NAAC Accredited-2015
'B' Grade (CGPA 2.62)

SOLAPUR UNIVERSITY SOLAPUR

Annual Quality Assurance Report

for the Academic Year 2017-18

(AQAR 2017-18)

Submitted to

National Assessment and Accreditation Council

(NAAC)

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The Annual Quality Assurance Report (AQAR) of the IQAC

Academic Year for July 1, 2017 to June 30, 2018

Part – A

1. **Details of the Institution**

1.1	Name of the Institution	Solapur University, Solapur
1.2	Address Line 1	Solapur-Pune National Highway,
	Address Line 2	Kegaon,Solapur-413 255 (Maharashtra)
	City/Town	Solapur
	State	Maharashtra
	Pin Code	413 255
	Institution e-mail address	bcudnaaciqac@sus.ac.in
	Contact Nos.	0217-2744761-67
	Name of the Head of the Institution:	Dr. (Smt.) M. M. Fadnavis
	Tel. No. with STD Code:	0217-2744778
	Mobile:	91-7774043981
	Name of the IQAC Director/ Co-ordinator	Prof. (Dr.) R. S. Hegadi
	Mobile:	9604085138
	IQAC e-mail address	director.iqac@sus.ac.in
1.3	NAAC Track ID *(For ex. MHCOGN 18879)*	MHUNGN11268

1.4	NAAC Executive Committee No. Date:*(For Example EC/32/A&A/143 dated 3-5-2004. This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate)*	EC(SC-10)/DO/2015/7.1 dtd. 16/11/2015
1.5	Website address:	http://su.digitaluniversity.ac
	Web-link of the AQAR:	http://su.digitaluniversity.ac/WebFiles/MHUNGN 11268ThirdAQAR2017-18.pdf

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	B	2.62	2015	2020

1.7 Date of Establishment of IQAC: DD/MM/YYYY   22/02/2013

1.8 AQAR for the year *(for example 2010-11)*   2017-18

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC (*(for example AQAR 2010-11submitted to NAAC on 12-10-2011)*

   i.   AQAR 2015-16 Submitted to NAAC on 15-11-2016
   ii. AQAR 2016-17 Submitted to NAAC on 18-09-2017

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 ✓

Grant-in-aid + Self Financing -   Totally Self-financing ✓

1.11 Type of Faculty / Programme:

Arts ✓ Science ✓ Commerce ✓ Law ✓

PEI (Phys. Edu) ✓ TEI (Edu) ✓ Engineering ✓ Health Science NA

Management ✓

Others (Specify)   Social Sciences

1.12 Name of the Affiliating University *(for the Colleges)*:   -

1.13 Special status conferred by Central/ State Government: **2(f) and 12(B)**
UGC/CSIR/DST/DBT/ICMR etc.**-**

Autonomy by State/Central Govt. / University   Yes

University with Potential for Excellence   No   UGC-CPE   No

DST Star Scheme   No   UGC-CE   No

UGC-Special Assistance Programme   No   DST-FIST   No

UGC-Innovative PG programmes   No   Any other Specify)   No

UGC-COP Programmes   No

2. IQAC Composition and Activities

2.1 No. of Teachers

07

2.2 No. of Administrative/Technical staff

05

2.3 No. of students

Nil

2.4 No. of Management representatives

Nil

2.5 No. of Alumni

01

2. 6 No. of any other stakeholder and Community representatives

01

2.7 No. of Employers/ Industrialists

02

2.8 No. of other External Experts

Nil

2.9 Total No. of members

16

2.10 No. of IQAC meetings held-

02

2.11 No. of meetings with various stakeholders: No | 29 | Faculty | 03 |

Non- Teaching Staff, Students | 03 | AC+MC+Senate | 23 |

Alumni | 00 | Others | - |

2.12 Has IQAC received any funding from UGC during the year?

Yes | ✓ | No | - |

If yes, mention the amount

Sanctioned-Rs. 5, 00,000/-   Received Rs. 4, 50,000/-

2.13 Seminars and Conferences (only quality related)

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

Total No. | 02 | International | 00 | National | 01 | State | 00

Institution Level | 01

| (ii) Themes | 1] INDIAN PATENTING & FILLING PROCEDURES at National level |
| | 2] CHOICE BASED CREDIT SYSTEM at Institutional Level |

2.14 Significant activities and contributions made by IQAC.

- Recommended to conduct Seminars/Workshops and Training Programmes
- Recommended the elevation of Infrastructure of the Library.
- Enhanced the Computer facilities for students and teachers.
- Adopted villages under NSS programmes for overall development.
- Recommended disposing the e-waste through authorised Government Agent.
- Recommended to celebrate health and hygiene day as "Swacch Bharat Abhiyaan" on Wednesday @ 2 hrs/ week.
- Analysis of feedback from students was done for improving teaching standards.
- Encouraged research activities through University Development Grants to newly appointed teachers.
- Encouraged the involvement of industry with the University by establishing University Interaction Cell(UIC).

2.15 Plan of Action by IQAC/Outcome: The plan of action was chalked out by the IQAC at the beginning of the year for the quality enhancement and the outcomes to be achieved by the end of the year*

Plan of Action	Achievements/ Out come
Syllabi to be revised and restructured as required for the Choice Based Credit System (CBCS).	At present, University has implemented CBCS for its PG programmes conducted in the University Departments. CBCS consists of Hard Core, Soft Core and Open Electives to provide cafeteria approach for the students on the campus. There are 74 Soft Cores and 68 Open Electives imparted to the students in PG programmes on the campus.
Establishment of Language Laboratories for the students	Language Laboratory is established which benefits the college and university students in general and the students of Mass Media and Communication in particular.
Teaching-Learning Aids	Recently, University has purchased 16 smart classroom equipment and other pedagogical aids for the enhancement of teaching and learning activities in the University.
Organisation of Skill Development Programmes for Students/ Teacher/ Non-Teaching Staff on the campus.	All the students, teachers and Non-Teaching Staff of the university are benefited through training programmes conducted in collaboration with Google apps.
Disposal of E-waste through state policy	Disposal of E-waste has been undertaken in compliance of the Maharashtra State Policy. E-waste is disposed through an authorised disposal agent.
Encourage research engagements for teaching staff and students.	- Departmental Research Fellowships has been doubled. - Institutionalized seed money for young faculty to undertake innovative research. - Travel Grants for International/ National/State and Regional Seminars, Symposia, Workshops and Conferences etc. for students andteachers.
Tap the financial assistance from the funding agencies of State/ Central regulatory bodies.	University had submitted exhaustive proposal of ₹ 20 Cr. to RUSA. University has received financial assistance of ₹. 5 Cr.

