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Submitted to

PART-I

SHIVAJI UNIVERSITY, KOLHAPUR

THIRD CYCLE ACCREDITATION REPORT PART-I

SELF-STUDY REPORT (2009-2014)

SUBMITTED TO

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC) BANGALORE-560 072, KARNATAKA, INDIA

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PREFACE

The NAAC accreditation of higher education institutes in India has undoubtedly helped to enhance the qualitative and quantitative growth of human resource development which was envisioned in the constitution of free and democratic India some sixty years ago. NAAC has provided us an opportunity to assess ourselves in order to earmark our benchmarking for mapping the roadmap. The University has undergone two cycles of the accreditation. The recommendations of second cycle NAAC Peer Team and the continuous assessment of the Academic and Administrative Audit Committee (AAA) have enabled us to provide better contextualized educational services to the stakeholders.

The University is committed to cater to the societal needs through our well defined goals and the dynamics of academic, research and extension activities. Our researchers are committed to address various socio-economic and industrial issues which emerge from time to time.

The university authorities have provided their expertise to comply with the queries, recommendations and suggestions made by the NAAC Peer Team. The efforts have been made to improve the quality of the academic and research activities through various policy and strategic initiatives.

The AQARs for the years 2008-09, 2009-10 and 2010-11 were reported to the NAAC in hard copies. The revised online AQARs for the years 2011-12 and 2012-13 have been forwarded to the NAAC, Bangalore.

The University is well set for the Third Cycle Accreditation by NAAC which is very likely to take place in the month of August, 2014. In view of this, the Self Study Report (SSR) is submitted to the NAAC, Bangalore. The University has made a tremendous growth in terms of its academic, research and extension services during the last five years.

The performance of the University is very well reflected in the SCOPUS publications of the University, which is 1508 during 2009-2014. The h-index of the University has reached the mark of 46. The range of impact factor of our publications stands between 0.0 and 17.38. This has helped the University to achieve the 25th rank among all Indian Universities in research publications, which is a distinct achievement.

The Steering Committee and the Internal Quality Assurance Cell (IQAC) have shouldered the responsibility of drafting the SSR. The administrative sections and academic departments of the University provided the best of their services to the stakeholders.

It is one of the efforts to serve the nation through the best of academic and administrative services in the context of postmodern academic culture.

Place: Kolhapur. Date : 07-05-2014

Professor N. J. Pawar Vice-Chancellor

EXECUTIVE SUMMARY

Shivaji University, named after the founder of Maratha Empire Chhatrapati Shivaji, was inaugurated on 18th November 1962, by the legendary philosopher and educationist Dr. S. Radhakrishnan, the then President of India. One of the major and consciously pursued objectives of this University was to cater to the educational needs of South Maharashtra. This was already professed and actively practised in the Kolhapur State by the great reformist, Chhatrapati Rajarshi Shahu Maharaj (1874-1922). Thus the establishment of Shivaji University was the culmination and fulfillment of the long cherished aspirations of the people of this region. Under the able leadership of Late Dr. Appasaheb Pawar, the first Vice-Chancellor of this University embarked upon the path of progress which was traversed by the other Vice-Chancellors. The untiring efforts in the new millennium have brought this University a nationwide recognition and honour as now it stands at 25th rank among all the Universities in India.

The period of the Third Cycle Accreditation (2009-2014) has witnessed some of the most notable achievements in every aspect of progress. The University was placed at "B^{+"} grade (77.75) in 2003 and "B" grade (with CGPA 2.85) in 2009. We now look forward to accreditation for the third time in 2014.

The phenomenal changes in the socio-political ethos under globalization have affected every walk of life including higher education. The innovative ideas under the new dispensation have been accepted by our University also and we have geared ourselves for progress keeping in mind these changes.

The year 2011-12 was a great landmark in the history of the Shivaji University, Kolhapur as it celebrated its Golden Jubilee.

The IQAC concentrated on scientific and technological development of the University on one hand and upliftment of the society on the other in the assessment period. Its benchmarking was in the light of the five core values that NAAC expects higher education institutions to attain. This has already been reflected in diversified areas as defined by Motto, Vision, Mission and Goals.

Motto:

The motto incorporated in the logo of Shivaji University is "ज्ञानमेवामृतम्", which means "Knowledge alone is Nectar".

Vision:

Shivaji University is committed to meeting the educational, social, cultural and economic needs of the region and the nation to create a just and humane society.

Mission:

We are dedicated to promoting and fostering a culture of high quality teaching and learning, and serving the societal needs by encouraging, generating and promoting excellence in research and extension activities.

Goals:

- (i) To make relentless efforts for the spread of University education among classes and communities, which are socially and educationally underprivileged.
- (ii) To make special provision for disseminating knowledge and promoting arts and culture in rural areas.
- (iii) To supervise and control the conduct and discipline of students of the University and to make arrangements for promotion of their health and general welfare.
- (iv) To create a fine band of capable young researches/teachers with great insatiable thirst for knowledge and scientific curiosity.
- (v) To promote the study and research of Marathi language and history of Maharashtra.
- (vi) To provide opportunities to the University community to reach their highest personal and professional capability.
- (vii) To develop the personality and character of the students through value education and ICT-based teaching.

The campus of the University spread over the area of 345.20 hectares out of which 43 hectares are covered by built up area.

The University creates necessary infrastructure systematically and continuously, based on the rising requirements of the various stakeholders. The University is well equipped with excellent physical infrastructural facilities like adequate classrooms, laboratories, libraries, staff rooms, rest rooms, recreation halls, indoor and outdoor auditoria, conference halls, study halls, and ramps for the differently abled, playgrounds and tracks, indoor sports centre, hostels, administrative building, guest house, post office, bank, printing press, USIC and health centre which are sufficient enough to satisfy almost all kinds of facilities and services. All infrastructural facilities are optimally used by the University and other social organizations.

Sophisticated instruments such as DNA sequencer, High Pressure Thin Layer Chromatography (HPTLC), High Performance Liquid Chromatography (HPLC), procured by the Department of Biochemistry, are shared with the Departments of Microbiology, Biotechnology and Environmental Science. These instruments are also available to other Science and Technology Departments. Physics Instrumentation Facility Centre (PIFC) was established at the Department of Physics in 2012 to provide characterization facilities for researchers working in Science and Technology areas. Such facility is also created at the Department of Chemistry.

The main canteen and four snack spots are open from 7:30 a.m. to 6:00 p.m. supplying refreshment to the students, staff, visitors and guests.

The University has ensured uninterrupted power supply by paying special deposit with Maharashtra State Electricity Distribution Company Limited (MSEDCL). In addition to this, generators with various power capacities, invertors, UPS, solar street lights and lamps are used on the campus during power failure.

Krida Maharshi Meghnath Nageshkar Krida Sankul has been a very active sports hub right from early morning till late evening. The playgrounds and tracks are used to conduct games and mass drill for University students and the regular activities of NSS. It is used for sports activities such as Volley Ball, Basket Ball, Kho-Kho, Cricket, Football, Badminton and Kabaddi. Krida Sankul has 400 metre Synthetic Athletic Track of International Standard, the first of its kind in the State. It is a matter of pride that five of our students represented the country at the Olympic and International Sports Events during the assessment period.

There have been significant additions to the infrastructural facilities of the University, such as New Library Building, Students Facility Centre, Women Facility Centre, Examination Building - 2, *Lok Kala Kendra* (Centre for Folk Arts), Boys Hostel Recreation Hall, Additional Ladies Hostel, buildings for Departments of Technology, History, Nanoscience and Technology, Amphitheatre, Sophisticated Studio for the Department of Music and Dramatics.

Water-harvesting and self-sufficiency in water supply are taken care of by constructing two water reservoirs with the total capacity of 10.26 Mcfts. In addition the University has a dug well with 100 ft. diameter. The University has developed two wetland ponds.

There are following five different capacity auditoria built during the assessment period:

- 1) Department of Music and Dramatics Auditorium 200 seats.
- 2) Department of Botany Auditorium (*Nilambari Multipurpose Hall*) 200 seats
- 3) Department of Chemistry Auditorium 200 seats.
- 4) Department of Education Auditorium 150 seats.
- 5) Students Facilitation Centre Auditorium 150 seats.
- 6) Department of Geography Auditorium 200 seats.

The University encourages eco-friendly atmosphere on the campus. The concept of Green Campus has been developed by the University for creating eco-awareness among the students. Biodiversity Park as a prestigious project of the Department of Botany is catering to the needs of farmers in the vicinity as well as students.

The University Health Centre provides all necessary medical facilities to the members of the University staff, their family members, retired staff, students and University guests. This facility is also extended to outsiders residing nearby the campus. It is a well equipped centre with sophisticated instruments. Nearly 18,000 patients avail of health services every year from the Health Centre.

