

S-29 Nov., 2013 AC after Circulars from Circular No.55 & onwards

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डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद**परिपत्रक क्रमांक/एस.यू./विज्ञान/अभ्यासक्रम/७३/२०१४**

या परिपत्रकाद्वारे सर्व संबंधितांना सुचित करण्यात येते की, विज्ञान विद्याशाखेने शिफारस केल्यानुसार बी. एस्सी. / एम. एस्सी. प्रथम व द्वितीय वर्षाच्या सुधारित अभ्यासक्रमास आणि बी. एस्सी. प्रथम वर्षाच्या अभ्यासक्रमात किरकोळ बदल करण्यास विद्यापरिषदेच्या वतीने मा. कुलगुरु यांनी, त्यांना प्राप्त असलेल्या विशेष अधिकार महाराष्ट्र विद्यापीठ अधिनियम-१९९४ कलम १४(७) अन्वये मान्यता दिलेली आहे. त्या अनुषंगाने सुधारीत तयार केलेल्या अभ्यासक्रमाची प्रत या परिपत्रकासोबत आपल्या पुढील कार्यवाहीसाठी पाठविण्यात येत आहे.

[1]	B.Sc. Physics	Semester-III & IV,
[2]	B.Sc. Chemistry	Semester-III & IV,
[3]	B.Sc. Botany	Semester-III & IV,
[4]	B.Sc. Zoology with minor changes	Semester-I & II,
[5]	B.Sc. Zoology	Semester-III & IV,
[6]	B.Sc. Fisheries	Semester-III & IV,
[7]	B.Sc. Electronics (Opt.)	Semester-III & IV,
[8]	B.A./B.Sc. Mathematics	Semester-III & IV,
[9]	B.Sc. Computer Science	Semester-I & II,
[10]	B.Sc. Information Technology	Semester-I & II,
[11]	B.C.A.	Semester-I & II,
[12]	B.Sc. Computer Science(Opt.)	Semester-I & II,
[13]	B.Sc. Information Technology(Opt.)	Semester-I & II,
[14]	B.Sc. Computer Application(Opt.)	Semester-I & II,
[15]	B.Sc. Computer Maintenance(Opt.)	Semester-I & II,
[16]	B.Sc. Biotechnology (Progressively)	Semester-I to VI,
[17]	B.Sc. Biotechnology (Opt.) (Progressively)	Semester-I to IV,
[18]	B.Sc. Sericulture Technology	Semester-I & II,
[19]	B.Sc. Networking Multimedia	Semester-III & IV,
[20]	B.Sc. Bioinformatics	Semester-I & II,
[21]	B.Sc. Hardware & Networking	Semester-I & II,
[22]	B.Sc. Animation	Semester-I & II,
[23]	B.Sc. Dairy Science & Technology	Semester-III & IV,
[24]	B.Sc. Biochemistry	Semester-III & IV,
[25]	B.Sc. Analytical Chemistry	Semester-III & IV,
[26]	B.Sc. Textile & Int. Decoration with minor changes	Semester-I & II,
[27]	B.Sc. Textile & Int. Decoration	Semester-III & IV,
[28]	B.Sc. Home Science with minor changes	Semester-I & II,
[29]	B.Sc. Home Science	Semester-III & IV,
[30]	B.Sc. Agro.Chem. & Fertilizers	Semester-III & IV,

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[31]	B.Sc. Geology	Semester-III & IV,
[32]	B.A. Statistics with minor changes	Semester-I & II,
[33]	B.A. Statistics	Semester-III & IV,
[34]	B.Sc. Statistics with minor changes	Semester-I & II,
[35]	B.Sc. Statistics	Semester-III & IV,
[36]	B.Sc. Industrial Chemistry	Semester-III & IV,
[37]	B.Sc. Horticultural	Semester-I & II,
[38]	B.Sc. Dry land Agriculture	Semester-I & II,
[39]	B.Sc. Microbiology	Semester-III & IV,
[40]	M.Sc. Computer Science	Semester-I to IV,
[41]	M.Sc. Information Technology	Semester-I to IV.