Tap the financial assistance from the RUSA under Innovative Research Scheme	Under innovative research scheme of RUSA, SPD-RUSA has sanctioned the funding of ₹.15 lakhs to one research project.
Construction of VVIP guest house to have eminent personalities on the campus.	Building Construction is completed and installation of furniture is in progress.
Upgradation of the University guest house facilities.	Additional 08 AC are fixed in the guest house.
Village adoption for overall development through NSS	07 villages are adopted
Campus networking through NME-ICT facilities- Wi-Fi and Cabling of Optic Fibre on the campus	Completed
Green and Clean Campus	Every Wednesday staff and students devote 2 hours for cleanliness campaign on the campus.
Green Buildings	Most of the buildings are well illuminated by day lighting or LED bulbs. Solar street lights illuminate the campus.
Day Care Centre	Necessary material for Day Care Centre has been purchased for its establishment in near future.
Enhancement ofstudent-computerratio	Additionally, 314 computers are purchased to have increase facility for the students.
Increase in the availability of e-Book and e-Journals.	44,000 e- journals and 494 e-books are added to the existing corpus of the University Library during the assessment period.

2.16 Whether the AQAR was placed in statutory body   Yes ✔ No -

Management ✔ Syndicate - Any other body -

Provide the details of the action taken

Report has been accepted, approved and permission granted for reporting the same to NAAC.

<h1 style="text-align:center">Part – B</h1>

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
Ph.D.	13	-	-	-
PG	18	-	01	-
UG	-	-	-	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate (Skill Development Centre)	62	-	-	-
Others	03	-	-	-
Total	96	-	-	-

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

Sr. No.	Name of the Course		Hard Core	Soft Core	Open Elective	Practical
1.	**Faculty of Sciences**					
1.	M.Sc. Polymer Chemistry	Part-I	05	04	02	11
		Part-II	05	04	02	09
2.	M.Sc. Organic Chemistry	Part-I	05	04	02	11
		Part-II	05	04	02	06
3.	M.Sc. Industrial Chemistry	Part-I	05	04	02	11
		Part-II	05	04	02	09
4.	M.Sc. Physics (Applied Electronics)	Part-I	05	04	02	11
		Part-II	05	04	02	06

5.	M.Sc. Physics (Material Sciences)	Part-I	05	04	02	11
		Part-II	05	05	02	06
6.	M.Sc. Electronic Science	Part-I	05	04	02	11
		Part-II	05	04	02	06
7.	M.Sc. Applied Geology	Part-I	05	04	02	11
		Part-II	05	04	02	11
8.	M.Sc. Geo-informatics	Part-I	05	04	02	11
		Part-II	05	04	02	11
9.	M.Sc. Environmental Science	Part-I	05	04	02	11
		Part-II	05	04	02	11
10.	M.Sc. Mathematics	Part-I	07	04	02	05
		Part-II	07	05	02	05
11.	M.Sc. Statistics	Part-I	07	04	02	05
		Part-II	07	05	02	05
12.	M.Sc. Computer Science	Part-I	05	04	02	09
		Part-II	05	05	02	09
13.	M.C.A	Part-I	07	04	02	09
		Part-II	07	05	02	09
		Part-III	03	04	--	04
2.	**Faculty of Commerce**					
14.	M. Com.	Part-I	05	04	02	04
		Part-II	05	04	02	04
3.	**Faculty of Social Science**					
15.	M.A. History & Archaeology	Part-I	05	04	02	04
		Part-II	05	04	02	04
16.	M.A. Rural Development	Part-I	05	04	02	04
		Part-II	05	04	02	04
17.	M.A. Economics	Part-I	05	04	02	04
		Part-II	05	04	02	04
18.	M.A. Mass Communication	Part-I	05	04	02	04
		Part-II	05	04	02	04

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	18 (PG)
Trimester	-
Annual	16 (M. Phil. & Ph. D.)

1.3 Feedback from stakeholders*   Alumni ✓ Parents ✓ Employers -   Students ✓
     (On all aspects)

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

*Please provide an analysis of the feedback in the Annexure

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

Solapur University through respective BOS, encourages the PG Departments to update their syllabi every three years. The emphasis of the university in reviewing and upgrading the syllabi is to serve the purpose of enhancing the employability of the students. In the last three years, the University had restructured the CBCS pattern twice to herald the flexibility in teaching-learning pattern by introducing Open Elective Papers which are interdisciplinary in nature.

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

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Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
24	16	--	08	--

2.2 No. of permanent faculty with Ph.D.: 18

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
16	06	--	04	07	03	--	--	23	13

2.4 No. of Guest, Visiting faculty and Temporary faculty: 00   00   34

2.5 Faculty participation in conferences and symposia:

Faculty	International level	National level	State level
Attended	29	26	--
Presented	73	44	01
Resource Persons	07	21	--

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

Teachers use IT tools like Google Apps to enhance the effectiveness of the syllabus delivery.

2.7 Total No. of actual teaching days during this academic year   185

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, and OnlineMultiple-Choice Questions):

As the University is State University of Maharashtra, it obligatorily implements the recommendations of University Act 1994, along with the resolutions made in JBVC meetings from time to time. University has also implemented most of the recommendations of the Examinations Reforms Committee (ERC) presided by Shri Rajesh Agarwal Committee has been implemented. The details of the same are as follows:

	(ERC) Recommendations	Action Plan for Implementation
1	**Effective end-to-end use of ICT for Reforms in Examinations:** ICT should be effectively used for management of examinations system. Theend-to-endintegrated examination management system can manage the entire operation of examinations in Universities. The solution may be end-to-endfrom one service providersimplementingvarious modules.	From application of admission to convocation, all modules are available in e-Suvidha, specifically for examinations. Based on admissions and eligibility data, examination forms are provided in student's login, as well as in college login. Students can apply for exam from their own login. Moreover, all post exam processing is done through e-Suvidha framework at Solapur University.
2	**Online student registration for examinations to issuance of hall ticket**: Every University should implement online student registration for examinations from academic year 2013-14 and conduct few pilots for online issuance of hall ticket by half of 2013. The university may decide the service providers from among the following options: (i) In-house Development (ii) MKCL's e-Suvidha application (iii) Tendering (iv) Smaller universities may approach Larger Universities.	This facility is already available in e-Suvidha. Student can apply to multiple courses and colleges using a single login. After admission and examination application they can download hall ticket. The University has implemented online student registration for examinations and online issuance of hall ticket from academic year 2013-14. This facility is provided through college login as well as student's individual login.
3	**Question Bank/Question Paper Bank Creation**: Question Bank approach or Question Paper Bank Approach should be adopted by Universities for setting and selection of universities examination papers.	As per Resolution No.14 (2) made in the meeting of Management Council held on 19/08/2014, University has decided to conduct online Examinations. For the said purpose, university is fulfilling all the necessary requirements. The University, through its respective BOS, is forming a Question Bank. For prompt implementation of this, the Committee is constituted as per Board of Examinations and Evaluation's letter No.1340 dtd. 06/11/2015. A random-selection method will be used to select the question paper. However, As per the recommendations 27 of ERC, there is need to modify clause 32 (5e) of the Maharashtra University Act to allow Question Bank System or Question Paper Bank System.