The University has a culture of student centric education and learning. The Departments ensure the student centric learning and knowledge management by using ICT tools, library facilities for self-learning, ensuring holistic development and enhancing student learning with the help of poster-sharing, group discussion, quiz, interaction with community for learning i.e. Participatory Rural Appraisal (PRA), educational tours, concurrent and block field work, summer placement training in movement organizations, joint projects by the students, participation in research competition (*Avishkar*) and workshops.

Yashwantrao Chavan School of Rural Development, and School of Nanoscience and Technology have been established during the assessment period.

The university has instituted a unique Scheme of *Shivaji University Merit Scholarship* by raising a fund of Rs. 4 crores out of which it offers about 500 merit scholarships to the students from the affiliated colleges and University Departments. Under this scheme each selected scholar at UG level, receives Rs. 500 per month and Rs. 1000 at the PG level. The scholarships are tenable for 10 months which is disbursed in single installment every year. The University has also instituted Departmental Research Fellowships for Ph.D. students in its PG Departments from 2005-06. The scheme is revised in the year 2012-13 and renamed *Golden Jubilee Departmental Research Fellowship*.

The University promotes ICT in academic, administration and evaluation for which the following tools have been used:

- i) Academic Resource Centre.
- ii) Increase in the internet speed up to 20 MBPS bandwidth with 2535 nodes.
- iii) ICT enabled Accounts Code developed by the University Finance and Account Section and acclaimed by the Hon'ble Chancellor and adopted by majority of the universities in the State.
- iv) Data Centre.
- v) Secured Remote Paper Distribution' (SRPD) and e-delivery of question papers.

- vi) Digital University and Digital College Scheme.
- vii) Connectivity of 1 GBPS granted by National Knowledge Network through NME-ICT Project.
- viii) E-access to library resources on 24 x 7 bases.
- ix) Digitization of the University record. (Examination Ledgers and minutes of the meetings of Academic Council and Management Council.

The Distance Education Centre provides higher education facility to about 45,000 students mainly from rural areas and to the marginalized sections of society through distance mode.

The University provides diversified academic programmes/courses such as Post-graduate programmes (32), Diploma Courses (30), Certificate Courses (07), short-term and need based programmes (Adult and Continuing Education and Extension and Centre for Community Development) (61).

Substantial grants of Rs 4567.75 lakhs from different funding agencies like UGC, DST, DBT, PURSE, the World Bank and the State Government have been sanctioned to the University. In addition to that the teachers, administrative staff, Principals and alumni have generously donated Rs. 115 lakh to the university on the occasion of the Golden Jubilee year for the development of the university. The industry sponsored projects of Rs. 83.07 lakhs have been sanctioned to the University. The University has received Rs. 1564.68 lakhs for the ongoing research projects, Rs. 930.79 lakhs for completed research projects and Rs.508.93 lakhs for National and International collaborative research. The gross amount of Rs. 7655.22 lakhs has been received by the University during assessment period.

Ten departments have been identified under UGC-SAP (Special Assistance Programme) i.e. Physics, Economics, Sociology, Chemistry, Botany, English, Geography, Zoology, Electronics, and Biochemistry with the funds of Rs. 883.75 lakhs.

Eight Departments have been identified under DST-FIST with funding of Rs. 680 lakhs (Funding for Infrastructure in Science and Technology) i.e. Chemistry, Physics, Botany, Biochemistry, Zoology, Geography, Mathematics and Statistics.

All Science departments have received DST-PURSE of Rs. 900 lakhs, DBT-IPLS Rs. 501 lakhs, DBT-SAIF Rs. 500 lakhs, DBT-Biotechnology Rs. 103 lakhs and the World Bank funding of Rs. 1000 lakhs for TEQIP-II.

The total grants of Rs. 4,567.75 lakhs were offered to the university in recognition of the excellence achieved by the Departments. The University has received Rs. 46,33,920 on account of consultancy.

The Department of Physics is recognized by the UGC-SAP-DSA with a grant of Rs. 95.25 lakhs and Rs. 75.00 lakhs under UGC ASIST programme.

The university has signed 21 international MoUs with reputed universities and institutions from countries like, France, Canada, Japan, Russia, Cuba, Italy, South Korea, Nigeria, Chinese Taipei (Taiwan), Sri Lanka, Thailand and Brazil.

The University has taken the steps to promote research grants of Rs. 10 lakhs for the teachers in affiliated colleges on merit-based selection of proposals. The University has also provided R and D budget of Rs. 9998 lakhs during the assessment period. As a result of which following are some of the outcomes:

- 1. Department of Biotechnology is 8th amongst the top 20 B-schools identified for the third consecutive year (Biospectrum Survey)
- 2. Department of Physics ranks 3rd in publishing its research in Solar Energy (*Recent Trends in Science and Technology*, 2011, 3(10) pp. 112-117) and stood 20th rank for Material Science Research in India. (*DESIDOC Journal of Library and Information Technology*, 32 (6), Nov., 2012, pp. 477-481).
- 3. *'h'* index of University is 46.
- 4. Overall ranking of the University is 25 among all India Universities and IITs and 18th among the Universities in India for meritorious research achievements.
- 5. Research papers published in the reputed peer reviewed journals (2009-2014): 3707
- 6. Monographs: 26
- 7. Chapters in the books: 256
- 8. Books edited: 63
- 9. Books published: 182 (out of them 108 bears ISBN)
- 10. SCOPUS publications: 1508
- 11. International collaborative publications: 336
- 12. National collaborative publication: 386
- 13. Patents filed by the faculty members: 29.

Twenty six innovations have been introduced in the areas of scientific development, administration and academic development and safety measures.

Earn and Learn Scheme is a unique feature of this university ensuring work to any student admitted in the scheme. All educational expenses are met from the university annual budget. Approximately 150 students (100 boys and 50 girls) are admitted every year. A student working under *Work on Demand Scheme* receives financial support for his education.

The NSS unit of the University has been honoured with the *State Award for Excellence*. Dr D. K. Gaikwad, Director of Students Welfare and Programme Coordinator of NSS, is also honoured with the State Award for the Best Coordinator. One of the alumni and former faculty member of the Department of English, Prof. Ganesh Devi, has been honoured with *Padmashree* for his contribution to the field of education and literature in the year 2014.

The Lead Colleges Scheme is one of the unique features of the University for Academic and Total Quality Enhancement (TQE) on which Rs. 327.73 lakhs are disbursed during the assessment period.

The *Weaker College Development Scheme* is another feature of the University introduced on the eve of the Golden Jubilee under which an amount of Rs. 4.45 lakh was disbursed for infrastructural development to nine weak and non-aided colleges.

The university has a comprehensive IT policy and the road map based on all inclusive perception of future developments and resource generation.

Various recommendations, suggestions and weaknesses indicated by the last NAAC Peer Team for quality enhancement have almost been complied with.

With the primary objective of converting talents in higher education in to rich resources the Shivaji University is definitely emerging as one of the significant seat of learning in Indian higher education.

'SWOC' Analysis

Strengths

- 1. Innovative academic expansion
- 2. Enhancement of research and research publications (with 46 *h* index). Twenty five MoUs signed with national and international organization.
- 3. Establishment of Academic Resource Centre and Writing Labs.
- 4. The only university in the state to implement successfully the 'Lead College Scheme' for the total quality management of the stakeholders in affiliated colleges.
- 5. Efficient IT based innovative mechanism of examination administration and declaration of results in time, appreciated by the Hon'ble Chancellor of Maharashtra (485 examination 2, 50,000 students).
- 6. Outstanding performance of the sportsmen in Olympic and international games.
- 7. Efficient IT based Accounts Code (developed by the university) admired by the Hon' Chancellor and adopted by majority of the universities in the state through Govt. of Maharashtra.
- 8. Successful management of water resources on the campus.
- 9. *Earn and Learn Scheme* as an inclusive educational model implemented from 1968 onwards.
- 10. University supporting the weaker section of society (CLRI, Chennai collaboration for Kolhapuri Footwear)
- 11. Sensitization of the University towards Environmental problems of Western Ghat (Department of Botany)

Weaknesses

- 1. Desired number of international students yet to be achieved.
- 2. High impact factor yet to be achieved by the humanities.
- 3. Scope for augmentation of ICT tools in academic and administrative areas.

Opportunities

- 1. Scope for professional consultancies.
- 2. Clubbing every syllabus with skill-based component with a view to enhance employability.
- 3. Planned efforts for attracting foreign students.
- 4. A total solar energy-friendly campus in view.
- 5. Expansion of University-Society Interaction for sustainable development.

Challenges

- 1. Uniformity in Choice Based Credit System at State and National levels.
- 2. Teacher Training and Induction Programme to be institutionalized through a Centre.
- 3. Bringing the University at par with Global Seats of Learning.

