विद्यार्थ्यांचे नांव, एकूण प्राप्त गुण इत्यादी बाबींची नोंद करावी व त्यावर प्राचार्यांच्या स्वाक्षरी (स्वाक्षरीचा शिक्का नव्हे) व महाविद्यालयाच्या शिक्क्यासह अशी प्रमाणपत्रे व मुळ गुणयाद्या परीक्षा विभागातील संबंधित कक्षामध्ये जमा कराव्यात. त्यानंतर परीक्षा नियंत्रकांच्या सही शिक्क्यासह सदरील प्रमाणपत्रे विद्यार्थ्यांना वाटप करण्यासाठी संबंधित महाविद्यालयांना परत करण्यात येतील.
- ९) महाविद्यालयास पुरविण्यात आलेल्या प्रश्नपत्रिका-नि-उत्तरपत्रिका तसेच Field Note Books / Practical Books etc. पुढील आदेशापर्यंत महाविद्यालयामध्ये सुस्थितीत ठेवाव्यात. यथावकाश त्या विद्यापीठातर्फे जमा करण्यात येतील.
- १०) सदर परीक्षेची प्रमाणपत्रे संबंधित महाविद्यालयांनी विद्यार्थ्यांना वितरीत करावयाची असून आवश्यक तितकी कोरी प्रमाणपत्रे विद्यापीठातर्फे पुरविण्यात येतील. सदर प्रमाणपत्रे ही प्राचार्यांच्या सही व महाविद्यालयाच्या शिक्क्यासह संबंधित महाविद्यालयाने तयार करावयाची आहेत.
- ११) विद्यार्थ्यांनी सदरील प्रमाणपत्राची साक्षात्कृत प्रत तृतीय वर्षाच्या अंतिम वर्षाच्या परीक्षेसाठी दाखल करावयाच्या परीक्षा आवेदनपत्रासोबत सादर करावयाची असून विद्यार्थ्यांच्या अंतिम वर्ष परीक्षेचा निकाल त्याखेरीज घोषित करण्यात येणार नाही.

कृपया सदर परिपत्रक सर्व विद्यार्थी व संबंधित शिक्षक व प्रशासकिय कर्मचाऱ्यांच्या निदर्शनास आणावे व वरील निर्णयाची अंमलबजावणी काटेकोरपणे करून विद्यापीठास सहकार्य करावे, ही विनंती.

आपला

संचालक

परीक्षा व मूल्यमापन मंडळ

याची एक प्रत उपकुलसचिव/सहाय्यक कुलसचिव, गोपनीय कक्ष यांचे सह सर्व विभागप्रमुख व कक्ष प्रमुख, परीक्षा विभाग डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद यांना माहिती व योग्य त्या कार्यवाहीस्तव.



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**CORE MODULE SYLLABUS FOR ENVIRONMENTAL STUDIES**  
**FOR UNDER GRADUATE COURSES OF ALL BRANCHES**  
**OF HIGHER EDUCATION**

**Vision**

The importance of environmental science and environmental studies cannot be disputed. The need for sustainable development is a key to the future of mankind. Continuing problems of pollution, loss of forest, solid waste disposal, degradation of environment, issues like economic productivity and national security, Global warming, the depletion of ozone layer and loss of biodiversity have made everyone aware of environmental issues. The United Nations Conference on Environment and Development held in Rio de Janeiro in 1992 and World Summit on Sustainable Development at Johannesburg in 2002 have drawn the attention of people around the globe to the deteriorating condition of our environment. It is clear that no citizen of the earth can afford to be ignorant of environment issues. Environmental management has captured the attention of health care managers. Managing environmental hazards has become very important.

Human beings have been interested in ecology since the beginning of civilization. Even our ancient scriptures have emphasized about practices and values of environmental conservation. It is now even more critical than ever before for mankind as a whole to have a clear understanding of environmental concerns and to follow sustainable development practices.

India is rich in biodiversity which provides various resources for people. It is also basis for biotechnology.

Only about 1.7 million living organisms have been described and named globally. Still many more remain to be identified and described. Attempts are made to





conserve them in ex-situ and in-situ situations. Intellectual property rights (IPRs) have become important in a biodiversity-rich country like India to protect microbes, plants and animals that have useful genetic properties. Destruction of habitats, over-use of energy resource and environmental pollution have been found to be responsible for the loss of a large number of life-forms. It is feared that a large proportion of life on earth may get wiped out in the near future.