		Workshops for preparation of Question Bank were organized by the University. Engineering First year syllabus was due for revision from 2016-2017. Syllabus template and question paper format for all the subject are finalized. New revised syllabus will support question bank system. Internal Office Note is sent to BOS Section to form a question bank for Environment Studies and first year Engineering (Computer Programming) is completed. As per the provision, the University had constituted a committee of Deans to form a question bank on 24/05/2017. For Oct./Nov. 2017 the question paper bank was formed for B. Lib. and BJMC on a pilot basis.
4	**Secure Delivery of Examination Papers**: Each university should implement this system on pilot/experimental basis for exams conducted in first half of 2013. Following this, by 2014 it should become a matter of practice. In this solution, the Question paper once randomly selected/generated from the bank is encrypted and transmitted over secure channel to the examination centres, it is decrypted with the key/ password and printed.	Secure Delivery of Examination Paper was carried out successfully for the different faculties in the phased manner for the Oct. 2014, May 2015 and Oct 2015 and March 2016 Examinations. From Mar./Apr. 2018 examination, University sent question papers of all the faculties through Online secured delivery mode. Total 2960 question papers were sent through this system.
5	**OMR and Barcode Technology in cover page of answer sheets:** By first half of 2013, all universities should use OMR (Optical Mark Recognition) and barcode technology in cover page of answer booklets of UniversityExaminationson pilot/experimental basis.	OMR/Barcode answer book was used for the differnt faculties in the phased manner for the Oct. 2014 Examinations. From Mar./Apr. 2018, the Barcode Technology on cover page of answer book has been used for all the courses except B.A.
6	**Barcode in each page of the answer booklets**: Some universities may implement this solution on pilot basis in professional courses. Following this, the government may collate the data on pilot implementation and decide on further action depending on result of the pilot studies.	For the Oct 2014 examinations, this recommendation is implemented for the front page of answer books for the above-mentioned faculties and implemented the barcode on each page from May 2015 examinations. From Mar./Apr. 2018, the Barcode Technology on each page of answer book has been used for all the courses except B.A.
7	**Digital Scanning and Onscreen evaluation**: On Pilot basis, each university shall conduct Digital	On the pilot basis for March/April 2016 examination, we had implemented on screen evaluation of answer sheets for the SLR-91029

		Scanning and Onscreen evaluation of answer sheets in few courses/examinations. After one year, the universities and state government may collate the experience gained and take a call on whether to further expand the usage of this solution.	Human Resource Management (M.B.A.) course. And SLR PM 37 Artificial Technology (elective) for MCA. This recommendation is implemented from March 2017 exam for Faculty of Engineering Course. For the said purpose, University has published E-tender for online evaluation system. The pilot project of onscreen evaluation of Mar./Apr. 2017 has been continued from Oct. 2017 till date.
8	**Result Processing and Publication**: By First half of 2013, each university should mandatory display result online including complete breakup of marks.		Separate result processing software developed by MKCL i.e. ERPS is used for result processing. Through MKCL e-Suvidha project, result of student with complete breakup of marks is available in students' login. Along with the statement of marks obtained Provisional Degree Certificate is also made available for the students.
9	**Online application for Revaluation**: By First half of 2013, each university should enable Online application for revaluation on pilot basis and by 2014, it should be mandatory.		Online application by the students for revaluation, photocopy of answer book, duplicate mark sheet, convocation, migration, college transfer, transcripts, ordinance cancellation etc. is the done through e-Suvidha. The list of students whose photocopy is ready for distribution is made available on website for the information of students and colleges so that college staff can collect the photocopy immediately from university and the student can apply for the revaluation immediately. For Engineering faculty, students are provided the facility of applying for photocopy and revaluation through his/her student login.
10	**Dematting of Degrees and Certificates**: The Committee recommended that from the first half of 2013 some universities should starts on pilot level this work and from 2014, it should be made mandatory. Also the previous data(Mark sheets/Degrees/Ledger Records) from at least 2000-2001 should be digitized.		Online application facility for e-transcript and e-verification of education document is made available to the students. This facility provides online e-transcript with Digital Signature of Controller of Examinations. The students have to upload all scanned copies of mark sheets and based on this, e-transcript will be issued to the students with digital signature. Solapur University has inked a MoU with CDCL Mumbai for Demitting of Degree Certificate. From 11th Convocation onwards electronic copy of degree is made available in student login. Degree Certificate will have QR/QC code, Teslin Paper, Gold foil, with authentication. Online authentication is made for employer's purpose. Transcript is issued to the students with digital signature of Director, Board of Examinations and

		Evaluation. It is implemented from 11th Convocation. All degree certificates are linked with Aadhar number and made available on Central Depositary System. Online employer verification is also done through Central Depositary System. All the degree certificates uploaded on the server are duly digitally signed by Director, Board of Examinations and Evaluation. From 13th Convocation we have included students Aadhar number. Mode of study and certificate is printed by utilizing advanced technology base such as additional security features like text in picture, microline.
11	**Other Technologies for reducing Malpractices**: Technological advancement including tamper evident security tapes that detected any kind of tampering with sealed packages, Digital Locks that transmit signals in case of tampering etc. should be extensively used for reducing malpractices.	Due to secured delivery of Question paper all these aspects are met with for avoiding any event of degree tampering. Presently, question paper packets are properly sealed and all these packets are under the custody of senior supervisor. Tamper proof envelopes, CCTV, Video recording of question paper printing are provided.
12	**Data Centre Facilities**: In Order to host their IT Solutions, Universities require data centre facilities. The various options for availing data centre facilities are described in the report. Universities may choose the option as per their requirements and constraints.	MKCL manages the very high end Data Centre and cloud technologies for managing e-Suvidha services using Digital University Framework. It has Security Firewalls, Virtualisation Platforms, Load Balancers, Back Up Systems and Disaster Recovery Mechanisms. University has outsourced all the exam related activities from MKCL as it has its own data centre. Beside this University has hired the data centre from private party on rental basis. University has also initiated to process to have shared data centre with Shivaji University, Kolhapur. Beside this, Data Centre Facility is made available on hiring basis.
13	**Physical Security Measures:** University should implement security measures like bio metric access control, closed-circuit television system (CCTV), Fire Resistant File Compactors etc. In Examination Strong Room, Assessment Centres and Data Centres for protecting confidential data,	University has been implementing security measures like biometric access control, closed-circuit television system (CCTV), Fire Resistant File Compactors etc. in Examination Strong Room, Assessment Centres and Data Centres.
14	**IT related Capacity Building and Handholding Support:** For Successful implementation of any IT solution, capacity building, training	MKCL provides testing of software before releasing it on staging servers dedicated for the University purposes. Role based training are given to university