PROFILE OF THE UNIVERSITY

1. Name and Address of the University:

Name:	SHIVAJI UNIVI	ERSITY,		
Address:	VIDYANAGAR, KOLHAPUR			
City:	Pin: 416 004	State: MAHARASHTRA		
XX7 1 · 4 · 1				

Website: www.unishivaji.ac.in

2. For communication:

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Coordinator	_	2301384			

3. Status of the University:

State University		
State Private University		
Central University		
University under Section 3 of UGC (Deemed University)		
Institution of National Importance		
Any other (please specify)		

4. Type of University:

- J P = = = = = = = J =	
Unitary	
Affiliating	

5. Source of funding:

······································	
Central Government	
State Government	
Self-financing	
Any other (please specify)	
UGC/DBT/DST/DAE/DRDO/CSIR/AICTE/RGTC/	 [
ICSSR/NBA/MRC	

6. a. Date of establishment of the university: 18th November, 1962 b. Prior to the establishment of the university, was it a/an

i.	PG Centre	Yes	No 🗸
ii.	Affiliated College	Yes	No 🗸
iii.	Constituent College	Yes	No 🗸
iv.	Autonomous College	Yes	No √
x 7	Any other (place specify):	actablished	under Shivaji

- v. Any other (please specify): established under Shivaji University Act, 1962 (Maharashtra Act No. XXVIII of 1962)
- vi. If yes, give the date of establishment: 18th November, 1962

7. Date of recognition as a university by UGC or any other national agency:

	Under Section	dd	mm	уууу	Remarks
i.	2f of UGC*	18	11	1962	Enclosed 1 st letter of grants
					from the UGC. (See
					Annexure I)
ii.	12B of UGC *	18	11	1962	Enclosed recent UGC list of
					recognition as on 30/06/2012
					(See Annexure II)
iii.	3 of UGC #	-	-	-	
iv.	Any other (specify)				Enclosed AICTE and NCTE
AI	CTE/NCTE				recognition letter
					(See Annexure III & IV)

* Enclose certificate of recognition.

[#] Enclose notification of MHRD and UGC for all courses / programmes / campus/campuses.

Enclose certificate of recognition by any other national agency/ agencies, if any.

8.	Has the university been recognized
	a.By UGC as a University with Potential for Excellence?
	Yes NO V
	If you date of recognition: (dd/mm/yuuu)
	If yes, date of recognition
	h For its performance by any other governmental agency?
	b. For its performance by any other governmental agency:
	Yes $$ No
	If was Name of the agency $NAAC$
	data of recognition: $08/03/2000$ (dd/mm/yauay)
	date of recognition. 08/05/2009 (dd/min/yyyy)
9.]	Does the <u>university</u> have off-campus centres?
	V_{es} $\sqrt{N_0}$
	If yes, date of establishment : 1) Panhala Fort - 18/01/2014
	2) Satara – 26/08/2006
	3) Malvan : 11/11/2003
10	
10.	Does the university have off-shore campuses?
	Yes \square No $$
	If yes, date of establishment:
11	

11. Location of the campus and area:

The University has no big campuses. However, very small spaces for conducting some experiments have been developed at three different places.

		Campus area in	Built up area
	Location *	hectares	in sq. mts.
i. Main campus area Semi-Urban Rural		345 hectares	1,33,077.55
ii Other compuses	1) Malvan (Centre for	360 sa ft	2 Laboratories
in the country	Marine Environment)	500 sq. ii.	
in the country	2) Panhala (Space	0.40 hectare	In process
	Research Centre)	0.40 neetare	in process
	3) Satara (Late Barr.		
	P.G. Patil and Prin.	5,400 sq. ft.	9 Rooms
	Smt. S. P. Patil	, T	
iii.Campuses abroad	-	-	-

(* Urban, Semi-Urban, Rural, Tribal, Hilly Area, Any other (please specify)

If the university has more than one campus, it may submit a consolidated self-study report reflecting the activities of all the campuses.

University has three Centres at Panhala for carrying out the research in Space Science, a rented building at Malvan for carrying out the research in Marine Environment and at Satara a building donated by former Vice-Chancellor Barr. P. G. Patil and Prin. Smt. S. P. Patil to the University for Distance Education.

12. Provide information on the following: In case of multicampus University, please provide campus-wise information.

The University has no campuses other than the main. The infrastructural base of the main campus consists of administrative and examination buildings, department buildings, science laboratories, classrooms at all department buildings, botanical garden, hostels and auditoria.

Auditorium/seminar complex with infrastructural facilities:

- 1. Rajarshi Shahu Auditorium at the Main Administrative Building.
- 2. V. S. Khandekar Auditorium at Language Building.
- 3. Auditorium at Humanities Building.
- 4. Auditorium at Physics Department
- 5. Auditorium at Chemistry Department
- 6. J. P. Naik Auditorium at Education Department
- 7. Auditorium at Music and Dramatics Department
- 8. Seminar Hall at Zoology Department
- 9. Seminar Hall at Botany Department. (Nilambari)
- 10. Seminar Hall at Geography Department
- 11. Ramanujan Seminar Hall at Mathematics Department
- 12. Seminar Hall at Economics Department
- 13. Seminar Hall at Technology Department
- 14. Multipurpose Hall of Lok Kala Development Centre
- 15. Multipurpose Hall at Boys and Girls Hostel
- 16. Women Facility Centre Hall
- 17. Amphitheatre

Sports facilities •

- * Playgrounds
- * Gymnasium

Any other (please specify)

Play Grounds					
	02				
	Kho-Kho	02			
	Kabaddi	02			
	Volleyball	02			
	Football Ground	01			
	Cricket Ground	01			
	Athletics Clay Track	01			
	Badminton Court	01			

Table-Tennis	06
Handball Ground	02
Wrestling (Open Air Theatre)	01

Swimming Pool	No
Gymnasium	Yes
Any Other (Please Specify	Eight Lane Athletics Synthetic Track

• Hostel

Boys Hostel

i.Number of Hostels:05 ii.Number of inmates:1010 iii. Facilities

The University has five hostels for male students with a capacity of 1010 inmates. Hostels have beautiful campus with 24 hours security. Study Centre which runs from morning 6.00 a.m.to late night 12.00 p.m. is provided within the hostel premises. Hostels are surrounded by running track play grounds and gymkhana. A set of double bar, single bar are located in the hostel campus. Sports materials such as cricket kits, volley ball, carom board, chess, etc are provided to the students on demand. Cement garden-chairs are fixed in the open space for group discussion and rest. Care is taken to maintain academic atmosphere in the premises. *Vachan Katta*; a reading platform is also developed on the campus.

Every room in the hostel has been facilitated with a fan, study table and chair. Solar water heater system is set up in each hostel. A Recreation Hall with a capacity over 250 students is newly constructed for amusement of hostel students. A 70" Plasma television set with LCD projector is installed in the hostels. The hall is equipped with 33 internet nodes along with 10 computers. Generator is another asset of the hostel during the load shading of electricity.

Self-managed hostel messes are the unique feature in the University. These messes are run by the students on '*no loss no profit*' basis. The food grains and vegetables are purchased from the University Consumer Store to maintain the high quality of meals.

• Girls Hostel

i.Number of Hostels: 04 ii.Number of inmates:1065 iii.Facilities:

1.	24 Hours security	9.	Visitors room		
2.	Mess	10.	Recreation Hall with T.V		
3.	Indoor games	11.	Table tennis		
4.	Space for outdoor games	12.	Badminton		
5.	Volleyball court	13.	Solar heater system		
6.	Telephone facility, P. A.	14.	Newspapers (Marathi &		
	System.		English)		
7.	Library	15.	Gymnasium		
8.	Yoga	16.	Computer lab (with internet		
			facility)		

• Residential facilities for faculty and non-teaching :

- Teaching Staff 86
- Non-Teaching 90

• Cafeteria:

The university has a cafeteria at main canteen located in the campus with four snack spots located at different places and fully catered hostels and guest house.

• Health Centre – Nature of facilities available – inpatient, outpatient, ambulance, emergency care facility, etc.

Medical Centre has a qualified full time Medical Officer with support staff, visiting specialists and the pathological laboratories. Medical services are provided at the Health Centre for the students, teaching and non-teaching staff and even outsiders also.

Health Centre is well equipped with E.C.G. Machine, Auto-Refractometer, Non-contact tonometer, 300 mA X-Ray Machine, Ultrasonography, Machine. Dental Unit, Blood Biochemistry Analyser, Haematology Analyser, S.W.D. unit, etc. Audiometer and OAE+Berra are purchased under the UGC 11th Plan grants. Acoustically sound proof cabin is also available in the Health Centre.

On an average 50-55 patients take the benefit of the Health Centre. Day Care treatment is given to the emergency patients.

Yearly Medical Check-Up campaign is organized for the students which cover checking of B.P., Hb%, Blood Group, Urine test, etc.

