

S-01 &amp; 02 June, 2016 AC after Circulars from Circular No.100 &amp; onwards

- 13 -

**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY****CIRCULAR NO. SU/Sci./B.Sc. Syllabi/6/2016**

It is hereby inform to all concerned that, on the recommendations of the Committees/Ad-hoc Boards the Hon'ble Vice-Chancellor has accepted the following revised syllabi in his emergency powers under Section-14[7] of the Maharashtra Universities Act, 1994 on behalf of the Academic Council as mentioned against their names under the **Faculty of Science** :-

Sr. No.	B.Sc. III Year Revised Syllabi	Semester
[1]	B.Sc. Automobile Technology [Degree Course],	V & VI
[2]	B.Sc. Workshop Technology [Degree Course],	V & VI
[3]	B.Sc. Refrigeration & Air Conditioning [Degree Course],	V & VI
[4]	B.Sc. Bioinformatics [Degree Course].	V & VI
[5]	B.Sc. Biotechnology [Optional],	V & VI
[6]	B.Sc. Horticulture [Optional],	V & VI
[7]	<b>B.Sc. Dry Land Agriculture [Optional],</b>	<b>V &amp; VI</b>
[8]	B.Sc. Sericulture [Optional],	V & VI

This is effective from the **Academic Year 2016-2017 and onwards as appended herewith.**

These syllabi are also available on the University Website **www.bamu.ac.in**

All concerned are requested to note the contents of this circular and bring the notice to the students, teachers and staff for their information and necessary action.

University Campus,  
Aurangabad-431 004.  
REF.NO.SU/B.Sc./2016/3849-68

Date:- 23-06-2016.

★  
★  
★  
★  
★  
★

\*\*\*\*\*



**Director,**  
**Board of College and**  
**University Development.**

**Copy forwarded with compliments to :-**

- 1] **The Principals, affiliated concerned Colleges,**  
**Dr. Babasaheb Ambedkar Marathwada University.**

**Copy to :-**

- 1] The Controller of Examinations,
- 2] The Section Officer, [B.Sc. Unit],
- 3] The Section Officer, [B.C.S. Unit],
- 4] The Programmer [Computer Unit-1] Examinations,
- 5] The Programmer [Computer Unit-2] Examinations,
- 6] The In-Charge, E-Suvidha Kendra, [Professional Unit], Rajarshi Shahu Maharaj Pariksha Bhavan, Dr. Babasaheb Ambedkar Marathwada University,
- 7] The Record Keeper,  
Dr. Babasaheb Ambedkar Marathwada University.

--\*\*--

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

Revised Syllabus of B.Sc. Third Year

**DRY LAND AGRICULTURE**

**SEMESTER V & VI**

(Effective from June 2016 onwards)



**B.Sc.III Year (Theory)**  
**SEMESTER V**  
**PAPER XV**  
**(CROP MANAGEMENT)**

**Lectures 45**

<b>Unit 1:-</b>		<b>15</b>
	Soil Fertility Managements (Types of fertilizer)	05
	Sustainable agriculture concept potential and possibilities	02
	Risk a version through farming enterprises	02
	Alternative kind use systems	02
	Role of live stock	02
	Alternate rural occupation	01
	Conservation and efficient use of natural resources	01
<b>Unit 2 :-</b>		<b>15</b>
	Standard agronomic options and practices for dry land	02
	Tillage	03
	Timely seeding	02
	Choice of high yielding crop and varieties	02
	Weed management	04
	Land configuration to maximize institute rainwater conservation	01
	Water surplus techniques	01
<b>Unit3 :-</b>		<b>15</b>
	Micro level planning for land use diversification and management	05
	Land capability criteria	03
	Length of growing season	02
	Socio economics consideration	02
	Crop diversification to minimize risk in crop production	03

**B.Sc.III Year (Theory)**  
**SEMESTER V**  
**PAPER XVI**  
**(TRANSFER OF TECHNOLOGY)**

**Lectures 45**

<b>Unit 1:-</b>		<b>15</b>
	Concept of technology transfer	02
	Systems of technology transfer	01
	Frontline demonstration	01
	Farmer training centers	02
	K.V. ks .	01
	Transfer of technology center	02
	Lab to land programmes	02
	Operational research programme	01
	Institute village linkage programe	02
	Distance learning techniques	01
<b>Unit 2:-</b>		<b>15</b>
	Post harvesting and transfer of technology	02
	Operation of harvesting	01
	Methods of harvesting and threshing	02
	Of maize, Jowar, Bajra, Green gram Black gram	
	Pigeon peal and cotton	10
<b>Unit 3:-</b>		<b>15</b>
	Methods of agricultural extension Training demonstration and conduct of group meetings	06
	Study of threshing equipments thresher	05
	Extension programme planning	04

