



**Dr. Babasaheb Ambedkar Marathwada University,  
Aurangabad – 431004, Maharashtra.**

**Annual Quality Assurance Report (AQAR) of the IQAC**  
***Academic Year: 2017-18***  
***(July 1, 2017 to June 30, 2018)***

**Professor M. D. Shirsat**  
**Director**  
**Internal Quality Assurance Cell**

# The Annual Quality Assurance Report (AQAR) of the IQAC

## Part – A

### 1. Details of the Institution

#### 1.1 Name of the Institution

Dr. Babasaheb Ambedkar Marathwada University

#### 1.2 Address Line 1

Dr. Babasaheb Ambedkar Marathwada University Campus,

#### Address Line 2

Near Soneri Mahal

#### City/Town

Aurangabad

#### State

Maharashtra

#### Pin Code

431004

#### Institution e-mail address

[vc@bamu.ac.in](mailto:vc@bamu.ac.in)  
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[director.iqac@bamu.ac.in](mailto:director.iqac@bamu.ac.in)

#### Contact Nos.

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#### Name of the Head of the Institution:

Professor B. A. Chopade

#### Tel. No. with STD Code:

Office : 0240-2403112  
Resi: 0240-2400007

#### Mobile:

09049483914

#### Name of the IQAC Director:

Professor M. D. Shirsat

**Mobile:**

09422291987

**IQAC e-mail address:**

director.iqac@bamu.ac.in

**1.3 NAAC Track ID**

MHUNGN10063

**1.4 NAAC Executive Committee No. & Date:**

EC/65/RAR/04 dated 25-10-2013

**1.5 Website address:**

www.bamu.ac.in

**Web-link of the AQAR:**

<http://bamu.ac.in/iqac/AQAR.aspx>

**1.6 Accreditation Details**

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	B+	75.05 Score	2002	5 year
2	2 <sup>nd</sup> Cycle	A	3.07	2013	5 year
3	3 <sup>rd</sup> Cycle				
4	4 <sup>th</sup> Cycle				

**1.7 Date of Establishment of IQAC:**

**DD/MM/YYYY**

24-03-2003

**1.8 AQAR for the year**

2017-18

**1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC**

- i. AQAR\_2011-12 Submitted to NAAC on 16-06-2012
- ii. AQAR\_2012-13 Submitted to NAAC on 26-09-2013
- iii. AQAR\_2013-14 Submitted to NAAC on 09-03-2015
- iv. AQAR\_2014-15 Submitted to NAAC on 23-03-2016
- v. AQAR\_2015-16 Submitted to NAAC on 15-05-2017
- vi. AQAR\_2016-17 Submitted to NAAC on 10-01-2018

### 1.10 Institutional Status

University State ☒ Central ☐ Deemed ☐ Private ☐

Affiliated College Yes ☐ No ☒

Constituent College Yes ☐ No ☒

Autonomous college of UGC Yes ☐ No ☒

Regulatory Agency approved Institution Yes ☒ No ☐

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education ☒ Men ☐ Women ☐

Urban ☒ Rural ☒ Tribal ☐

Financial Status Grant-in-aid ☒ UGC 2(f) ☒ UGC 12B ☒

### 1.11 Type of Faculty/Programme

Arts ☒ Science ☒ Commerce ☒ Law ☒ PEI (Phys Edu) ☒

TEI (Edu) ☒ Engineering ☒ Health Science ☐ Management ☒

Others (Specify)

Vocational Courses (B. Voc and M. Voc)

### 1.12 Name of the Affiliating University (for the Colleges)

NA

### 1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University ☒

University with Potential for Excellence

UGC-CPEPA

☒

DST Star Scheme	<input type="text"/>	DST -FIST	<input checked="" type="checkbox"/>
UGC-Special Assistance Programme	<input checked="" type="checkbox"/>	UGC-SAP	<input checked="" type="checkbox"/>
UGC-Innovative PG programmes	<input checked="" type="checkbox"/>	Any other ( <i>Specify</i> )	RUSA-Centre for Advanced Sensor Technology
UGC-COP Programmes	<input type="text"/>		

## 2. IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="10"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="10"/>
2.3 No. of students	<input type="text" value="1"/>
2.4 No. of Management representatives	<input type="text" value="1"/>
2.5 No. of Alumni	<input type="text" value="1"/>
2.6 No. of any other stakeholder and community representatives	<input type="text" value="2"/>
2.7 No. of Employers/ Industrialists	<input type="text" value="2"/>
2.8 No. of other External Experts	<input type="text" value="1"/>
2.9 Total No. of members	<input type="text" value="28"/>
2.10 No. of IQAC meetings held	<input type="text" value="23"/>

2.11 No. of meetings with various stakeholders:	No.	<input type="text" value="23"/>	Faculty	<input type="text" value="15"/>
Non-Teaching Staff	<input type="text" value="5"/>	Students	Alumni	<input type="text" value="2"/>
		Others	<input type="text" value="1"/>	

2.12 Has IQAC received any funding from UGC during the year? Yes ☐ No ☒

If yes, mention the amount

## 2.13 Seminars and Conferences (only quality related)

### (i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos.	13	International	0	National	1	State	1	Institution Level	11
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### (ii) Themes

- Workshop on “Outcome Based Education – First Phase” (Organized on September 16, 2018. Participants 110)
- Workshop on “Outcome Based Education – Second Phase” (Organized on December 08-09, 2018. Participants 110)
- Workshop on “Outcome Based Education – Third Phase” (Organized on February 21-22, 2018. Participants 98)
- One Day workshop on Scientific Validation of Database (Organized on October 13, 2018. Participants 75)
- Orientation Session for first year students (Organized on September 26, 2017. Participants 890)
- Half Day Workshop on Revised Accreditation Framework of NAAC (Organized on August 28, 2017. Participants 119)
- Faculty Development Program with the support of Infosys Company (Organized on July 12, 2017 to July 20, 2017. Participants 34)
- Familiarization Workshop on Instrumental facilities at RUSA CAST (Organized on September 15, 2017. Participants 131)
- Workshop on ‘Patents – Why, What, How? And Filing Indian Patents’ (Organized on September 29, 2017. Participants 83)
- Two Day’s Workshop on “R Tool” (Organized on January 13-14, 2018. Participants 57)
- Training Session on Learning Management System (Organized on February 24, 2018. Participants 10)
- Outcome Based Education Software Awareness Programme (Organized on January 03, 2018. Participants 22)
- Examination Management System Awareness program (Organized on March 03, 2018. Participants 28)

## 2.14 Significant Activities and contributions made by IQAC

- Academic and Administrative Audit was conducted amongst the University Departments in University Campus, Sub-Campus.
- Efforts have been initiated for the conduct of Value-Added Courses in the University Departments. Moreover, IQAC has conducted Value-Added Courses in 20 Academic during year 2017-18
- Preparation of short, medium and long term strategic plan of the University and initiation of its implementation.
- Submission of proposal for Atal Incubation Centre under Atal Innovation Mission to NITI Aayog, New Delhi and NITI Ayog have sanctioned grants of Rs. 10 Cr.
- Submission of Research Centres of Excellence ( viz. i) Centre of Excellence in Technology Enabled Sensor Devices, ii) Centre of Excellence in Innovative Technologies for Sustainable Development iii) Centre of Excellence in Archaeology and History of Ajanta, Ellora, Aurangabad (university) caves, Buddhism and its Social relevance in Tourism and Cultural Integration to RUSA Directorate, Mumbai

- Preparation of comprehensive 'Research Policy', 'Consultancy Policy', 'Plagiarism Policy' and 'Policy for promotion research'
- Efforts and actions have been initiated to convert existing curriculum of all UG and PG programme (University Campus) into outcome based curriculum.
- Efforts and actions have been initiated to create separate feedback portal (for all stakeholders) on University website. Moreover, Feedback Analysis and Action Taken of the same have been initiated through IQAC.
- A comprehensive plan is prepared to attract out of state and overseas students for enrolment in various academic programmes of the University.
- Commencement of MOOC online courses by various University Departments (viz. Department of Physics, Department of Chemistry, Department of Computer Science, Department of Chemical Technology, Department of Biochemistry, Department of Botany etc)
- All Faculty members are encouraged to use ICT Facilities and to develop e-contents for teaching.
- Participated in National Institutional Ranking Framework (NIRF) 2018 and secured rank band in between 101-150.
- For promoting Yoga academically, University has established a new Department of Yoga offering programme MA in Yoga and became first state University to start Yoga Department.
- Commencement of new Courses M. Yoga and M.A. (Thoughts on Phule and Dr. Ambedkar).
- Organization of workshops on "Outcome Based Education" in three phases and 318 participants attended the workshop.
- Organization of IPR workshop on September 29, 2018, 83 University faculty members have attended workshop on 'Patents – Why, What, How? And Filing Indian Patents'
- A Workshop on Scientific Validation of Database was organized on October 13, 2017 and 75 participants have attended the workshop.
- Teaching Faculty have been encouraged for the use of Learning Management System (MOODLE) in the Academic Departments.
- Alumni Associations (Central and Departmental) were advised to focus on tapping of funds from Alumni in the form of donation and Rs. 6.19 Lakhs of fund have been collected during the year 2017-18.
- Preparation of systematic plan to address all maintenance related issues (which includes Dept. buildings, common utilities etc.).
- Special sessions were organized to motivate the students to apply for various National / International fellowships and also for doing outreach / extension activities. Accordingly 89 Students have got Fellowships (viz. JRF, SRF, Rajeev Gandhi National Fellowship, Maulana Azad National Minority Fellowships etc)
- Foreign student cell / International Student Cell was advised to organize orientation programme for foreign students in the beginning of academic year
- Director (Board of Sports), Director (Board of Students Development) was advised to organize special sports/cultural programmes for the students of University Campus and Sub-Campus.
- Strengthening and implementation of E-governance in following University areas :
  - a. Planning and Development
  - b. Administration
  - c. Finance and Accounts
  - d. Student Admission and Support
  - e. Examination

### 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year \*

Plan of Action	Achievements
Implementation of Outcome Based Education System in UG/PG Programmes of University Academic Departments	<p>As per the directions of Hon'ble Vice-Chancellor, following actions were initiated –</p> <ul style="list-style-type: none"><li>• Revised the curriculum of all the UG/PG courses into Outcome Based Education system.</li><li>• Organized three workshops on Outcome Based Education System for creating awareness regarding OBE</li></ul>
The meeting of IQAC for the Implementation of Action Plan by considering upcoming NAAC Assessment and Accreditation	<p>Action Plan for academic year was prepared and following action was initiated -</p> <ul style="list-style-type: none"><li>• Constituted criteria-wise committees (Seven) for the implementation of actions in all the seven criteria aspects.</li><li>• Communicated action plan to all the Heads of the Departments, University Authorities by considering upcoming NAAC Assessment and Accreditation.</li></ul> <p>To ensure the quality in teaching, learning process and research &amp; extension, various sub-committees were constituted and a comprehensive strategic plan was also prepared and actions taken accordingly.</p>
Meeting with all the faculties in order to enhance the quality in Teaching, Learning and Evaluation aspects in the University	<p>As per the suggestions from the faculties following actions were initiated :</p> <ul style="list-style-type: none"><li>• Faculties have been encouraged for the implementation of mentor-mentee scheme during the University Campus &amp; Sub-Campus.</li><li>• Efforts have been initiated to attract other state, other country students for the UG/PG admissions.</li><li>• Efforts have been initiated for filling up the vacant teaching/non-teaching positions from the University authorities.</li></ul>



Meeting with UG/ PG students and research scholars to have their expectations on Teaching Learning, Research and Extensions activities.	<p>As per the suggestions from the students following action plan was initiated-</p> <ul style="list-style-type: none"> <li>• In order to expose the students to the latest development in the concerned subject, separate budget was allocated to all the departments to organized at least one National Conference.</li> <li>• All Heads of the Departments were requested for conducting value added courses in University Departments.</li> <li>• More number of students were enrolled under 'Earn and Learn Scheme'.</li> <li>• Heads of the Science Departments were advised to organise Industrial visits and special lectures from Industry experts on various focused areas.</li> <li>• Developed a robust system to provide support to student for grooming, skill development, career counselling for higher education, competitive examinations, placements and entrepreneurship through special sessions.</li> <li>• Special programmes were organized to motivate the students to apply for various National / International fellowships and also for doing outreach / extension activities. Accordingly 89 Students have got National / International Fellowships ( viz. Erasmus Mundus Fellowship, CSIR-JRF, SRF, Rajeev Gandhi National Fellowship, Maulana Azad National Minority Fellowships etc)</li> </ul>
University-Industry Interaction	<ul style="list-style-type: none"> <li>• Special initiatives were taken to encourage the University students for opting internships and field projects/field visits. More number of industries were requested to train the students as per the market requirements.</li> <li>• Many industry interaction meetings were organized for supporting students in placements by various departments</li> <li>• 12 MoUs with industries were signed for student internships, field projects and field visits.</li> <li>• Workshop on "Marathwada Scale-up Accelerator Programme" in association with CMIA, MAGIC was organized on 11<sup>th</sup> June 2018 for accelerating University-Industry interaction.</li> </ul>
Strengthening of Innovations, Incubation and Linkages	<p>For strengthening the Innovations, Incubation and linkages following actions were initiated :</p> <ul style="list-style-type: none"> <li>• Infrastructure setup for Bajaj Incubation Centre was established and proposed for the inauguration during the upcoming year 2018-19.</li> </ul>