Total number of patients registered in the year 20012-13 was 18,047. Unit-wise benefit taken by the patients during this year is given below:

1.	Dental Unit	:	527
2.	E.N.T. Unit	:	221

3.	Gynecology and Obstetrics Ur	nit :	57
4.	Orthopedic Unit	:	178
5.	X-ray Unit	:	567
6.	Ultra-sonography Unit	:	117
7.	Laboratory Unit	:	2206
8.	Injection and Dressing Unit	:	1647
9.	Dispensary Unit	:	14559

- Facilities like banking, post office, book shops, etc. UCO Bank, Post-Office, Consumer Stores, Two A.T.M. Booths.
- **Transport facilities to cater to the needs of the students and staff**: The University is well connected with the public and private transport facilities to cater to the needs of students and visitors.
- Facilities for persons with disabilities Ramps in each building and lift in Main Building. Special vehicles to the differently abled persons.
- Animal house Under Zoology Department
- Incinerator for laboratories : No
- **Power house:** With capacity 490 kV contract demand and 1,906 kV connected load.
- Waste management facility

Gobar Gas Plant and Vermin Composting of waste are housed in the premises of the Dr. Appasaheb Pawar Vidyarthi Bhavan.

13. Number of institutions affiliated to the university

Type of colleges	Total	Permanent	Temporary
Arts, Science and Commerce	146	109	037
Law	007	003	004
Medicine			
Engineering	038	004	034
Education	038	008	030
Management	020		020
Others (specify and provide details)			
1. Non-Conventional	001		001
2.Interior Design	002		002
3.Lalit Kala & Natya Tantra	001		001
4.BBA/BCA/MCA	005		005
5.D.M.L.T.	001		001
6.B.S.W./M.S.W.	001	001	
7.B.P.Ed.	004	-	004
8.Pharmacy	015	004	011
9.Recognized Institute	001	001	
Total	280	130	150

14. Does the University Act provide for conferment of autonomy (as recognized by the UGC) to its affiliated institutions? If yes, give the number of autonomous colleges under the jurisdiction of the University

Yes	\checkmark	No	Number	03
-----	--------------	----	--------	----

15. Furnish the following information:

Particulars	Number	Number of
		Students
a. University Departments		
Undergraduate (B. Lib., B.J.C., B.Tech. & B.Sc.	04	1522
M.Sc. Integrated)		
Post graduate [Arts, Social Sciences & Languages	36	4831
(12), Sciences (16) & Others (08)]		0.4
Research Centres on the campus	02	04
(Dr. Babasaheb Ambedkar Centre for Research &		
Development and Shahu Research Centre)		
Constituent colleges		
Affiliated colleges	280	2.5 lakh
		approx.
Colleges under 2(f)	124	-
Colleges under 2(f) and 12B	123	-
NAAC accredited colleges	141	-
Colleges with Potential for Excellence (UGC)	05	
Autonomous colleges	03	5763
Colleges with Postgraduate Departments	123	-
Colleges with Research Departments	012	-
University recognized Research	001	-
Institutes/Centres		

16. Does the university conform to the specification of Degrees as enlisted by the UGC?



If the university uses any other nomenclatures, please specify.

In response to the UGC direction vide letter D.O. No. F.5-1/2011(CPP-II), dated 28-3-2011, the University has requested to incorporate the following nomenclatures of degrees in its approved list of degrees.

Sr.No.	Faculty	Nomenclature of Degrees				
1.	Arts & Fine Arts	BID (Bachelor of Interior Design				
		BDFC (Bachelor of Dress Making and Fashion Co-ordination)				
2.	Science	BCS (Bachelor of Computer Science) BFTM (Bachelor of Food Technology and Management)				
3.	Commerce	M.B.A. (Textile)				
4.	Engineering & Technology	Pharm. D.				
5.	IDS Faculty	Master of Valuation (Real Estate)				

17. Academic programmes offered by the university departments at present, under the following categories: (Enclose the list of academic programmes offered)

Programmes	Number
UG	04
PG	32
Integrated Masters	01
M.Phil.	26
Ph.D.	32
Integrated Ph.D.	-
Certificate	07
Diploma /PG Diploma	30
Any other (please specify)	
Total	133

List of Academic Programmes :

U.G. : B.Lib.& I.Sc., B.Tech and B.J.C.

P.G., M. Phil. and Ph. D. :

M.A. (09) – Marathi, Hindi, English, History, Economics, Political Science, Sociology, Mass Communication and Russian Language

M.Sc. (16) – Mathematics, Statistics, Electronics, Physics, Chemistry, Botany, Zoology, Geography, Biochemistry, Microbiology, Industrial Chemistry, Applied Chemistry, Agrochemicals and Pest Management, Environmental Science, Computer Science, Biotechnology.

M.Com., M.B.A., LL.M., M.P.A., M.R.S. (YCSRD), M.S.W. (YCSRD), M.C.A. (Science, Commerce & YCSRD), M.Tech., M. Lib. & I. Sc., M.J.C., M. Ed.

Integrated Masters Course:

B.Sc. and M.Sc. (Nanoscience and Technology)

Certificate:

1.	Russian language	5	Analytical instrumentation
2.	German language	6	Spoken English
3.	Japanese language	7	ADR (Law)
4.	Human Rights and Values	8	28 courses are offered by the Adult
	in Education (Law)		and Continuing Education

P.G. Diploma:

	1		-		
1.	Hindi Translation	16.	Insect Biotechnology		
2.	Russian Language	17.	Applied Entomology		
3.	German Language	18.	Insect Biodiversity		
4.	Higher Dip in Russian	19.	Banking and Finance		
5.	Japanese Language	20.	Bioinformatics		
6.	Museology	21.	Tourism and Travel		
7.	Foreign Trade	22.	Environmental Protection and		
			Management		
8.	Corporate Governance	23.	Health and Environment.		
9.	Treasury/Forex	24.	Computer Programming		
	Mangt/Trade Finance				
10.	Industrial Safety	25.	Mass Communication Education		
11.	Teacher Training Education	26.	Rural Development		
12.	Gandhian Studies	27.	Food technology		
13.	Animal and Cell in	28.	Geo informatics		
	Research Technology				
14.	Sericulture	29.	Social Exclusion and Inclusive		
			Policy		
15.	Human rights and Values in	30.	Human Rights and Duties		
	education				
31	33 one year and six months of	course	es and 14 training programmes under		
	Community Development Centre.				

18.Number of working days during the last academic year - 290

19.Number of teaching days during the past four academic years.

2009-10	2010-11	2011-12	2012-13	2013-14
188	192	185	194	181

('Teaching days' means days on which classes were engaged. Examination days are not to be included)

20.Does the university have a department of Teacher Education?

		Yes $$ No
		If ves.
	a.	Year of establishment : 07/11/1979 (dd/mm/yyyy)
	b.	NCTE recognition details (if applicable)
		Notification No. APW 01900/113124 WRC/5-6/15199/401,
		dated 28/06/1999 (dd/mm/yyyy)
	c.	Is the department opting for assessment and accreditation separately?
		Yes No $$
21.	Do	es the university have a teaching department of Physical
	Ed	lucation?
		Yes No $$
		If yes,
	a.	Year of establishment (dd/mm/yyyy)
	b.	NCTE recognition details (if applicable)
		Notification No.:
		Date: (dd/mm/yyyy)
	c.	Is the department opting for assessment and accreditation separately?
		Yes \square No \checkmark
22.	In	the case of Private and Deemed Universities, please indicate
	wh	ether professional programmes are being offered?
		Not appliable

Not applicable

Yes		No	
-----	--	----	--

If yes, please enclose approval / recognition details issued by the statutory body governing the programme.

23. Has the university been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken there upon.

NAAC accreditation is periodically conducted. Two such accreditations have been done so far (See ANNEXURE – V). UGC also conducts Plan wise reviews based on the grant-in-aid to the University.

Positions	Те	aching facu	ulty	Non-	Technical
	Professor	Associate	Assistant	teaching	staff
		Professor	Professor	staff	
a) Sanctioned by the	40	46	125	550	154
UGC / University /					
State Government					
b) Self Supporting					
Courses	01	02	39		
Recruited	25	28	106	499	79
Yet to recruit	15	18	19	51	75
Number of persons	00	00	53	281 (Daily	30 (Daily
working on contract				wages)	wages)
basis					

24. Number of positions in the university as on 31 March, 2014.

25. Qualifications of the teaching staff

Highest	Prof	fessor*	Ass	ociate	Ass	sistant	Total
qualification			Pro	fessor	Pro	fessor	
	Male	Female	Male	Female	Male	Female	
Permanent	47	11	23	08	51	19	159
teachers							
D.Sc./D.Litt.							
Ph.D.	47	11	21	08	34	16	137
M.Phil.							
PG			02		17	03	22
Temporary					34	12	46
teachers							
Ph.D.					03	01	04
M.Phil.							
PG					31	11	42
Part-time teacher	·s						
Ph.D.							
M.Phil.							
PG							