In spite of the deteriorating status of the environment, study of environment has so far not received adequate attention in our academic programmes. Recognizing this, the Hon'ble Supreme Court directed the UGC to introduce a basic course on environment at every level in college education. Accordingly, the matter was considered by UGC and it was decided that a six months compulsory core module course in environmental studies may be prepared and compulsorily implemented in all the University/Colleges of India.

The experts committee appointed by the UGC has looked into all the pertinent questions, issues and other relevant matters. This was followed by framing of the core module syllabus for environmental studies for undergraduate courses of all branches of Higher Education. We are deeply conscious that there are bound to be gaps between the ideal and real. Genuine endeavour is required to minimize the gaps by intellectual and material inputs. The success of this course will depend on the initiative and drive of the teachers and the receptive students.

## **SYLLABUS**

### **Unit 1 : Multidisciplinary nature of environmental studies**


Definition, scope and importance

(2 lectures)

Need for public awareness.



II

  
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## **Unit 2 : Natural Resources :**

### **Renewable and non-renewable resources :**

Natural resources and associated problems.

- a) Forest resources : Use and over-exploitation, deforestation, case studies.  
Timber extraction, mining, dams and their effects on forest and tribal people.
  - b) Water resources : Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
  - c) Mineral resources : Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
  - d) Food resources : World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies.
  - e) Energy resources : Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources. Case studies.
  - f) Land resources : Land as a resource, land degradation, man induced landslides, soil erosion and desertification.
- Role of an individual in conservation of natural resources.
  - Equitable use of resources for sustainable lifestyles.

(8 lectures)

## **Unit 3 : Ecosystems**

- Concept of an ecosystem.



III

  
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- Structure and function of an ecosystem.
- Producers, consumers and decomposers.
- Energy flow in the ecosystem.
- Ecological succession.
- Food chains, food webs and ecological pyramids.
- Introduction, types, characteristic features, structure and function of the

following ecosystem :-

- a. Forest ecosystem
- b. Grassland ecosystem
- c. Desert ecosystem
- d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

(6 lectures)

#### **Unit 4 : Biodiversity and its conservation**

- Introduction – Definition : genetic, species and ecosystem diversity.
- Biogeographical classification of India
- Value of biodiversity : consumptive use, productive use, social, ethical, aesthetic and option values
- Biodiversity at global, National and local levels.
- India as a mega-diversity nation

- Hot-spots of biodiversity.
- Threats to biodiversity : habitat loss, poaching of wildlife, man-wildlife conflicts.
- Endangered and endemic species of India
- Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity.

(8 lectures)

## Unit 5 : Environmental Pollution

### Definition

- Cause, effects and control measures of :-
  - a. Air pollution
  - b. Water pollution
  - c. Soil pollution
  - d. Marine pollution
  - e. Noise pollution
  - f. Thermal pollution
  - g. Nuclear hazards
- Solid waste Management : Causes, effects and control measures of urban and industrial wastes.
- Role of an individual in prevention of pollution.
- Pollution case studies.
- Disaster management : floods, earthquake, cyclone and landslides.

(8 lectures)



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## Unit 6 : Social Issues and the Environment

- From Unsustainable to Sustainable development
- Urban problems related to energy
- Water conservation, rain water harvesting, watershed management
- Resettlement and rehabilitation of people; its problems and concerns. Case Studies
- Environmental ethics : Issues and possible solutions.
- Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies.
- Wasteland reclamation.
- Consumerism and waste products.
- Environment Protection Act.
- Air (Prevention and Control of Pollution) Act.
- Water (Prevention and control of Pollution) Act
- Wildlife Protection Act
- Forest Conservation Act
- Issues involved in enforcement of environmental legislation.
- Public awareness.

(7 lectures)

## Unit 7 : Human Population and the Environment

- Population growth, variation among nations.
- Population explosion – Family Welfare Programme.



- Environment and human health.
- Human Rights.
- Value Education.
- HIV/AIDS.
- Women and Child Welfare.
- Role of Information Technology in Environment and human health.
- Case Studies.

