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

Annual Quality Assurance Report (AQAR) of the IQAC
Academic Year: 2016-17
(July 1, 2016 to June 30, 2017)

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
> bachopade@gmail.com

Contact Nos.

> 0240-2403112

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://www.bamu.ac.in/iqac/aqar_2016_17.pdf

1.6 Accreditation Details

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

1.7 Date of Establishment of IQAC: **DD/MM/YYYY**   24-03-2003

1.8 AQAR for the year   2016-17

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

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		DST -FIST	✓

UGC-Special Assistance Programme	✓	UGC-SAP	✓

UGC-Innovative PG programmes	✓	Any other (*Specify*)	RUSA Technology Development Center, GMNIRD (Centre for Rural Development)

UGC-COP Programmes	✓

2. IQAC Composition and Activities

2.1 No. of Teachers   10

2.2 No. of Administrative/Technical staff   10

2.3 No. of students   1

2.4 No. of Management representatives   1

2.5 No. of Alumni   1

2. 6 No. of any other stakeholder and

**   community representatives**   2

2.7 No. of Employers/ Industrialists   2

2.8 No. of other External Experts   1

2.9 Total No. of members   28

2.10 No. of IQAC meetings held   12

2.11 No. of meetings with various stakeholders: No.   12   Faculty   5

Non-Teaching Staff Students   2   Alumni   2   Others   3

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

If yes, mention the amount   NA

2.13 Seminars and Conferences (only quality related)

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

Total Nos. | 16 | International | 0 | National | 1 | State | 1 | Institution Level | 14

(ii) Themes

- Workshop on "Implementation of Maharashtra Public Universities Act 2016" for university and affiliated college teachers in collaboration with the Directorate of Higher Education, Pune (Organized on 5 th April, 2016. Participants 760)
- Workshops on Intellectual property right (IPR) (December 2, 2016, Dec 30, 2016, Jan 31, 2017 and March 14-15, 2017)
- Workshop on Preparation of National Institutional Ranking framework-2017((Organized on Sep16,2016 Participants:72)
- Workshop on Quality Indicator Framework(QIF) (Organized on April 13, April 16 & May 02, 2017)
- Workshop on Drafting of Research Proposals (December 03, 2016 and February 07, 2017)
- Familiarization workshop on Research Opportunities (March 7 and April 25, 2017)

2.14 Significant Activities and contributions made by IQAC

- 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
- 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' for promotion research.
- Efforts have been initiated to convert existing curriculum of all UG and PG programme (University Campus) into outcome based curriculum.
- Efforts have been initiated to create separate feedback portal (for all stakeholders) on University website.
- 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)
- Two days University-Industry Interaction Summit-2016 was organized during December 20-21, 2016 and 240 Participants have attended to create networking of faculty members with concerned Industries and to initiate efforts for making world Class University (December 2016). Total 98 experts from various Industries from Marathwada Region have participated and 10 MoUs were signed during the summit. On this occasion, Corporate excellence award was given to 5 leading industrialist who have contributed significantly for overall development of Marathwada (Names of the awardees) (*Mr Anurang Jain,* Managing Director of the Endurance Technologies Ltd, *Mr. Srikant Badwe,* Chairman, Badve Industries Ltd, *Mr. Klauss Endress,* President, Endress+Hauser Ltd, *Mr. Rishi Bagla,* Chairman, Bagla Group, *Mr Ramchandra Bhogale*, Chairman, Applied

Innovation & Technology Group)

- All Faculty members are encouraged to develop e-content for teaching under MOOC.
- Participated in National Institutional Ranking Framework (NIRF) 2017 and secured rank band between 101-150.
- Establishment of new Departments (Department of Archaeology: MA (Archaeology), Department of Electronics (M. Sc. Electronics).
- Commencement of new Courses M. Voc (Industrial Automation) and M. Voc (Automobile) under Deen Dayal Upadhyay KAUSHAL Kendra (DDUKK).
- Organization of workshops on on "Implementation of Maharashtra Public Universities Act 2016" (On 5th April, 2016, Participants:760) for University and affiliated College teachers in collaboration with the Directorate of Higher Education, Pune and 780 participants attended the workshop.
- Organization of IPR On 2nd December , 65 University faculty members have attended workshops (Patents, Copyright, Trademarks etc)
- Awareness programme to publish research papers in indexed Journal (SCOPUS / Web of Science, Indian Citation Index) held on September 21,2016
- Awareness Programme for utilization of e-resources of Central Library of the University conducted on May 31,2017
- Training on cyber security conducted in collaboration with Quick Heal, Pune during October 1-30, 2016 and 65,000 students have participated from various affiliated colleges and University Departments.
- Special Training programme for technical staff (Oracle Application) during 21st June, 2016 to 05th July, 2016.
- Learning Management System (MOODLE) implemented in University Departments.
- Special programme were organized to motivate the students to apply for various National / International fellowships and also for doing outreach / extension activities. Accordingly 221 Students have got National/ International Fellowships (viz. Erasmus Mundus Fellowship, CSIR-JRF, SRF, Rajeev Gandhi National Fellowship, Maulana Azad National Minority Fellowships etc)
- Preparation of systematic plan to address all maintenance related issues (which includes Dept. buildings, common utilities etc.).
- Foreign student cell / International Student Cell was advised to organize orientation programme for foreign students in the beginning of every academic year
- Director, Sports was advised to organize special sports events for the students of University Campus.
- Alumni Associations (Central and Departmental) were advised to focus on taping of funds from Alumni in the form of donation.
- Strengthening the implementation of E-governance in following 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
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 - • To organize meeting with UG/PG students and research scholars to have their feedback / suggestions • To organize meeting with all faculty members of the university campus to have their feedback / suggestions 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.	As per the suggestions from the students following action plan was initiated-. • In order to expose the students to the latest development in the concerned subject, separate budge was allocated to all the departments to organized at least one National Conference. • All Heads of the Departments were allowed to start value added courses as per the requirements of specific Departments. • More number of students were enrolled under 'Earn and Learn Scheme'. • Heads of the Science Departments were advised to organise Industrial visits and special lectures from Industry experts on various focused areas. • Special programme were organized to motivate the students to apply for various National / International fellowships and also for doing outreach / extension activities. Accordingly 221 Students have got National / International Fellowships (viz. Erasmus Mundus Fellowship, CSIR-JRF, SRF, Rajeev Gandhi National Fellowship, Maulana Azad National Minority Fellowships etc)
Meeting with all faculty members to have their feedback / suggestions on Teaching Learning, Research and Extensions activities.	As per the suggestions from the faculty members following actions were executed. • Scheme of minor research project / Seed Money (to young faculty members) was continued. • 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.
	• Enhancement in the Department budget for laboratory development and other budget head to most of the Departments.
	• Appointment of visiting faculty in the Departments having insufficient teaching staff.
	• Establishment of smart class rooms in some Departments (Physics, Chemical Technology, Chemistry, Computer Science, Environment Science)
University-Industry Interaction Summit	• Two days University-Industry Interaction Summit-2016 (December 20-21, 2016) was organized to create networking of faculty members with the concerned Industries. • More than 100 experts from various Industries from Marathwada Region have participated and 10 MoUs were signed during this summit. • On this occasion, Corporate Excellence Award was given to 5 leading industrialist who have contributed significantly for overall development of Marathwada Names of the awardees : i) Mr *Anurang Jain,* Managing Director of the Endurance Technologies Ltd ii) *Mr. Srikant Badwe,* Chairman of Badve Industries Ltd, iii) *Mr. Klauss Endress,* President Endress+Hauser Ltd iv) *Mr. Rishi Bagla,* Chairman of Bagla Group v) *Mr Ramchandra Bhogale*, Chairman of Applied Innovation & Technology Group.
Enhancing Skill Development activities, Curriculum Revision, setting up new labs, Academic Enhancement, Overall development of students, Mentoring of students, Cultural Activities	Overwhelming active participation and skill enhancement of students in various events like - • "Indradhanushya State-Level Youth Festival" held during November 5-9, 2016 having participation from 20 Universities (at University campus). • University-Level Central Youth festival held on September 19-22, 2016 at Tuljapur, Dist. Osmanabad and 2500 students have participated. • Swachh Bharat Abhiyan under taken throughout the academic year. • Adopted villages namely Kajala, Georai Kuber, Jawalban and Shivur K. Budruk under NSS. • 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. • National Science Day celebrated in University Departments during the last week of February every