	and handholding support for all the users is a critical necessity.	employees and college employees through workshops for usage of the e-Suvidha framework. Refresher training is provided to all the staff of the universities. Handholding support: One Coordinator per university is trained in Digital University Framework for smooth delivery of e-Suvidha by MKCL. During handholding period University staff are expected to take over the operations.
15	**Decentralized, Customized, Interoperable software rather than centralized solution:** The committee is deliberately not suggesting highly centralized uniform and single software across the universities in Maharashtra, so that various universities come up with different solutions suitable for them and innovation and creativity is ensured.	The design of all the functional modules is prepared to enable decentralization of activities. Interoperability of the software for integration with third party software is given on case to case basis. The activities are decentralized. However, data is centralized to achieve appropriate control by the university authorities. For first time, University has implemented e-transcripts and e-verification facility.
16	**Hardware and Software updating with latest versions:** Universities should at the time of procurement, purchase hardware with five years warranty/maintenance support and software with five years software assurance and maintenance support.	MKCL manages the hardware required for Digital University Framework which is regularly upgraded by a dedicated IT Infrastructure management team. Since there is a virtualization of servers, addition and upgradation are quickly possible. All updates and upgrades are given regularly in order to match changing nature of requirements. Technical support, maintenance throughout the year is provided through a support mechanism. University is using MSDN and MKCL facilities to update software. Installed four new Dell high performance servers.
17	**Quality and Cost Based Selection of IT Solutions:** Cost Based (L 1 based) Selection should be used only when the IT solution is simple, common and standardized. In case of innovative, complex and pioneering IT solutions, Quality and Cost based Selection should be used.	e-Suvidha fee is collected from students based on the e-Suvidha GR dated June 19, 2006. There is zero cost to university for software to manage the processes. As per common account code university is procuring the IT solutions. The Vice Chancellor of the University is authorized to take decision in case of innovative, complex and pioneering IT solutions, as per the recommendations of the technical committee constituted for this purpose.
18	**Decentralization of Examination Activities:** Colleges/Institutes with proven academic record and examination conducting reputation should be allowed to conduct their own examinations for all years. For other institutes, the university should conduct the final year examinations	The meeting of BOE held on 15/4/2015 decided that, the proposal for assessment of answer book of FYBA/B. Com/B.Sc at college level as a part of decentralization of examination activities. Colleges are given the facility to input Internal Examination/practical examination marks of concerned students through College login.

	and may consider decentralizing the examination process for pre-final years.	
19	**Increasing CAP Centres:** Universities should develop necessary CAP centres considering number of students and cluster of colleges.	From the examination of March/April 2014, the University had increased the CAP centres for all faculties. Under e-Suvidha scheme, Digital University Framework will support the CAP centres.
20	**Ensuring timely declaration of results and strong penal action against staff defaulting in examination related duties.**	Universities have successfully declared and declaring the results within time span as short as 04 days from last day of exams by using Digital University Framework. University has lapses committee to deal with the staff defaulting in examination related duties. Mar./Apr. 2018 exam,100% results are declared within 30 days. Oct./Nov. 2017 exam, 97% results are declared within 30 days, 3% results within 45 days.
21	**Stringent evaluation criteria:** Due care be taken to ensure that design and revision of various rules for grace marks and ATKT should not lead to dilution of evaluation of teaching-learning outcome.	Uniform policy ($1/3^{rd}$) framed by state Government is followed for ATKT criterion. Uniform ordinance is followed by the university for grace marks. After the first assessment of the answer book is over the scrutiny and moderation is done as per Uniform Ordinance.
22	**Increased emphasis on industrial trainings, practical's and application oriented Projects in evaluation**	For the professional faculties, syllabus consists of industrial training, practical and application-oriented projects in evaluation. Evaluation is carried out for all those courses which have industrial training, practical and application-oriented projects such as B.Com. B.Sc., MSW, M.Sc., M.C.A., M.Com., Engineering, M.B.A. Architect, Pharmacy etc. Hence, these recommendations are already implemented by this University.
23	**Online Examinations:** All universities should implement online examinations for internal examinations or as a part of external examinations on pilot basis in certain courses/examinations.	As per Management Council resolution No.14 (2) passed on 19/08/2014, University had decided to implement this recommendations step by step on the pilot basis. For the June 2015- UG/PG entrance examinations are, for the first time, conducted successfully by using OMR answer sheets with four sets of question papers (A/B/C/D) similar to NET/SET/MPSC/UPSC. Scan image of OMR answer sheet and answer keys were made available to the students on website for transparency. Online entrance examination for Ph. D was conducted successfully on 26/07/2015 (Engineering, Law and Pharmacy Faculty). The university had conducted online examination for

		the subject i.e. BECP of Engineering faculty.
		From the academic year (AY) 2016-17 the university had conducted examination of Environment Studies of Engr.
		From the AY 2017-18 had conducted the examination of Environment Studies and one subject of Engineering online. From June 2018 Online entrance examination for all courses of M.A./M.Sc. conducted on 05/06/2018 to 08/06/2018 successfully.
24	**Wholesome education by universities through Non-Credit/Certification Courses, Self-Certification, Extra Marks/Credits, MOOC etc.**	Through Jan-Vikas Kendra, the University conducts 37 Certificate courses like CT scan, health assistant and Operation Theatre Assistant OTA. The subject like Environment Studies, PE and NSS /NCC/Extracurricular activities are included as non-credit courses. From the AY 2015-16, 10 additional marks were given to the Students, who have participated in NSS/NCC/Extracurricular activities. UGC sponsored Carrier Oriented Courses-Naturopathy and Cosmetology for Personal Health, Travel and Tourism, Tissue Culture, Water and Soil Testing, Office Management, Nursery Development and Vermi-Compost (Botany) and Course in Music – have been imparted in some of the affiliated colleges of the University. Flexibility of Choice Based Credit System (CBCS) has been implemented for all PG courses from AY 2015-2016 37 Self-supporting short-term Certificate Courses (3 Month, 6 Month and 1 year) have been imparted by Jan-Vikas Kendra, in various institutes and affiliated colleges. Total 37 supporting short term certificate courses (3 Month, 6 Month and 1 Year) have been conducted by Skill Development Centre, in various institutes and affiliated colleges. Following certificate courses are conducted in Shankarrao Mohite Mahavidyalaya, Akluj. i) Insurance ii) Repair and Maintenance of Electronic Appliances iii) Travel and Tourism. Credits are given for completing online NPTEL courses for engineering students.
25	**Online Thesis submission and evaluation for Post Graduate and Doctoral Courses:**	The soft copy of thesis is sent to the referees along with the thesis, for evaluation. The Provisions of Maharashtra University Act 1994 does not permit online thesis submission and evaluation at this stage. The panel of referees for evaluation of Ph. D.