(6 lectures)

#### **Unit 8 : Field work**

- Visit to a local area to document environmental assets- river/forest/grassland/hill/mountain
- Visit to a local polluted site-Urban/Rural/Industrial/Agricultural
- Study of common plants, insects, birds.
- Study of simple ecosystems-pond, river, hill slopes, etc. (Field work Equal to 5 lecture hours)

**SIX MONTHS COMPULSORY CORE MODULE COURSE IN**  
**ENVIRONMENTAL STUDIES : FOR UNDERGRADUATES**

**Teaching Methodologies**

The core Module Syllabus for Environment Studies includes class room teaching and Field Work. The syllabus is divided into eight units covering 50 lectures. The first seven units will cover 45 lectures which are class room based to enhance knowledge skills and attitude to environment. Unit eight is based on field activities which will be covered in five lecture hours and would provide student first hand knowledge on various local environmental aspects. Field experience is one of the most effective learning tools for environmental concerns. This moves out of the scope of the text book mode of teaching into the realm of real learning in the field, where the teacher merely acts as a catalyst to interpret what the student observes or discovers in his/her own environment. Field studies are as essential as class work and form an irreplaceable synergistic tool in the entire learning process.

Course material provided by UGC for class room teaching and field activities be utilized.

The universities/colleges can also draw upon expertise of outside resource persons for teaching purpose.

Environmental Core Module shall be integrated into the teaching programmes of all undergraduate courses.

**Annual System :** The duration of the course will be 50 lectures. The exam will be conducted along with the Annual Examination.





**Semester System :** The Environment course of 50 lectures will be conducted in the second semester and the examination shall be conducted at the end of the second semester.

**Credit System :** The course will be awarded 4 credits.

**Exam Pattern :** In case of awarding the marks, the question paper should carry 100 marks. The structure of the question paper being :

Part-A, Short answer pattern	-	25 marks
Part-B, Essay type with inbuilt choice	-	50 marks
Part-C, Field Work	-	25 marks



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**DR. BABASAHEB AMBEDKAR  
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AURANGABAD.**



Curriculum of  
BACHELOR OF BUSINESS ADMINISTRATION  
(BBA)  
IIIIRD YEAR  
SIX SEMESTER  
under Choice Based Credit & Grading System

*[ Effective from the Academic Year 2020-21 & onwards ]*

*[Handwritten signatures and initials]*

  
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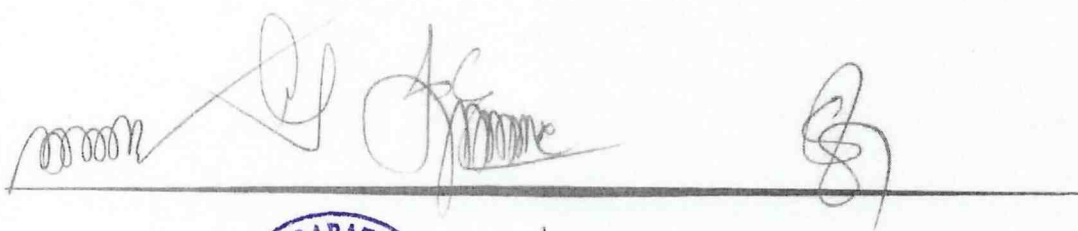
DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

**FACULTY OF COMMERCE & MANAGEMENT**

Syllabus - **Bachelor of Business Administration (BBA)**

Choice Based Credit System (CBCS)

Semester & Credits	Core Course [04]	Ability Enhancement Compulsory Courses [AEC] [01]	Discipline Specific Elective [DSE] [01]
VI Credit 24	1. Auditing 2. Management Perspective – VI 3. Capital Market - II 4. Project	Taxation Law – II	Elective Paper [Any One] 1. Management Support System. 2. Cyber Law - II
<b>Total Credits 24</b>	<b>No. of Credits : 16</b>	<b>No. of Credits : 04</b>	<b>No. of Credits : 04</b>





  
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Curriculum of  
BACHELOR OF COMPUTER APPLICATION  
(BCA)

IIIIRD YEAR

SIX SEMESTER

under Choice Based Credit & Grading System

[ Effective from the Academic Year 2020-21 & onwards ]

*[Handwritten signatures]*

*[Handwritten signature]*  
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FACULTY OF COMMERCE & MANAGEMENT.