	- year. All students of Science Departments have participated. - Curriculum revision as per need of the hour and as per directions of NSDC (Skill based programme). - Student Mentor scheme (Enhancement in students' performance) exist in all University Departments.
Special sessions to motivate and encourage faculty members of all university Departments to tap funding from various funding agencies and submission of IPR.	- Ten Provisional Patents filed - Submitted various proposals under DST-FIST and UGC SAP scheme of DST and UGC - DST-FIST Project sanctioned by DST (Dept of Physics : ₹ 1.15 Cr; Dept of Chemistry : ₹ 1.0 cr). - Major Research project sanctioned by ICSSR, DST, DBT (Rs.1.10 Cr) - Funds received from RUSA for three projects (₹ 65 Lakhs) and for RUSA Centre for Advanced Sensor Technology:Rs.1.5 Cr (Technology Transfer Centre) - Department of Physics received grants of ₹ 40.00 lakhs under UGC SAP programme out sanctioned amount of ₹ 50.00 lakhs - Department of Statistics is covered under UGC SAP DER -I (2012-17) (₹ 0.77 Cr) - National Seminar on "Confronting Development: Perspectives On Marathwada" (under SAP & UGC CPEPA collaborating three Departments Department of Economics, Department of Political Science & Department of Sociology) conducted during March 09-11, 2017
To further enhance ICT (Smart class rooms, Wi-Fi facility etc) in the University campus	- Wi-Fi facilities cover entire University campus, Smart Class Rooms have been created in various Departments - 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 & T.V.Studio is ready for operation. - 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.
Efforts to bring funds from Industries (under CSR scheme) and various funding agencies.	Bajaj Auto Pvt Ltd, Aurangabad has sanctioned an amount of ₹ 1.5 Cr for the construction of building for Jamnalal Bajaj Incubation Centre
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	09 Familiarization workshops were organized by RUSA Centre for Advanced Sensor Technology to create awareness for Quality Research and about IPR - Around 1000 faculty members (from Faculty members of various Affiliated Colleges) have attended

Advanced Sensor Technology and Jamnalal Bajaj Incubation Centre.	familiarization workshops. • Around 100 faculty members have (from Faculty members of various Affiliated Colleges) attended hands-on training on state-of-the-art facilities at RUSA Centre for Advanced Sensor technology. • 22 collaborative research proposals (from Faculty members of various Affiliated Colleges) and around 20 SCOPUS indexed papers have been published.
Addition of more skill development programme	• Master of Vocation (M. Voc) in Industrial Automation and (M. Voc) Automobile have been started. • Organised five IIRS Outreach programme in Department of CS & IT • Learning Management System (MOODLE) implemented in department of computer science
To get recognitions for more number of university Departments as a Centre with Potential for Excellence in Particular Areas (CPEPA).	• 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. • 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
MoUs with various industries and Academic Organisation	• MoUs with 25 Industries (viz. Endress and Hauser India Pvt. Ltd. (Aurangabad, NAC Group of Industries, Aurangabad, Bagla Group of Industries Aurangabad, Bajaj Auto Pvt Ltd Aurangabad, Endurance Pvt Ltd Aurangabad, Siemens Ltd, Aurangabad, Krish Automation, Aurangabad, Luhance Electronics, Aurangabad, Scientech Pvt Ltd, Indore, Neo Engineers, Pune etc.) • RUSA Centre for Advanced Sensor Technology has signed MoU with Department of Material Science and Engineering, National Taiwan University of Sceince and Technology, Taipei, Taiwan. • Department of Bio-Chemistry Signed MoU with Oklahoma State University Oklahoma, USA. Under this MoU faculties working with American Professors for developing drought resistant plants. • Dr. Babasaheb Ambedkar Marathwada University has signed MoU with महाराष्ट्र राज्य मराठी विश्वकोश निर्मिती मंडळ,महाराष्ट्र शासन for the development of Marathi Vishvakosh in the subject of Information Technology and Computer Science, under the coordination of Dr. R. R. Deshmukh, Professor and Head, Department of Computer Science and IT, Dr. Babasaheb Ambedkar Marathwada University (17th May 2017)

	• Department has signed MoU with I-MADE, Government of India, Department of Telecommunications. The goal of the I-MADE program is to help Indian colleges to digitize their resources and processes to derive better student engagement. It is also designed to provide students training on different aspects of mobile app development in order to encourage entrepreneurship with a goal of building 1 million mobile app start-ups.
Organization of workshop/seminar/conference Research publication/patents academic software	• Organized workshops on IPR jointly by RUSA Centre for Advanced Sensor Technology and IPR cell (December 2, 2016, Dec 30, 2016, Jan 31, 2017 and March 14-15, 2017) • Approximately 255 participants have attended IPR workshops • Ten Provisional Patents Submitted
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.	Approximately 300 students from various University Departments have placed in various Industries, around 65 have passed SET / NET examinations and around 40 students have received Rajiv Gandhi National Fellowship for Ph. D, and Maulana Azad Minority Fellowships.

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 passed

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	61		-	61
PG	59	03	23	59
UG	14	-	06	14
PG Diploma	05	-	05	05
Advanced Diploma	03	-	01	03
Diploma	07	-	03	07
Certificate	07	02	02	07
Others	18	-	08	18
Total	174	05	48	174

Interdisciplinary	36	02	-	36
Innovative	10	02	-	10

1.2 (i) Flexibility of the Curriculum: CBCS, Core, Elective option, Open options
   (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	174
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-**
> - 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 2016-17 (June 2016) and approximately 25 % weightage is given for research component.
> - 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 "Indian Constitution: Theoretical Foundation & Legacy" for all programme as a Mandatory course.

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

- Department of Electronics (M. Sc. Electronics)
- M.Voc : In Automobile Technology and Industrial Automation under
   Deen Dayal Upadhyay KAUSHAL Kendra
- Department of Archaeology: M.A. (Archaeology)
- Jamnalal Bajaj Incubation Centre
- RUSA Centre for Advanced Sensor Technology

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
175	119	45	11	00

2.2 No. of permanent faculty with Ph.D.

139

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
0	45	0	35	0	24	-	-	00	104

2.4 No. of Guest, Visiting faculty and Temporary faculty

44   70   54

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	113	135	60
Presented papers	65	86	09
Resource Persons	17	50	17

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

- 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
- 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 journals, monographs.
- Lectures by experts from Industries
- Group discussion, debate on current issue
- Webinars/Seminars on various current issues
- University Industry Interaction Summit to identify gaps
- 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 |

2.10 Average percentage of attendance of students

| 82% |

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	25	0.00	44.00	16.00	12.00	4.00	0.00	16.00	0.00
2.	Botany	M.Sc. Botany	39	0.00	33.33	35.89	12.82	0.00	0.00	0.00	17.94
3.	Chemical Technology	B.Tech Chemical	22	0.00	31.80	27.27	27.27	9.09	4.54	0.00	0.00
4.		M.Tech Pharma	01	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
5.	Chemistry	M.Sc. Chemistry	66	6.06	36.36	33.33	24.25	0.00	0.00	0.00	0.00
6.		M.Sc. (Analytical Chemistry)	22	4.54	27.27	59.90	4.54	0.00	0.00	0.00	0.00
7.	Commerce	M.Com (Commerce)	72	0.00	1.39	11.11	30.56	13.89	6.94	0.00	0.00

8.		MBA (IB)	14	0.00	0.00	0.00	35.71	14.29	21.43	0.00	0.00
9.		DBM	8	0.00	0.00	12.50	25.00	25.00	0.00	0.00	0.00
10.	Computer Science & IT	M.Sc. Computer Science	27	0.00	3.70	22.22	55.5	0.00	0.00	0.00	0.00
11.		M.Sc. Information Technology	14	0.00	21.42	7.14	28.57	7.14	7.14	0.00	0.00
12.		M.Tech	19	0.00	5.26	63.15	21.05	5.26	0.00	0.00	0.00
13.	Dance	BA (Dance)	2	0.00	0.00	0.00	100	0.00	0.00	0.00	0.00
14.	Deen Dayal Upadhyay Kaushal Kendra	B.Voc (Automobile)	6	0.00	0.00	50.00	16.66	16.66	16.66	0.00	0.00
15.		B.Voc (Industrial Automation)	13	0.00	0.00	15.38	15.38	53.84	15.38	0.00	0.00
16.		M.Voc. (Industrial Automation)	This programme was started in 2016-17								
17.		M.Voc. (Automobile)	This programme was started in 2016-17								
18.	Dramatics	BA (Drama)	36	0.00	0.00	5.55	33.33	16.66	19.44	0.00	0.00
19.		Master of Performing Art (MPA)	27	0.00	0.00	0.00	29.62	22.22	0.00	0.00	0.00
20.		Bachelor of Performing Art (BPA)	11	0.00	0.00	0.00	54.54	45.45	0.00	0.00	0.00
21.		Diploma in Yoga	19	0.00	0.00	0.00	26.31	73.68	0.00	0.00	0.00
22.	Economics	MA (Economics)	40	0.00	7.50	10.00	22.50	10.00	15.00	0.00	0.00
23.	Education	M.Ed. (Education)	14	0.00	57.14	42.85	0.00	0.00	0.00	0.00	0.00
24.	Electronics	M.Sc. Electronics	This programme was started in 2016-17								
25.	English	MA (English)	52	0.00	3.85	34.62	25.00	0.00	5.77	0.00	0.00
26.	Environmental Science	M.Sc. (Environmental Science)	22	0.00	13.63	72.72	13.63	0.00	0.00	0.00	0.00
27.	Fine Arts	Master of Fine Arts	13	7.69	30.77	61.54	0.00	0.00	0.00	0.00	0.00
28.		Master of Fine Arts (By Research)	11	0.00	9.09	27.27	27.27	0.00	0.00	0.00	0.00