	<ul style="list-style-type: none"> <li>• Efforts have been initiated for creating start-ups and 08 start-ups have been incubated in Bajaj Incubation Centre under different categories.</li> <li>• A proposal have been submitted to Maharashtra State Innovation Society (MSInS), Govt. of Maharashtra for the establishment of Incubation Centre and MSInS, Govt. of Maharashtra has sanctioned an amount of Rs. 05 Cr for the same.</li> <li>• Atal Innovation Mission MHRD, New Delhi has sanctioned total outlay of Rs. 10 Cr for the Incubation and Start-ups.</li> </ul>
Enhancing Skill Development activities, Innovative Concepts, Sports/Cultural Activities	<p>Overwhelming active participation and skill enhancement of students in various events like -</p> <ul style="list-style-type: none"> <li>• “University Level Avishkar Competition” was organized by the University for promoting research culture. There were more than 500 participants participated in the competition.</li> <li>• University-Level Central Youth festival was organized held on October 29, 2017 at University Campus and 2000 students have participated in the event.</li> <li>• Yoga Shibir was organized by Deen Dayal Upadhyay Kaushal Kendra, Department of Electronics for celebrating Yoga Day, 100 participants were participated for the same.</li> <li>• Extension activities such as sustainable Rural Development though Bee keeping was conducted across many villages like Patoda, Bajarsawangi, Georai in Aurangabad district.</li> <li>• Open Day is being celebrated on the eve of University Foundation Day (August 23). All the laboratories are open for two days (August 22-23) for all stakeholders of the University.</li> <li>• National Science Day celebrated in University Departments during the last week of February every year. All students of Science Departments have participated.</li> </ul>
Special sessions to motivate and encourage faculty members of all university Departments to tap funding from various funding agencies and submission of IPR.	<ul style="list-style-type: none"> <li>• Seventeen Provisional Patents were filed by the various University faculty and University earned 10 copyrights in the form of musical artwork “Geetbheemayan”</li> <li>• Submitted various proposals under DST-FIST and UGC SAP scheme of DST and UGC</li> <li>• DST-SERB Project sanctioned by DST ( Prof. M. D. Shirsat (Dept of Physics) has sanctioned Rs. 45.25 lakhs)</li> <li>• Rs. 63.45 lakh was sanctioned for research projects under</li> </ul>

	<p>various funding schemes such as DST, IUAC, BARTI (Sponsored by the government sources)</p> <ul style="list-style-type: none"> <li>• An international conference on ‘Development of Marathwada : Opportunities and Challenges’ under UGC scheme of Centre for Potential Excellence (CPEPA) was organized on 15-17 March 2018.</li> </ul>
Efforts to bring funds from Industries (under CSR scheme) and various funding agencies.	Bajaj Auto Pvt Ltd, Aurangabad has sanctioned an amount of Rs. 1.5 Cr for the construction of building for Bajaj Incubation Centre.
To get recognitions for more number of university Departments as a Centre with Potential for Excellence in Particular Areas (CPEPA).	<ul style="list-style-type: none"> <li>• University Grants Commission has approved status of Centre with Potential for Excellence in Particular Area (CPEPA) to Department Economics, Department of Sociology and Department of Political Science.</li> <li>• The University Grants Commission (UGC) has sanctioned Rs. 2.50 crore for five years (2016-21) to establish the Centre of Excellence in “Rural Development in Backward Districts of Marathwada” at university campus</li> </ul>
MoUs with various industries and Academic Organisation	<ul style="list-style-type: none"> <li>• MoUs with 12 Industries (viz. Narshima Auto Components Pvt Ltd, Scintech Technologies Pvt Ltd, NAC Group of Industries, Reliance Jio Infocomm Limited etc.) 36 Universities/Institutions (Viz. National Taiwan University (Taiwan) Tas Tafe (Tasmania), University of Delgi, Italy and many more)</li> <li>• University Signed MoU with Reliance Jio Infocomm Limited for supply and installation of WiFi facility in University Campus.</li> <li>• RUSA Centre for Advanced Sensor Technology has signed MoU with Department of Material Science and Engineering, National Taiwan University of Science and Technology, Taipei, Taiwan.</li> <li>• University has signed MoU with Warsaw University of Life Sciences, Warsaw Poland under Erasmus + program regarding faculty and student exchange.</li> <li>• For heightening research and extension activities, Department of Management Science has signed an MoU with “University of Shri Jayawardhanepura, Shrilanka” having term of agreement for 5 years.</li> <li>• University has signed MoU with Indira Gandhi National Open University, New Delhi for broadcasting inter-university educational activities through FM Station referred as “GYANWANI”.</li> <li>• For enhancing the extension activities during the</li> </ul>

	academic year 2017-18, University has signed an MoU with “I Progress Foundation” regarding working with disables.
Organization of workshop/seminar/conference Research publication/patents academic software	<ul style="list-style-type: none"> <li>• IQAC has organized three workshops on “Outcome Based Education System” phase I, II and III respectively. 310 participants have attended the workshop</li> <li>• IQAC has conducted workshop on Scientific Validation of Database in collaboration with INFLIBNET, Gandhi Nagar. 75 participants have attended the workshop.</li> <li>• 427 research papers are published by the University faculties in UGC notified journals</li> <li>• University has 340 publications in Scopus/Web of Science/PubMed and Indian Citation Index.</li> <li>• University has filed 16 patents provisionally, moreover, University has 10 copyrights to its credit during the academic year 2017-18.</li> </ul>
To make students capable of getting jobs in various fields to encourage students to appear for the NET/SET exams, to motivate research students for approaching for various fellowships.	<ul style="list-style-type: none"> <li>• 8.45% students from the University campus have been placed during the 2017-18.</li> <li>• 79 students have qualified station/national/international level examinations (eg. NET /SET/SLET /GATE/CAT /GRE /Civil Services) during 2017-18.</li> <li>• 89 students have received fellowships under JRFs, SRFs, Post Doctoral Fellows etc.</li> </ul>

*\* Attach the Academic Calendar of the year as Annexure.*

**2.16 Whether the AQAR was placed in statutory body**

Yes ☒ No ☐

Management ☐ Syndicate ☐ Any other body ☒

Provide the details of the action taken

AQAR was placed in IQAC Advisory Committee for approval, and a resolution for accord of approval was unanimously resolved.

## Part – B

### Criterion – I

#### 1. Curricular Aspects

##### 1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	47		-	47
PG	59	02	23	59
UG	12	-	06	12
PG Diploma	05	-	05	05
Advanced Diploma	03	-	01	03
Diploma	07	-	03	07
Certificate	07	0	02	07
Others	18	-	08	18
<b>Total</b>	158	02	48	158
Interdisciplinary	36	02	-	36
Innovative	10	02	-	10

##### 1.2 (i) Flexibility of the Curriculum: CBCS, Core & Foundation Courses Generic Electives and Open Electives

##### (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	158
Trimester	00
Annual	00

##### 1.3 Feedback from stakeholders\* Alumni ☒ Parents ☒ Employers ☒ Students ☒ (On all aspects)

Mode of feedback : Online ☒ Manual ☒ Co-operating schools (for PEI) ☐

##### 1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects: Yes

###### Salient Aspects are as below-

- Outcome Based Education System was implemented in the curriculum of all the UG & PG programmes carried out in the University Campus and Sub-Campus.

- Several meetings were organized with the Industry experts to identify the need of the Industries and accordingly curriculum was updated (particularly from skill based programme and most of the Science Programmes)
- Core, Foundation, Generic Elective and Open Elective courses are integral part of the revised curriculum.
- Revision in curriculum of all PG programmes in the university campus was undertaken and implemented from academic year 2017-18 and approximately 25% weightage is allocated for research component.
- Value added courses on Human Skills, Life Skills, Communication Skills and Personality Development, Emotional Intelligence, Grooving Researchers in History, Industrial Robotics, Internet of things have been incorporated to have value-addition in the curriculum
- University Departments have been communicated for addition of Field Projects, Conduct of Field Visits in curriculum and 25% departments from Humanities and Interdisciplinary studies have started implementing the same.

### 1.5 Any new Department/Centre introduced during the year. If yes, give details.

- Department of Yoga
- Bajaj Incubation Center
- Gopinathrao Mundhe National Centre for Rural Development

## Criterion – II

### 2. Teaching, Learning and Evaluation

#### 2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
148	96	42	10	00

#### 2.2 No. of permanent faculty with Ph.D.

167

#### 2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
96	48	42	46	10	25	-	-	0	119

#### 2.4 No. of Guest, Visiting faculty and Temporary faculty

50

38

50

## 2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	135	152	65
Presented papers	53	78	12
Resource Persons	08	38	25

## 2.6 Innovative processes adopted by the institution in Teaching and Learning:

- Implementation of Mentor/Mentee scheme across all the departments
- Many academic departments have started using Learning Management System
- Almost 90% faculty use ICT tools during the Teaching, Learning process
- Virtual classroom concept adopted in the university and it has been used frequently
- ICT methods have been effectively used by most of faculty members
- Use of interactive smart board in teaching
- Academic departments takes initiatives for identifying learning levels of the students
- Conduct of remedial classes for slow learners
- Active interests in promoting internships, student exchange, field visit opportunities for students
- Encouragement to students for participation in extracurricular activities
- Audio Visual Tools which supplement textbooks with models, filmstrips, movies and pictorial material and other mind mapping and brain mapping tools.
- Incorporation of online MOOC courses for students
- Emphasis on capability enhancement and development schemes
- Lectures/Sessions by experts from Industries
- Group discussions, debates on socio-economic issues
- Webinars/Seminars on various current issues
- University Industry Interaction Meetings for identifying gaps and enrichment in the curriculum
- Industrial visits for students for industrial exposure.

## 2.7 Total No. of actual teaching days during this academic year

180

## 2.8 Examination/ Evaluation Reforms initiated by the Institution

University is following reforms in examination as suggested by Rajesh Agarwal Committee constituted by Government of Maharashtra which includes extensive use of ICT in Examination and Evaluation process

### University

- CBCS pattern with 10 point scale is being followed for all PG courses in the university campus since 2011-12.
- 100 % transparency in the evaluation process (Answer scripts are being shown to the students to know their grievances and grievances (if any) are being rectified immediately.
- Continuous Internal Evaluation process comprise of two internal tests, seminar presentation and tutorials (20 %).
- Semester End examination is being conducted at the end each semester (80%). External examiners are invited for practical and project examinations.

### Colleges

- Answer scripts (books) are barcoded to hide the identity of the student.
- Question papers are transferred online to the examination centre before one hour prior to the commencement of examination.
- Photo copies of Answer paper are issued to students as per their demands.
- Introduced online Multiple Choice Questions (MCQ) examination for first year engineering examinations.

### 2.9 No. of faculty members involved in curriculum Restructuring /revision /syllabus development as member of Board of Study /Faculty /Curriculum Development workshop

57	62	69
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### 2.10 Average percentage of attendance of students

82%
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### 2.11 Course/Programme wise distribution of pass percentage:

Sr. No.	Name of Department	Name of the Programme	No. of students appeared	% of Passed in Grade							
				Grade 'O'	Grade 'A++'	Grade 'A+'	Grade 'A'	Grade 'B+'	Grade 'B'	Grade 'C+'	Grade 'C'
1.	Biochemistry	M.Sc. Biochemistry	15	6.67	13.33	13.33	6.67	0.00	20.00	13.33	0.00
2.	Botany	M.Sc. Botany	45	2.22	6.67	48.89	37.78	0.00	0.00	0.00	0.00
3.	Chemical Technology	B.Tech Chemical	38	23.68	2.63	0.00	0.00	0.00	0.00	0.00	0.00



4.		M.Tech Pharma	02	0.00	50.00	50.00	0.00	0.00	0.00	0.00	0.00
5.	Chemistry	M.Sc. Chemistry	86	15.12	39.53	15.12	8.14	6.98	1.16	1.16	6.98
6.	Commerce	M.Com (Commerce)	61	0.00	1.64	9.84	40.98	14.75	9.84	3.28	3.28
		MBA (IB)	12	0.00	0.00	58.33	25.00	0.00	0.00	0.00	0.00
7.	Computer Science & IT	M.Sc. Computer Science	31	16.13	32.26	29.03	9.68	3.23	6.45	3.23	0.00
		M.Sc. Information Technology	07	0.00	28.57	42.86	28.57	0.00	0.00	0.00	0.00
		M.Tech	17	0.00	0.00	76.47	23.53	0.00	0.00	0.00	0.00
8.	Dance	BA (Dance)	03	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00
9.	Deen Dayal Upadhyay Kaushal Kendra	B.Voc ( Automobile)	28	0.00	3.57	0.00	32.14	14.29	25.00	7.14	7.14
		B.Voc ( Industrial Automation)	33	0.00	30.30	0.00	27.27	15.15	9.09	12.12	9.09
		M.Voc. (Industrial Automation)	11	18.18	27.27	45.45	0.00	0.00	0.00	0.00	0.00
		M.Voc. (Automobile)	08	0.00	25.00	0.00	37.50	0.00	0.00	0.00	0.00
10.	Dramatics	BA (Drama)	21	0.00	14.29	0.00	47.62	14.29	0.00	4.76	0.00
		Master of Performing Art (MPA)	26	0.00	26.92	0.00	34.62	19.23	3.85	15.38	0.00
		Bachelor of Performing Art (BPA)	21	0.00	23.81	23.81	23.81	14.29	14.29	0.00	0.00
11.	Economics	MA (Economics)	42	0.00	19.05	14.29	21.43	16.67	7.14	7.14	9.52
12.	Education	M.Ed. (Education)	01	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
13.	Electronics	M.Sc. Electronics	12	0.00	16.67	0.00	33.33	41.67	8.33	0.00	0.00
14.	English	MA (English)	54	0.00	27.78	0.00	31.48	14.81	0.00	3.70	0.00
15.	Environmental Science	M.Sc. (Environmental Science)	22	0.00	36.36	0.00	59.09	0.00	0.00	0.00	0.00

16.	Fine Arts	Master of Fine Arts	18	0.00	38.89	0.00	38.89	11.11	5.56	5.56	0.00
		Master of Fine Arts (By Research)	16	0.00	50.00	12.50	12.50	12.50	12.50	0.00	0.00
		Bachelor of Fine Arts	11	0.00	27.27	36.36	18.18	18.18	0.00	0.00	0.00
17.	Geography	M.A. (Geography)	27	14.81	18.52	29.63	11.11	0.00	0.00	3.70	3.70
18.	Hindi	MA (Hindi)	16	0.00	31.25	18.75	6.25	6.25	0.00	0.00	0.00
19.	History	MA History	28	0.00	7.14	0.00	42.86	0.00	10.71	0.00	3.57
20.	Law	LLM	27	0.00	33.33	0.00	18.52	0.00	11.11	3.70	0.00
21.	Liberal Arts	MA Liberal Arts	12	0.00	25.00	0.00	25.00	0.00	0.00	0.00	0.00
22.	Archaeology	MA Archaeology	15	12.50	18.75	25.00	6.25	12.50	12.50	6.25	0.00
23.	Library & Information Science	Mater of Library & Information Science	10	0.00	50.00	30.00	20.00	0.00	0.00	0.00	0.00
24.	Management Science	MBA	68	1.47	19.12	1.47	19.12	7.35	8.82	11.76	2.94
		MCA	31	29.03	22.58	25.81	6.45	0.00	3.23	3.23	0.00
		MBA-Part Time	13	0.00	23.08	15.38	15.38	0.00	0.00	0.00	0.00
25.	Marathi	MA (Marathi)	28	0.00	32.14	0.00	28.57	10.71	14.29	3.57	0.00
26.	Mass Communication & Journalism	BA Mass Communication & Journalism	02	0.00	0.00	50.00	50.00	0.00	0.00	0.00	0.00
		BA International Journalism	25	0.00	20.00	20.00	40.00	12.00	0.00	0.00	0.00
		MA Mass Communication & Journalism	44	0.00	45.45	6.82	29.55	2.27	0.00	0.00	0.00
27.	Mathematics	M.Sc. Mathematics	61	1.64	1.64	8.20	8.20	6.56	3.28	1.64	0.00