हा सुधारीत व नवीन तयार केलेल्या अभ्यासक्रमाचा आराखडा शैक्षणिक वर्ष २०१४-१५ करिता मर्यादित असेल व विद्यापरिषदेच्या अंतिम मान्यतेनंतर हे परिपत्रक नियमित ठेवण्याबाबत या कार्यालयाद्वारे नवीन परिपत्रक पारीत करण्यात येईल. तसेच सुधारीत व नवीन तयार केलेल्या अभ्यासक्रमाची प्रत विद्यापीठाच्या संकेतस्थळावर उपलब्ध आहे.

करिता, या परिपत्रकाची सर्व संबंधितांनी नोंद घ्यावी.

विद्यापीठ प्रांगण,
औरंगाबाद-४३१ ००४.
संदर्भ क्र.एस.यु./सा.शा./सबवि /२०१३-१४/
६५९९-७०२
दिनांक :- २७-०५-२०१४.

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संचालक,
महाविद्यालये व विद्यापीठ
विकास मंडळ.

या परिपत्रकाची एक प्रत :-

- १) मा. परिक्षा नियंत्रक, परिक्षा विभाग,
- २) मा. प्राचार्य, सर्व संलग्नीत महाविद्यालये,
- ३) संचालक, युनिक यांना विनंती करण्यात येते की, सदरील अभ्यासक्रम विद्यापीठाच्या संकेतस्थळावर उपलब्ध करुण देण्यात यावेत.
- ४) संचालक, ई-सुविधा केंद्र, विद्यापीठ परिसर,
- ५) जनसंपर्क अधिकारी, मुख्य प्रशासकीय इमारत,
- ६) कक्ष अधिकारी, पात्रता विभाग, मुख्य प्रशासकीय इमारत,
- ७) कक्ष अधिकारी, बी.ए. / बी.एस्सी./ बी.सी.एस./एम.एस्सी. विभाग, परीक्षा भवन,
- ८) अभिलेख विभाग, मुख्य प्रशासकीय इमारती मागे,

डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद.

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



Revised Syllabus of

B.SC. 1ST YEAR

SEMESTER-1ST & IIND

DRYLAND AGRICULTURE (Optional)

[Effective from 2014-15 & onwards]

[Handwritten signature]

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD
B.SC. DRYLAND AGRICULTURE COURSE STRUCTURE IN SEMESTER PATTERN
B.SC I YEAR

SEMESTER	PAPER NO.	TITLE OF PAPER	LECTURES	MARKS
I	I	DRYLAND AGRICULTURE TECHNOLOGY	45	50
	II	CLIMATES & VEGETATION RESOURCES	45	50
	III	PRACTICAL BASED ON PAPER NO, I & II	45	50
II	IV	DRYLAND AGRICULTURE TECHNOLOGY	45	50
	V	CLIMATES & VEGETATION RESOURCES	45	50
	VI	PRACTICAL BASED ON PAPER NO, IV & V	45	50

B.Sc.I Year (Theory)
Semester-I
Paper I
(Dryland Agriculture Technology)

Lectures-45

Unit I-Dryland Agriculture

Its meaning ,definition,importance,concepts & problems (07)

Unit II-History of rainfed Agriculture

Research and development , objectives, achievements and
Failures (08)

Unit III-Dryland Agriculture in India

Its contribution to national economy , employment , export
Potential, linkage with animal wealth and environment (15)

Unit IV-Agroclimatic zones of Maharashtra states

Soil and climatic characteristics of rainfed area , rainfall , its
Distribution and characteristics , effectiveness of rainfall in
Dryland (08)

Unit V-Natural resources in rainfed agriculture

Land ,climate, vegetation, animals (07)