		thesis is to be recommended by the Research and Recognition Committee (RRC) and the same is to be approved by the BUTR Committee under the provisions of Maharashtra Public University Act 2016.
26	**Plagiarism Detection Software:** This software checks for potential unoriginal content and instances of plagiarism within a document by comparing submitted papers/assignments to several databases.	The process of MoU with shodhganga-INFLIBNET is completed. The University co-ordinator for uploading the thesis on shodhganga is appointed. The plagiarism is checked by this section with the help of Urkund Online software. BCUD section is using this software extensively.
27	**Innovations in Exams like open Book, Take Home etc:**The main focus of teaching should shift from rote learning to the application of knowledge.	From the AY 2014-15 university has 30 % marks allocated to continuous internal evaluation which includes seminar, home assignment and tutorial, In the School of Computational Sciences, faculties use Google apps for education, app for submission and evaluation of internal assignment through online process.
28	**Strengthening of Examinations Cell/Division at Universities :** Establishment of dedicated examination cell/division in Universities. The Examination cell/division should be headed by COE and/or Director of Evaluation, full time officers etc. The COE and/or Director of Evaluations should be supported by well-equipped and trained permanent staff in sufficient numbers,based on the number of colleges, courses and students. Further, Coordinators representing each faculty in the university should be part of the examination cell/division.	The University has a dedicated examination cell. Proposal is submitted to State Government for the sanction of the additional posts of technical and administrative staff, as required by standard norms. University has established dedicated computer lab consisting 20 computers for exam related process.
29	**Equipping Examination Cells / divisions with appropriate technical manpower:** Examination Cell/Division should have a dedicated IT team comprising of Project Manager, System Analysts, Programmers, Data entry operators etc.	The University is having a System Analyst, exclusively dedicated for examination work. It has also appointed contractual employees in order to achieve optimal utilization of ICT in the operation of the examinations. Additionally, the faculty of Computational Science also supports the examination section due to shortage of required manpower.
30	**WCAG Compliance of IT Solutions:** Every IT solution implemented by the Universities should be compliant	MKCL is currently upgrading its content technologies to comply to WCAG. MKCL shall release the new version of website management tool after the completion of upgradation.

	to Web Content Accessibility Guidelines (WCAG) 2.0 Level A or the latest version of WCAG as issued from time to time as per the e-governance policy of Government of Maharashtra	Solapur University is using MKCL developed Digital University Portal. MKCL is informed to make it WCAG compliant.
31	**Use of ICT to empower differently abled Students:** The committee recommends that technology should be leveraged to self-empower differently abled students enabling them to take examinations independently. Leading Universities including Mumbai University and Pune University should undertake pilot projects on the same. Select ways include: Use of Screen Readers and online examinations, like currently used in international GRE tests may be adopted for giving tests to students who are visually impaired	The centre established with JAWS software to empower differently abled students of University. Detail proposal is sent to Director of Higher Education Pune for development of website accessible to differently able students.
32	**Accessibility of Examination Centres:** Every differently abled person has a right to higher education. Since examination is an important component of education, the universities should ensure that every differently abled student appearing for examinations has adequate, necessary and appropriate support for the purposes of such examinations.	Separate seating arrangement at exam centres, extra time and writer facility are provided to differently abled students. Seating arrangement for differently abled are arrange in ground floor; ramps are built wherever necessary; and ambient conditions are made available for such students during examination.
33	**Financial Requirements and Modalities of ICT Solutions: The Committee suggests the following for financing the ICT initiatives in Universities in Maharashtra** Larger Universities have surplus amount left from examination related revenue that they may utilize for implementing IT initiatives. Smaller Universities may collaborate with Larger Universities and enter into agreement with service providers jointly. Due to large numbers of students of both the universities combined, the cost per student of the IT solution should be reduced. Smaller Universities can share the infrastructure like Data Centre etc. of	The university has implemented e-Suvidha project by MKCL. Under this project digital university framework is developed to strengthen the ICT Solutions. Solapur University intents to collaborate with Shivaji University, Pune University, North Maharashtra University Jalgaon in connection to the agreement with service providers. The revenue generated from examination activities are used to strengthen examination cell with the more efficient ICT tools.

| 34 | **Sharing of best practices:** In the past, universities have been working in solos, with minimal or no interaction or sharing of best practices. Going ahead, all the universities including agricultural universities of Maharashtra should meet at least once every quarter and review the progress on the implementation and share best practices | 31 monthly meetings are conducted at MKCL Pune office. It provided a platform to share their best practices. It resulted into a practically deployable, generic yet configurable Digital University Framework for them. In order to adopt the best practices from other Universities, academic and administrative Staff of Solapur University has visited Shivaji University Kolhapur, V. T. U. Belagavi and NMU Jalgaon. On the other hand, to study the Examination Reforms implemented by Solapur University the representatives of Sant Gadge Baba Amravati University, Amravati and SNDT University, Mumbai, visited the Solapur University. Best practices like online provisional certificate, e-transcripts and e-verification etc. by Solapur University can be shared with other university. The University officials have visited Pune University and have purchased JAWS software for differently abled student. |

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

Sr. No.	Name of the School	Total
01	School of Physical Sciences	04
02	School of Chemical Sciences	03
03	School of Earth Sciences	05
04	School of Social Sciences	05
05	School of Computational Sciences	06
	Total	23

2.10 Average percentage of attendance of students   85%

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division (in %)				
		Distinction	I	II	III	Pass
M.Sc. Polymer Chemistry	19	53.00	31.57	10.50	--	95.00
M.Sc. Industrial Chemistry	16	25.00	23.50	31.20	--	79.70
M.Sc. Organic Chemistry	26	34.00	34.60	23.00	3.80	95.40
Applied Electronics (Physics)	36	38.88	--	22.22	2.77	63.88
Electronic Sciences	14	64.28	21.42	7.14	--	92.85
Material Sciences (Physics)	29	5.12	33.33	18.90	--	74.35

M.C.A.	46	8.69	54.34	--	3.43	66.46
M.Sc. Computer Science	14	78.57	7.40	--	--	85.97
Statistics	20	45.00	--	--	--	45.00
Mathematics	40	40.00	27.50	5.00	--	72.50
Rural Development	20	--	40.00	60.00	--	100.00
Economics	30	6.66	53.33	23.33	16.66	99.98
Mass Communication	37	8.10	32.43	40.54	5.40	86.47
History & Archaeology	43	20.93	27.90	25.58	23.25	97.66
Applied Geology	15	13.33	73.33	13.33	--	99.99
Geo-informatics	14	7.14	85.71	7.14	--	99.99
Environmental Science	11	36.36	54.54	--	--	90.90

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

IQAC has recommended the implementation of CBCS pattern in Teaching, Learning and Evaluation. The CBCS pattern offered by the university consists of Hard Core, Soft Core and Open Electives which are interdisciplinary and trans-faculty in nature. Thus, it is a significant step in achieving academic flexibility and horizontal mobility.

The University conducts and overseas teaching, learning and evaluation. The committee of teachers monitor seamless implementation of the planned academic calendar. The committee, further, collects the feedback from all the stakeholders of the university and analyses and submits a report to various authorities of the University. The recommendations are assessed for improving the teaching process of the University.

2.13 Initiatives undertaken towards faculty development:

Following are details of various programmes attended by teachers:

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	02
UGC – Faculty Improvement Programme	--
HRD programmes	--
Orientation programmes	--
Faculty exchange programme	--
Staff training conducted by the university	--
Staff training conducted by other institutions	
Summer / Winter schools, Workshops, etc.	--
Others	--

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	177	33	--	142
Technical Staff	24	13	--	41
Total	201	46	--	183

Criterion – III

3.Research, Consultancy and Extension

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

International Conference on Emerging Technologies: Micro to Nano (ETMN-2017), Organized by School of Physical Sciences, Solapur University, Solapur, on 6-7th Oct. 2017.