		M.Sc. Applied Mathematics	23	8.70	0.00	0.00	0.00	4.35	13.04	0.00	0.00
28.	Music	BA Music	00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		MA Music	13	0.00	15.38	23.08	7.69	15.38	0.00	0.00	0.00
29.	Nanotechnology	M.Sc. Nanotechnology	07	0.00	14.29	14.29	0.00	0.00	0.00	0.00	0.00
30.	Pali & Buddhism	MA (Pali & Buddhism)	34	0.00	38.24	11.76	20.59	11.76	2.94	2.94	0.00
31.	Physical Education	M.P. Ed. (Physical Education)	11	0.00	18.18	9.09	27.27	0.00	0.00	0.00	0.00
32.	Physics	M.Sc. (Physics)	50	36.00	8.00	26.00	8.00	6.00	6.00	2.00	4.00
33.	Political Science	MA Political Science	37	0.00	27.03	2.70	24.32	5.41	10.81	5.41	8.11
34.	Printing Technology & Graphics Arts	Bachelor of Printing Technology & Graphic Arts (BPT&GA)	15	0.00	46.67	26.67	6.67	13.33	6.67	0.00	0.00
35.	Psychology	MA Psychology	22	0.00	36.36	9.09	13.64	0.00	13.64	9.09	4.55
36.	Public Administration	MA Public Administration	09	0.00	33.33	22.22	11.11	22.22	0.00	11.11	0.00
37.	Sanskrit	MA Sanskrit	09	0.00	44.44	0.00	11.11	11.11	0.00	0.00	0.00
38.	Sociology	MA Sociology	22	0.00	22.73	4.55	27.27	4.55	13.64	4.55	9.09
39.	Statistics	M.Sc Statistics	27	0.00	25.93	18.52	33.33	0.00	7.41	7.41	0.00
40.	Tarabai Shinde Women Studies Centre	M.A. (Women Studies) Granted (UGC)	12	0.00	25.00	0.00	33.33	8.33	16.67	8.33	0.00
41.	Tourism & Administration	Master of Tourism Administration	14	0.00	57.14	7.14	21.43	0.00	0.00	0.00	0.00
42.	Urdu	MA Urdu	08	0.00	37.50	0.00	62.50	0.00	0.00	0.00	0.00
43.	Zoology	M.Sc. Zoology	53	0.00	35.85	3.77	33.96	9.43	1.89	1.89	3.77
44.	College of Social Work	MSW	35	5.71	14.29	34.29	8.57	17.14	11.43	2.86	5.71

OSMANABAD SUB-CAMPUS											
1.	Biotechnology	M. Sc. (Biotechnology)	22	0.00	40.91	50.00	4.55	0.00	0.00	0.00	4.55
2.	Chemistry	M. Sc. (Chemistry)	44	6.82	11.36	29.55	20.45	11.36	13.64	0.00	0.00
3.	Microbiology	M.Sc. Microbiology	20	0.00	45.00	10.00	25.00	5.00	0.00	0.00	0.00
4.	Water & Land Management	M.M.S. (Water and Land Management)	12	0.00	41.67	0.00	25.00	0.00	0.00	8.33	16.67
5.	Education	M.Ed. (Education)	12	8.33	16.67	8.33	25.00	0.00	0.00	8.33	16.67
6.	English	MA English	23	0.00	26.09	0.00	56.52	4.35	4.35	0.00	0.00
7.	Management Science	MBA	06	0.00	0.00	33.33	16.67	0.00	0.00	0.00	0.00
		MCA	08	25.00	0.00	62.50	0.00	0.00	0.00	0.00	0.00

### 2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- Academic Audit of the University Departments (Formative and Summative Evaluation, External and Internal Evaluation) is regularly undertaken.
- Since there are many dimensions to pedagogical work, IQAC evaluates the range of instructional activities, which include the following:
  - Instructional Delivery (including quality, amount, and level of classroom instructions)
  - Course Planning (including development of course materials, course revision, development of new courses)
  - Grading and Assessing Student Learning (including appropriate level of assignments, exams, grading standards)
  - Course Management
  - Oversight of Independent Studies, Dissertations etc
  - Support for Student Internships, Experiential Learning, Service Learning
  - Department and Curricular Work (including participation in curriculum revision, departmental efforts to focus on teaching)
  - Advising and Mentoring
  - Professional Development and Innovation Around Teaching
- Departmental reports (quarterly and annually) and regular feedback collected from the students are reviewed by the core committee of IQAC.
- Feedback analysis from five stakeholders such as Students, Teachers, Parents, Alumni and Employers and action plan is regularly prepared by IQAC at the end of each semester. Recommendations are communicated to appropriate authorities of the University for Implementation.

- IQAC conducts visits to all Departments and gives suggestions for improving teaching learning process.
- IQAC organizes special short term training programmes for the teachers (all university Departments) on focused areas.

### 2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher Courses - 06	98
UGC – Faculty Improvement Programme	2
HRD Programmes -03	138
Orientation Programmes-4	188
Faculty Exchange Programme	7
Staff training conducted by the university	176
Staff training conducted by other institutions	15
Summer / Winter schools, Workshops, etc.	195
Others	59

### 2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	334	178	0	0
Technical Staff	174	91	0	0
Total	508	269	0	0

## Criterion – III

### 3. Research, Consultancy and Extension

#### 3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- Making provision for seed money for research to some of the faculty members who have proven track record in research.
- A separate budget head for promotion of research is created. Research grant is being provided to young faculty members from university Departments and affiliated colleges. During July 2017 to June 2018, seed money (Research Grant) with total outlet of Rs. 55.13 Lakhs utilized for this purpose.
- Many Non-Government bodies, industries such as Endress+Hauser, RN Bagala Group, Wockhardt Industries award fellowships to University students for encouraging students in the University Campus.
- Exchange Program: **03 faculties and 10 students** visited European and Japanese Universities for research activities under the scheme of Erasmus-Mundus.
- Principal Investigators of various Major Research Projects are allowed to use overhead budget for development infrastructure.
- The Chairman of IQAC, Hon'ble Vice Chancellor motivated the faculties and researchers to increase their research publications in SCOPUS, Web of Science, Indian Citation Indexed journals having high Impact Factor.
- University has encouraged faculty members to file patents and 16 patents were filed by various faculty members. Moreover, Department of Music (Faculty of Interdisciplinary Studies) has earned 10 copyrights to its credit for its revolutionary project of “Geetbheemayan” (a musical creativity).
- Various activities viz Avishakar Competition, seminars and Industrial lecture series were organized in various university departments.
- All university Departments have Internal Quality Assurance Cell (Department Level) for planning and implementation of various quality measures in respective departments.
- Continuous updates in the policy for promotion of research
- Providing research fellowships to the research scholars in each Department.
- Organization of workshops for all faculty members to create awareness and to encourage Head of the Academic Departments to apply for UGC-SAP, DST-FIST, DBT, ICSSR and other similar recognitions by government agency.
- Organization of workshops for all faculty members to create awareness and to encourage all faculty members of various Departments to apply for funding under Individual Research Projects so that enrolment of JRFs, SRFs, and Post-Doctoral Fellows could be increased.

- Encouraging faculty members of various Departments to apply for various International fellowships.
- Identification of some faculty members from the University campus who have adequate research credentials and providing them incentives (in the form of research grants) so that research credential could be further strengthened.
- 13 Students have received BARTI Fellowship, 03 students have received CSIR-Junior Research Fellowship, 03 students have received ICSSR – Post Doctoral Fellowship and 37 students have received Rajiv Gandhi National Fellowship for SC & OBC.

### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
<b>Number</b>	08	21	05	08
<b>Outlay in Rs. Lakhs</b>	109.94	298.23	63.45	109.94

### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
<b>Number</b>	22	101	107	28
<b>Outlay in Rs. Lakhs</b>	4.21	29.43	55.13	29.91

### 3.4 Details on research publications

	International	National	Others
<b>Peer Review Journals</b>	630	597	-
<b>Non-Peer Review Journxals</b>	495	425	-
<b>e-Journals</b>	766	1149	-
<b>Conference proceedings</b>	47	46	-

### 3.5 Details on Impact factor of publications:

Range	0.1 – 6.2	Average	2.54	h-index	1-32	Nos. in SCOPUS	684
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### 3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations (Amount in Rs.)

Nature of the Project	Duration Year	Name of the funding Agency	Funds Received
Major projects	2 to 4	ICHR	95,000
		UGC	21,13,155
		ICSSR	3,20,000
		DST	76,50,000

		IUAC	1,23,267
		UGC-DAE	2,91,600
Minor Projects			35000
Industry sponsored		Bajaj Incubation Center	52,00,000
Projects sponsored by the University/ College			55,13,000
Students research projects (other than compulsory by the University)			Nil
Any other(Specify)		Srinivasa Ramanujan Geo-Sptian Chair	10,00,000
		GOI	7,58,598
Total			<b>2,30,99,620</b>

**3.7 No. of books published** i) With ISBN No.  Chapters in Edited Books

ii) Without ISBN No.

**3.8 No. of University Departments receiving funds from**

UGC-SAP  CAS  DST-FIST   
DPE  DBT Scheme/funds

**3.9 For colleges**

Autonomy  CPE  DBT Star Scheme   
INSPIRE  CE  Any Other (specify)

**3.10 Revenue generated through consultancy**

**3.11 No. of conferences organized by the Institution**

Level	International	National	State	University
Number	08	22	12	30
Sponsoring agencies	ICSSR, DRDO, DST,MIT, UGC, BRNS	ICSSR, DRDO, DST,MIT, UGC, BRNS	Dr. B. A. M. University	UGC XII plan

**3.12 No. of faculty served as experts, chairpersons or resource persons**

**3.13 No. of collaborations** International  National  Any other

**3.14 No. of linkages created during this year**



**3.15 Total budget for research for current year (INR in lakhs):**

From funding agency	<b>40.50</b>	From Management of University/College	<b>55.13</b>
Total	<b>55.50</b>		

**3.16 No. of patents received this year**

Type of Patent		Number
National	Applied	16
	Granted	0
International	Applied	0
	Granted	0
Commercialised	Applied	0
	Granted	0

**3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year**

Total	International	National	State	University	Dist	College
<b>18</b>	<b>06</b>	<b>04</b>	<b>14</b>	<b>12</b>	<b>00</b>	<b>00</b>

**3.18 No. of faculty from the Institution who are Ph. D. Guides and students registered under them**

129
452

**3.19 No. of Ph.D. awarded by faculty from the Institution****519****3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)**

JRF	<b>396</b>	SRF	<b>205</b>	Project Fellows	<b>89</b>	Any other	<b>121</b>
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**3.21 No. of students Participated in NSS events:**

University level	<b>100</b>	State level	<b>110</b>
National level	<b>01</b>	International level	<b>--</b>

**3.22 No. of students participated in NCC events:**

University level	<b>--</b>	State level	<b>--</b>
National level	<b>--</b>	International level	<b>--</b>

**3.23 No. of Awards won in NSS:**

University level	<b>--</b>	State level	<b>07</b>
National level	<b>--</b>	International level	<b>--</b>

### 3.24 No. of Awards won in NCC:

University level	--	State level	--
National level	--	International level	--

### 3.25 No. of Extension activities organized

University forum	--	College forum	2		
NCC		NSS	10	Any other	49

### 3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- University has organized Central Youth Festival (held on September, 2017 and 1122 students have participated) at University Campus, Aurangabad.
- Swachh Bharat Abhiyan throughout the year by various academic departments and NSS.
- Adopted villages namely Georai Kuber where activities like Blood Donation camps, Cleaning camps, CCTV Installations, Road Maintenance works have been carried out.
- International Workshop on “Marathwada Opportunities & Challenges” was organized by Department of Economics, Dr. B. A. M. University, Aurangabad under CPEPA scheme.
- Partition in ‘Avahan Camp’, ‘Prerna Camp’ and ‘SRD/NRD’ by NSS during Augusts-September, 2017
- Legal Literacy and Awareness programme was organized by Department of Law, Dr. B. A. M. University, Aurangabad and 1250 participants have participated in the programme.
- Youth Mission for Water Conservation programme was organized by Students Developments, Dr. B. A. M. University, Aurangabad and 250 participants have participated in the programme.
- Swachha Bharat Swachha Partyan programme was organized by Department of Tourism, Dr. B. A. M. University, Aurangabad and 6000 participants from the city have participated in the programme.
- An International Conference on “Development of Marathwada Region” was organized by Department of Economics, Dr. B. A. M. University and 171 participants have participated in the conference.
- An International Workshop on “Buddhist Tourism at Ellora” was organized by Department of Tourism, Dr. B. A. M. University, Aurangabad during the Month of April 2018 and 250 participants have participated in the workshop.
- An activity of “Sustainable Rural Development through Bee Keeping” was organized by Department of Zoology, Dr. B. A. M. University during the month of January 2018 in Athegaon Kheda and 19 farmers were benefitted from this activity.