No.	Department	Programme									
29.		Bachelor of Fine Arts	10	0.00	0.00	10.00	90.00	0.00	0.00	0.00	0.00
30.	Foreign Language	Certificate Course in Foreign Languages (**Four certificate programmes**)	70	10.00	22.80	17.10	12.80	8.57	0.00	2.85	0.00
31.		Diploma Course in Foreign Languages (**Four diploma programmes**)	18	11.11	5.55	22.20	0.00	0.00	0.00	0.00	0.00
32.		Advance Diploma in Foreign Languages (**Two advance diploma programmes**)	8	17.50	25.00	12.50	25.00	0.00	0.00	0.00	0.00
33.	Geography	M.A. (Geography)	48	0.00	4.16	18.75	41.66	18.75	10.41	2.08	0.00
34.	Hindi	MA (Hindi)	14	7.14	0.00	14.28	0.00	42.85	14.28	0.00	21.42
35.	History	MA History	31	0.00	3.23	70.97	19.35	3.23	0.00	0.00	0.00
36.		Certificate Course in MODI Script Studies	16	0.00	0.00	0.00	43.75	12.50	37.50	6.25	0.00
37.		Certificate Course in Museum Studies	7	0.00	0.00	28.57	0.00	42.85	0.00	14.28	0.00
38.	Law	LLM	35	0.00	5.71	34.29	11.43	34.29	5.71	2.86	0.00
39.	Liberal Arts	MA Liberal Arts	13	0.00	30.76	61.53	7.69	0.00	0.00	0.00	0.00
40.	Archaeology	MA Archaeology	This programme started in 2016-17								
41.	Library & Information Science	Mater of Library & Information Science	9	22.22	33.33	44.44	0.00	0.00	0.00	0.00	0.00
42.	Life Long Learning & Adult Educatio	PG-Diploma in Adult Continuing Education &	25	0.00	12.00	48.00	28.00	0.00	0.00	0.00	0.00

	n	Extension									
43.	Manageme nt Science	MBA	97	0.00	9.27	11.34	15.46	16.49	12.37	9.27	0.00
44.		MCA	76	0.00	6.57	22.36	17.1	19.74	9.21	0.00	0.00
45.		MBA-Part Time	8	0.00	0.00	0.00	25	37.5	0.00	0.00	0.00
46.		MBA-Dual	3	0.00	0.00	0.00	33.33	0.00	0.00	0.00	0.00
47.		PG-Diploma in Hospital Administratio n (PGDHAM)	22	0.00	0.00	13.6	9.09	50.00	13.60	0.00	0.00
48.		PG-Diploma in Health Science Management (PGDHSM)	10	0.00	10.00	20.00	60.00	0.00	0.00	0.00	0.00
49.	Marathi	MA (Marathi)	31	0.00	9.6	6.45	35.48	22.56	3.22	0.00	0.00
50.	Mass Communic ation & Journalis m	BA Mass Communicati on & Journalism	20	0.00	0.00	35.00	25.00	10.00	15.00	0.00	0.00
51.		BA International Journalism	19	15.79	31.58	26.32	0.00	5.26	0.00	0.00	21.05
52.		MA Mass Communicati on & Journalism	66	1.52	27.27	39.39	15.15	6.06	4.55	0.00	0.00
53.	Mathema tics	M.Sc. Mathematics	65	1.54	6.15	13.85	7.69	1.54	1.54	1.54	0.00
54.		M.Sc. Applied Mathematics	25	16.00	16.00	16.00	32.00	0.00	16.00	0.00	0.00
55.	Music	BA Music	1	0.00	0.00	100	0.00	0.00	0.00	0.00	0.00
56.		MA Music	5	0.00	60.00	0.00	40.00	0.00	0.00	0.00	0.00
57.	Nanotech nology	M.Sc. Nanotechnol ogy	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
58.	Pali & Buddhism	MA (Pali & Buddhism)	19	0.00	68.42	15.78	10.52	0.00	0.00	0.00	0.00

59.		Certificate Course (Pali & Buddhism) (self-finance)	5	0.00	0.00	0.00	60.00	20.00	0.00	0.00	0.00
60.	Physical Education	M.P. Ed. (Physical Education)	32	0.00	18.75	28.12	28.12	0.00	0.00	0.00	0.00
61.	Physics	M.Sc. (Physics)	56	0.00	21.00	30.00	12.5	3.57	0.00	0.00	0.00
62.	Political Science	MA Political Science	44	0.00	20.45	47.73	9.09	11.36	0.00	0.00	0.00
63.	Printing Technology & Graphics Arts	Bachelor of Printing Technology & Graphic Arts (BPT&GA)	14	7.14	14.28	50	14.28	7.14	0.00	7.17	0.00
64.		Advance Diploma in Printing Technology & Graphic Arts (ADPT&GA)	6	0.00	0.00	16.66	16.66	50	16.66	0.00	0.00
65.	Psychology	MA Psychology	27	5.00	7.00	8.56	41.17	10.52	13.00	0.00	0.00
66.		PG-Diploma in Psychological Counselling	18	3.00	10.00	12.92	63.15	10.78	5.00	5.26	0.00
67.		Certificate Course in Psychological Counselling	31	10.45	20.20	47.00	6.45	0.00	0.00	0.00	0.00
68.	Public Administration	MA Public Administration	7	14.28	14.28	28.57	0.00	0.00	0.00	0.00	0.00
69.	Sanskrit	MA Sanskrit	14	7.14	14.28	14.28	42.85	0.00	0.00	0.00	0.00
70.	Sociology	MA Sociology	13	0.00	7.69	7.69	30.77	0.00	0.00	7.69	0.00
71.	Statistics	M.Sc Statistics	21	0.00	14.28	33.33	23.8	19.04	0.00	0.00	0.00
72.	Tarabai Shinde Women Studies Centre	M.A. (Women Studies) Granted (UGC)	6	0.00	0.00	16.66	33.33	16.66	0.00	0.00	0.00
73.		PG-Certificate Course in Women Studies – Granted (UGC)	20	0.00	15.00	5.00	15.00	20.00	20.00	5.00	0.00

74.	Tourism & Administration	Master of Tourism Administration	7	0.00	28.57	0.00	14.29	0.00	0.00	0.00	0.00
75.	Urdu	MA Urdu	13	0.00	0.00	69.23	7.6	7.6	0.00	0.00	0.00
76.	Zoology	M.Sc. Zoology	69	13.04	24.64	28.99	8.7	1.45	0.00	0.00	0.00
77.	College of Social Work	MSW	36	0.00	16.66	61.11	8.33	0.00	0.00	0.00	0.00
78.	Model College	B.A. (Model College)	20	0.00	25.00	45.00	10.00	5.00	0.00	0.00	0.00
79.		B.Com (Model College)	15	0.00	18.75	25	37.5	0.00	0.00	0.00	0.00
80.		B.Sc (Model College)	This Programme started in 2015-16								

OSMANABAD SUB-CAMPUS

1.	Biotechnology	M. Sc. (Biotechnology)	11	0.00	0.00	72.72	27.27	0.00	0.00	0.00	0.00
2.	Chemistry	M. Sc. (Chemistry)	46	0.00	41.3	39.13	0.00	19.56	0.00	0.00	0.00
3.	Microbiology	M.Sc. Microbiology	26	0.00	7.69	34.61	34.61	0.00	19.23	0.00	0.00
4.	Water & Land Management	M.M.S. (Water and Land Management)	3	0.00	33.00	67.00	0.00	0.00	0.00	0.00	0.00
5.	Education	M.Ed. (Education)	17	17.64	35.29	47.05	0.00	0.00	0.00	0.00	0.00
6.	English	MA English	20	5.00	10.00	45.00	25.00	10.00	0.00	0.00	0.00
7.	Management Science	MBA	5	0.00	0.00	60.00	40.00	0.00	0.00	0.00	0.00
8.		MCA	5	0.00	40.00	20.00	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)

- o Grading and Assessing Student Learning (including appropriate level of assignments, exams, grading standards)
- o Course Management
- o Oversight of Independent Studies, Dissertations etc
- o Support for Student Internships, Experiential Learning, Service Learning
- o Department and Curricular Work (including participation in curriculum revision, departmental efforts to focus on teaching)
- o Advising and Mentoring
- o 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 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

Faculty / Staff Development Programmes	Number of faculty benefitted
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	266	152	-	-
Technical Staff	254	101	-	-

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 2016 to June 2017, seed money (Research Grant) with total outlet of ₹ 9,93,485/- utilized for this purpose.