3.2   Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	02	07	01	01
Outlay in Rs. Lakhs	36.8	181.93	10	68

3.3   Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	00	02	00	00
Outlay in Rs. Lakhs	00	3.5	00	00

3.4   Details on research publications

	International	National	Others
Peer Review Journals	79	07	--
Non-Peer Review Journals	00	00	--
e-Journals	--	--	--
Conference proceedings	41	14	00

3.5 Details on Impact factor of publications:

Range 0-5.6 Average 3.3 h-index 116 Nos. in SCOPUS 4304

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (Lakhs)	Received (Yr. 2015-16) (Lakhs)
Major projects	2015-2018 2015-2018 2016-2019 2017-2020 2018-2020	DAE-BRNS CSIR CSIR DST DEITY UGC	212.85	130.57
Minor Projects	2017-2019	BARTI / ICHR SUS	10.5	7
Interdisciplinary Projects	---	---	---	---
Industry sponsored	---	---	---	---
Projects sponsored by the University/ College	---	---	---	---
Students research projects *(other than compulsory by the University)*	---	---	---	---
Any other(Specify)	---	---	---	---
Total			222.90	137.57

3.7 No. of books published   i) With ISBN No.   05   Chapters in Edited Books   06

ii) Without ISBN no.   02

3.8 No. of University Departments receiving funds form

UGC- SAP   01   CAS   00   DST-FIST   00

DEP   00   DBT Scheme / funds   00

INSPIRE   01   CE   00   Any Other (specify)   00

3.9 For colleges   Autonomy   NA   CPE   NA   DBT Star Scheme   NA

INSPIRE [NA] CE [NA] Any Other (specify) [NA]

3.10 Revenue generated through consultancy [--]

3.11 No. of conferences organized by the Institution	Level	International	National	State	University	College
	Number	02	03		03 (NET/SET)	---
	Sponsoring agencies	CSIR, DST,SUS	SUS, UGC, DST, ISAG		SUS, Quick Heal Foundation	--

3.12 No. of faculty served as experts, chairpersons or resource persons [14]

3.13 No. of Collaborations International [03] National [02] Any other [00]

3.14 No. of linkages created during this year [00]

3.15 Total budget for research for current year in lakhs :

From Funding agency [46.47]

From Management of University/ College [--]

Total [**46.47**]

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	02
	Granted	00
International	Applied	00
	Granted	00
Commercialised	Applied	00
	Granted	00

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
14	--	08	01	05	-	--

3.18 No. of faculty from the Institution who are Ph. D. Guides 16

  and students registered under them 26

3.19 No. of Ph.D. awarded by faculty from the institution 20

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

JRF 01 SRF 02 Project Fellows 05 Any other 02

3.21 No. of students participated in NSS events :

University level 100 State level --

National level 00 International level 00

3.22 No. of students participated in NCC events :

University level 00 State level 00

National level 00 International level 00

3.23 No. of Awards won in NSS :

University 00 State level 00

National level 00 International level 00

3.24 No. of Awards won in NCC :

University level | 00 | State level | 00

National level | 00 | International level | 00

3.25 No. of Extension activities organized

- *Dexter Innofest*- 2017 Competition in which total 284 students participated.
- Campus Interviews arranged and 19 students were selected in these on and off interviews.

University forum | Yes | College forum | 00

NCC | Regularly | NSS | 00 | Any other | 00

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

- Yoga day on 21st June 2017 & 2018
- Plantation on University campus.
- Swachha Bharat Abhiyan.
- Blood donation camp on University foundation day.
- Invited lecturers by Scientist & Eminent Professors.
- Adoption of 07 Villages from Solapur District.
- World Environment Day Celebration.
- NadiSanwad- Student Interaction Program.
- Environmental Quiz Competition.

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	632 x 215 ft.	-	-	632 x 215 ft.
Class rooms	22	02	-	24
Laboratories	36	01	-	37
Seminar Halls	02	-	-	02
No. of important equipments purchased ($\geq$ 1-0 lakh) during the current year.	56	26	DST Project University Fund DST-SERB Project CSIR Project Innovative Research Activities Scheme Project RUSA Component 3C (Equip. & E. Resources) University development fund RUSA component 3C (Equip. and E. resources) UGC XIIth 5 yr plan Visvesvaraya Ph.D. Scheme for Electronic and IT & University Fund , RUSA University development fund and RUSA	82
Value of the equipment purchased during the year (Rs. in Lakhs)	2,96,84,629.35	1,78,38,301.35	DST Project University Fund DST-SERB Project CSIR Project Innovative Research Activities Scheme Project RUSA Component 3C (Equip. & E. Resources) University development fund RUSA component 3C (Equip. and E. resources) UGC XIIth 5 yr plan	4,75,22,930.7
Others	-	-	-	-

4.2 Computerization of administration and library

> The administrative and library staff uses computers for day to day activities. Most of the library transactions were computerised.

4.3 Library Resources:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	11242	17,88,141/-	1069	16,29,921	12311	34,18,062/-
Reference Books	592	91,525/-	--	--	592	91,525/-
e-Books	494	47,50,937/-	--	--	494	47,50,937/-
Journals	135 (109+26)	22,31,324/-	110 (86+24)	21,00,232/-	245	43,31,556/-
e-Journals	--	--	44,000/-	1,00,878/-	44,000	1,00,874/-
Digital Database	--	--	--	--	--	--
CD & Video	142	--	--	--	142	--
Others (specify)	--	--	--	--	--	--

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	451	83	-	-	-	06	41	19
Added	145	-	Yes	-	-	-	-	-
Total	596	83	-	-	-	06	41	19

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

1. The internet facilities are made available in all the rooms including classes, laboratories, staff cabins etc.

2. Computers in all the Schools are connected to internet

3. Statistical Package for the Social Sciences (SPSS) software is also made available on the campus.

4.6 Amount spent on maintenance in lakhs :

i)	ICT	0.04
ii)	Campus infrastructure and facilities	-
iii)	Equipments	111.00
iv)	Others	16.00
Total :		127.00

Criterion – V
5.Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

Language Laboratory is established for the benefit of the college and university students in general and mass media and communication in particular. Recently University has purchased 16 of smart class and other pedagogical tools for enhancement of teaching and learning activities in the University. Campus networking through NME-ICT facilities- Wi-Fi and Cabling of Optic Fibre established on the campus. 314 computers are purchased to increase the facility for the students. 44,000 e- journals and 494 e-books are added to the existing corpus of the University Libraryduring the assessment period.

5.2 Efforts made by the institution for tracking the progression

Along with alumni network and getting the information of their current employment status, Alumni meets were conducted on the regular basis, in order to support them in connection to the placement and motivate them for entrepreneurship by making them available the expert's guidance of successful entrepreneurs.

5.3 a) Total Number of Students

UG	PG	Ph. D.	Others
	669	32	

b) No. of Students outside the state

--

c) No. of international students

--

Men	No.	%	Women	No.	%
	309	46.18		360	53.81

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
302	98	02	207	--	541	224	71	01	181	--	669

Demand ratio   Dropout percent:

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

- Coaching classes were organised for the preparation of NET/SET/GATE examinations by the School of Chemical Sciences.
- SET/NET coaching is given by all the Schools.