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	724.24 Acres	Nil	Govt. of India	724.24 Acres
Class rooms	115	10	State Government / UGC	125 Nos
Laboratories	80	14	UGC / RUSA	94 Nos
Seminar Halls	23	02	U.G.C.	25 Nos
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.	149	06		154
Value of the equipment purchased during the year (Rs. in Lakhs)	849.92	40.88	UGC,GOI, GOM,GNF	890.80
Others ( Studio, Science exhibition Building, Indoor Stadium, Science Van, Bajaj Incubation centre, Foreign Students Hostel, Hockey stadium, Basket Ball Court, Olympic standard Track, Swimming Pool, Holyball Court, Kho-Kho and Kabbaddi Court, Buildings of Department of Education, Department of Fine Arts, Centre for Advance Sensor Technology and Science Department Building at Osmanabad Sub-Center etc)	07	11	Govt of India, State Government, UGC and University Funds	18

#### 4.2 Computerization of Administration and Library

- Computerisation of all the Administrative Sections and Academic Departments of the university to facilitated the student services.
- Unified Threat Management System (ForGeat-1000D High Availability) for secured browsing of Internet resources by the university users.
- Campus Licensing of Operating System Windows 10, Windows Server 2012, Microsoft Office 2016 (System Software) and other softwares required for Academic and Administrative purpose.
- Dedicated Storage and backup servers (EMC Storage Server VNX e3200 )
- Dedicated Local Intranet Portal/university student and college facilitation portal (examination related activities)
- All communications are made through email, SMS services and university website/ affiliation portal (developed in-house).

- 1:1 One Gbps dedicated leased line from NKN
- 1.1 1000 Mbps dedicated leased line from BSNL as a Backup Internet line to Primary line
- University Computerisation leads through the Backbone OFC (Optical Fiber cable) Network and Structured departmental subnetwork (40)  
Dedicated Video-Conferencing unit for video conferencing.
- Knowledge Resource Center (KRC) (Central Library) is fully automated
  - Web OPAC is used for search Library recourses on university campus.
  - Library Management and Administration done with the help of SOUL 2.0 software.
  - All sections of Library were computerized having LAN connectivity.
  - Library having its sub domain under www.bamu.ac.in website of the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for providing library service and all information on web page
  - 32 CCTV cameras with Day-Night vision fixed in reading room of library and every sections of Library, Examination Section, Administrative Building, Computer Science, Management Science and Chemical Technology Departments.
  - Connectivity to University network through easy proxy to access e-Journals subscription by University.

#### 4.3 Library services:

	Existing (Rs. In Lakh)		Newly added (Rs. In Lakh)		Total (Rs. In Lakh)	
	No.	Value	No.	Value	No.	Value
Text Books	325410	1290.09	1920	34.98	327330	1325.07
Reference Books						
e-books & e-journals	178729	20.65	30,40,000	156.63	32,18,729	177.28
CD & Video	3128	Free	948	Free	4076	Free
Others (specify)	181	1.93	(Same as last year)	-	550	1.93
Subscribe Database (IEEE (CS), PNAS, EBSCO, etc.)	13	74.29	-	-	13	74.29
E-Shodhsindhu database	15	Access from UGC INFIBNET	2	Access from UGC INFIBNET	17	Access from UGC INFIBNET

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
<b>Existing</b>	1832	152	1706	43	1	79	46	15
<b>Added</b>	30	0	00	0	0	0	0	0
<b>Total</b>	1862	152	1706	43	1	79	46	15

#### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology up-gradation (Networking, e-Governance etc.)

- Development and successful usage of the utility for NAAC SSR Data Capturing System in the University Campus and Sub-Campus.
- Awareness programme on Learning Management System (Moodle) for all the University Campus and Sub-Campus Academic Departments.
- Continuous technical up-gradation of Administrative Staff on Digital University portal, Examination Result Processing System (ERPS), Training of Secured Question Paper Delivery to University and Affiliated College staff
- Awareness programme on Examination Management System conducted on 3<sup>rd</sup> March 2018 and 28 administrative authorities have participated in the programme
- Development and implementation of Online Affiliation Portal, Online PG Admission Process through PG-CET and Online Ph.D Admission process.
- E-Broadcasting of Annual Convocation Programme, Inaugural function of Bajaj Incubation Centre, Online call for proposal system for start-ups etc.
- Installation and Commissioning of WiFi Systems in all the Academic Departments under MoU with Reliance Jio InfoComm Limited
- One Day workshop on Scientific Validation of Database during October 2017 and 75 University faculty have participated in the workshop.
- There are 1594 total users (Teachers and researchers including affiliated colleges). They have given remote access of E-Resources of Dr. Babasaheb Ambedkar Marathwada University Library, Aurangabad
- 29 library orientation programme were conducted for different types of users i.e newly admitted students , Participant of academic staff college and visitor from different Indian and abroad universities, total 1073 users are benefited
- All the university Departments and administrative building are connected with fibre optic cable.
- Efforts have been initiated for the implementation of e-governance for minimising the paper work in the University administration

#### 4.6 Amount spent on maintenance in lakhs :

i) ICT	150
ii) Campus Infrastructure and facilities	1000.34
iii) Equipments	80
iv) Others	258
<b>Total :</b>	1488.34

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Head of the Academic Departments were advised to provide adequate facilities for JRF/SRF/Post Doc in various Departments.
- IQAC has conducted Value Added courses on Human Skills, Life Skills, Communication Skills and Personality Development; Bench-to-Benchmark; Decoding Success with EQ; Internet of Things and many more in 19 University Academic Departments and 1500 students were benefitted from these courses.
- Head of the Academic Departments were advised to continue the scheme of Mentor-Mentees and to conduct remedial coaching, bridge courses and personal counselling.
- Head of the Academic Departments were advised to identify the slow learners and advanced learners and to take specific initiatives for slow learners and to provide adequate resources to advanced learners.
- ‘One Window System’ for foreign students.
- Foreign student cell was advised to organize orientation programme for foreign students in the beginning of academic year
- Online Feedback System portal is created for having feedbacks from all the stakeholders of the University such as students, teachers, parents, alumni and employers regarding teaching, curriculum and support services.
- Feedback analysis and specific action taken is regular activity of the IQAC. Accordingly, up-gradation in teaching-learning process and student support services (including Departmental support services, library, ICT facilities, hostels etc.) is done.
- University Placement Cell was advised to arrange placement drives and ensure the placement of the students both on-campus and off-campus.
- Exploring the possibility of having Group Insurance for all students.
- Conduct of special training / awareness programme for all the researchers to create awareness regarding National / International fellowships.
- Initiation of personal counselling, career counselling workshops for university students (Department-wise).

#### 5.2 Efforts made by the institution for tracking the progression

- Collection of feedback from students, feedback analysis and action taken has been regular activity adopted by all academic Departments in the campus.
- All Departments have adopted formal /informal process to identify slow and advanced learner
- Special sessions are arranged for slow learners and special incentives are being given to

advanced learner

- Student-Faculty Interaction through student-mentor scheme.
- Meticulous analysis of results at the end of each semester.
- Attendance analysis followed by student counselling.
- All Head of the Departments are advised to keep records of all outgoing students.
- All Departments have created a mechanism to keep track of students' progression and placements.
- The alumni are requested to provide information about their progression

### 5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
652	3155	451	740

### (b) No. of students outside the state

47

### (c) No. of international students

56

Men	No	%	Women	No	%
	45	80.35		11	19.64

### 5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Every Department informally undertakes lectures for competitive examinations such as NET, SET, GATE during the regular teachings.
- Moreover, University has Pre-IAS Coaching Centre established in the year 1981 for special emphasis on and every year 30 students are admitted in Pre-IAS Coaching Centre.
- Extensive training sessions are being arranged for the students
- Special training sessions are being arranged for the preparation of GATE examination.
- Relevant literature which includes reference books other study materials are being made available for the students for the preparation of various competitive examinations.
- 24X7 Reading Hall facility with 500 student capacity.
- University has also established NET/SET study Centre where extensive training sessions are being arranged.
- Moreover, all academic Departments arrange training sessions for NET/SET exams.
- Special Training sessions are being arranged by all academic Departments to enhance soft skills of the students so that success rate in various competitive examination can be increased.

No. of students beneficiaries

3500

### 5.5 No. of students qualified in these examinations

NET	24	SET/SLET	22	GATE	13	CAT	0
IAS/IPS etc	0	State PSC	0	UPSC	2	Others	0

### 5.6 Details of student counselling and career guidance

- Training and Placement Cell is established by the University in the year 2012 with full time Independent Training and Placement Officer.
- University has made budget provision of Rs.10.00 lakhs for Training and Placement cell for various students counselling and career guidance activities.
- Following students counselling career guidance activities are being organized by Training and Placement Cell.
  - Placement camps in respective Departments
  - Seminars and workshops for students about the emerging trends in Higher Education, job profiles, leadership roles, entrepreneurship, market needs and risks, soft skills.
  - Mock interview sessions in various Departments.
  - Guidance to students regarding preparation of resumes, behavioural skills, interview techniques.
  - Industrial lecture series to make them aware about Industrial opportunities in employment and research.
  - Training and Placement Cell has MoUs with various organization viz. i) Tata Consultancy Services and ii) Infosys BPO Ltd iii) Model Career Center NIELIT. Under these MoUs various training programme on soft skills and campus placement drives are being organized regularly.
- Under “Earn and Learn Scheme”, special skills for paper making, envelop making etc are being imparted.

No. of students benefitted

2250

### 5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
<b>33</b>	<b>1500</b>	<b>106</b>	<b>150</b>

### 5.8 Details of gender sensitization programmes

1. Twenty Four Gender Sensitization programmes and other issues women have been organized by ‘Tarabai Shinde Women’s Study Centre’
2. Four Gender Sensitization programmes have been organized by ‘Vishakha Committee’



## 5.9 Students Activities

### 5.9.1 No. of students participated in Sports, Games and other events

State/ University level  National level  International level

No. of students participated in cultural events

State/ University level  National level  International level

### 5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level  National level  International level

Cultural: State/ University level  National level  International level

## 5.10 Scholarships and Financial Support

	Number of students	Amount (in Rs. )
Financial support from institution	814	10,00,000/-
Financial support from government	1558	2,00,72,410/-
Financial support from other sources	90	10,00,000/-
Number of students who received International/ National recognitions	21	-

### 5.11 Student organised / initiatives

Fairs : State/ University level  National level  International level

Exhibition: State/ University level  National level  International level

5.12 No. of social initiatives undertaken by the students

### 5.13 Major grievances of students (if any) redressed:

All departments have grievance redressal cell to take care of grievances of students. Most of the grievances are resolved at respective department level. However, no major grievance has been noticed.

## Criterion – VI

### 6. Governance, Leadership and Management

#### 6.1 State the Vision and Mission of the institution

**Vision :**

To structure The Dr. Babasaheb Ambedkar Marathwada University to be an Epitome of Excellence by creating and imparting time responsive Quality Education to address Changing Scenario, keeping Research and Development at its core, for 'Anyone' at 'Anytime' and 'Anywhere'.

**Mission :**

- To provide a platform for rural, women, socially disadvantaged and differently-abled groups to achieve Academic Excellence with in-built Employability.
- To carve out a fusion between Academics and Industry with an ultimate aim to identify the gaps and accordingly, design the courses to impart skill based education as per the requirements of the region so as to improve employability and develop entrepreneurial capabilities.
- To provide student centric learning environment and to establish platform for inclusive research leading to the development of creative thought process amongst research scholars keeping in mind societal needs.
- Nurturing innovative ideas shaping into products facilitating the spinoff and creating awareness to protect Intellectual Property (IP).
- To adopt a perennial process for bringing in excellence in teaching pedagogy by providing ICT based state-of-the-art infrastructural facilitation.
- To impart value added, culturally rich education by adopting the local to global approach
- To provide an academic corridor for cordial connectivity between the University and its affiliates.
- To ensure good Governance inculcating 'Accountability' based on 'Self-evaluation' amongst all the stakeholders of the University.

#### 6.2 Does the Institution has a Management Information System : Yes

- Student MIS for University Departments and all affiliated colleges
- College MIS for all affiliated colleges and research centers (In-house development)
- Employee MIS for University (HTE-Sevaarth)
- Procurement and bills MIS at Accounts section of university (In-house development)
- MIS for University Employment (In-house development)
- MIS for Internet users of the University campus (In-house development)
- Data collection system for Internal Quality Assurance Cell (In-house development)

## 6.3 Quality improvement strategies adopted by the institution for each of the following:

### 6.3.1 Curriculum Development

- University has adopted the concept of Outcome Based Education System from the Academic Year 2017-18.
- All departments have academic flexibility and they have freedom to update their curriculum as per the need of the hour.
- Core, Foundation, Generic Elective and Open Elective courses are integral part of the revised curriculum.
- Revision in curriculum of all PG programmes in the university campus was undertaken and implemented from academic year 2017-18.
- Course objectives, Course outcome and Programme outcome are integral part of the revised curriculum
- Curriculum was designed considering employment opportunities in various R & D institutions, academic institutions and industries.
- Several meetings were organized with the Industry experts to identify the need of the Industries and accordingly curriculum was updated ( particularly from skill based programme and most of the Science Programmes)
- Adequate emphasis is given on the core courses of all the programmes so that passing percentage of NET/SET can be enhanced.
- Value added courses have been incorporated to enhance soft skills of the students
- Introduced new course entitled "MA in Yogashastra" was introduced during 2017-18 in the University Campus.

### 6.3.2 Teaching and Learning

- Various ICT tools have been adopted in teaching –learning process.
- Use of Interactive smart board in teaching
- Use of Portable Integrated Computer System (K-YAN) during teaching.
- Creative teaching to stimulate creativity which Include forms of visual exercises that excite the young minds and capture their interest.
- Collaborative teaching learning process adopted
- Audio Visual Tools which supplement textbooks with models, filmstrips, movies and pictorial material and other mind mapping and brain mapping tools.
- ‘Real-World’ learning infusing real world experiences into instructions which make teaching moments fresh and enrich classroom learning.
- Field visits, demonstration to enhance the learning process.
- Theme oriented workshops and in-plant training
- Reading assignment on their subject’s journals, monographs.
- Lectures by experts from Industries
- Group discussion, Debate on current issue
- Webinars and Seminars on various current issues
- University Industry Interaction Summit to identify gaps
- Industrial visits for students for industrial exposure.
- Active learning language laboratory
- Student-centric teaching, learning methods are in practice.

### 6.3.3 Examination and Evaluation

University is following reforms in examination as suggested by Rajesh Agarwal Committee constituted by Government of Maharashtra which includes extensive use of ICT in Examination and Evaluation process

#### University

- CBCS pattern with 10 point scale is being followed for all PG courses in the university campus since 2011-12.
- 100 % transparency in the evaluation process (Answer scripts are being shown to the students to know their grievances and grievances (if any) are being rectified immediately.
- Continuous Internal Evaluation process comprise of two internal tests, seminar presentation and tutorials (20 %).
- Semester End examination is being conducted at the end each semester (80%). External examiners are invited for practical and project examinations.