• This includes promotions under CAS

26. Emeritus, Adjunct and Visiting Professors.

	Emeritus	Adjunct	Visiting
Number	06	03	129

27. Chairs instituted by the university:

	Chairs
School / Department	08

Students	UG	PG	Inte-	M.Phil.	Ph.D.	Inte-	D.Litt./	Certi-	Dip-	PG
Stadents	00	10	grated		1 11.2 .	grated	D Sc	ficate	loma	Dip-
			Masters			Ph.D.	2.50	meure	Toniw	loma
	*M	*M	*M *F	*M *F	*M	*M	*M *F	*M	*M	*M
	*F	*F			*F	*F		*F	*F	*F
From the	774	1652	53	154	554			226	182	214
state	478	1787	58	154	315			71	110	68
where the										
university										
is located										
From	03	08								
other	02	11								
states of										
India										
NRI										
students										
Foreign		01			01					
students		04								
Total	777	1661	53	154	554			226	182	214
	480	1802	58	154	315			71	110	68
Grand	1257	3463	111	308	870			297	292	282
Total										

28. Students enrolled in the university departments during the current academic year, with the following details: (2013-14)

*M-Male *F-Female

29. 'Unit cost' of education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) Including the salary component (2013-14) = Rs. 85,899/-

(b) Excluding the salary component (2013-14) = Rs. 34,356 /-

30. Academic Staff College : No

- Year of establishment : N.A.
- Number of programmes conducted (with duration)
 *UGC Orientation : Need based 01 (three weeks)
 *UGC Refresher : Need based 01 (three weeks)
 - *University's own programmes : Nil
 - *State Government Crash Programme : Nil
- 31. Does the university offer Distance Education Programmes (DEP)?

Yes -	No	
-------	----	--

If yes, indicate the number of programmes offered. 10 Are they recognized by the Distance Education Council? Yes 32. Does the university have a provision for external registration of students?

	No		
--	----	--	--

If yes, how many students avail of this provision annually?

However, there is a provision of Distance Education Centre in lieu of external registration. Approximately 45,000 students are registered annually under distance mode.

- 33. Is the university applying for Accreditation or Re-Assessment? If Accreditation, name the cycle. Accreditation: Cycle 1 □ Cycle 2 □ Cycle 3 √ Cycle 4 □ Re-Assessment: □
- 34. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and reassessment only)
 - Cycle 1: 21/03/2003 (dd/mm/yyyy),

Accreditation outcome/ Result : "B+" (77.75)

Cycle 2: 08/03/2009 (dd/mm/yyyy),

Accreditation outcome/ Result : "B" (2.85 CGPA)

Cycle 3: (dd/mm/yyyy) : Applied

Accreditation outcome/Result :

* Kindly enclose copy of accreditation certificate(s) (Appendix V) and peer team report(s) (See Annexure – VI)

...

35. Does the university provide the list of accredited institutions under its jurisdiction on its website? Provide details of the number of accredited affiliated/constituent/autonomous colleges under the university.

Yes, number of Accredited affiliated/ Constituent/ Autonomous Colleges: 141

36. Date of establishment of Internal Quality Assurance Cell (IQAC) and dates of submission of Annual Quality Assurance Reports (AQAR).

IQAC	04/05/2011
AQAR (i)	15/03/2012

- (ii) 15/03/2012
 - (ii) 13/03/2012 (iii) 13/03/2013
 - (iv) 05/10/2013
- 37. Any other relevant data, the university would like to include (not exceeding one page).
 - 1) The University has prepared the VISION DOCUMENT-2025 consisting of academic and research plan for the next one decade.
 - 2) Every five years university prepares Perspective Plan.
 - 3) Yashwantrao Chavan School of Rural Development and the School of Nanoscience and Technology have been brought under the grant-in-aid by the Govt. of Maharashtra on the occasion of Golden Jubilee celebration.
 - 4) Youth Development Centre, Maratha History Centre, Faculty House and all equipped Auditorium have been funded with one time grants by the Govt. of Maharashtra.

ANNEXURE-I

BAHADUR SHAH ZAFAR MARG NEW DELDI

No F.30-2/69(Sc.I)

To

The Registrar. Shubaji Umubisity Kathhuz

Subject := Grants for support of research in universities. Sir.

I am directed to invite your attention to this office letter No. F.16-20/69(Sc.II) dated 6th August, 1969 conveying you the allocation of a grant for the support of research in your university during the Fourth Five Year Plan period. The Commission has also allocated separate grants for publication purposes. It has been decided that the expenditure incurred in connection with the publication of 'research pepers' may be treated as admissible expenditure against the grants sanctioned for support of research provides the expenditure cannot be met out of the Commission's grant evailable for publication purposes, or these grants have been fully utilized.

Yours faithfully,

September.

142

1972

SET

AGOestmuch . (A.G. Deshmukh) for Secretary.

37.- 11

/Sain/ 2010

SHIVAD DRIVERSITY KOLHAPUR 1972 \$175 To whom . .

XXV

ANNEXURE-II

108	North Maharashtra University, Jalgaon-425 001.	1991
109.	Pune University, Pune-411 007.	1949
110.	Sant Gadge Baba Amravati University, Amravati-444 602.	
111.	Shivaji University, Kolhapur-416 004.	1962
112.	Smt. Nathibai Damodar Thackersey Women's University, Mumbai-400 020.	1951
113.	Swami Ramanand Teerth Marathwada University, Nanded-431 606.	1995
114.	Yashwant Rao Chavan Maharashtra Open University, Nashik-422 222	1990
115.	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur-440 001 (M.S).	1923
	Delevente Destances 700.007	1067
116.	Bernampur University, Bernampur-760.007.	1907
117.	North Origen University, Barinada, District Mayurbhani	1000
110.	757 003, Bhuabaneswar.	1000
119.	Orissa University of Agriculture & Technology, Bhubaneswar-751 003.	1962
120.	Ravenshaw University, Cuttak - 753 003.	2005
121.	Sambalpur University, Sambalpur-768 019.	1967
122.	Shri Jagannath Sanskrit Vishwavidyalaya, Puri-752 003.	1981
123.	Utkal University, Bhubaneswar-751 004.	1943
	PUNJAB	
124.	Baba Farid University of Health Sciences, Kotkapura, Faridkot-151 203.	2002
125.	Guru Nanak Dev University, Amritsar-143 005.	1969
126.	Guru Angad Dev Veterinary & Animal Sciences University, Ludhiana – 141 004.	2005
127.	Punjab Agricultural University, Ludhiana-141 004.	1962
128.	Punjabi University, Patiala-147 002.	1962
129.	The Rajiv Gandhi National University of Law, Patiala – 147 001	2006
	RAJASTHAN	
130.	Jai Narain Vyas University, Jodhpur-342 011.	1962
131.	Vardhman Mahaveer Open University, Kota-324 010.	1987
132.	Maharishi Dayanand Saraswati University, Ajmer-305 009.	1987
133.	Mohan Lal Sukhadia University, Udaipur-313 001.	1962
134.	National Law University, Jodhpur-342 004	2004
135.	Rajasthan Agricultural University, Bikaner-334 006.	1987
136.	Rajasthan University, Jaipur-302 004.	1947

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ANNEXURE-III

ग्रष्टीर	। अध्यापक जिश्वा	ਹਸਿਬਟ 🚮 🚺	National Counci	I for Teacher F	ducation
1.2	a violati atti terqu	mind M	Hational ocents	nor redoner t	
(भा	रत सरकार का एक विधिक संस	धान)	(A Statutory Body o	of the Governmen	it of india)
	पश्चिम क्षेत्रीय समिति	मुक्तमुंकदान्दे साम	Western R	egional Committe	20
1010-2020		NCTE		2	
No.WR	.//2-32/113124/73/2005	N5102		June .	27,2005
10		4			
10	The Registrar.				
	Shivaji University.				
23	vidyanagar,				
1	COLITAPUR-416 004.				
1	Sub: Recognition of	secondary level l'each	er Training Institu	utions.	
Sir/Mad	am.				
for the a	cademic session 2005- facults duly approved	2006, subject to the cor by the Registrar of the	by western Regio idition that the col- attiliating Universi	lege will subr	authority
for the a of staff/ before c only aft institution granted.	cademic session 2005- faculty duly approved ommencement of the a er the receipt of this li ons to admit students	2006, subject to the cor by the Registrar of the readomic session. The ist in WRC, NCTE, Bh only upto the approve	by western Regio idition that the col- affiliating Universi- formal order of rec- opal. You are rec- é intake for which	allege will submit ity/ competent augnition will prested to allo h recognition	e (NCTE) tit the list authority he issued we all the has been ACADEVIC SESSION
for the a of staff/ before c only aft institution granted.	cademic session 2005- faculty duly approved ommencement of the a er the receipt of this li ons to admit students	2006, subject to the cor by the Registrar of the reademic session. The ist in WRC, NCTE, Bh only upto the approve	by western Regio idition that the col affiliating Universi formal order of roc opal. You are rec innake for which COD tests	APPROVED APPROVED TOTTONICS	e (NCTE) hit the list authority he issued ow all the has been ACADEMIC SESSION
for the a of staff/ before c only aft institution granted.	cademic session 2005- faculty duly approved ommencement of the a cr the receipt of this li ons to admit students MAMER THE N PARTMENT OF	2006, subject to the cor by the Registrar of the readomic session. The ist in WRC, NCTE, Bh only upto the approve ADDRESSON EDUCATION, SP AGAR, KOLHAPUR	by western Regio indition that the col affiliating Universi formal order of reco opal. You are rec intake for which COURSE INTERNATION MED.	APPROVED Increase in Increase	e (NCTE) that the list authority be issued we all the has been ACADEVIC SESSION 2005-2006

Copy to:

 The Member Secretary, National Council for Teacher Education, New Dolbi 110 002.
 The Principal, DEPARTMENT OF EDUCATION, SHIVAJI UNIVERSITY, VIDYANAGAR, KOLHAPUR 416004 MAHARASHTRA. The institution is directed that the list of the faculty members are sent to this office duly signed by the Registrar of the affiliating University/competent authority before commencement of the academic session. The formal order of recognition will be issued only after the receipt of this list in WRC, NCTE, Bhopal.