- A fellowship of ₹ 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 ₹ 95,04,000/- for this purpose.

- Endress+Hauser Scholarship of ₹ 4,25,000/- awarded to 17 students to encourage students in the Area of Automation.

- Exchange Program: **07 faculties and 09 students** visited European 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 10 patents were filed by various faculty members.

- Various activities viz Avishakar Competition, seminars and Industrial lecture series were organized in various university departments.

- All university Departments have Internal Quality Assurance Cell 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.

- UGC-SAP National Seminar on Materials Science, X-Ray and Gamma Rays Spectroscopies 2017 was organized by Department of Physics.

- Three days lecture series arranged on the occasion of 125th Birth Anniversary of Dr. Babasaheb Ambedkar. Various Resource Persons from National Research Institute/Universities had given lecture on various topics of Physics / Nanotechnology.

- Guest Lecture of Dr. Zaheer Ahmed Khan, Scientist, Semiconductor Laboratory, Department of Space, Govt. of India (ISRO) was arranged on the topic "Career Opportunities in ISRO and SPACE Science".

- Department of Physics has organized Special Lecture on 'Table Top Synchrotron' at the occasion of University Foundation Day. Professor Hironari Yamada, Photon Production Limited, Japan had delivered a talk.

- DST fellowships to 05 students : Khillare Kiran R., Lakwal Vijay R., Subugade Sharad , Umesh Y. Wagh, Swami Pavankumar S.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	35	73	17	27
Outlay in ₹ Lakhs	354.24	800.54	299.43	30

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	9	10	2	17
Outlay in ₹ Lakhs	2.40	4.85	2.89	3.00

3.4 Details on research publications

	International	National	Others
Peer Review Journals	386	201	-
Non-Peer Review Journals	5	4	-
e-Journals	47	3	-
Conference proceedings	43	40	-

3.5 Details on Impact factor of publications:

Range [0.2-4.6] Average [2.43] h-index [1-50] Nos. in SCOPUS [**386**]

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	Total grant sanctioned	Received
Major projects	2 to 4	ICHR	4,90,000	90,000
		UGC	1,97,24,765	23,83,476
		ICSSR	75,87,525	17,78,049
		CSIR	7,62,000	73,600
		BRNS	42,23,150	22,75,171
		DST	4,70,49,318	81,36,343
		DBT	41,46,290	4,72,441
		IUAC	5,93,000	92,488
		UGC-DAE	18,87,963	7,99,557
Minor Projects		UGC	2,89,000	2,84,119
Industry sponsored			1,50,00,000	0
Projects sponsored by the University/ College			9,93,485	9,93,485
Students research projects *(other than compulsory by the University)*			Nil	Nil
Any other(Specify)		RUSA (Individual)	65,00,000	65,00,000
		RUSA	6,09,00,000	1,31,00,000
		INCOIS	9,90,000	0
		GOM (FOREST)	3,80,000	0
		GOI-DST-FIST	2,19,00,000	1,23,07,969
		GOM	41,99,000	1,00,000
		ICSSR Conference	4,50,000	0
		DST Inspire	26,00,000	12,96,000
		Other Agencies	43,24,033	13,45,617
		UGC	16,38,39,344	1,66,81,261
		CPEPA	2,50,00,000	70,00,000
		DDU-KK	3,50,00,000	22,39,121
		HRDC	5,31,07,713	1,95,94,713
		UGC-Fellowship	66,75,356	42,35,820
		GOI Fellowship (INSPIRE, CSIR, ICSSR & Others)	1,38,64,637	71,51,497
		University Fellowship	1,58,01,500	1,58,01,500
Total			51,82,78,079	12,47,32,227

3.7 No. of books published   **i) With ISBN No.** [40]   **Chapters in Edited Books** [12]

ii) Without ISBN No. 14

3.8 No. of University Departments receiving funds from

UGC-SAP 05   **CAS** -   **DST-FIST** 03

DPE 01   **DBT Scheme/funds** 02

3.9 For colleges

Autonomy -   CPE -   DBT Star Scheme -

INSPIRE -   CE -   Any Other (specify) -

3.10 Revenue generated through consultancy   1.61 Lakh

3.11 No. of conferences organized by the Institution

Level	International	National	State	University
Number	10	18	10	26
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   60

3.13 No. of collaborations   International 11   National 14   Any other 4

3.14 No. of linkages created during this year   12

3.15 Total budget for research for current year in lakhs:

From funding agency   5182.78   From Management of University/College   18.18

Total   5200.96

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	10
	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
18	15	09	02	12	00	00

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

134

1120

3.19 No. of Ph.D. awarded by faculty from the Institution   609

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF   408   SRF   205   Project Fellows   30   Any other   291

3.21 No. of students Participated in NSS events:

University level   30   State level   12

National level   18   International level   --

3.22 No. of students participated in NCC events:

University level   --   State level   --

National level   --   International level   --

3.23 No. of Awards won in NSS:

University level   --   State level   03

National level   --   International level   --

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   17   Any other   04

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

- University has organised "Indradhanushya State Level Youth Festival" during November 5-9, 2016 and 20 Universities have participated.
- Central Youth Festival (held on September 19-22, 2016 and 2500 students have participated) at Tuljapur, Dist. Osmanabad
- Swachh Bharat Abhiyan throughout the year.
- Adopted villages namely Kajala, Georai Kuber, Jawalban and Shivur K. Budruk
- Workshop on "Farmer Suicide" organized by Board of Students Development on 25-04-2017
- Partition in 'Avahan Camp', 'Prerna Camp' and 'SRD/NRD' by NSS during Augusts 24-28,2016
- Organised lectures on Digital India Innovative in 25 colleges
- Special campus organised at different villages between 10-12-2016 to 25-02-2017
- 70- Preservation of historical places
- 65- cleanness drive at public places from 01-08-2016 to 15-08-2016
- Seminar for Programme Officers and students on farmer suicide – 110 Programme Officers participated
- Collaboration with MTDC, CRT, Aurangabad History Society
- 20000 Tree plantation at Colleges, Dr. BAMU, Aurangabad and adopted villages (01-07-2016 to 25-11-2017)
- Training-of-Teacher for Programme Officer date 13-12-2016 to 17-12-2016
- 45-'Swachh Bharat Pandhrwada' and Rallies were organised to bring awareness amongst the masses date 1 to 15 November 2016
- Workshop on 'Swachh Bharat Abhiyan' 06-08-2017 by NSS
- Health Camp organised and 225 persons examined date. 05/11/2016 to 26/02/2017
- Blood donation camp on June 21, 2017

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	101	10	State Government / UGC	111 Nos
Laboratories	100	14	UGC /	114 Nos

			RUSA	
Seminar Halls	17.00	02	U.G.C.	18.00 Nos
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	143	11		154
Value of the equipment purchased during the year (₹ in Lakhs)	847.12	38.08	UGC,GOI, GOM,GNF	385.20
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

o   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.

o   Connectivity to University network through easy proxy to access e-Journals subscription by University.

4.3 Library services:

	Existing (₹ In Lakh)		Newly added (₹ In Lakh)		Total (₹ In Lakh)	
	No.	Value	No.	Value	No.	Value
Text Books	325410	1290.09	2209	39.99	326267	1299.68
Reference Books						
e-Books	137839	5.64	3000000	Free	3137839	5.64
Print Journals	232	31.19	252	40.69	484	71.88
e-Journals	40890	15.01	Same as last year	Same as last year	40890	15.01
CD & Video	3128	Free	948	Free	4076	Free
Others (specify)	181	0.99	550	0.94	550	1.93
Subscribe Database (IEEE (CS), PNAS, EBSCO, etc.)	-	-	13	74.29	13	74.29
E-Shodhsindhu database	20	Access from UGC INFIBNET	2	Access from UGC INFIBNET	22	Access from UGC INFIBNET

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	1777	152	1651	43	1	79	46	15
Added	55	0	55	0	0	0	0	0
Total	1832	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.)

- Training on Cyber Security conducted by University Industry Interaction Cell in collaboration with Quick Heal, Pune
- Training to Technical Staff of Oracle Application Express in order to upgrade their technical skills
- 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
- Training to students of CSIT regarding awareness of Data Center and its functioning
- Learning Management System (Moodle) by Dept. of Computer Sci. & IT

- 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
- Library Day & Training programme on Awareness of SCOPUS & Indian citation Index was organized on 22nd August 2016 where 134 participants attended
- 'Wachan Prerna Din' organised on 15th October 2016, 96 Participants have attended this workshop.
- One day workshop on origin Lab and End Note Software organized on 17th January 2017, 162 participants have attended this workshop.
- Marathi Wikipedia workshop organized by Marathi department in collaboration of Knowledge Resource Center on 20th January 2017 and 42 participants attended this workshop
- EBSCO database Training Program organized on 24th April 2017
- All the university Departments and administrative building are connected with fibre optic cable.
- Efforts to implement e-governance minimising the paper work

4.6 Amount spent on maintenance in lakhs :

i) **ICT**

256.12

   ii) **Campus Infrastructure and facilities**

3442.18

   iii) **Equipments**

72.21

   iv) **Others**

321.71

Total :

4092.23

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Providing adequate facilities for JRF/SRF/Post Doc in various Departments.
- Head of the Academic Departments were advised to organize remedial coaching, bridge courses and value added courses from current academic year.
- 'One Window System' for foreign students.
- Foreign student cell was advised to organize orientation programme for foreign students in the beginning of every academic year

- Exploring the possibility of having Group Insurance for all students.