Syllabus - Bachelor of Computer Application (BCA)

Choice Based Credit System (CBCS)

Semester & Credits	Core Course [04]	Ability Enhancement Compulsory Courses [AEC] [01]	Discipline Specific Elective [DSE] [01]
VI Credit 24	1. Element of Commercial Portal (HTML 5) 2. Android 9 3. Business Law - III 4. Project	1. Software Testing	Elective Paper [Any One] 1. Services Marketing OR 2. Export Management
Total Credits 24	No. of Credits : 16	No. of Credits : 04	No. of Credits : 04



  
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<b>Semester III</b>								
BTE 3001	Bioprocess Engineering	4	100	4	CC	80	20	
BTE 3002	Gene Expression and Genetic Engineering	4	100	4	CC	80	20	
BTE 3003	Bioinstrumentation <b>And Research Methodology</b>	4	100	4	CC	80	20	
BTE 3004	A. Medical Biotechnology B. Environmental Biotechnology	4	100	4	DSE	100		Every student has to opt either of these two based on expertise available with the department/ college
BTEP IX	Practical Based on Paper <b>BTE 3001&amp; BTE 3002</b>	2	50	4+4	PR	100		
BTEP X	Practical Based on Paper <b>BTE 3003&amp; BTE 3004</b>	2	50	4+4	PR	100		
<b>BTR I</b>	<b>Project work (stage I Title Defense)</b>	4	100	4	OE+ DSE	100		
<b>BTE-SER</b>	SERVICE COURSE Or Intellectual Property Right(MOOC Course) Or Computational Biology or any Online certification course from NPTEL /SWAYM /MOOC of equivalent credits { Preferably with biology basis but not restricted to it)	4	100	4	OE	100		In case service course is opted, assessment will be 80:20. In other options assessment will 100% by the course running agency
<b>Totals</b>		<b>28</b>	<b>700</b>					
<b>Semester IV</b>								
BTP 4001	Industrial Technology	4	100	4	CC	80	20	
BTP 4002	Recombinant DNA Technology	4	100	4	CC	80	20	
BTP 4003	Tissue Technology	4	100	4	CC	80	20	
BTP 4004 A	A. Bioinformatics	4	100	4	DSE	80	20	Every student has to opt either of these two based on expertise available with the department/ college
BTP 4004 B	B Applications of Biotechnology							
BTEP XIII	Practical Based on Paper <b>BTE 4001 &amp; 4002</b>	2	50	4+4	PR	100		
BTEP XIV	Practical Based on Paper <b>BTE 4003 &amp; 4004</b>	2	50	4+4	PR	100		
<b>BTR II</b>	<b>Project work (stage II Dissertation )</b>	8	100	8	OE+ DSE	100		
<b>Totals</b>								

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Head  
Faculty of Science & Technology  
Dr. Babasaheb Ambedkar Marathwada  
University, Sub-Centre Osmanabad

Head  
Department of Biotechnology  
Dr. Babasaheb Ambedkar Marathwada  
University, Sub-Centre Osmanabad



	420A or CHEP- 420B						
II and IV semester Laboratory Course	Laboratory Course-I		4.5	06	NA	50	50
	Laboratory Course-II		4.5	06	NA	50	50
	Laboratory Course-III		4.5	06	NA	50	50
	Laboratory Course-IV Project (Dissertation & Presentation)		4.5	06	NA	50	50

  
 24/11/21  
 Dean -  
 Faculty of Technology  
 Dr. Babu  
 Marathwada  
 University, Aurangabad





  
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DR. BABASHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD

M.Sc. MICROBIOLOGY REVISED SYLLABUS

(CBCS System)

(Effective from June 2021 Phase wise)