मानस भवन, नयापला हिल्स, भोपाल • 462 002 Manas Bhawan, Shyamla Hills, Shopal • 462 002

ANNEXURE-IV



All India Council for Technical Education (A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001 PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 <u>www.aicte-India.org</u>

F.No. Western/1-1459821502/2013/EOA

Date: 19-Mar-2013

To, The Secretary, Tech. & Higher Education Deptt. Govt. of Maharashta, Mantralaya, Annexe Building, Mumbal-400032

Sub: Extension of approval for the academic year 2013-14

Ref: Application of the Institution for Extension of approval for the academic year 2013-14

Sir/Madam.

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	Western	Application Id	1-1459821502			
		Permanent Id	1-4518485			
Name of the Institute	DEPARTMENT OF TECHNOLOGY, SHIVAJI UNIVERSITY, KOLHAPUR	Institute Address	VIDYANAR, KOLHAPUR (MAHARASHTRA STATE), KOLHAPUR, KOLHAPUR, Maharashtra, 416004			
Name of the Society/Trust	SHIVAJI UNIVERSITY, KOLHAPUR	Society/Trust Address	VIDYANAGAR, KOLHAPUR,KOLHAPUR,KOLHAPUR,Maharashtra,4 16004			
Institute Type	University Managed					

Opted for change from Women to Co-ed	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

to conduct following courses with the intake indicated below for the academic year 2013-14

Application Number: 1-1459821502*

Page 1 of 4

Note: This is a Computer generated Extension of Approval Letter. No signature is required.

Letter Printed On:20 March 2013.

Printed By : AE2571721



ICT based Teaching and Learning



Computer Science Laboratory



CRITERION I : CURRICULAR ASPECTS

1.1] Curriculum Design and Development:

1.1.1) How is the institutional vision and mission reflected in the academic programmes of the University?

Keeping in view the institutional vision and mission the following steps have been taken during the reporting period:

- a) Updating the syllabi by introducing new courses in emerging areas with inter-disciplinary component.
- b) Designing 'Add on Courses' and Dual Degree courses through Distance Mode that enhance soft skills and widen horizon of students' learning. This may lead to added employability of students as per the market demand.
- c) Starting need-based teaching and research centres in interdisciplinary areas like the School of Nanoscience and Technology and Department of Technology. Similarly establishing the Yashwantrao Chavan School of Rural Development (YCSRD) and consolidating centres like Centre for Women Studies, Centre for Study of Social Exclusion and Inclusive Policy (CSSEIP) and Dr. B. R. Ambedkar Centre for Research and Development are steps towards realizing our vision and mission.
- d) Organizing various international and national conferences with a view to promoting research relevant to the needs of the region.
- e) Improvising infrastructural ICT facilities and computer literacy of teachers and students for quality teaching and research.
- f) Sensitizing the students through NSS and Sports activities for making them realize the needs of society and their role in nation building and integration.
- g) Making the students aware of the vision and mission of the University by starting the courses like Human Rights and Value Education, Rural Development (Centre for Gandhian Studies) and short duration courses conducted by Adult and Continuing Education and Centre for Community Development.
- h) Giving access to rural students for higher education through various programmes under the Distance Education Centre.

1.1.2) Does the University follow a systematic process in the design and development of the curriculum? If yes, give details.

Yes, the policies of the national level apex bodies like UGC, AICTE, BCI, NCTE, National Universal Education Quality Framework (NUEQF), National Vocational Council (NVC), National Skill Development Corporation (NSDC) and other related agencies, and the Central/State Governments provide certain directives about the curriculum design. The subject related
research councils also provide broad guidelines about the course work and curriculum design. Such policies and the local demands are considered while designing the curriculum and the course work. The feedbacks from various stakeholders are also taken into account while doing so. The Departmental Committees reviews all such policy issues and then the curriculum and course work is designed well in advance and forwarded to the respective BOS and Faculties. The need-based assessment of the existing curricular content is closely monitored by the BOS in various subjects. In the deliberations of the Academic Council, BOS, (in which external subject experts are invited) Faculties and Dean's meetings, content and revision of curriculum are discussed. The proposed curriculum is displayed on the University web-site inviting comments of the teachers in affiliated colleges, Departments and students prior to its finalization and approval of the Faculties and Academic Council. The teachers oriented about a new course curriculum. Periodical updates are made in the curriculum as and when required.

All Departments on the University campus are given academic flexibility under which curricular improvisation is undertaken by the Departments. Feedback received from the peers, society, parents, alumni and students is analyzed on the basis of which new courses are to be designed and old courses are redesigned.

1.1.3) How are the following aspects ensured through curriculum design and development?

- Employability

All types of course work and curriculum design has in-built high degree of employability. The add-on courses for soft skill development and computer literacy as well as knowledge of foreign languages have further enhanced the employability.

- Innovation

Innovative research projects are undertaken and completed by the teachers in various Departments and Chairs/Centres as expected by the curriculum design.

- Research

The Departmental research thrust areas are identified. As an outcome of the objectives of the curriculum it will be proper to note here the various areas of research explored by our teachers, the most prominent being Material Science, Biotechnology, Industrial Chemistry, Environment Science, Subaltern Studies, Regional Literature, Jain Philosophy, Cultural and Museum Studies, Rural Development and Co-operation.

1.1.4) To what extent does the University use the guidelines of the regulatory bodies for developing/restructuring the curricular? Has the University been instrumental in leading any curricular reform which has created a national impact?

While designing and revising the PG and UG curricula, guidelines of the UGC, AICTE, NCTE, Bar Council of India are meticulously followed. A regional need based component is also included in the content as per the policies of the apex bodies. Revision of the LL.B syllabi was done as per guidelines of the Bar Council of India. The policies and programmes of the specialized authorities like, National Universal Education Quality Framework (NUEQF), National Vocational Council (NVC), National Skill Development Corporation (NSDC), National Innovation Council (NIC), National Open Schooling (NOS) and the MHRD are also considered while designing the course work and the curriculum.

Master of Valuation (Real Estate) Course is offered through distance mode, integrated M.Sc. course is offered by the School of Nanoscience and Technology. The multi faculty courses like M.R.S., M.S.W. (Rural Community Development), M.C.A. (Rural Informatics) are offered by Yashwantrao Chavan School of Rural Development.

1.1.5) Does the University interact with Industry, research bodies and civil society in curriculum revision? If so how has the University benefitted?

Yes, the University interacts with all stakeholders on various platforms. Each BOS co-opts at least one member from the area of industries related with the concerned subject. Interaction in meetings of various bodies of the University results in making the curriculum relevant and meaningful in view of the present social ethos.

1.1.6) Give details of how the University facilitates introduction of new courses of studies in its affiliated colleges.

The University initiates introduction of new courses of studies through various stakeholders. As such, the University identifies a location wise road map for introduction of various new courses to be introduced in University Departments and affiliated colleges. The University looks upon various upcoming areas of studies and accordingly make such recommendations regarding starting of new courses.

The University invites the proposals from the affiliated colleges (existing and new) and process further in view of the infrastructural and teaching facilities and grants affiliation with the approval of the respective authorities. Simultaneously, the Board of Studies initiates the process of preparing the syllabi, structure, rules and regulations in respect of such new programmes. These new courses are hosted at the University website.

The University envision the commencement of such programmes with due focus on teaching aspects by organizing orientation programme in respect of syllabi of new courses.

1.1.7) Does the University encourages its colleges to provide additional skill oriented programmes relevant to needs? Give examples.

Yes, the University encourages affiliated colleges to provide skilloriented programmes relevant to their regional needs. The affiliated colleges are free to design need based skill-oriented certificate and the diploma courses for which they receive substantial funding from the UGC under the XI Five Year Plan (Merged Schemes and under Innovative Programme Scheme of UGC).

There are 124 Add on-Courses, 35 Diploma Courses and 15 Advanced Diploma Courses started by the affiliated colleges, which have received grants to the tune of Rs. 5 lakhs from the UGC.