- Providing adequate and well maintained facilities like hostel / canteen / medical to all the students.

- Organization of special training / awareness programme to all students to create awareness about National / International fellowships.

- Organization of career counselling workshops for university students (Department-wise).

- Student-mentor system is introduced.

- Regular feedback from the students regarding teaching, curriculum and support services (including Departmental support services, library, ICT facilities, hostels etc.)

- Feedback analysis and action taken is regular activity of IQAC. Accordingly, up-gradation in teaching learning process and support services (including Departmental support services, library, ICT facilities, hostels etc.) is regular activity.

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 adopt 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
446	3434	2631	566

(b) No. of students outside the state

83

(c) No. of international students

96

Men

No	%
63	65.62

Women

No	%
33	34.37

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1590	1354	137	1086	33	4200	2427	1519	101	1612	23	5682

Demand ratio 1:1.4   **Dropout %**: 2%

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

- University has established Pre-IAS Coaching Centre in the year 1981 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 72   SET/SLET 65   GATE 10   CAT 1

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 ₹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.
  o Placement camps in respective Departments
  o Seminars and workshops for students about the emerging trends in Higher Education, job profiles, leadership roles, entrepreneurship, market needs and risks, soft skills.
  o Mock interview sessions in various Departments.
  o Guidance to students regarding preparation of resumes, behavioural skills, interview techniques.
  o Industrial lecture series to make them aware about Industrial opportunities in employment and research.
  o 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

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
45	846	105	237

5.8 Details of gender sensitization programmes

1. Five Gender Sensitization programmes and other issues women have been organized by 'Women Study Centre'
2. Two Gender Sensitization programmes have been organized by 'Vishakha Committee'
3. Two Gender Sensitization programmes have been organized by Department of Sociology

5.9 Students Activities

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

State/ University level | 95 | National level | 28 | International level | -- |

No. of students participated in cultural events

State/ University level | 51 | National level | 47 | International level | -- |

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

Sports : State/ University level | 14 | National level | 02 | International level | -- |

Cultural: State/ University level | 14 | National level | 03 | International level | -- |

5.10 Scholarships and Financial Support

	Number of students	Amount (in ₹)
Financial support from institution	176	95,04,000/-
Financial support from government	2207	2,02,76,730/-
Financial support from other sources	17	4,25,000/-
Number of students who received International/ National recognitions	10	-

5.11   Student organised / initiatives

Fairs   : State/ University level | 2 | National level | -- | International level | -- |

Exhibition: State/ University level | 33 | National level | -- | International level | -- |

5.12   No. of social initiatives undertaken by the students | 10 |

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 :

o   To provide a platform for rural, women, socially disadvantaged and differently-abled groups to achieve Academic Excellence with in-built Employability.

o   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.

o   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.
>
> o Nurturing innovative ideas shaping into products facilitating the spinoff and creating awareness to protect Intellectual Property (IP).
>
> o To adopt a perennial process for bringing in excellence in teaching pedagogy by providing ICT based state-of-the-art infrastructural facilitation.
>
> o To impart value added, culturally rich education by adopting the local to global approach
>
> o To provide an academic corridor for cordial connectivity between the University and its affiliates.
>
> o 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

> - 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 2016-17 (June 2016) and approximately 25 % weightage is given for research component.
> - 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 "Indian Constitution: Theoretical Foundation & Legacy" for all programme as a Mandatory course.

6.3.2 Teaching and Learning

- Various ICT tools have been adopted in teaching –learning process.
- Use of Interactive smart board in 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

- 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 2016 to June 2017, seed money (Research Grant) with total outlet of ₹ 9,93,485/- utilized for this purpose.

- A fellowship of ₹ 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 ₹ 95,04,000/- for this purpose.

- Endress+Hauser Scholarship of ₹ 4,25,000/- awarded to 17 students to encourage students in the Area of Automation.

- Exchange Program: **07 faculties and 09 students** visited European 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 10 patents were filed by various faculty members.

- Various activities viz Avishakar Competition, seminars and Industrial lecture series were organized in various university departments.

- All university Departments have Internal Quality Assurance Cell 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 Departments.

- 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.

- UGC-SAP National Seminar on Materials Science, X-Ray and Gamma Rays Spectroscopies 2017 was organized by Department of Physics.

- Three days lecture series arranged on the occasion of 125th Birth Anniversary of Dr. Babasaheb Ambedkar. Various Resource Persons from National Research Institute/Universities had given lecture on various topics of Physics / Nanotechnology.

- Guest Lecture of Dr. Zaheer Ahmed Khan, Scientist, Semiconductor Laboratory, Department of Space, Govt. of India (ISRO) was arranged on the topic "Career Opportunities in ISRO and SPACE Science".

- Department of Physics has organized Special Lecture on 'Table Top Synchrotron' at the occasion of University Foundation Day. Professor Hironari Yamada, Photon Production Limited, Japan had delivered a talk.

- DST fellowships to 05 students : Khillare Kiran R., Lakwal Vijay R., Subugade Sharad , Umesh Y. Wagh, Swami Pavankumar S.

6.3.5 Library, ICT and physical infrastructure / instrumentation

- Online journals
- Central Facility for Advanced Research & Training
- Fully Computerized Library Facilities / Fully Automated Library
- Subscribe various databases i.e. Fedgate, IEEE, PNAS, Times of India, SRELS, Lexis NEXIS, EBSCO, Scopus
- Access free from E-Shodhsindhu Database
- Well-equipped Data Center
- 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 SystemLicense 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.
- 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

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, 04 orientation, 03 short-term courses and 01 special summer school program.
- University has provided financial support to faculty members of the University Departments and Affiliated Colleges to attend 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 pending.

- However, in order to ensure to ensure hassle free academic ambience, University has appointed the Teaching and Administrative staff from its own funds.

6.3.8 Industry Interaction / Collaboration

- University has established University-Industry Interaction Cell (UII) in the year 2015

- Independent Officer on Special Duty (OSD) is appointed to look after University – Industry Interactions

- Every year, Industry meet is organized to enhance University–Industry Interaction

- So far two University-Industry Interaction summit have been organized by the University, second summit was organized on Dec 20-21, 2016

- 20 MoUs were singed with different Industrial partners during two summits.

- 16 lecture series have been organized by UII cell in collaboration with various Industries.

- M/S Bajaj Auto Pvt Ltd has sanctioned financial assistance of ₹ 1.5 Cr to start University Incubation Centre and released total instalment of ₹ 1 Cr

- Endress+Hauser 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.

- Started honouring industrialist (who have contributed significantly for overall development of the region) with Corporate Excellence Award during University Industry Interaction Summit.

- Dr. Babasaheb Ambedkar Marathwada University has been selected as a Nodal University for group of partner of Indian Universities   for EUPHRATES programme of European Union. University is promoting student and faculty exchange under following programmes-
  - Merging voices consortium
  - Erasmus + Programme, EQASA-CBHE, University of peloponnes, Greece
  - Erasmus + University de Santiago de compostela, Spain
  - Erasmus + Capacity building project, Bulgaria
  - Erasmus + Warsaw University of life science, Poland
  - Erasmus + Cooperation , Russia

- o Horizon 2020 Programme(European Commission)
- o Mevlana Exchange Programme
- o Euraxess ASEAN
- o Beacas Para Italia-Italian Scholarship
- 9 students and 7 faculties have visited European Universities under student and faculty exchange programme

6.3.9 Admission of Students

- Centralized Admission Process for all PG programmes in the University Departments and Affiliated Colleges.(online)

- Online PET examination for Ph.D. Admissions.