No. of students beneficiaries   669

5.5 No. of students qualified in these examinations

NET   03   SET/ SLET   11   GATE   02   CAT   --

IAS/IPS   --   State PSC   --   UPSC   --   Others   --

5.6 Details of student counselling and career guidance

- Special workshops for SET/NET/GATE exams are organized by the different schools of the University.
- Organized Quiz competition for M.Sc. Students by the Department of Chemical Sciences and Computational Sciences.
- 90% students of School of Chemical Sciences have been accommodated on different positions in pharmaceutical / Chemical companies all over India.

No. of students benefitted   669

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
School of Computational Sciences 05	60	13	03
School of Social Sciences 01	30	14	04

5.8 Details of gender sensitization programmes

...

5.9 Students Activities

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

State/ University level | 14 | National level | 04 | International level | -- |

No. of students participated in cultural events

State/ University | 13 | National | -- | International | -- |

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

Sports :   State/University level | 05 | National level | 03 | International level | -- |

Cultural :   State/University level | 03 | National level | 01 | International level | -- |

5.10 Scholarships and Financial Support

School of Computational Sciences	Number ofstudents	Amount
Financial support from institution	02	Approx. Rs.1500/- Per Student per month
Financial support from government	Government Scholarship to all backward category students	
Financial support from other sources	i) 3 Research Scholars(Visvesvaraya Ph.D. Scheme of Electronics and IT) ii) 1 Research Scholar under INSPIRE fellowship by Ministry of Science and Technology	Approx. Rs. 37000/- per student per month. Approx. Rs. 31800/- per month
Number of students who received International/ National recognitions	--	--

School of Social Sciences	Number of students	Amount
Financial support from institution	17	2,99,980/-
Financial support from government	340	49,28,290/-
Financial support from other sources	92	5,42,200/-
Number of students who received International/ National recognitions	--	--

School of Chemical Sciences	Number of students	Amount
Financial support from institution	--	--
Financial support from government	100%	
Financial support from other sources	--	--
Number of students who received International/ National recognitions	--	--

School of Earth Sciences	Number of students	Amount
Financial support from institution	02 (Kamva ani Shiaka) 03 (Muli Shikwa samaj ghadwa)	13920/- 48890/-
Financial support from government	--	--
Financial support from other sources	--	--
Number of students who received International/ National recognitions	--	--

School of Physical Sciences	Number of students	Amount
Financial support from institution	(DRF) 01 (Earn and learn) 03	10000 p.m. Approx. Rs. 3600 p.m
Financial support from government	--	--
Financial support from other sources	--	--
Number of students who received International/ National recognitions	--	--

5.11 Student organised / initiatives

Fairs: State/University level | 04 | National level | -- | International level | -- |

Exhibition: State/University level | 01 | National level | -- | International level | -- |

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

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

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision

To become a dynamic knowledge centre that amalgamates high quality teaching and research with a sense of belonging and commitment to the society.

Mission

To create young persons of impeccable quality through a combination of high quality curricula, innovative pedagogy of higher education and cutting edge research to fearlessly face the challenges of the ever changing world scenario and to contribute towards creation of a benevolent and compassionate society.

6.2 Does the Institution has a management Information System

Yes. University has a well-designed MIS in place and one Asst. Professor of Computer Science is in charge of this activity. All the information on MIS of the University and affiliated colleges is maintained and updated regularly.

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

6.3.1   Curriculum Development

Syllabus of the courses is updated every three years. Currently, Choice Based Credit System (CBCS) is implemented for all the courses. It gives the students freedom to learn the subjects of their passion offered by some other faculty.

6.3.2   Teaching and Learning

At the end of every semester, student's online feedback is taken about course structure and faculty. The report of said feedback is conveyed to the concerned faculty for further action. The feedback helps the faculty, not only in improving their skills, but also in making the teaching-learning process more effective and student-centric.

6.3.3 Examination and Evaluation

Examination work is done through online modules provided through e-suvidha as far as possible. The question papers for both theory and practical examinations are sent to exam centres online and are protected with an encrypted password. This password is received by the Senior Supervisor just before the few minutes of commencement of the exam.

Evaluation process is carried out in a speedy manner in order to declare the result within a stipulated time period. Masking and coding of answer papers is done to maintain confidentiality.

This year, University implemented barcode answer-book system. It helps in double masking the answer book in order to have proper and unbiased assessment.

6.3.4 Research and Development

In order to promote the research activity, Department Research Fellowship (DRF) is given to the deserving research scholars of each department on the University campus. To cultivate research temperament among the faculty of the University and the affiliated colleges, who have not received any funded projects, the University has sponsored research seed money scheme. The University alsoprovides financial assistance to the faculty to present research papers in National and International Conferences in India and abroad. Faculty are motivated to submit research proposals to different funding agencies. The University is actively engaged in purchasing new sophisticated instruments in its Instrumentation Centre for providing analysis facility to the students, teachers and other service seekers.

PG students, research students and faculty members are always encouraged to participate in activities like Avishkar. In the AY 2017-18, the University won 5 prizes in State level Avishkar Competition-2017.

6.3.5 Library, ICT and physical infrastructure / instrumentation

The University library has bought new books, e-books and e-journals from RUSA funding. RFID system is introduced in the library. New computers of higher version were purchased for extending the internet facility in the library from RUSA funds.

To have easy access to procure books for students, schools have enriched the departmental libraries.

Most of the classrooms are equipped with LCD projector. Every school has a Digital Classroom.

6.3.6 Human Resource Management

The work distribution is done across different cadre of the administrative staff to bring out optimal productivity at work.

6.3.7 Faculty and Staff recruitment

The regular faculty as well as faculty on contract basis is appointed by advertising the post in various newspapers. The posts are filled by properly adhering to the norms and regulations set by UGC/AICTE, Central and State Government. Teaching Faculty on Contract basis are recruited on yearly basis.

6.3.8 Industry Interaction / Collaboration

In order to strengthen the University-Industry bond, collaboration is done with various industries. This collaboration is useful for expanding the horizons of teachers as well as students. The School of Computational Sciences is having MoU for Collaborative work with Quick Heal Foundation.

6.3.9 Admission of Students

The admissions to various courses are strictly on Merit basis. Entrance examinations with multiple choice questions is conducted. The merit list for admission is prepared based on score of this entrance test and score at graduation level. The reservation norms set by Government are strictly followed for admissions.

6.4. Welfare schemes :

Teaching	General and medical Insurance,
Non-teaching	General and medical Insurance, Festival Advance, LTC, Uniform to class IV employees, VC Development Fund
Students	General Insurance, Free Books, Scholarships.

6.5 Total corpus fund generated

Rs. 5,39,99,691/-

6.6 Whether annual financial audit has been done Yes ✔ ☐

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic			Yes	
Administrative			Yes	

6.8 Does the University/ Autonomous College declare 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 has adopted CBCS pattern. For the examination reforms, the University has successfully implemented online procedure for Pre-On-Post Examination.

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

Those who have scored a grade A in NAAC Accreditation are encouraged and motivated to take autonomy.

6.11 Activities and support from the Alumni Association

Different Schools of the University organize Alumni meet at the end of every academic year along with a combine farewell function for the last year students. The Alumni meet response is encouraging as 45 alumni participated in the meet for the year 2017-18.