#### Colleges

- Answer scripts (books) are barcoded to hide the identity of the student.
- Question papers are transferred online to the examination centre before one hour prior to the commencement of examination.
- Photo copies of Answer paper are issued to students as per their demands.
- Introduced online Multiple Choice Questions (MCQ) examination for first year engineering examinations.

### 6.3.4 Research and Development

- University has comprehensive Research Policy, Consultancy Policy and Policy for Plagiarisms in Research
- Making provision for seed money for research to some of the faculty members who have proven track record in research.
- A separate budget head for promotion of research is created. Research grant is being provided to young faculty members from university Departments and affiliated colleges. During 2017-18, seed money (Research Grant) with total outlet of Rs. 55.13 lakh utilized for this purpose.
- A fellowship of Rs. 6000 per month is paid from University funds to the Ph. D students who are wards of drought affected frame. 176 search students are benefitted and university spent an amount of Rs. 95,04,000/- for this purpose.

- Many Non-Government bodies, industries such as Endress+Hauser, RN Bagala Group, Wockhardt Industries award fellowships to University students for encouraging students in the University Campus.
- Exchange Program: **03 faculties and 10 students** visited European and Japanese Universities for research activities under the scheme of Erasmus-Mundus.
- Principal Investigators of various Major Research Projects are allowed to use overhead budget for development infrastructure.
- The Chairman of IQAC, Hon'ble Vice Chancellor motivated the faculties and researchers to increase their research publications in SCOPUS, Web of Science, Indian Citation Indexed journals having high Impact Factor.
- University has provided assistance to file patents and 16 patents were filed by various faculty members. Moreover, University received 10 Copyrights on its credit from Faculty of Social Sciences.
- Various activities viz Avishakar Competition, seminars and Industrial lecture series were organized in various university departments.
- All the university Departments are having the departmental Internal Quality Assurance Cell for planning and implementation of various quality measures in respective departments.
- Providing research fellowships to the research scholars in each Departments.
- Awareness for generating more number of consultancies through RUSA-CAST, Paul Hebert DNA Barcoding Centre, Central Facility for Advanced Research & Training, Departmental Laboratories and Individual Faculty members etc.
- Organization of workshops for all faculty members to create awareness and to encourage Head of the Academic Departments to apply for UGC-SAP, DST-FIST, DBT, ICSSR and other similar recognitions by government agency.
- Organization of workshops for all faculty members to create awareness and to encourage all faculty members of various Departments to apply for funding under Individual Research Projects so that enrolment of JRFs, SRFs, and Post-Doctoral Fellows could be increased.
- Encouraging faculty members of various Departments to apply for various International fellowships.
- Identification of some faculty members from the University campus who have adequate research credentials and providing them incentives (in the form of research grants) so that research credential could be further strengthened.
- Organization of Eight (08) workshops on Intellectual Property Rights for University Faculty, Research Scholars & Students.

### 6.3.5 Library, ICT and physical infrastructure / instrumentation

- Separate budgetary provisions for the e-books & e-journals
- Subscription of various databases i.e. Fedgate, IEEE, PNAS, Times of India, SRELS, Lexis NEXIS, EBSCO, Scopus
- Awareness regarding E-Shodhsindhu Database
- Well-equipped Knowledge Resource Centre (KRC)
- State-of-the-art technical infrastructure have been procured at Department Physics under UGC-SAP ( viz. X-ray Diffractometer)
- State-of-the-art technical infrastructure have been procured at various other University Departments under various Major Research Projects Fully Computerized Library Facilities / Fully Automated Library
- High performance computing with HP Blade servers (04 units) approx.
- High end router (02 units)
- Level 3 (L3- 04 units), Level 2 (L2- 52 units) , Unmanageable (107) switches
- Unified Storage System License Management Server (02 units)
- Unified Threat Management Firewall (02 units)
- Endpoint Security Server
- User Authentication Server
- Ezproxy server to allow access to Research Journals from remote locations
- Photocopier machines (97 units)
- LCD Projector (87 units) located at various Academic Departments
- Smart Class Rooms in various Academic Departments
- State-of-the-art technical infrastructure have been procured at RUSA centre for Advanced Sensor Technology under RUSA Grants ( viz. Mask Aligner, Keithley Semiconductor Characterization System, Hyperspectral Spectrophotometer, etc)
- State-of-the-art technical infrastructure have been procured at Paul Herbert Centre for DNA Barcoding and Biodiversity Studies (Funds received from RUSA, DBT, DST, Ministry of Food Processing etc).
- State-of-the-art technical infrastructure have been procured at Central Facility for Advanced Research & Training (CFART) from University Budget.

### 6.3.6 Human Resource Management

- Qualified teaching and non-teaching staff
- Faculty Development Programmes have been organized for teachers and administrative staff.
- UGC-HRD centre conducted 06 refresher, 06 orientation, 09 short-term courses and 01 special summer school program.
- University has provided Rs. 5.14 Lakh to the faculty members of the University Departments and Affiliated Colleges for attending various National / International Workshops and Conferences.
- University has provided financial support to various University Departments and Affiliated Colleges to organize various National / International Workshops and Conferences.
- University has well defined policy for promotion of the teacher under Career

Advancement Scheme as per UGC norms

- Faculty members are advised to engage extra classes (as per their area of expertise) in those departments where we have shortage of teaching staff.
- Eminent personalities from Industries and other institutions have been identified and appointed for Visiting Professorship
- Biometric system has been introduced for Teaching and Administrative staff of the University.

### 6.3.7 Faculty and Staff recruitment

- Recruitment of Teaching and Administrative staff as per the UGC and Govt of Maharashtra rules and regulations.
- Due to existing policy of Govt of Maharashtra, recruitment of Teaching and Administrative staff is an ongoing issue.
- However, in order to ensure to ensure hassle free academic ambience, University has appointed contributory teaching and administrative staff from its own funds.

### 6.3.8 Industry Interaction / Collaboration

- University has established University-Industry Interaction Cell (UIIC) in the year 2015
- An Independent Officer on Special Duty (OSD) is appointed to look after University – Industry Interactions
- Every year, meetings are organized to enhance University–Industry Interactions.
- 20 MoUs were signed with different Industrial partners during two summits.
- One day Marathwada Scale-up Accelerator Programme have been organized by UII cell in collaboration with CMA Group.
- University has established Bajaj Incubation Center under total outlay of Rs. 1.5 Cr.
- Atal Innovation Mission, MHRD, New Delhi has sanctioned Atal Incubation Center with total outlay of Rs. 10 Cr.
- Government of Maharashtra has sanctioned Rs. 5 Cr under MSInS scheme for the establishment of Incubation Centers in Maharashtra Universities.
- Endress+Hauser, Bagla Group, NAC Group has signed MoU with University for Technology Transfers and Training.
- Nominations from Industry experts on various Board of Studies of the University.
- Active Participation of Industries experts for curriculum development, content delivery, evaluation of students, in-plant training and placement.

### 6.3.9 Admission of Students

- Centralized Admission Process for all PG programmes in the University Departments and Affiliated Colleges (online)
- Centralized Admission Process for all M.Phil programmes in the University Departments
- Govt. of Maharashtra and UGC rules and regulations for admission to various programmes ( viz. UG, PG, M. Phil and Ph D.) and reservation policies are strictly followed
- Admission notification sent through university website, national / regional newspapers and prospectus

### 6.4 Welfare schemes for

<b>Teaching</b>	Quarters, Medical Facilities, Loans, Advances, Festival Loans
<b>Non-teaching</b>	Quarters, Medical Facilities, Loan, Advances, Festival Loan
<b>Students</b>	Hostel facilities, Scholarships for meritorious, infrastructural, sports and cultural facilities

### 6.5 Total corpus fund generated

215 Cr

### 6.6 Whether annual financial audit has been done

Yes

☒

No

☐

### 6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
<b>Academic</b>	Yes	University Appointed Committee	Yes	University
<b>Administrative</b>	Yes	University Appointed Committee	Yes	University



### 6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes      Yes ☒      No ☐

For PG Programmes      Yes ☒      No ☐

### 6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

University is following reforms in examination as suggested by Rajesh Agarwal Committee constituted by Government of Maharashtra which includes extensive use of ICT in Examination and Evaluation process

#### University

- CBCS pattern with 10 point scale is being followed for all PG courses in the university campus since 2011-12.
- 100 % transparency in the evaluation process (Answer scripts are being shown to the students to know their grievances and grievances (if any) are being rectified immediately.
- Continuous Internal Evaluation process comprise of two internal tests, seminar presentation and tutorials (20 %).
- Semester End examination is being conducted at the end each semester (80%). External examiners are invited for practical and project examinations.

#### Colleges

- Answer scripts (books) are barcoded to hide the identity of the student.
- Question papers are transferred online to the examination centre before one hour prior to the commencement of examination.
- Photo copies of Answer paper are issued to students as per their demands.
- Introduced online Multiple Choice Questions (MCQ) examination for first year engineering examinations.

#### 6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

- Meeting with Principals of affiliated colleges was organized to encourage them to apply for autonomous status.
- A comprehensive roadmap was prepared to encourage various affiliated colleges to apply for autonomous Status
- Special workshops were organized for affiliated colleges.

#### 6.11 Activities and support from the Alumni Association

- Central Alumni Association is registered and functional; Some Departmental Alumni Associations are also registered separately.
- Alumni meetings are regularly conducted by all Academic Departments of the University.
- Separate Web Portal for alumni is also functional
- University Departments have identified potential alumni in respective departments and arranged their expert lectures.
- Potential Alumnis from the Industrial Sector also helps the students for their placements.
- Alumni of various University Departments have contributed for following activities -
  - Building Infrastructure.
  - Facilitating campus placement
  - Delivering technical lectures
  - Facilitating internship for students
  - Facilitating collaborative initiatives
  - Inputs in curriculum framing

#### 6.12 Activities and support from the Parent – Teacher Association

- Parent Teachers Meets are regularly arranged by the Academic Departments
- Suggestions of the parents regarding curriculum, courses, and infrastructure are considered for improvement in the respective sector
- Moreover, University has launched separate portal for feedbacks from parents for their valuable inputs

#### 6.13 Development programmes for support staff

- Training and Sessions regarding ISO Certification
- Interactive Session on “Code of Conduct for Non-Teaching Staff”
- One day workshop on “Professional Ethics” for all non-teaching Staff.
- Three Day Workshop on “Right to Information Act” for Non-Teaching Staff.
- Constitution of department-wise/section-wise committees for RTI,
- Support staff have attended various training programme organized by UGC-HRD Centre.
- Cordial support to Non-Teaching Staff Union and cooperative credit society.
- The University ensures a positive response of the grievances if any

#### 6.14 Initiatives taken by the institution to make the campus eco-friendly

- Appropriate budget provision by the University for various initiative to make the campus eco-friendly.
- 7215 trees are maintained in the campus which includes Mango, Tamarind, Anula(avla) and custerred apple
- Scheme of ‘Jalyukta University’ to combat water scarcity by creating 17 number of bandharas.
- Capacity of Seven water storage tanks has been increased (Existing capacity is 10 crore litre) under the scheme of ‘Jalyukta University’. This has help to increase the water table in the university campus as well as nearby area.
- Solar plants are established on the roof of three buildings
- Green lush lawn and garden is nicely maintained in front of main administrative building and many university Departments.
- University is having huge ‘Botanical Garden’ in which various species of plants are maintained.
- University has enlarged the pedestrian-friendly roads in the University Campus.

## Criterion – VII

### 7. Innovations and Best Practices

**7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.**

- Establishment of Bajaj Incubation Center, RUSA Center for Advanced Sensor Technology
- Incubation of 08 number of start-ups through Bajaj Incubation Center
- Commencement of skill based programme (M.Voc in Automobile and Industrial Automation under DDU-KK scheme of UGC)
- E-governance in KRC, Administration, Finance, Examination and all academic activities in the University.
- Strengthening the Internal Quality Assurance Cell for encouraging the quality culture in the University campus
- Centralized admission process for all PG programme in the University Departments and affiliated colleges through Common Entrance Test (CET).
- Budget Provision of seed money for research projects to faculty members of university departments and affiliated colleges.
- Separate budget provision for PG research
- Fellowship of Rs. 6000/- per month from University fund to Ph.D. students belonging to draught affected areas
- Linkages with Industries through Industry Interaction Cell ( UII cell)
- Capacity building through awareness programme for research scholars and faculty members (for innovative research activities) through RUSA Centre for Advanced Sensor Technology
- Enhancements in ICT and Campus Network through University Network and Information Center
- Established IPR cell in the campus under Bajaj Incubation Center
- Implementation of 'Earn and Learn' scheme for all economically under privilege students.
- Commencement of M.A. (Yoga ) course from the Academic Year 2017-18
- Establishment of International Students Hostel

**7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year**

Plan of Action	Action Taken & Achievements
The meeting of IQAC to prepare a strategic plan for the academic year	Strategic plan for academic year was prepared and following action plan was initiated - <ul style="list-style-type: none"><li>• To organize meeting with UG/PG students and research scholars to have their feedback / suggestions</li><li>• To organize meeting with all faculty members of the university campus to have their feedback / suggestions</li></ul>

	To ensure the quality in teaching, learning process and research & extension, various committees were constituted and a comprehensive strategic plan was also prepared.
Meeting with UG/ PG students and research scholars to have their expectations on Teaching Learning, Research and Extensions activities.	<p>As per the suggestions from the students following action plan was initiated-</p> <ul style="list-style-type: none"> <li>• In order to expose the students to the latest development in the concerned subject, separate budget was allocated to all the departments to organized at least one National Conference.</li> <li>• All Heads of the Departments were allowed to start value added courses as per the requirements of specific Departments.</li> <li>• University IQAC has conducted several value-added programmes in more than 19 University departments.</li> <li>• More number of students were enrolled under 'Earn and Learn Scheme'.</li> <li>• Heads of the Science Departments were advised to organise Industrial visits and special lectures from Industry experts on various focused areas.</li> <li>• Special programme were organized to motivate the students to apply for various National / International fellowships and also for doing outreach / extension activities. Accordingly 150 Students have got National / International Fellowships ( viz. Erasmus Mundus Fellowship, CSIR-JRF, SRF, Rajeev Gandhi National Fellowship, Maulana Azad National Minority Fellowships etc)</li> </ul>
Meeting with all faculty members to have their feedback / suggestions on Teaching Learning, Research and Extensions activities.	<p>As per the suggestions from the faculty members following actions were executed.</p> <ul style="list-style-type: none"> <li>• Scheme of minor research project / Seed Money (to young faculty members) was continued.</li> <li>• Separate budget (Faculty research) was allocated (as it was in the last year as well) to all university Departments to meet the expenses research to be carried out by faculty members.</li> <li>• Enhancement in the Department budget for laboratory development and maintenance.</li> <li>• Appointment of contributory faculty in the Departments having insufficient teaching staff.</li> <li>• Creation of smart class rooms in some Departments ( Physics, Chemical Technology, Chemistry, Computer Science, Environment Science)</li> </ul>
University-Industry Interaction	<ul style="list-style-type: none"> <li>• Two days Marathwada Accelerator Scale-up Programme was organized to create networking of faculty members with the concerned Industries.</li> </ul>