- Govt. of Maharashtra and UGC rules and regulations for admission to various programmes (viz. UG, PG, M. Phil and Ph D.) are strictly followed

- Admission notification through university website, national / regional new papers and prospectus

6.4 Welfare schemes for

Teaching	Quarters, Medical Facilities, Loan, Advances, Festival Loan
Non-teaching	Quarters, Medical Facilities, Loan, Advances, Festival Loan
Students	Hostel facilities, Scholarships for meritorious, sports and cultural facilities

6.5 Total corpus fund generated

135Cr

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
Academic	Yes	University Appointed Committee	Yes	University
Administrative	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

- Alumni Association is registered and functional
- Alumni meetings are regularly organized by all Academic Departments of the University.
- University Departments have identified potential alumni in respective departments and arranged their expert lectures.
- Alumni association 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

6.12 Activities and support from the Parent – Teacher Association

- Parent Teachers Meets are arranged by the respective Departments regularly
- Suggestions of the parents regarding curriculum, courses, and infrastructure are considered for improvement in the respective sector

6.13 Development programmes for support staff

- Workshop on State University Act 2016
- Conducted Training/workshop on ISO Certification
- One day workshop on "Professional Ethics" for all non-teaching Staff.
- Various special training programmes viz. Workshop on transparent and hassle free administration', Workshop on RTI' etc are arranged.
- 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 custered apple
- Scheme of 'Jalyukta University' to combat water scarcity.
- 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
- Horticulture garden 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.

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 RUSA Center for Advanced Sensor Technology
- 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.
- Incorporation 25 % research component in curriculum of all PG courses in 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 ₹ 6000/- per month from University fund to Ph.D. students belonging to draught affected areas
- Linkage with Industries through Industry Interaction Cell (UII cell)
- Incubation of incubates in Jamnalal Bajaj Incubation Centre
- 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
- Adopted CBCS pattern in all affiliated colleges for PG Courses
- Established IPR cell in the campus under Jamnalal Bajaj Incubation Centre
- Implementation of 'Earn and Learn' scheme for all economically under privilege students.
- Commencement of M.A. (Yoga) course has been started in the University.

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	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 - - To organize meeting with UG/PG students and research scholars to have their feedback / suggestions - To organize meeting with all faculty members of the university campus to have their feedback / suggestions 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.	As per the suggestions from the students following action plan was initiated-. - In order to expose the students to the latest development in the concerned subject, separate budge was allocated to all the departments to organized at least one National Conference. - All Heads of the Departments were allowed to start value added courses as per the requirements of specific Departments. - More number of students were enrolled under 'Earn and Learn Scheme'. - Heads of the Science Departments were advised to organise Industrial visits and special lectures from Industry experts on various focused areas. - Special programme were organized to motivate the students to apply for various National / International fellowships and also for doing outreach / extension activities. Accordingly 221 Students have got National / International Fellowships (viz. Erasmus Mundus Fellowship, CSIR-JRF, SRF, Rajeev Gandhi National Fellowship, Maulana Azad National Minority Fellowships etc)
Meeting with all faculty members to have their feedback / suggestions on Teaching Learning, Research and Extensions activities.	As per the suggestions from the faculty members following actions were executed. - Scheme of minor research project / Seed Money (to young faculty members) was continued. - 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. • Enhancement in the Department budget for laboratory development and other budget head to most of the Departments. • Appointment of visiting faculty in the Departments having insufficient teaching staff. • Establishment of smart class rooms in some Departments (Physics, Chemical Technology, Chemistry, Computer Science, Environment Science)
University-Industry Interaction Summit	• Two days University-Industry Interaction Summit-2016 (December 20-21, 2016) was organized to create networking of faculty members with the concerned Industries. • More than 100 experts from various Industries from Marathwada Region have participated and 10 MoUs were signed during this summit. • On this occasion, Corporate Excellence Award was given to 5 leading industrialist who have contributed significantly for overall development of Marathwada Names of the awardees : i) Mr *Anurang Jain,* Managing Director of the Endurance Technologies Ltd ii) *Mr. Srikant Badwe,* Chairman of Badve Industries Ltd, iii) *Mr. Klauss Endress,* President Endress+Hauser Ltd iv) *Mr. Rishi Bagla,* Chairman of Bagla Group v) *Mr Ramchandra Bhogale*, Chairman of Applied Innovation & Technology Group.
Enhancing Skill Development activities, Curriculum Revision, setting up new labs, Academic Enhancement, Overall development of students, Mentoring of students, Cultural Activities	Overwhelming active participation and skill enhancement of students in various events like - • "Indradhanushya State-Level Youth Festival" held during November 5-9, 2016 having participation from 20 Universities (at University campus). • University-Level Central Youth festival held on September 19-22, 2016 at Tuljapur, Dist. Osmanabad and 2500 students have participated. • Swachh Bharat Abhiyan under taken throughout the academic year. • Adopted villages namely Kajala, Georai Kuber, Jawalban and Shivur K. Budruk under NSS. • 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. • National Science Day celebrated in University Departments during the last week of February every

	year. All students of Science Departments have participated. • Curriculum revision as per need of the hour and as per directions of NSDC (Skill based programme). • Student Mentor scheme (Enhancement in students' performance) exist in all University Departments.
Special sessions to motivate and encourage faculty members of all university Departments to tap funding from various funding agencies and submission of IPR.	• Ten Provisional Patents filed • Submitted various proposals under DST-FIST and UGC SAP scheme of DST and UGC • DST-FIST Project sanctioned by DST (Dept of Physics : ₹ 1.15 Cr; Dept of Chemistry : ₹ 1.0 cr). • Major Research project sanctioned by ICSSR, DST, DBT (Rs.1.10 Cr) • Funds received from RUSA for three projects (₹ 65 Lakhs) and for RUSA Centre for Advanced Sensor Technology:Rs.1.5 Cr (Technology Transfer Centre) • Department of Physics received grants of ₹ 40.00 lakhs under UGC SAP programme out sanctioned amount of ₹ 50.00 lakhs • Department of Statistics is covered under UGC SAP DER -I (2012-17) (₹ 0.77 Cr) • National Seminar on "Confronting Development: Perspectives On Marathwada" (under SAP & UGC CPEPA collaborating three Departments Department of Economics, Department of Political Science & Department of Sociology) conducted during March 09-11, 2017
To further enhance ICT (Smart class rooms, Wi-Fi facility etc) in the University campus	• Wi-Fi facilities cover entire University campus, Smart Class Rooms have been created in various Departments • 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 & T.V.Studio is ready for operation. • 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.
Efforts to bring funds from Industries (under CSR scheme) and various funding agencies.	Bajaj Auto Pvt Ltd, Aurangabad has sanctioned an amount of ₹ 1.5 Cr for the construction of building for Jamnalal Bajaj Incubation Centre
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	• 09 Familiarization workshops were organized by RUSA Centre for Advanced Sensor Technology to create awareness for Quality Research and about IPR • Around 1000 faculty members (from Faculty members of various Affiliated Colleges) have attended

Advanced Sensor Technology and Jamnalal Bajaj Incubation Centre.	familiarization workshops. • Around 100 faculty members have (from Faculty members of various Affiliated Colleges) attended hands-on training on state-of-the-art facilities at RUSA Centre for Advanced Sensor technology. • 22 collaborative research proposals (from Faculty members of various Affiliated Colleges) and around 20 SCOPUS indexed papers have been published.
Addition of more skill development programme	• Master of Vocation (M. Voc) in Industrial Automation and (M. Voc) Automobile have been started. • Organised five IIRS Outreach programme in Department of CS & IT • Learning Management System (MOODLE) implemented in department of computer science
To get recognitions for more number of university Departments as a Centre with Potential for Excellence in Particular Areas (CPEPA).	• 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. • 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
MoUs with various industries and Academic Organisation	• MoUs with 25 Industries (viz. Endress and Hauser India Pvt. Ltd. (Aurangabad, NAC Group of Industries, Aurangabad, Bagla Group of Industries Aurangabad, Bajaj Auto Pvt Ltd Aurangabad, Endurance Pvt Ltd Aurangabad, Siemens Ltd, Aurangabad, Krish Automation, Aurangabad, Luhance Electronics, Aurangabad, Scientech Pvt Ltd, Indore, Neo Engineers, Pune etc.) • RUSA Centre for Advanced Sensor Technology has signed MoU with Department of Material Science and Engineering, National Taiwan University of Sceince and Technology, Taipei, Taiwan. • Department of Bio-Chemistry Signed MoU with Oklahoma State University Oklahoma, USA. Under this MoU faculties working with American Professors for developing drought resistant plants. • Dr. Babasaheb Ambedkar Marathwada University has signed MoU with महाराष्ट्र राज्य मराठी विश्वकोश निर्मिती मंडळ,महाराष्ट्र शासन for the development of Marathi Vishvakosh in the subject of Information Technology and Computer Science, under the coordination of Dr. R. R. Deshmukh, Professor and Head, Department of Computer Science and IT, Dr. Babasaheb Ambedkar Marathwada University (17th May 2017)

	• Department has signed MoU with I-MADE, Government of India, Department of Telecommunications. The goal of the I-MADE program is to help Indian colleges to digitize their resources and processes to derive better student engagement. It is also designed to provide students training on different aspects of mobile app development in order to encourage entrepreneurship with a goal of building 1 million mobile app start-ups.
Organization of workshop/seminar/conference Research publication/patents academic software	• Organized workshops on IPR jointly by RUSA Centre for Advanced Sensor Technology and IPR cell (December 2, 2016, Dec 30, 2016, Jan 31, 2017 and March 14-15, 2017) • Approximately 255 participants have attended IPR workshops • Ten Provisional Patents Submitted
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.	Approximately 300 students from various University Departments have placed in various Industries, around 65 have passed SET / NET examinations and around 40 students have received Rajiv Gandhi National Fellowship for Ph. D, and Maulana Azad Minority Fellowships.