Following courses are approved by the University.

- a) **Diploma** Tax Procedure, Cookery, Fashion Technology, Food Preservation, Sericulture, Insurance etc.
- b) Advanced Diploma Pest Management, Risk Management, Internet Technology, Retailing, Dramatics, Criminal Psychology etc.
- c) Certificate Courses Water and Soil Analysis, Electrical and electronic appliances, silk worm physiology, yoga education, land survey and land records, retailing, medical laboratory technology, journalism, screen printing, e-banking, nano materials, hardware and networking, marketing, balwadi sevika, instrumentation, garden and nursery, bakery and confectionary, foundry technology, tally, event management etc.

The diploma and certificate courses offered by the University departments are also accepted by the colleges on their choice.

1.2] Academic Flexibility:

1.2.1.) Furnish the inventory for the following:

a) Programmes taught on campus

The learner's flexibility is introduced through Choice Based Credit System. All P.G. departments (32) on the campus are having Academic Flexibility to design and revise their own courses. These courses are simultaneously introduced at the P.G. centres in the affiliated colleges.

- M.A. Marathi, Hindi, English, History, Economics, Political Science, Sociology, Mass Communication and Russian Language
- M.Sc. Mathematics, Statistics, Electronics, Physics, Chemistry, Botany, Zoology, Geography, Biochemistry, Microbiology, Industrial Chemistry, Applied Chemistry, Agrochemicals and Pest Management, Environmental Science, Computer Science, Biotechnology.
- B.J.C., B. Tech., B. Lib. & I.Sc.

- M.Com., M.B.A., LL.M., M.P.A., M.R.S.(YCSRD), M.S.W.(YCSRD), M.C.A. (YCSRD, Commerce and Science), M.Tech., M. Ed., M. Lib. & I.Sc. and M.J.C
- B.Sc. and M.Sc. (Integrated course for Nanoscience and Technology)
 - i) Overseas programme offered on campus Nil
 - ii) Programmes available for colleges to choose from.

The colleges have freedom to opt for the suitable optional papers.

1.2.2.) Give details of the following with reference to Academic Flexibility.

a) Core / Elective options

About 50% of the syllabus belongs to the core area. The elective options are designed on the basis of the skill based and applied nature of the papers. The students have cafeteria to choose from the electives.

b) Enrichment courses

The following courses are made available for the enrichment of the students' skills.

- **Certificate:** •
- Russian language
- Analytical instrumentation •
- German language •
- Spoken English •
- Japanese language •
- Human Rights and Values in Education (Law) •
- Alternative Dispute Resolution (ADR) (Law) •
- 28 courses are offered by the Adult and Continuing Education •

Diploma/P.G. Diploma: •

- Hindi Translation 1.
- 2. Russian Language
- 3. German Language
- 4. Higher Dip in Russian
- Japanese Language 5.
- Museology 6.
- 8. Corporate Governance
- Treasury/Forex 9.
- 10. Industrial Safety
- **Teacher Training Education** 11
- Gandhian Studies 12.
- 13. Animal and Cell in Research Technology

- 17. Insect Biotechnology
- 18. Applied Entomology
- 19. Insect Biodiversity
- 20. Banking and Finance
- 21. **Bioinformatics**
- 22. Tourism and Travel
- 23. Environmental Protection and Management
- 24. Health and Environment.
- 25. Computer Programming
- 26. Mass Communication
- 27. **Rural Development**
- Food technology 28.
- 29. Geo informatics

- Foreign Trade 7
- - Mangt/Trade Finance

14.	Sericulture	30.	Social Exclusion and Inclusive
			Policy
15.	Human rights and Values in education	31.	Human Rights and Duties
16.	Plumbing Technology	32.	33 one year and six months courses and 14 training programmes under Community Development Centre.
·) 0			

i) Courses offered in modular form:

All PG courses are partially offered in modular form.

ii) Credit accumulation and transfer facility:

Each semester paper is having four units of 15 contact hours each. Each semester has 60 contact hours. One credit point is assigned to 15 contact hours each. Credit points are calculated on the basis of the grade points. The marks obtained by the students are converted into grade points and then the credit points.

iii) Lateral and Vertical Mobility within and across programme and Descriptions:

Following courses offer vertical and horizontal mobility. These also help for increasing employability.

- 1. M.Sc. courses in Bio-Technology
- 2. Industrial Chemistry
- 3. Agrochemicals and Pest management
- 4. Nanoscience and Technology
- 5. Food Science and Technology
- 6. Biochemistry and Microbiology
- 7. M.Sc. Tech Mathematics
- 8. Women Studies
- 9. PG diploma courses of Centre for Study of Social Exclusion and Inclusive Policy (CSSEIP)

- 10. M.A., Mass Communication
- 11. M.A. Russian Language
- 12. M.B.A. (Executive)
- 13. M.R.S., M.S.W., and M.C.A. (YCSRD)
- 14. M.P.A. (Instrumental music in table, harmonium)
- 15. M.P.A. (Vocal)
- 16. M.P.A. (Dramatics)
- 17. Gandhian Studies

1.2.3.) & 1.2.4) Does the University have an explicit policy and strategy for attracting International students?

Yes, the University has an explicit policy and strategy for attracting International students. The MoUs are signed by various Departments with international universities facilitating international student exchange. (e.g. Department of Physics and Department of Hindi). The foreign students are exempted from entrance test and are provided with facility of online interviews. International students are admitted to various PG courses on campus over and above the intake of the respective Departments.

The office of the International Student's Cooperation Cell, facilitates liaison with foreign students.

1.2.5.) Does the University facilitate Dual Degree and Twining Programmes? If yes, give details.

Yes, the University facilitates Dual Degree programme.

a) Dual Degree

The University facilitates Dual Degree Programme wherein students can enroll for one UG/PG course in regular mode and also offer other courses conducted by the Centre for Distance Education.

The Centre for Distance Education offers 10 programmes with 334 courses in the faculty of Arts, Social Science, Commerce and Management and one IDS Course, Master of Valuation (Real Estate).

b) Twining Programme

1.2.6.) Does the University offer self-supporting programme? If yes, list them and indicate policy of admission, fee structure, teacher qualification, salary etc.

Yes, the University offers the following self-supporting programmes. The need based programmes originates from the emerging needs of the society and the industry, and advancement of technology (e.g. Nanotechnology, Bioinformatics and Biotechnology) to which government grant-in-aid is not available for running the course work. In addition various PG Diplomas, Certificate courses and short- term courses are also offered on self- supporting basis.

- 1. M.Sc. Agrochemicals and Pest Management (AGPM)
- 2. M.Sc. Applied Chemistry
- 3. M.Sc. Biotechnology
- 4. M.Sc. Environmental Bio-technology
- 5. M.Sc. Environmental Science
- 6. M.Sc. Food Science & Technology
- 7. M.Sc. Industrial Chemistry
- 8. M.Sc. Computer Science
- 9. M.C.A. (Commerce)
- 10. M.Sc. Tech. Mathematics

- 18. M.Lib. & Information Science
- 19. M.P.A. (Instrumental Music in Tabla, Harmonium, Sitar, Violin)
- 20. M.P.A. (Vocal)
- 21. M.P.A. (Dramatics)
- 22. B.Tech. in Electronics & Telecommunication
- B.Tech. in Environment Science & Technology
- 24. B.Tech. in Food Technology
- 25. B. Tech. Civil Engineering
- 26. B.Tech. in Chemical Technology
- 27. B.Tech. in Computer Science &

⁻ Nil.

- 11. M.Sc. Microbiology
- 12. M.B.A.
- 13. M.Ed.
- 14. M.S.W. (up to 2012)
- 15. M.C.A. (Science)
- 16. M.A. (Mass Communication)

Technology

- 28. B. Tech in Mechanical Engineering
- 29. M.Tech. in Electronics & Technology
- 30. M.Tech. in Computer Science & Technology
- 31. M.Tech. in Energy Technology
- 32. M.Tech. in Environmental Science & Technology
- 33. M. Tech. in Food Science and Technology
- 17. M.A. (Russian Language)
- 34. LL.M.

Admission to above courses is mechanized as per University rules prescribed for regular P.G. programmes. State Government rules are also followed. Fee structure of these courses is based on the cost of running the courses and upward fee revision with cost escalation. Salary is paid from the University funds. Parity is ensured for some courses in salary payments. For few other courses consolidated salary is paid.

1.2.7.) Does the University provide the flexibility of bringing together face to face mode and the distance mode of education and allow the students to choose and combine the courses, they are interested in? If yes, give details.

Yes, under the dual degree programme, the students can simultaneously enroll for two courses of their choice; one of which can be in regular face to face mode and the other in distance mode. The University provides flexibility to complete the course (Papers) partially from the distance mode and conventional mode. The students from other Universities who have done partial course work and are interested to join our University system; the University permits them to join the degree programme. The students desirous of changing the faculties are permitted by conducting an Entrance Test in the respective subject interested to join. The University provides Class Improvement facility. The equivalence to the course work (degrees) and the courses (papers) is provided at the time of revision of syllabi.