**B.Sc.III Year (Practical )  
SEMESTER V  
PAPER XVII  
(CROP MANAGEMENT)**

**Lectures 45**

- 1 Preparation of plan for cropping systems for dry land regions.
- 2 Identification and methods of control of various diseases of important dry land crops.
- 3 Study of sprinkler irrigation system
- 4 Study and process of land use mapping
- 5 Identification of breeds of cattle sheep and goat.
- 6 Visit to various dry land cropping system.

**B.Sc.III Year (Practical )  
SEMESTER V  
PAPER XVIII  
(Transfer of Technology)**

**Lectures 45**

- 1 Identification of kharif crops and varieties.
- 2 Signs and stages of harvesting of oil seed and pulses
- 3 Methods of sowing important dry land crops
- 4 Methods of thinning and gap filling of dry land crops
- 5 Methods of agricultural extension training demonstration and group meetings.
- 6 Visit to various N.G.O.S. and advance institutes of training.

**B.Sc.III Year (Theory )**  
**SEMESTER V**  
**PAPER XIX**  
**(CROP MANAGEMENT)**

		<b>Lectures</b>	<b>45</b>
<b>Unit 1 :-</b>			<b>15</b>
	Agro-eco concept	03	
	Agro Ecological/climatic regions of India	02	
	Green Mann ring	02	
	Types of Green Mannuring	02	
	Advantages and disadvantages of green mannuring	02	
	Characters tics of good green mannuring crops	02	
	Green mannuring crops commonly grown in India	02	
<b>Unit 2 :-</b>			<b>15</b>
	Drought management	02	
	Agronomic practices	03	
	Crop Choices	01	
	Introduction of drought tolerant crop varieties and cropping systems	02	
	Cultivation methods of high value medicinal plants	03	
	Hi-tech drip irrigation and micro sprinkler systems	04	
<b>Unit :-</b>			<b>15</b>
	Region wise crop and cropping systems	05	
	Land use planning with biophysical & Socio economic Criteria	05	
	Integrated pest and disease management (IPM)	05	

**B.Sc.III Year (Theory )**  
**SEMESTER VI**  
**PAPER XX**  
**(Transfer of Technology)**

		<b>Lectures</b>	<b>45</b>
<b>Unit 1 :-</b>			<b>15</b>
	Rural Development	03	
	Acquaintance with rural industries like gur Making, Dal making and other allied industries	04	
	Transfer of Technology about cultivation Methods of Maize, Bajra, sorghum and wheat	08	
 <b>Unit 2 :-</b>			 <b>15</b>
	Conventional extension systems of transfer of Technology		
	Village level extension worker	02	
	Input support system	02	
	Subsidies	01	
	Credit support Institutions	02	
	Rapid rural appraisals	02	
	Community based technology transfer	02	
	Women in Agriculture	02	
	Role of N.G.O's in transfer of Technology	02	
 <b>Unit 3 :-</b>			 <b>15</b>
	Human resource development through Training and visit	04	
	Participatory learning process	04	
	Publications	03	
	Electronic Media T.V. and Radio	03	
	Use of Cultural (Song and Drama) methods	01	



**B.Sc.III Year (Practical )  
SEMESTER VI  
PAPER XXI  
(CROP MANAGEMENT)**

**Lectures 45**

- 1 Study of high yielding crop and varieties
- 2 Survey of alternate occupation in dry land region
- 3 Identification of methods of control of various insect pest control of dry land crops
- 4 Study of Drip irrigation system
- 5 Study of drought tolerant crop varieties and cropping system
- 6 study of tillage implements
- 7 Study of process of gur making.

**B.Sc.III Year (Practical )  
SEMESTER VI  
PAPER XXII  
(Transfer of Technology)**

**Lectures 45**

- 1 Various methods of weeding
- 2 Identification and study of various rabbi crops in dry land
- 3 Signs and stages of harvesting of important dry land crops
- 4 Various methods of plant protection
- 5 Various methods of fertilizer application
- 6 Study of harvesting and threshing equipments
- 7 Visit to K.V.Ks.
- 8 Study of plant protection implements

**-==\*\*=-**

**S\*/-290616/**