7.3 Give two Best Practices of the institution

1. Imparting Skill Based Education at Deen Dayal Upadhyay KAUSHAL Kendra
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
- 7215 trees are maintained in the campus which includes Mango, Tamarind, Anula(avla) and custerred apple
- Scheme of 'Jalyukta University' to combat water scarcity.
- 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
- Horticulture garden 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

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 :

- Since its inception of the university has more than 400 affiliated and autonomous colleges, which come under four districts (Aurangabad, Jalna, Beed and Osmanabad) of Maharashtra State.
- Encourage affiliated colleges for CPE, as a result seven college have been awarded the status of Centre for Potential Excellence(CPE)
- University located on campus area 724 acres, a satellite campus at Osmanabad on 22-acre and a Marine Research Station at Ratnagiri on West Coast.
- RUSA- Centre for Advanced Sensor Technology (Funded by RUSA, Govt of Maharashtra). The state-of-the-art facilities created in the Centre for materials synthesis and device fabrications are being made available to all students (undergraduate, postgraduate and doctoral) and faculty members across the country. Moreover, special capacity building workshops are being organized for students and faculty members for idea generation and protection of IP
- The Deen Dayal Upadhyay KAUSHAL Kendra, the Centre from where the concept of Vocational education at Bachelor's and Master's level evolved, creates skilled manpower to enhance employability through technically empowered youth.
- The Gopinath Mundhe National Institute of Rural Development to undertake Research which will take the intellectual considerations to issues at grass root level.
- University has shifted from a leased building and evolved to huge landscape including several hostels for boys and girls and centralized facilities.
- Paul Herbert Centre for DNA Barcoding & Biodiversity studies marks the international standards of research at scientific horizons. The state-of-the art next generation genomics facility at DNA Barcoding Centre is unique of its kind in entire state. Students and faculty members are sharing this infrastructure across the country.
- The Knowledge Resource Centre (Central Library), best in its class, has set an out of the box instance in extending the resources beyond campus to quench the thirst at all walks.

- The University with a Central Facility Laboratory provided with sophisticated analytical instrumentations facility (SAIF).
- The academic staff college- HRD Center is one of the best training institutes for the faculties development
- University has also established the School of Liberal Arts and initiated post graduate programme which is unique in the country.
- The University Grants Commission has provided financial assistance to five University Departments under support scheme of UGC-SAP.
- Department of Economics, Sociology and Political Science got Centre of Excellence in Rural Development by University Grants Commission, New Delhi
- The University has created an excellent network of coalition with national/international research bodies, institutions and industries (viz. South Korea, USA, East Africa, New Zealand, Israel, Poland, Japan and Australia) for creation of knowledge contents that has best time relevance and world –class infrastructure.
- Established University Industry Interaction Cell and connect with more than 100 industries for the curriculum designing, Adjunct Professor, in-plant training and placement.
- The Jamnalal Bajaj Incubation Centre, established under the support of Bajaj Auto Pvt. Ltd., and its functional.
- Ramanujan Geospatial Chair and Maulana Azad Chair were established to promote high-end research in specialized areas.
- The University is providing excellent platform for overall development of the students in the sports and cultural activities including basketball, football, cricket, gymnasium, swimming, tennis and auditorium with seating capacity of 1000 people
- Dr. Babasaheb Ambedkar Marathwada University has extensive list of registered almuni association
- 'Earn and Learn' Scheme, Jalyukta Shiwar Yojana, Commercial Plantation Programmes.
- Internationally recognized Herbarium 'BAMU' housing more than 1.0 lakhs plants specimens.
- Largest Botanical Garden in Indian Universities (44 Acres). It has 225 specimens of trees.
- Artificially created FOREST know as Institutional FOREST
- Increased water storage capacity (10 Cr. litre) under the scheme of 'Jalyukta Shiwar' and spent an amount of Rs. 47 lakhs.
- State level award for excellence in energy conservation and management from MEDA, Government of Maharashtra.

Weaknesses / Issues:

- Inadequate full time teachers against sanctioned post
- Lack of centre of attractions in each department so that we can attract JRF / SRF/ INSPIRE fellow from other part of the country
- Very few teachers provide consultancy
- All classrooms are not ICT enabled.
- Inadequate budget for maintenance of infrastructure (viz. Admin Building, Academic Buildings, Hostel, Roads etc.)

Opportunities:
- To initiate skill oriented programme / courses focusing on Aurangabad ancient literature, culture, and propagate them across the University jurisdiction.

- To cater the needs of the socially and economically disadvantaged groups of the society
- To initiate special programme (as per geographical / local needs) at satellite campus at Osmanabad and a Marine Research Station at Ratnagiri on West Coast.
- To attract tourist towards History Museum to create special impact of the university.
- To provide the platform to the students and faculty members for overall development
- To encourage affiliated colleges to initiate skill oriented courses as per local requirements to create skilled manpower and enhance employability and entrepreneurship capability.
- To undertake Certificate, Diploma, Advanced Diploma and Degree Programme related to rural development at Gopinath Mundhe National Institute of Rural Development. Also to conduct survey on various social-economic aspect of rural regions to address their issues for overall development of rural regions.
- To convert RUSA Centre for Advanced Sensor Technology and Paul Herbert Centre for DNA Barcoding & Biodiversity into a Centre of Excellence in the respective areas of and project this as a 'Role Model' across the university jurisdiction so that more Centres could be initiated.
- To start some special program based on the stat-of-the-art infrastructural facilities available in some areas and generate some revenue. Also initiate more number of Professional Development programme based for Teaching and Administrative staff apart from UGC approved programme.
- To convert all UGC-SAP supported Departments into Centre for Advanced Studies and encourage other departments to apply under this scheme.
- Initiate some interdisciplinary academic programme addressing various issues of rural areas.
- To convert all DST-FIST departments into Centre of excellence in the respective areas of their expertise.
- To bring more funding from various private as well as Govt funding agencies for augmentation of research infrastructure (Good Track Record of Research Publications)
- To encourage the faculty members to identity the specific issues in the Industries and provide them solutions so revenue can be generated.
- To make in-plant training mandatory for most of the UG/PG courses in the University campus.
- To incubate more number of incubatees and expire the possibility of spinoff in the campus under Jamnalal Bajaj Incubation Centre.
- To initiate some short term academic programme under Ramanujan Geospatial Chair.

Challenges:

- Converting all academic programme into outcome based education having Programme Outcome, Programme Specific Outcome and Course Outcome
- Making field project / internship mandatory for all of academic programme.
- Increase in enrolment of more number of foreign and out of state students for most of academic programme.
- Encouraging teachers for making use of e-resources for teaching.
- Making all classrooms ICT equipped.
- Recruitment of teachers of full time teachers against sanctioned post
- Creation of structured mechanism to evaluate attainment of program outcomes, program specific outcomes and course outcomes

8. Plans of institution for next year

A. Curricular Aspects
- Assessment of acceptability and time relevance of existing academic programme
- Identification of potential industrial partners who can effectively contribute to framing/ reforming of existing curricula and act as potential platform to offer internship/employment to University Passouts
- Thorough reformation of existing curriculum
- Introduction of generic and program-specific value added courses
- Development of facile feedback collection mechanism

B. Teaching-Learning and Evaluation
- Assessment of enrolment statistics across departments and identification of gap areas
- Reformation of pilot initiatives to cater student diversity
- Identification of faculty diversity; and augmentation initiatives in teaching-learning modality
- Development of structured mechanism for attainment of performance outcome of students and evaluative reforms
- Installation of smart boards in all department in two phases.

C. Research, Innovations and Extension
- Strengthening of overall policy for research activities
- Creation of thematic research areas based on University expertise
- Identification of areas for financial provisions
- Sensitization and support activities for uplifting research capacities/infrastructure
- Promotion and support IPR related activities
- Continuation of best practices in extension activities and preparation of comprehensive roadmap
- Submission of research proposals of the faculties of university including the heads for funding to various agencies like RUSA, UGC,DST, ICSSR etc.
- Submission of proposals for Centre for Potential Excellence In Particular Area(CPEPA)
- Encouraging other University Departments for submission of proposals under UGC-SAP, DST-FIST and other schemes.