B.Sc.I Year (Theory)
Semester-I
Paper II
(CLIMATES & VEGETATION RESOURCES)

Lectures -45

Unit –I Basic climate parameters

Diurnal and seasonal distribution (05)

Metrological instruments:- their operation (06)

Unit-II General circulation of atmosphere

Mansoon circulation and its importance in Indian agriculture (04)

Climatic classification:- agroclimatic characterization, length of growing seasons, its influence on crop choices (08)

Unit-III Climate and crop production

Weather factors affecting plant growth (07)

Unit-IV Weather and incidence of pests and diseases,

Crop weather calender (07)

Unit- V Weather forecasting in agriculture

Agro advisories (08)

B.Sc.I Year (Practical)
Semester-I
Paper III
(Dryland Agriculture Technology)
(CLIMATES & VEGETATION RESOURCES)

Lectures-45

- 01 Identification and description of plant species in their sub-region
- 02 Identification of vegetation species-crop,trees,grasses and shrubs
- 03 Agro-climatic zone of Maharashtra
- 04 Collection and analysis of rainfall data
- 05 Crop planning in rainfall area
- 06 Agrometrological observatory types, selection of site and layout
- 07 Study of metrological equipments and their function
- 08 Measuremnts of air temperature-maximum,minimum thermameters
- 09 Measurement of humidity
- 10 Wind measurement-wind speed velocity
- 11 Measurement of rainfall by FRP rain guage,self recording rain gauge

B.Sc.I Year (Theory)
Semester-II
Paper IV
(Dryland Agriculture Technology)

Lectures-45

Unit I-Package of practices of crops under dryland conditions

Choice of crops and varieties ,plants populations , crop planning according to land use capability classes ,identification of critical growth stages of different crops , time and method of fertilizer application , weed control (15)

Unit II-Various system of dryland agriculture

Monocropping,double cropping,crop rotation,mixed cropping,mix farming,crop mixtures
Intercropping,zooming (shifting cultivation) contingency planning under aberrant weather
Condition ,diversification (10)

Unit III-Alternative land uses

Silvipastrol , agrihorticulture,hortipastrol , silvariculture,leyfarming (05)

Unit IV-Techniques for rehabilitation of degraded lands

Microsite improvements , tenching,block plantation ,setrow cultivation
Appropriate species (07)

Unit V-Edible oil seeds

Mustard , groundnut, sunflower,safflowers (08)

B.Sc.I Year (Theory)

Semester-II

Paper V

(CLIMATES & VEGETATION RESOURCES)

Lectures -45

UNIT I –Agricultural seasons & their significance on crop production

Importance crops of its seasons –specific to region

Weather abnormalities and weather hazards , their effects

And methods of overcoming .

(07)

Unit II-Droughts

Types ,intensity,delineation of drought prone areas , influence on crop

Production ,human live stock and on national economy .

Drought management strategies

(08)

Unit III-Afforestation programmes ,deforestation -

Problems and strategies to check it

(08)

Regional distribution of resources(biodiversity) relation to soil and

Climatic condition

(07)

Unit IV-Role of vegetation in natural resources conservation

(08)

Unit V-Ecological distribution of weeds and their management

(07)

B.Sc.I Year (Practical)

Semester-II

Paper-VI

(Dryland Agriculture Technology)

(CLIMATE & VEGETATION RESOURCES)

- 01 Identification of critical growth stage of different crops
- 02 Methods of application of fertilizers
- 03 Method of weed control
- 04 Planning of various cropping system
- 05 Study of alternative land uses
- 06 Visit to rainfed areas
- 07 Measurement of evaporation by open pan evaporimeter
- 08 Measurement of bright sun shine hours
- 09 Measurement of soil temperature
- 10 Measurement of dew
- 11 Measurement of atmospheric pressure
- 12 Recording ,Tabulation & analysis of meteorological data
- 13 Visit to IMD regional weather stations & rainfed areas