	<ul style="list-style-type: none"> <li>• More than 150 experts from various Industries from Marathwada Region have participated and 03 MoUs were signed during this interactive session.</li> <li>• Potential Alumni from industrial sectors were identified and organized meetings with them for encouraging them for maximizing the alumni funds</li> </ul>
Enhancing Skill Development activities, Curriculum Revision, setting up new labs, Academic Enhancement, Overall development of students, Mentoring of students, Cultural Activities	<p>Overwhelming active participation and skill enhancement of students in various events like -</p> <ul style="list-style-type: none"> <li>• University-Level Central Youth festival held on September, 2017 at University campus and 1500 students have participated.</li> <li>• Swachh Bharat Abhiyan under taken throughout the academic year.</li> <li>• Adopted villages namely Georai Kuber, Jawalban and Shivur K. Budruk under NSS and created roads and CCTV facility in the villages.</li> <li>• A State-Level programme “Avhan” (an initiative by NSS) was organized in the University Campus during May 30, 2018 to June 3, 2018 and 2000 students have participated in the event.</li> <li>• Open Day is being celebrated on the eve of University Foundation Day (August 23). All the laboratories are open for two days (August 22-23) for all stakeholders of the University.</li> <li>• National Science Day celebrated in University Departments during the last week of February every year. All students of Science Departments have participated.</li> <li>• Student Mentor scheme (Enhancement in students’ performance) exist in all University Departments.</li> </ul>
Special sessions to motivate and encourage faculty members of all university Departments to tap funding from various funding agencies and submission of IPR.	<ul style="list-style-type: none"> <li>• 08 Workshops on Intellectual Property Rights was organized in the Academic Year 2017-18.</li> <li>• Sixteen Provisional Patents filed and 10 Copyrights were received to University credits from Department of Music.</li> <li>• Submitted various proposals under DST-FIST and UGC SAP scheme of DST and UGC</li> <li>• DST-FIST Project sanctioned by DST (Dept of Physics : Rs. 1.15 Cr; Dept of Chemistry : Rs. 1.0 cr).</li> <li>• Department of Statistics is covered under UGC SAP DER -I (2012-17) ( Rs. 0.77 Cr)</li> <li>• An International conference on ‘Development of Marathwada : Opportunities and Challenges’ under UGC scheme of Centre for Potential Excellence (CPEPA) was organized on 15-17 March 2018.</li> </ul>

To further enhance ICT (Smart class rooms, Wi-Fi facility etc) in the University campus	<ul style="list-style-type: none"> <li>University has signed an MoU with Reliance Jio Infocomm Ltd for providing the WiFi facility in the all University Campus. WiFi facility is installed in all the Academic Departments of the University Campus.</li> <li>Govt. of Maharashtra sanctioned DIGITAL STUDIO PROJECT Of 5.25 cr. For Digital HD TV Studio, Digital HD Radio Studio, Digital Print Lab, Multimedia Studio, Animation Studio. Radio &amp; T.V.Studio is ready for operation.</li> <li>State of the Art Multi Media Lab of 22 Apple Computers with software of Film, TV, Radio Editing, Animation, E-learning, Newspaper Design of Adobe is ready.</li> </ul>
Efforts to bring funds from Industries (under CSR scheme) and various funding agencies.	Bajaj Auto Pvt Ltd, Aurangabad has sanctioned an amount of Rs. 1.5 Cr for the construction of building for Bajaj Incubation Centre. Bajaj Incubation Centre Building is now ready-to-use.
To create awareness amongst the research scholars and faculty members of university Departments and affiliated colleges to make use of facilities available in CFART, RUSA Centre for Advanced Sensor Technology and Paul Herbert DNA Barcoding Centre.	<ul style="list-style-type: none"> <li>08 workshops were organized on IPR by various stakeholders of the University for creating awareness for quality research.</li> <li>Rs. 9.29 Lakhs of revenue was generated through consultancy services in 2017-18.</li> </ul>
Addition of more skill development programme	<ul style="list-style-type: none"> <li>Master of Vocation (M. Voc) in Industrial Automation and ( M.Voc) Automobile have been started.</li> <li>Organised five IIRS Outreach programme in Department of CS &amp; IT</li> <li>Awareness programme on Learning Management System (LMS) Moodle was organized by IQAC for all the academic departments of the University.</li> </ul>
To get recognitions for more number of university Departments as a Centre with Potential for Excellence in Particular Areas (CPEPA).	<ul style="list-style-type: none"> <li>University Grants Commission has approved status of Centre with Potential for Excellence in Particular Area (CPEPA) to Department Economics, Department of Sociology and Department of Political Science.</li> <li>The University Grants Commission ( UGC) has sanctioned ₹ 2.50 crore for five years (2016-21) to establish the Centre of Excellence in “Rural Development in Backward Districts of Marathwada” at university campus</li> </ul>
MoUs with various industries and Academic Organisation	<ul style="list-style-type: none"> <li>MoUs with 12 Industries (viz. Narshima Auto Components Pvt Ltd, Scintech Technologies Pvt Ltd, NAC Group of Industries, Reliance Jio Infocomm Limited etc.) 36 Universities/Institutions (Viz. National Taiwan University (Taiwan) Tas Tafe (Tasmania), University of Delgi, Italy and many more)</li> <li>University Signed MoU with Reliance Jio Infocomm Limited for supply and installation of WiFi facility in</li> </ul>

	<p>University Campus.</p> <ul style="list-style-type: none"> <li>• RUSA Centre for Advanced Sensor Technology has signed MoU with Department of Material Science and Engineering, National Taiwan University of Science and Technology, Taipei, Taiwan.</li> </ul>
To make students capable of getting jobs in various fields, to encourage students to appear for the NET/SET exams, to motivate research students to present papers in various National and International Conferences.	103 students from various University Departments have placed in various Industries and 50 students have passed SET / NET / GATE examinations.

### 7.3 Give two Best Practices of the institution

1. Earn and Learn Scheme
2. Promoting Research & Innovation

### 7.4 Contribution to environmental awareness / protection

- Appropriate budget provision by the University for various initiative to make the campus eco-friendly.
- University won first state level award among university from Maharashtra Energy Development Agency (MEDA) in 2017
- University has 400 years old tree in its main administrative building, which significantly is an ancient asset in whole Marathwada region
- 7215 trees are maintained in the campus which includes Mango, Tamarind, Anula(avla) and custerred apple
- Scheme of 'Jalyukta University' to combat water scarcity through 17 well-created bandharas.
- Capacity of Seven water storage tanks has been increased (Existing capacity is 10 crore litre) under the scheme of 'Jalyukta University'. This has help to increase the water table in the university campus as well as nearby area.
- Solar plants are established on the roof of three buildings
- University has a horticulture section having 7215 trees is well maintained.
- Green lush lawn and garden is nicely maintained in front of main administrative building and many university Departments.
- University is having huge 'Botanical Garden' in which various species of plants are maintained. Solar plants established on the roof of three buildings, which generated the more than required electricity for that buildings. Excess electricity is given to MSEB for accumulating points for further use.
- Energy audit of has been done and its recommendations implemented



- Structural audit of all old building has been done
- Tree plantation and protection drive was implemented with the help of NSS camp.
- Distillation water plant on Solar Power
- University has taken well steps regarding waste management by creating 17 pits for the waste recycling

**7.5 Whether environmental audit was conducted?**

Yes

☒

No

☐

**7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)**

**Strengths / Advantageous Aspect :**

- Campus with natural beauty sprawled across 725 acres with a picturesque background
- Catering to socially and economically deprived students providing higher education at affordable cost
- Excellent blend of cutting-edge and traditional academic programme
- Committed and proactive teaching and administrative staff working in 52 departments
- Academic Autonomy to all Departments since 2006-07 with CBCS for all UG and PG programme in the campus since 2011-12.
- OBE ( Outcome Based Education) curriculum for most of the academic programme
- Adequate number of Major Research Projects supported by UGC, DST, DBT, CSIR, DRDO, DAEBRNS, AICTE etc
- Research Centers viz. RUSA- Centre for Advanced Sensor Technology and Paul Herbert Centre for DNA Barcoding & Biodiversity Studies with state-of-the-art infrastructure
- The Bajaj Incubation Centre, Atal Incubation Centre and MSInS Incubation Centre supported by Govt of Maharashtra
- State-of-the-art facilities in the cutting-edge areas in most of the Science Departments
- More than 800 research papers in SCOPUS indexed Journals during last five years
- 16 patents were filed during the last year
- University has 10 copyrights to its credits
- 93 Functional MoUs with national/international research bodies / institutions
- Nodal Centre for EUPHATES ( Erasmus + Mundus) programme of European Universities Dedicated University Industry Interaction Cell ( UIIC), Training and Placement Cell , 'Avishkar' and IPR Cell.
- Ramanujan Geospatial Chair and Maulana Azad Chair to promotes high-end research in specialized areas
- Trend setter in Skill based Education; B.Voc and M. Voc in Industrial Automation and

#### Automobile Technology

- One of the best Knowledge Resource Centre (Central Library) in the country
- 285 state / national awards for sports (including basketball, football, cricket, gymnasium, swimming, tennis, etc.) and cultural activities
- Highest number of Rajiv Gandhi Fellowships and NET JRF qualified candidates
- 'Earn While Learn' Scheme to support economically under privileged students
- Dedicated Centre ( UNIC) for Networking, data management, university website maintenance and IT Management
- Vibrant IQAC Cell
- National Resource Centre (NRC) approved by MHRD for Science & Technology with special emphasis on Computer Science & IT.
- Instituted 13 Study Centres (Chairs) for community engagement programmes
- 50% graduate outcome (As expected by UGC : Quality Mandate)

#### **Weaknesses / Issues:**

- Vacant teaching positions
- Less number of out of state teachers against sanctioned posts
- Limited funding by the non-government sources such as industry, corporate houses, international bodies, endowments
- Less demand ratio for some of the social science programmes
- Limited number of teachers are generating revenue under consultancy
- Limited number of academic Departments using LMS
- Limited financial contribution by Alumni

#### **Opportunities:**

- Expansion of buildings for new Academic Departments and Research Centers at main campus as well satellite campus at Osmanabad
- Improvisation of social and economic status of the socially and economically disadvantaged group of the students through employability focused courses having combination of cutting-edge technology and local needs
- Tapping more funding under various schemes of UGC, DST, CSIR, DRDO, DAE-BRNS, AICTE / Ministry of Environment & Forest, Ministry of Food Technology, MODROBS, ICSSR, UGC-SAP and DST-FIST etc
- Initiation of multidisciplinary academic programme by forming various academic clusters in the University campus

- Seeking grants under the scheme of Centre with Potential for Excellence in Particular Area by forming clusters in the University, based on research strength of various Departments
- Generation of more number of IPR through University students and faculty members
- Tapping funding from national and international funding agencies under various collaborative schemes
- Attracting more number of foreign students for various PG and research programme in the University campus through student exchange programme
- Identification of societal issues and problems in the Industries and encouraging students and faculty members to address these issues through their well-planned research initiatives
- Arranging more number of 'Training of Trainer' program and faculty exchange with Industries
- Entrepreneurship Development
- Generation of revenue through Alumni Association

#### **Challenges:**

- Keeping pace with changing technology and pedagogical innovations in teaching learning process and research
- Timely recruitment of teachers against sanctioned posts
- Attracting faculty from other states for recruitment in the University for various positions ( Professor / Associate Professor / Assistant Professor)
- Attracting students for some of the social science programme
- Attracting students from out of the states and country
- Generating revenue under consultancy and corporate training
- Making 100 % digital university

### **8. Plans of institution for next year**

#### **A. Curricular Aspects**

- Implementation of revised curriculum from academic year 2018-19
- Survey of region cum industry specific demands for identification of gap and to address the same
- Offering of choice for students towards opting either direct job-opportunities or research career through dedicated curriculum

- Enhance entrepreneur acumen of students
- Development of structured mechanism for analysis and requisite action taken based on feedback

#### **B. Teaching-Learning and Evaluation**

- Implementation of revised mechanism (on the basis of identified gaps)
- Reformed pilot initiatives to cater student diversity
- Reframing of teaching –learning process and enrichment of teacher profile/quality
- Innovative evaluation process and measurement of learning outcome

#### **C. Research, Innovations and Extension**

- Research Capacity building
- Expansion of research horizon and quality
- Enrichment of Departmental Infrastructure and Research Support
- Mechanized consultancy activity
- Promotion for Idea generation
- Continuous Outreach activities and inclusive research
- Holistic development of University stakeholders

#### **D. Infrastructure and Learning Resources**

- Creation and Renovation of Physical Facilities
- Digitization of KRC facilities
- Enrichment of e-resources and e-learning environment

#### **E. Student Support and Progression**

- Enrichment of campus facilities
- Assurance of progressive academics
- Enhancement of progression opportunities
- Holistic development of students
- Exercising financial contribution from alumni for academic augmentation

**F. Governance, Leadership and Management**

- Ensuring good governance
- Establishment of 'Equal Opportunity Cell'
- Review of effectiveness of strategic plans and subsequent modifications
- Identification of financial resources and effective utilization
- Initiation of quality measures

**G. Institutional Values and Best Practices**

- Initiatives for gender and social equity
- Initiatives for environmental consciousness and sustainability
- Initiatives for enrichment of human values and conscience of ethics

*Name Professor M.D. Shirsat*



*Signature of the Director, IQAC*

*Name Professor B. A. Chopade*



*Signature of the Chairperson, IQAC*

\*\*\*

## **Annexure I**

### **Abbreviations:**

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

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## Annexure II: Best Practises

### Section A:

**1. Title of the Practise:**

Earn and Learn Scheme

**2. Goal:**

To provide financial assistance (while learning) to the students who are from economically disadvantaged class, and have good academic records but cannot afford higher education; To involve the students in academic, administrative and other activities of the institution; To prevent students from unnecessary distractions and engage them in meaningful, positive activities.