D. Infrastructure and Learning Resources
- Augmentation of physical facilities in the campus
- Enrichment of KRC resources
- Financial Provision for infrastructure
- Submission of proposal to RUSA for maintenance of the infrastructure and construction of newly established Departments and proposed Centre of Excellence

E. Student Support and Progression
- Development of an all-inclusive policy towards framing a student friendly, student owned campus
- Development of student centric academics
- Establishment of a sound mechanism to ensure a positive destination for every student
- Engagement of alumni in developmental activity
- Strengthening of 'Earn and Learn Scheme'
- More value added courses will be started

F. Governance, Leadership and Management

- Creation of pathway towards good governance
- Preparation and deployment of strategic plan
- Organisation of training programme for empowerment of administrative staff and teaching by conducting skill oriented programmes
- Recruitment of faculty according to the revised University Act-2016
- Conduct of Academic Administrative Audit (AAA) regularly.
- Colleges are encourage for Assessment and Accreditation process to maintain quality.

G. Institutional Values and Best Practices

- Sensitization of students and staff for gender and social equality
- Creation of awareness for environmental consciousness and sustainability
- Sensitization of students for human values and professional ethics
- Continuing the practice of Ragging free Academic Ambience

Name Professor M.D. Shirsat   *Name Professor B. A. Chopade*

_____   _____

Signature of the Director, IQAC   *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:**

   Imparting Skill Based Education at Deen Dayal Upadhyay KAUSHAL Kendra

2. **Goal:**

   To generate industry ready manpower and entrepreneur

3. **The Context:**

   o 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.
   o 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.
   o 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.
   o This program is pioneering in the country even before University Grants Commission (UGC), India, officially introduced such program in the academic scenario.
   o In 2014, UGC has announced the scheme of B.Voc. This university has submitted proposal for B.Voc in Automobile Technology and Indusial Automaton and it was sanctioned (Grants of ₹ 1.67 Cr).
   o 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.

4. **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.

   o 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.

- o 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)

- o 'Gain Skills at Affordable Cost' is the Tag line of the Centre.

- o State-of-the-Art facility in the area Industrial Automation and Automobile Technology at par with IITs

- o 95 % enrolled students are from economically and socially disadvantaged category.

- o Industry-specific skills to enhance employability.

- o Occupational skills to enable entrepreneurial initiatives.

- o Vertical mobility for students clearing 10+2 with vocational subjects.

- o Curriculum focus on work-readiness skills.

- o Industry involvement in development of need-based curriculum.

- o Three Tier examination scheme (Assessment by Industry, University and NSDC).

- o Open laboratory practice (laboratory access to the students for 24 X 7).

- o The curriculum is based on Choice based Credit System (CBCS) as per UGC guidelines.

- o The curriculum is designed as per the need of Industries and aligned with NSDC and NSQF.

- o The curriculum has both general Education Component (40 %) and Skill component (60 %) which increases the employability of the students

- o The curriculum is fine tuned in the beginning of every semester in consultation with Industries.

- o MoUs with 45 Industries in and around Aurangabad for curriculum designing, in-plant training and placement.

- o MoUs with International Vocational Education Training Institutions viz. TAFF Tasmania, Australia and Tokushima University Japan.

- o The experts from Industries are actively involved in teaching, training and evaluation.

- o Enthusiastic and experienced teachers for grooming the students. Student – mentor scheme is an integral part of the system.

- o Mandatory in-plant-training in each year.

- o 20 % Continuous Internal Evaluation and 80 % external evaluation.

- o Multiple exit Programe (After Six Months : Certificate ; After One Year : One Year Diploma; After Two Years : Advanced Diploma and After Three Years : B. Voc Degree

5. Evidences of Success:

- o 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

- o 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.
- o 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.
- o The University was permitted to start 'Community College' by the UGC. A fund of ₹ 0.87 crore was sanctioned.
- o All pass out students (at respective exit) have been placed in various Industries.
- o One student became entrepreneur.
- o 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.

6. Problems encountered and Resources Required:

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

7. 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.

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:**

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

5. **Evidences of Success:**

    o   Bajaj Auto Pvt Ltd, Aurangabad has provided grants for the Construction of the Building of Incubation Centre.
    o   So far five incubates have been incubated and one spinoff have been initiated
    o   As a result this year 10 patents and have been filed this year.

o Faculty members from various Departments University Department have published more than 400 research papers in SCOPUS and Indian Citation indexed Journals during last three years.
o Field weighted Citation Impact of the University is at par world standard.
o Citations per publications is at par with world standard.
o Faculty members from Social Science and Humanity have published many Books with National and International Publishe₹
o Research Scholars and Faculty members from Science faculty have indigenously developed equipments which are being used for research purpose.

o **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 10 familiarization programme, 05 hands-on training and 05 IPR workshops have been organized by the Centre and approximately 3000 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, CO2, NH3, BTEX
   ➢ The cost of both Devices is ten time lower than commercially available devices.
   ➢ Many Industries are approaching this center for Expert Suggestions / Solutions

o **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 : Academic Calendar

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

CIRCULAR NO.SU/Academic Calendar/2016-17 Yr./89/2016

It is hereby inform to all the concerned that, on the recommendation of the Committee the Hon'ble Vice-Chancellor has accepted the **_Schedule of Terms and Vacations of First and Second Term for the Academic Year 2016-2017_** on behalf of the Academic Council & Management Council in his emergency powers Under Section-14 [7] & [8] of the Maharashtra Universities Act, 1994. 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' as appended here-with**.

This is effective for the Academic Year 2016-17.

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./2016-17/
     500-950
Date:- 07-05 -2016.

                                                       DIRECTOR,
                                          Board of College and
                                       University Development.

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 Controller of Examinations,
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 Superintendent, 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,
   5th Floor, 'A" Wing, Senapati Bapat Road, Pune.

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Dr. Babasaheb Ambedkar Marathwada University
ACADEMIC CALENDAR FOR THE YEAR 2016-2017
For <u>University Department and Sub-Centre</u>

		First Term		
1		First Term (Both days inclusive)	:	15-06-2016 to 24-10-2016
2		Opening of the Departments	:	15-06-2016
3		Admission of P.G. Courses [III Semester]	:	15-06-2016 to 20-06-2016
4		Commencement of P.G. Classes [III Semester]	:	22-06-2016
5		Notification of Common Entrance Test	:	12-05-2016
6		Registration of CET Examination for all P.G. University Departments & Sub-Centre	:	16-05-2016
7		Conduction of CET Examination of University P.G. Departments [excluding CET Exam. Conducted by Central Govt. and State Govt.]		23-05-2016 to 28-05-2016
8		Declaration of CET Examination result by the Departments	:	30-05-2016
9		Registration for admission for all University Departments and Sub-Center	:	**02-06-2016 to 08-06-2016**
10	i]	**Admission Process** Declaration of the First Merit list		**11-06-2016 to 14-06-2016**
	iii]	Declaration of the Second Merit list against vacancy	:	18-06-2016
11		Spot Admission against vacancy	:	25-06-2016
12		Commencement of Classes of First Semester of University Departments and Sub-Centre	:	27-06-2016
13		Submission of Eligibility Forms by the students at the University Departments, Sub-Centre	:	20-07-2016
14		Welcome address and introduction of C.B.C. & G.S.	:	**30-06-2016**
15		Last date for submission of Eligibility Forms by the Departments to the University	:	31-07-2016
16		University Open Days Celebration	:	22 & 23-08-2016
17		**Winter Vacation** **(Both days inclusive)**	:	25-10-2016 to 15-11-2016
18		Re-opening of University Departments, Sub-Centre	:	16-11-2016
19		Term End Examination	:	25-11-2016 to 14-12-2016

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Department Academic Calendar - 2

		Second Term		
20	Second Term (Both days inclusive)	:	15-12-2016 to 30-04-2017	
21	Commencement of Classes for all courses	:	15-12-2016	
22	Declaration of Result First Term End Examination	:	20-12-2016	
23	Declaration of Term end Examination Programme	:	10-04-2017	
24	Declaration of the Result of Second Term end Examination	:	30-04-2017	
25	Last working day of Second Term	:	01-05-2017	
26	Summer Vacation (Both days inclusive)	:	02-05-2017 to 14-06-2017	
27	As per the Provisions of Ordinance-169 first Opening day for the Academic Year 2017-2018	:	15-06-2017.	

N.B.:	1	All Head of the University Departments 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 to be considered and follow the reservation and admission policy as per Govt. of Maharashtra and University Norms.
	2	Advertisement should be published by Post Graduate Section in various newspapers for seeking admission in University Departments and Sub-Centre at Osmanabad on 12-05-2016.
	3	Circular of Public Holidays is enclosed herewith for your information & necessary action.
	4	Students Centric activities shall be conducted on every Second & Fourth Saturday by the Department.
	5	Department should organize Conferences, Workshops, Symposiums etc. before February-2017.
	6	On the basis of this Academic Calendar every department shall prepare detail academic calendar along-with examination programme for the year 2016-2017 and upload it on university website. One copy of the same may be forwarded to the Director, Board of College and University Development office.

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