6.12 Activities and support from the Parent –Teacher Association

Parent-Teacher Meetings were generally held once in a year. The common issues which are discussed in such meetings are – the discipline on the campus, regularity in attendance, payment of fees and the career prospects.

6.13 Development programmes for support staff

Workshops and orientation training, experts' lectures in house and outside, Sports and Yoga activities are encouraged during the current year. The University staff also celebrated Women's Day with a great zeal. Gender sensitization programs were organised during the current year.

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

A mass tree plantation programme was conducted on 2nd July of every year on the University campus. There are a group of student volunteers of every school to nurture plants on the campus.

Criterion – VII

7. Innovations and Best Practices

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

1. MoU with Quick Heal Foundation (QHF), Pune was made. Through this MoU three activities were organized i.e. online course on "Cyber Security Awareness", "Earn and Learn Scheme", and "Faculty Development Program". Under Earn and Learn scheme 26 students of MCA and M.Sc. (C.S.) delivered seminars in 47 schools and colleges on the topic of "Cyber Security Awareness". These students received remuneration of Rs.1,46,400/- from QHF.
2. MOOC software issued for the tutorials of students studying in Futuristic Study Course in School of Social Sciences.
3. All faculty members belonging to School of Social Sciences have been using Smart Boards for Teaching.
4. E- Study material (Books and PPTs) is uploaded on each PC in Computer Lab and made available to the students of Social Sciences.
5. CBCS is implemented in M. Sc. Curriculum. Tutorials and internal test are also introduced. In order to motivate the young researchers, workshops and seminars were conducted.
6. School of Chemical Sciences organized National Science Day 2018. On this occasion events like Quiz Competition, Elocution and Debates were organized. Students from different specializations have participated in admirable numbers in all of these competitions.

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

1. Every teacher was assigned with maximum of 20 students as mentor. The mentors regularly interacted with the students to know their personal as well as academic problems. The teachers then approached concerned authorities to provide solutions for the problems reported by the students.
2. As per the curriculum tutorials, internal tests, seminars are used to evaluate students' performance. As a result, the research publications by new researchers are increasing. Orientation programme was organised for M.Sc.I students.
3. Tree plantation was undertaken around the premises of School of Chemical Sciences.

7.3 Give two Best Practices of the institution *(please see the format in the NAAC Self-study Manuals)*

Two Best Practices

1. Green energy initiatives:
Solar energy is one of the green energies which helps in reduction of carbon emission in the environment. In this regard the University undertakes the initiative to install solar power plants and as first step to realize this initiative, the University installed 100 KW Solar Power Plant on the rooftop of the library building under the RUSA grants in April 2018. This plant is generating approximately 400 KWH units of power per month. Installation of this power plant resulted in the drastic reduction in power consumption of conventional energy supplied by the Maharashtra State Electric Board, which is mostly dependent on the coal for power generation. Approximately 25% of the power needed is generated through this Solar Power Plant.

Motivated by these encouraging facts, the University took further initiative to install 150 KW additional solar power plants on the rooftop of Schools of Physical, Chemical and Computational Sciences under the smart city project. The Solapur City Development Corporation Ltd. (SCDCL) accepted our proposal and started the process of installing 150 KW solar power plants and these plants are expected to start functioning from April 2019 and are expected to serve the power needs of entire University campus. If all plants start functioning then on an average 27,000 KWH (units) of power is expected to be generated per month.

2. **"Earn and learn" and "MuliShikawa, Samaj Ghadawa" Schemes:**
The University has implemented a scheme of Earn and Learn for the students studying in the University Departments who are from financially weaker section and who find difficulty to meetout their daily expenses and fees for the studies. About one student from each department is selected for this scheme based on their financial condition and other parameters like the merit in previous classes and regularity for the classes. Such selected students are assigned with some work in any specific department based on the skills they have. These students work for two hours per day and would earn their daily livelihood by doing services in the departments/sections where they are deputed.

In another scheme named "*MuliShikawa, SamajGhadawa*" the meritorious girl students from financially weak background are selected one each from each school and complete financial assistance including the boarding and food expenses is provided by the University. The scheme encourages the girls to continue their higher education.

Other Best Practices

Best Teacher and Best Employee award:
In order to encourage the teachers and non-teaching staff, University has commenced best teacher award and best employee award which are given every year on the University Establishment day. The committee constituted for the selection of these awardees, scrutinize the

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applications and based on their performance in the institution the selected teacher and employees are awarded with the best teacher and best employee awards respectively.

Provide the details in annexure (annexure need to be numbered as i, ii,iii)

7.4 Contribution to environmental awareness / protection

1. University has undertaken the initiative to install solar power plants and as first step to fulfil this initiative, the university has installed 100 KW Solar Power Plant on the rooftop of the library building under the RUSA grants in April 2018. This initiative greatly contributes to use of green energy and reduction of usage of conventional energy sources.
2. Plantation Every year the schools plant trees around their buildings. The result is that many plants have grown up and positively contributing to the green environment of the campus.
3. Conducted Study tours for the students at various sanctuaries in Nagpur and Chandrapur district
4. Celebrated Ozone Day in School of Earth Scienceson16[th] Sept. 2017
5. Celebrated One week "Wild life week" at Nannaj wild life sanctuaries.
6. Under Swach Bharat Abhiyan cleanliness of campus is done once in week for 2 hours.
7. Plantation of saplings was organized.
8. Tree plantation was undertaken around the premises of School of Chemical Sciences and Earth Sciences. These planted trees are nurtured throughout the year from one of the student deputed through university Earn and Learn scheme. Moreover on every Wednesday, teachers, students and nonteaching staff conduct cleaning programme in and around school of Chemical Sciences.

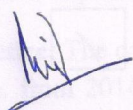7.5 Whether environmental audit was conducted?   Yes [-]   No [✓]

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

1. Created compatible, responsible, friendly environment in the institute by conducting lecture series eg. Labhsetwar Vyakhyanmala.
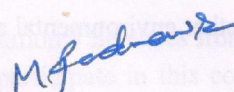
8. Plans of institution for next year

1. Establish incubation centre to enhance entrepreneurship opportunities for students, staff and alumni.
2. Introduce new skill-based courses based on needs of society.
3. Build a strong alumni network.
4. Connect parents with campus.
5. Increase the placement activity.
6. Organise additional training programmes for the development of students, faculty and non-teaching staff.
7. Training faculty and researchers on IPR awareness and motivating them to convert their innovation into IPR.
8. Organising workshops and conferences.
9. Enhancing number of MoU's with premier institutions.
10. Strengthening research facilities and IT infrastructure.
11. Improving communication skills of students.
12. Opening School of Languages and Life Sciences.
13. Introducing multidisciplinary research to support framing policy for the society.
14. Development of unutilized 482 acres of land for agro tourism and construction of buildings.
15. To add green energy sources.
16. Enrichment of knowledge resource centre.
17. Organize refresher and short term faculty improvement programmes.
18. Improvement in sports infrastructure and promotion of sports activities.

Signature of the Director,

IQAC

Signature of the Chairperson,

IQAC