**3. The Context:**

Marathwada is a considered to be socially and economically deprived region of Maharashtra. Majority of the people in this region have agriculture as main source of income. Marathwada has been a drought-prone region, since scores of decades. Almost every twenty years, a major drought has hit the region, while drought alike situation is prevailing throughout. Because of low income livelihood youth education becomes the biggest challenge for people dwelling in this region. Students pursuing higher education experiences financial hurdles which hampers their academic progress. Dr. Babasaheb Ambedkar Marathwada University has one of its mission to provide a platform for socially and economically deprived class of the students. Therefore, this University has devised the 'Earn and Learn' scheme to provide support to students to cater their requirements while learning.

**4. The Practise:** University initiated this scheme from 1979. University has adopted highly transparent mechanism to shortlist the students for this scheme. Students have to submit their application along with income certificate of their parents in the respective departments in response to the notification issued by Director, Students Development. The received applications are reviewed by the committee constituted by the respective Heads of the Departments. The students have to appear for the interface meeting (interview) with the committee and based on the academic performance and economical background, the students are shortlisted for the scheme. The students shortlisted and enrolled under the scheme are given the following types of assignments such as – clerical work in the office and library, technical work in the laboratory etc. The students are also volunteering their services for maintaining the university campus neat and clean, maintaining the Gardens and lawns in the campus, taking care of plants and trees etc. Students are spending couple of hours on the field almost every day for above mentioned activities. Moreover, while assigning the responsibility, university ensures equal distribution of work among the enrolled students so that everybody gets an opportunity to enhance their skills. Students working under this scheme are paid an honorarium of Rs. 2000/- per month. Attendance records of all enrolled students is strictly maintained by the supervisors on the field and Heads of the respective departments / section and payment is made as per the attendance

sheet. The students are advised to open bank account and payments are made through online process.

5. **Evidences of Success:** Approximately 1,17,228 students have been benefitted till date since inception of this scheme. Some of the key features and significant achievement of this scheme are listed below- 75% Rural Students including boys and girls are pursuing their education in the university and this provides status of rural university to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad; Most of the needy students in the campus are being benefitted with scheme; Students work at ground / field for two hours in the morning for maintaining cleanliness, manufacturing items like envelopes, files, folders, which are being used at all the administrative and academic sections of the university; M.Phil and Ph.D Students working under this scheme are also working the academic departments to assist Administrative staff; Approximately 77% Students working under this scheme are wards of parents under BPL category; Approximately 60% of Students in this scheme are enrolled under the faculty of Social Science; Approximately 70% students would not have completed their education without getting assistance from the scheme; 387 Affiliated Colleges are also benefitted by this scheme. University pays Rs. 5,000/- to each of the 387 colleges and college adds the same amount. Affiliated colleges supports five students every year under this scheme; Students experience a concept of self-reliance and understand the concept of entrepreneurship to initiate their own start-up in the future; Through this scheme, students have planted 5000 trees in the university campus; Under the scheme of Water Conservation –Jalyukta Shivar ( Jalyukta Vidyapeeth – A Water University) have constructed two water storage tanks which help us to maintain green lush university campus. With this initiative, 10,000 liters of water has been conserved per year till date; Students have planted more than 7000 trees under commercial Horticultural project on 150 acres of barren land of university; The university has constructed and separate hostels for male students enrolled under Earn and Learn scheme which is being provided to the students at subsidized rate.
6. **Problems encountered and Resources Required:** One of the major challenges /problems the university have encountered is continuous demand from the students to increase their monthly remuneration due to elevation in the expenses of living cost. Since, huge number of students are participating in this scheme it becomes challenging for the university to fulfil this demand of the students. However, very recently university has increase their monthly remuneration to Rs. 2,000/- (which was Rs 13,00 earlier). University is exploring possibility for tapping funds from various Industries under CSR so that their monthly remuneration can be increased further to meet their monthly expenses.



## Section B:

### 1. Title of the Practise:

Promoting Research & Innovation

### 2. Goal:

To nurture innovative ideas and provide platform for all research scholars and faculty members for innovative research.

### 3. The Context:

Many research scholars and faculty members have innovative ideas, However, due lack exposure, guidance and access to the state-of-the-art faculties, ideas are not being converted into innovation and laboratory research is not being converted into product. Therefore, in order to address these issues, university has decided to establish Centre of Excellence in some identified areas and Incubation centre in the University campus.

### 4. The Practise:

- University has Established Jamnalal Bajaj Incubation Centre with the help of Bajaj Auto Pvt Ltd, Aurangabad
- Bajaj Auto Pvt Ltd, Aurangabad has provided grants for the Construction of the Building of Incubation Centre.
- So far five incubates have been incubated and one spinoff have been initiated.
- Under Jamnalal Bajaj Incubation Centre, a separate IPR Cell is established.
- Several IPR workshops have been organized for creating IPR awareness among the research scholars and faculty members.
- University provides incentives in terms research grants for the teachers who have received National / International recognition.
- University has established RUSA Centre for Advanced Sensor Technology ( with help of RUSA Grants) and Paul Herbert DNA Barcoding Centre for Biodiversity Study
- RUSA Centre for Advanced Sensor Technology and Paul Herbert DNA Barcoding Centre for Biodiversity Studies have organized several familiarization workshops and hands-on training for research scholars and faculty members and provided access to all state-of-the-art facilities in the Centre.
- Approximately 50 collaborative proposals (from various university Departments and Affiliated Colleges) have been undertaken.
- Several Faculties are doing socially relevant research e.g. Impact of raring Honey bee and Crop Production.

### 5. Evidences of Success:

- Bajaj Auto Pvt Ltd, Aurangabad has provided grants for the Construction of the Building of Incubation Centre and building of Bajaj Incubation Centre is ready-to-use.
- So far 8 start-ups have been incubated in the Bajaj Incubation Centre
- 16 patents and have been filed this year by the University faculty.

- Faculty members from various Departments University Department have published more than 600 research papers in SCOPUS and Indian Citation indexed Journals during last three years.
- Field weighted Citation Impact of the University is at par world standard.
- Citations per publications is at par with world standard.
- Faculty members from Social Science and Humanity have published many Books with National and International Publications
- Research Scholars and Faculty members from Science faculty have indigenously developed equipments which are being used for research purpose.
- **Evidence of Success of RUSA Centre for Advanced Sensor Technology**
  - The state-of-the-art facilities have been created (viz. Mask Aligner, Chemical Vapor Deposition System, E-beam & Thermal Evaporator, Electrochemical Work Station, Probe Station, Wire Bonder, Keithley Semiconductor Parameter Analyzer, X-ray Diffractometer, Atomic Force Microscope, Scanning Tunneling Microscope etc) which are unique of its kind in entire state.
  - So far 13 familiarization programme, 05 hands-on training and 08 IPR workshops have been organized by the Centre and approximately 2500 students and faculty members across the state have been trained.
  - Approximately 100 undergraduate students have been motivated for towards research.
  - So far 20 collaborative proposals from various University Departments and affiliated Colleges have been undertaken by the centre and 25 SCOPUS indexed journals during last academic year.
  - This Centre has developed a two prototype Sensor devices viz 'Amo Safe' and 'Quadra Analyte Sensing Gadget' for detection CO, CO<sub>2</sub>, NH<sub>3</sub>, BTEX
  - The cost of both Devices is ten time lower than commercially available devices.
  - Many Industries are approaching this center for Expert Suggestions / Solutions
- **Evidence of Success of Paul Herbert DNA Barcoding Centre for Biodiversity Studies**
  - The state-of-the art facilities have been created (viz. next generation genomics facility) at DNA Barcoding Centre which are unique of its kind in entire state.
  - Students and faculty members are sharing this infrastructure across the country.
  - It matter of proud to mention that this centre generates almost 80% of DNA barcode records that are available in our BOLD library from India.
  - This Centre is having two sequencing platforms and 7 multiple ancillary facilities to accommodate several researchers in India as well as South East Asian countries.
  - This has conducted 27 national level seminars on DNA bar coding and so far around 1000 researchers have been trained across the country.
  - All these trainees became an integral part of this center and at present this centre is having 29 collaborative projects throughout India.
  - This Centre is regularly helping forest department and police department for resolving wildlife forensics cases.
  - Several novel projects are in pipelines and few are going on having DNA barcode applications in understanding ecological systems

## **6. Problems encountered and Resources Required:**

Although we could generate significant research output, these centres required dedicated more number manpower (Scientist category) so that research output can be further accelerated

## **7. Notes:**

This is unique initiative to nurture innovative ideas and promote research culture across the University in cutting-edge areas

## Annexure – III : Distinctive Feature

### Section A:

#### 7. Title of the Practise:

Imparting Skill Based Education at Deen Dayal Upadhyay KAUSHAL Kendra

#### 8. Goal:

To generate industry ready manpower and entrepreneur

#### 9. The Context:

- In the year 2012, Dr. Babasaheb Ambedkar Marathwada University had organized a meeting of Academic and Industry Experts to discuss various issues of employability, entrepreneurship.
- Need of a dedicated skill based training program/institute was unanimously accepted, it was decided that such a program should be categorically different than conventional vocational training.
- Accordingly in the year 2013 Centre for Vocational Education and Training (CVET) was established in the campus of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad with Bachelor in Vocational Science (B.VSc. ) ( with two trades ) - (i) Industrial Automation and (ii) Travel and Tourism.
- This program is pioneering in the country even before University Grants Commission (UGC), India, officially introduced such program in the academic scenario.
- In 2014, UGC has announced the scheme of B.Voc. This university has submitted proposal for B.Voc in Automobile Technology and Industrial Automaton and it was sanctioned ( Grants of ₹ 1.67 Cr).
- In 2015, UGC has sanctioned the scheme of Deen Dayal Upadhyay KAUSHAL Kendra with grants of ₹ 4.00 Cr for strengthening existing B. Voc courses and commencement of M. Voc. in Automobile Technology and Industrial Automation.

#### 10. The Practise:

As per the survey made by India Today, In India, we have more than 6000 engineering colleges which have the capacity to admit almost 2 million students. A skill gap study by NSDC over 2010-2014, indicates that there will be an additional net incremental requirement of 109.73 million skilled manpower by 2022. However, almost 65-70% of the fresh engineers graduating in the core branches of engineering are not found 'job ready' by the industry.

Moreover, Aurangabad being a Automobile hub and no industry can survive without automation, university has decided to start B. Voc. and M. Voc. courses in Automobile Technology and Industrial Automation since 2013 under the umbrella of Deen Dayal Upadhyay KAUSHAL Kendra ( DDUKK). At present this Centre has become one of the pioneering Centres for imparting skill based Education in the area of Automobile Technology and Industrial Automation.

- In the year 2013, an independent Ad-Hoc Board of Studies for Vocational Courses was established in the University to identify the industry requirements and framing of a timely, object oriented curriculum.
- Academic programs in progress - (i) Diploma in Vocation (D. Voc) in Industrial Automation (One year program with multiple exit) (ii) Bachelor in Vocation (B. Voc) in Industrial Automation, Automobile (Three Year Degree program with multiple exit) (iii) Master in Vocation (M.Voc) in Industrial Automation and Automobile (Two Year Master Degree program with multiple exit: in operation from 2016-17)
- ‘Gain Skills at Affordable Cost’ is the Tag line of the Centre.
- State-of-the-Art facility in the area Industrial Automation and Automobile Technology at par with IITs
- 95 % enrolled students are from economically and socially disadvantaged category.
- Industry-specific skills to enhance employability.
- Occupational skills to enable entrepreneurial initiatives.
- Vertical mobility for students clearing 10+2 with vocational subjects.
- Curriculum focus on work-readiness skills.
- Industry involvement in development of need-based curriculum.
- Three Tier examination scheme (Assessment by Industry, University and NSDC).
- Open laboratory practice (laboratory access to the students for 24 X 7 ).
- The curriculum is based on Choice based Credit System (CBCS) as per UGC guidelines.
- The curriculum is designed as per the need of Industries and aligned with NSDC and NSQF.
- The curriculum has both general Education Component ( 40 %) and Skill component ( 60 %) which increases the employability of the students
- The curriculum is fine tuned in the beginning of every semester in consultation with Industries.
- MoUs with 45 Industries in and around Aurangabad for curriculum designing, in-plant training and placement.
- MoUs with International Vocational Education Training Institutions viz. TAFE Tasmania, Australia and Tokushima University Japan.
- The experts from Industries are actively involved in teaching, training and evaluation.
- Enthusiastic and experienced teachers for grooming the students. Student – mentor scheme is an integral part of the system.
- Mandatory in-plant-training in each year.
- 20 % Continuous Internal Evaluation and 80 % external evaluation.
- Multiple exit Programme ( After Six Months : Certificate ; After One Year : One Year Diploma; After Two Years : Advanced Diploma and After Three Years : B. Voc Degree

## 11. Evidences of Success:

- In 2014, University received a generous grant of Rs 1.67 crores from the University Grants Commission to start Bachelor in Vocation (B. Voc) program in the Trades – (i) Industrial Automation (ii) Automobile
- In 2015, the University was given green signal to start 'Deen Dayal Upadhyay KAUSHAL Kendra' by the UGC with funding of Rs 4.00 crore.
- The University came in the annals of history as it arose among the first batch of institutions to start Masters in Vocation ( M. Voc; in Industrial Automation and Automobile trades) program in the country.
- The University was permitted to start 'Community College' by the UGC. A fund of ₹ 0.87 crore was sanctioned.
- All pass out students (at respective exit) have been placed in various Industries.
- One student became entrepreneur.
- Centre has initiated many short term programmes for school dropouts, and Engineering / Science Graduates and earned adequate revenue to address the issue of financial sustainability.