REVISED SYLLABUS AT A GLANCE COURSE STRUCTURE

**M.Sc.(MICROBIOLOGY)**

Paper No.	Title of the theory Paper	Marks/Credits	Practical	Marks/Credits
Semester I				
Th-I	Biostatistics Computer Applications and Research Methodology	100/04	P-I	50/02
Th-II	Bioenergetics and Enzymology	100/04	P-II	50/02
Th-III	Bioinstrumentation Techniques and Applications	100/04	P-III	50/02
Th-IV	Industrial Food and Dairy Microbiology	100/04	P-IV	50/02
Semester II				
Th-V	Recent Trends in Virology.	100/04	P-V	50/02
Th-VI	Molecular Immunology.	100/04	P-VI	50/02
Th-VII	Microbial Physiology.	100/04	P-VII	50/02
Th-VIII	Microbial Diversity and Extremophiles	100/04	P-VIII	50/02
Semester III				
Th-IX	Enzyme Technology	100/04	P-IX	50/02
Th-X	Bioprocess Engineering and Technology.	100/04	P-X	50/02
Th-XI	Molecular Microbial Genetics.	100/04	P-XI	50/02
Th-XII	Environmental Microbial Technology	100/04	P-XII	50/02
Semester IV				
Th-XIII	Recombinant DNA Technology	100/04	P-XIII	50/02
Th-XIV	Fermentation Technology	100/04	P-XIV	50/02
Th-XV	Bioinformatics, Microbial Genomics and Proteomics.	100/04	P-XV	50/02
Th-XVI	Pharmaceutical Microbiology	100/04	P-XVI	50/02

\*Semester IV Practical(P-XV and XVI) or a research project of 100 marks.



  
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**Semester IV (Industrial Internship / Field Work Projects/ Research Project)**

Paper Code	Course	Total Theory Credits	Total Practical Credits	Internal	External	Total
CSC416	Dissertation Review 1	-	3	50	-	50
CSC417	Dissertation Review 2	-	3	50	-	50
CSC418	Dissertation Review 3	-	3	50	-	50
CSC419	Final Dissertation	-	5	-	100	100
CSC420	Seminar	-	2	-	50	50
			16			

**Programming Group**

Programming Group	Programming 1 (CSC403)	Programming 2 (CSC409)	Programming 3 (CSC412)
Java Group	Core Java	Advance Java	Android
Microsoft Group	Advanced C++	VB.NET	C# NET
Open Group	Python	Advanced Python	Open Web Programming

**Elective Group**

Elective Group	Elective 1 (CSC421-430)	Elective 2 (CSC431-440)	Elective 3 (CSC441-450)	Elective 4 (CSC451-460)
Pattern Analysis & Machine Intelligence	Image Processing	Artificial Intelligence	Pattern Recognition	Neural Networks & Deep Learning
Data Science	Data Mining	Machine Learning	Data Warehousing	Big Data Analytics
Remote Sensing and Geospatial Technology	Fundamental of Satellite Remote Sensing	GIS	Remote sensing digital image Analysis	Hyperspectral Image Analysis
Sensor Technology	Foundations of Electronics	Digital Signal Processing	Microcontroller Programming	Internet of Things

**Service Course**

Paper Code	Course Title	Total Theory Credits	Total Practical Credits	Internal Marks	External Marks	Total Marks
CSC535	Intellectual Property Rights	3	-	20	80	100
CSC536	Development of Soft Skill and Personality.	3	-	20	80	100
CSC537	R-Tool	3	-	20	80	100
CSC538	Communication Skills	3	-	20	80	100
CSC539	Introduction to MATLAB	3	-	20	80	100



  
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Curriculum of M.COM.IIND YEAR

under Choice Based Credit & Grading System

SEMESTER THIRD & FOURTH

RUN AT COLLEGE LEVEL

[ *Effective from the Academic Year 2019-20 & onwards* ]

  
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✓ **3) SUBJECT: RESEARCH PROJECT**

COURSE CODE:- COM-506

The candidate must undertake the project work based on practical training in a business firm for the period of Six Weeks. The student will be guided by the Teacher (Guide). The student shall submit research project to the Head of Department before theory examination. The project will be evaluated by the external examiner and the internal examiner jointly. The assessment of the project shall be made as follows.

Project contents- 50 marks.

Project Presentation- 30 marks.

Project Via-voce- 20 marks

**SUBJECT : ADVERTISEMENT(ELLECTIVE)**

COURSE CODE: COM-523		No. of Credits : 04	Semester : IV
Subject Title : <b>Advertisement</b>			
Course Objectives : The objective of this course is to expose students to the Advertising Basics and the various Methodologies to Develop, Implement and Measure the Effect of Advertisement.			
Unit	Course Content	Periods	
I	Advertising : Definition, Advertising as a tool of Marketing, Advertising Effects, Economic and Economic Behaviour, Advertising Scene in India, Advertising Objectives, Advertising Budget.	15	
II	Advertising Media : Print Media, Broadcast Media, Non Media Advertising, Planning and	15	



  
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