## 12. Problems encountered and Resources Required:

- Recently UGC has announced to stop funding of all existing Skill Based Programme across the country from March 2019.
- This university is mainly catering to mainly socially and economically disadvantaged groups of the students. Therefore, tuition fees for B. Voc was Rs 1200/- per year.
- The DDUKK had prepared a plan to become self-sustainable by increasing fees for B.Voc courses ( ₹ 12,000/-) and started short term courses.
- However, students from socially and economically disadvantaged groups finding difficulty to enrol for B. Voc courses.
- Therefore, the Centre needs funding from Government so that skill based education could be provided to needy students at affordable cost.

## 13. Notes:

This is pioneering University to start Skill based programme at Graduate as well Post Graduate level in the area of Automobile Technology and Industrial Automation.

## Annexure – IV : Academic Calendar

S-24 January, 2017 AC after Circulars from Circular No.42

- 16 -

**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY**

**CIRCULAR NO.SU/Academic Calendar/2017-18 Yr./53/2017**

It is hereby inform to all the concerned that, on the recommendation of the Committee the Management Council at its meeting held on 24-04-2017 has accepted the **"Schedule of Terms and Vacations of First and Second Term" for the Academic Year 2017-2018.** The activities and terms and vacations mentioned in the said schedule are to be followed by all the **University Departments, Affiliated Colleges, and Recognised Institutions as per Appendix-'A', 'B', 'C' & 'D' as appended here-with.**

This is effective for the Academic Year 2017-18.

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/ACAD.CAL./2017-18/

Date:- 26-04 -2017.

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748-1247.

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**IN CHARGE OFFICER,**  
**Dr. Babasaheb Ambedkar**  
**Marathwada University.**

***Copy forwarded with compliments for information and necessary action to:-***

- 1] The Heads of All University Departments,  
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- 2] The Director, Dr. Babasaheb Ambedkar Marathwada University,  
Sub-Centre, Osmanabad.
- 3] The Principals, concerned affiliated colleges,  
Dr. Babasaheb Ambedkar Marathwada University.
- 4] The Directors of Recognised Institutions,  
Dr. Babasaheb Ambedkar Marathwada University.
- 5] The Director, Board of Examinations and Evaluation,  
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- 6] The Director, University Network & Information Centre, UNIC, with  
**a request to upload the Academic Calendar on University Website.**
- 7] The Director, D.S.W.,
- 8] The Librarian, University Library,
- 9] The Director, Continuing & Extension Centre, Dr. Babasaheb  
Ambedkar Marathwada University, Aurangabad.
- 10] The Co-ordinator, N.S.S.,
- 11] The Deputy Registrar, Post Graduate Section,  
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- 12] The Public Relation Officer,  
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- 13] The Section Officer, Academic Section,  
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

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***Copy forwarded for information to :-***

1. All Heads of Sections,
2. The P.A. to the Vice-Chancellor,
3. The P.A. to the Registrar,
4. The Record Keeper,
- Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

***Copy forwarded with compliments to :-***

1. The N.C.C. Officer, Cantonment, Aurangabad,
2. The Joint Director, Higher Education, Station Road, Aurangabad.
3. The Secretary, S.S.C. Board, Rly. Stn. Road, Aurangabad,
4. The Education Officers, Zilla Parishad,  
Aurangabad/Beed/Jalna/Osmanabad.
5. The Director, Maharashtra Knowledge Corporation Ltd., I.C.C. Trade  
Tower, 5<sup>th</sup> Floor, 'A' Wing, Senapati Bapat Road, Pune.

**==\*\*\*==**

S\*/-260417/-



**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY****Academic Calendar for the Year 2017-2018****for Affiliated Colleges and Recognized Institutions**

<b>First Term</b>		
1	First Term (Both days inclusive)	: 15-06-2017 to 14-10-2017
2	Opening of the All Affiliated Colleges and Recognized Institutions	: 15-06-2017
3	Admission of P.G. Courses [ III Semester ] & U.G. Classes [ III & V Semester ]	: 15-06-2017 to 20-06-2017
4	Commencement of P.G. Classes [ III Semester] and U.G. Classes [ III & V Semester ]	: 21-06-2017
5	Notification of Common Entrance Test	: --
6	Registration of CET Examination for All Affiliated Colleges and Recognized Institutions	: --
7	Conduction of CET Examination of Affiliated Colleges : P.G. Courses [excluding CET Exam. Conducted by Central Govt. and State Govt.] Complete the admission process	: --
8	Commencement of Classes of First Semester of All Affiliated Colleges and Recognized Institutions	: 21-06-2017
9	Submission of Eligibility Forms by the students at College and Recognized Institutions	: 20-08-2017
10	Welcome address and introduction of C.B.C. & G.S.	: 30-06-2017
11	Last date for submission of Eligibility Forms by All Affiliated Colleges and Recognized Institutions to the University	: 31-08-2017
12	<b>Winter Vacation</b> <b>(Both days inclusive)</b>	: 16-10-2017 to 05-11-2017
13	Re-opening of All Affiliated Colleges and Recognized Institutions	: 06-11-2017
14	Term End Examination	: 06-11-2017 to 01-12-2017

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<b>Second Term</b>			
15	Second Term (Effective Teaching Period) (Both days inclusive)	:	02-12-2017 to 21-03-2018
16	Commencement of Classes for all courses	:	02-12-2017
17	Declaration of Result First Term End Examination	:	10-01-2018
18	Declaration of Term end Examination Programme	:	22-03-2018 to 20-04-2018
19	Declaration of the Result of Second Term end Examination	:	01-06-2018
20	Summer Vacation (Both days inclusive)	:	02-05-2018 to 14-06-2018
21	As per the Provisions of Ordinance-169 first Opening day for the Academic Year 2018-2019	:	15 <sup>th</sup> June, 2018

N.B.:	1	All the Principals of all Affiliated Colleges are hereby informed that they should conduct CET Examination at their own level as per aforesaid schedule and complete the admission process as per prescribed schedule.
	i]	As per Choice Based Credit and Grading System Pattern, it is mandatory to admit the students through CET by declaring the syllabi and conduction of CET Programme well in advance.
	ii]	While preparing General merit list for the P.G admissions 50% Weightage of CET and 50% Weightage of U.G. qualifying examination considered and follow the reservation and admission policy as per Govt. of Maharashtra and University Norms.
	2	Circular of Public Holidays is enclosed herewith for your information & necessary action.
	3	Student's Centric activities shall be conducted on every Second & Fourth Saturday by the Affiliated colleges.
	4	All affiliated colleges should organize Conferences, Workshops, Symposiums etc. before February-2018.
	5	On the basis of this Academic Calendar every affiliated college shall prepare detail academic calendar for the year 2017-2018 and upload it on college website. One copy of the same may be forwarded to the In-Charge Officer, Dr. Babasaheb Ambedkar Marathwada University office.

**Appendix-"B"**

**Dr. Babasaheb Ambedkar Marathwada University**  
**ACADEMIC CALAENDAR FOR THE YEAR 2017-2018**  
**University & Sub-Center, Osmanabad**

<b>Sr. No.</b>	<b>First Term</b>	
1.	<b>CET Examination for PG Courses and declaration of Result</b>	: Last Week of May/ Second Week of June
2.	<b>Academic session begins on</b>	: 15-06-2017
3.	<b>Admission based on CET results</b>	: 25-06-2017 to 10-07-2017
4.	<b>Admission to Hostels for Admitted Students</b>	: 25.06.2017 to 10-07-2017
5.	<b>Commencement of 3<sup>rd</sup> [III Semester]</b>	: 23-06-2017
6.	<b>Admission to Service Course</b>	: 23-06-2017 to 30-07-2017
7.	<b>Commencement of 1<sup>st</sup> Semester</b>	: 11-07-2017
8.	<b>Eligibility form Submission</b>	: 01-07-2017 to 20-07-2017
9.	<b>Vice-Chancellor address to admitted students</b>	: 16-07-2017
10.	<b>University Open Day Celebration</b>	: 22-08-2017 and 23-08-2017
11.	<b>Weekly Internal examination (As Part of Comprehensive Assessment)</b>	: Every Saturday of a Week
12.	<b>Service Courses (Under Open Elective) Examination</b>	: 16-11-2017 As per Guidance from COE
13.	<b>Final term and Examination &amp; Declaration of Result</b>	: 20-11-2017 to 09-12-2017
14.	<b>Last working Day of First Term</b>	: 11-12-2017
15.	<b>Period of Semester End Vacation (Both days Inclusive)</b>	: 12-12-2017 to 01-01-2018
<b>..2..</b>		

:: 2 ::

Second Term		
16.	<b>Period of Second Term (Both days inclusive)</b>	: 02-01-2018 to 02-05-2018
17.	<b>Commencement of Teaching of Second Term for all courses</b>	: 02-01-2018
18.	<b>Weekly Internal Examination (As Part of Comprehensive Assessment)</b>	: Every Saturday of a week
19.	<b>Service Course</b>	: 13-04-2018
20.	<b>Second Term end Exam.</b>	17-04-2018 to 28-04-2018
21.	<b>Declaration of result &amp; Last Working day</b>	: 30-04-2018
22.	<b>Period of Summer Vacation (Both days Inclusive)</b>	: 03-05-2018 to 14-06-2018

**Appendix-'C'****Terms and Vacations for the Engineering and Technology  
Colleges affiliated to this University****SEMESTER-I :-**

[1] Term start [For S.E., T.E. & B.E.]	:-	03/07/2017
[2] Term start [For F.E. & M.E.]	:-	As per Govt. [DTE] Date
[3] Term End [For S.E., T. E. & B.E. ]	:-	14/10/2017
[4] Term End [For F. E & M. E. ]	:-	05/11/2017
[5] Practical Exam [For S.E., T. E. & B.E. ]	:-	30/10/2017 to 09/11/2017
[6] Exam Starts [For F. E., S.E., T. E. & B.E. ]	:-	13/11/2017 to 02/12/2017

**SEMESTER-II :-**

[1] Term start [For All]	:-	18/12/2017
[2] Term End	:-	31/03/2017
[3] Practical Exam	:-	02/04/2018 to 12/04/2018
[4] Theory Exam Starts and End	:-	16/04/2018 to 05/05/2018



**Appendix--“D”**

Sr. No.	Annual Planning	Date
१	Opening / Staff Meeting	१५/०६/२०१७
२	रमजान ईद	२६/०६/२०१७
३	अण्णाभाऊ साठे जयंती	०१/०८/२०१७
४	स्वातंत्र्य दिन	१५/०८/२०१७
५	पारसी नव वर्षदिन	१७/०८/२०१७
६	Open Day	२२ & २३/०८/२०१७
७	विद्यापीठ वर्धापन दिन	२३/०८/२०१७
८	गणेश चतुर्थी	२५/०८/२०१७
९	बकरी ईद	०२/०९/२०१७
१०	मराठवाडा मुक्ती संग्राम दिन	१७/०९/२०१७
११	महात्मा गांधी जयंती	०२/१०/२०१७
१२	दसरा (विजया दशमी)	३०/१०/२०१७
१३	मोहर्रम	०१/१०/२०१७
१४	दिपावली (लक्ष्मीपूजन)	१९/१०/२०१७
१५	दिपावली (बलि प्रतिपदा)	२०/१०/२०१७
१६	भाऊबीज	२१/१०/२०१७
१७	गुरु नानक जयंती	०४/११/२०१७
१८	ईद-ए-मिलाद	०१/१२/२०१७
१९	आविष्कार	डिसेंबर २०१७ चा तिसरा आठवडा
२०	ख्रिसमस (नाताळ)	२५/१२/२०१७
२१	सावित्रीबाई फुले जयंती	०३/०१/२०१८
२२	नामविस्तार दिन	१४/०१/२०१८
२३	प्रजास्ताक दिन	२६/०१/२०१८
२४	छत्रपती शिवाजी महाराज जयंती	१९/०२/२०१८
२५	विज्ञान दिवस	२८/०२/२०१८
२६	महाशिवरात्री	२४/०२/२०१८
२७	धुलिवंदन	०२/०३/२०१८
२८	गुढी पाडवा	१८/०३/२०१८
२९	गुड फ्रायडे (उत्तम शुक्रवार)	३०/०३/२०१८
३०	महात्मा ज्योतीबा फुले जयंती	११/०४/२०१८
३१	डॉ. बाबासाहेब आंबेडकर जयंती	१४/०४/२०१८
३२	महाराष्ट्र दिन	०१/०५/२०१८

*Note :- All National days, Festivals Birth & Death Anniversary of National leaders arrange and celebrate as per Govt. G.R. Circular and University Circulars without disturbing Teaching programme College may arrange Cultural Programmes, Sports and NSS activities and important functions and special days in the colleges. Colleges may prepare their own academic calendar for this purpose.*

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स्थापना वर्ष : १९५८

**डॉ. बाबासाहेब आंबेडकर****मराठवाडा विद्यापीठ**

औरंगाबाद- 431 004, महाराष्ट्र, भारत

नेक समितीतर्फे 'अ' दर्जा प्राप्त

Office : Syllabus Section

कार्यालय :: अभ्यासक्रम विभाग ::

संदर्भ क्र. /अभ्यासक्रम विभाग/ २०१७/ 1248-1647 .

दि. २६-०४-२०१७.

प्रति,

मा. प्राचार्य/संचालक,

सर्व संलग्नीत महाविद्यालये/संस्था,

डॉ. बाबासाहेब आंबेडकर

मराठवाडा विद्यापीठ,

औरंगाबाद.

**विषय:-** शैक्षणिक वर्ष २०१७-१८ च्या वार्षिक दिनदर्शिकेबाबत.

संदर्भ:- या कार्यालयाचे परिपत्रक क्र. Circular No. SU/Academic

Calendar/२०१७-१८ Yr./५३/२०१७/७४८-१२४७ Date: २६-०४-२०१७

महोदय,

उपरोक्त विषयी संदर्भीय पत्राच्या अनुषंगाने आपणास कळविण्यात येते की, संदर्भीय

पत्रानुसार सर्व संलग्नीत महाविद्यालये/संस्था करीता शैक्षणिक वर्ष २०१७-१८ साठीची वार्षिक

दिनदर्शिका तयार करण्यात आली असून सदर दिनदर्शिकेतील परिशिष्ट अ मधील अनुक्रमांक

५ ते ७ वरील मुद्द्यांची तारीख स्वतंत्ररीत्या कळविण्यात येईल.

कृपया याची नोंद घ्यावी.

प्रभारी अधिकारी

डॉ. बाबासाहेब आंबेडकर

मराठवाडा विद्यापीठ