1.2.8.) Has the University adopted CBC System? If yes, for how many programmes? What efforts are made by the University to encourage the introduction of CBCS in affiliated colleges?

The Choice Based Credit System (CBCS) is under implementation for some of the courses in the P.G. Departments. Recently, the University has identified some of the interdisciplinary programme which can be floated under the CBCS. Efforts are being made to implement the CBCS in affiliating colleges. **1.2.9.)** What percentage programme are offered by University in Annual System, Semester System, Trimester system?

Annual system	:	10%
Semester system	:	90%
Trimester system	:	NIL

1.2.10.) How does the University promote inter-disciplinary programme? Name a few and comment on their outcome?

Need based programmes with employability in emerging areas are major factors which encourage University to undertake interdisciplinary programmes. M.Sc. in Applied Sciences, M.Sc. in Nanoscience and Technology and MCA, MBA, MSW courses under YCSRD, MBA (Executive) and Master of Valuation under distance mode, M.A. (Music) and other self supporting programmes run by the University as listed in 1.2.6 are some of the examples of interdisciplinary courses.

The major outcomes of such programmes are:

Dissemination of subject knowledge in emerging areas, encouragement to research in new areas of applied science, choice of local area relevant subjects and increased employability.

1.3] Curriculum Enrichment:

1.3.1) How often is the curriculum reviewed and upgraded to meet needs of stake holders?

Curriculum revision at undergraduate level is undertaken after every three years. The University Departments revise the PG courses as and when needed by the faculty taking into account social relevance, knowledge in emerging areas and employability.

1.3.2) During last four years, how many new programmes at UG/PG level are introduced? Give details.

Following contemporary and need-based new programmes are introduced during the assessment period:

- B.Sc./M.Sc. Nanoscience and Technology (integrated course); M.Sc. (Applied Statistics and Informatics).
- MSW (Rural Community Development), MRS, MCA (Rural Informatics) under YCSRD.
- M.Tech. (Food Science and Technology); M.E. (Digital Electronics/Signal Processing); M.E. (Machine Designing).
- M.Pharm. (Pharmaceutical Analysis).
- Ph.D. in Bioinformatics.
- B.Sc. (Sugar Technology), B.Sc. (Wine Technology); Bachelor of Multimedia, B.Com. (Information Technology).

- P.G. Diploma Courses in Green Chemistry and Crop Protection, Agro Services, Plumbing Engineering, Social Exclusive and Inclusive Policy.
- B. Tech. Civil and Mechanical Engineering in Department of Technology.

1.3.3) What are the strategies adopted for the revision of the existing programmes? What percentage of courses underwent syllabus revision?

The strategies adopted for the revision of the existing programme basically depends upon the policies and programmes of the national level apex bodies like NUEQF, NSDC, NVC, NIC, UGC, AICTE, BCI, NCTE, PCI, CA, World Bank, MHRD, State and Central Government. Such policy issues are discussed at the Heads meeting, Faculties and the Academic Council.

Interactions with University Departments and cross sectional stakeholders, feedback analysis and suggestions from the Joint Board of Vice-Chancellors (JBVC) are also taken into consideration at the time of the revision of the programmes.

Around 24% of programmes are revised every year.

1.3.4) What are the value-added courses offered by the University and how does the University ensure that all students have access to them?

PG course work has an element of value addition. In addition, following Diploma and PG diplomas courses contain the value addition.

- Alternative Dispute Resolution (ADR)
- Human Rights
- Bioinformatics
- Geo informatics
- Plumbing Technology
- Social Exclusion and Inclusive Policies
- Feminist Studies
- Computer Application
- Translation Studies
- Courses run by Department of Adult and Continuing Education and Centre for Community Development are some examples of value added courses run by the University.

These courses are emerged out of societal and industrial needs. The students have access to these value added courses. The information related to value-added courses is provided to the students through website and advertisements in newspapers as well as the course work directory published by the University.

1.3.5) Has the University introduced any higher order skill development programme in consonance with national requirements as outlined by the National Skill Development Corporation and other agencies?

Yes, the University implements the Add on courses, Career oriented courses, Vocational and inter–disciplinary courses at UG and PG levels as suggested by National and State Agencies like UGC, NSDC, NVTC, AICTE, BCI, PCI and NCTE.

1.4] Feedback System:

1.4.1) Does the University have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?

Yes, the University has a formal mechanism to get feedback from the students. Online feedbacks are obtained from the students. The data is analyzed by using appropriate software. The suggestions received are conveyed to the faculty of the Departments. The faculty incorporates them at the time of curriculum revision.

1.4.2) Does the University elicit feedback on curriculum from national and international faculty? If yes, specify methods such as conduct of webinars, workshops online discussions and its impact.

Yes, the methods used for eliciting feedback on curriculum are as follows.

- Interaction with BOS, BUTR, Alumni,
- Discussions at conferences,
- MoUs signed with external Universities and agencies,
- Interaction with subject experts for curriculum revision,
- Online discussions by the faculty members with national and international scholars.

The above efforts have been made it possible to increase the student's involvement in webinars, workshops and discussions.

1.4.3) Specify the mechanism through which affiliated institutions give feedback on curriculum enrichment and the extent to which it is made use of.

- a) Feedback on curriculum enrichment through regular meetings/workshops/ orientation of teachers, Deans, BOS and Principals are considered.
- b) Deliberations in Academic and Senate meetings facilitate a platform in which affiliated colleges give their views on curriculum.
- c) Draft curriculum before the final revision, is displayed on the University website. Affiliated college teachers send their suggestions to Chairmen of the BOS. The suggestions are discussed in BOS meeting and the suitable

changes are made in the draft curriculum before approval by the upper authorities.

- d) University level subject associations at their annual conferences also discuss the issues of curriculum and make suggestions to the University authorities.
- e) Feedback on curriculum is also collected through the seminars, workshops conducted for college teachers and students under Lead College Scheme.
- f) The recently established Curriculum Development Council also reviews the needs of emerging areas and designs the enrichment programme.

1.4.4) What are the quality sustenance and quality enhancement measures undertaken by University to ensure effective development of the curriculum?

Quality sustenance and enhancement measures followed by the University for effective development of curriculum are as follows:

- Advice from the industry experts.
- Representation of industry experts, subject experts from other Universities and Research institutes on the respective BOS.
- Teacher Training on revised curriculum.
- Feedback from the stakeholders.
- Mechanism of sub-committees on special areas.
- MoUs with international and national institutes of repute.
- Detailed deliberation on curriculum in the academic bodies like Faculties and Academic Council.



Exit meeting of AAA Committee 2013



Former Vice-Chancellor YCMOU, Dr. B. P. Sabale addressing, orientation to the Principals of affiliated Colleges



Hon'ble Vice-Chancellor addressing the Enrichment Programme to Administrative staff



Administrative staff on the Enrichment Programme

CRITERION II : TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1.1 How does the university ensure publicity and transparency in the admission process?

• Publicity:

The University ensures wide publicity to the admission process through notification and advertisement in local and national newspapers and on the University website. Admission notification and schedule of Entrance Examinations (EE - only for Science and Technology Departments) is circulated to the affiliated colleges and the academic Departments. The Admission Committee is entrusted with the responsibilities like the preparation of admission notification, course directory and identification of centres for entrance examinations.

There is separate admission procedure for M. Phil. and Ph. D. courses. Admission notification along with the detailed schedule of on-line Entrance Examinations for all subjects is advertised in the prominent newspapers and is also circulated to the affiliated colleges and the academic Departments as well as University website.

• Transparency:

The admission process is free from human intervention. In order to maintain transparency, information containing general merit list, category and other related matters are displayed on the University website as well as Departmental notice boards. Enough time is also provided to report discrepancies, if any. The final merit list along with information regarding candidates to be called for counseling is displayed. The students are given information about the admission procedure, facilities available in the concerned Departments and the University, course structure, besides placement opportunities at every phase of admissions.

- 2.1.2 Explain in detail the process of admission put in place by the university. List the criteria for admission: (*e.g.*: (i) merit, (ii) merit with entrance test, (iii) merit, entrance test and interview, (iv) common entrance test conducted by state agencies and national agencies (v) other criteria followed by the university.
- Process of Admissions:
- a) Notification of the admission process is published in the month of March/April every year in the leading national and regional newspapers, and University website, which contains all the details regarding admission.
- b) Entrance Tests are conducted at various centres identified by the Admission Committee except few courses.

- c) Online Entrance Tests are conducted for M.Phil and Ph.D. courses at various centres identified by the Admission Committee.
- d) A merit list is displayed on the website.
- e) Three admission rounds are scheduled. For each round, a list of candidates is displayed two days before on the University website.
- f) Admission Committee for P.G. departments is formed.
- g) The State Government reservation policy is strictly adhered to.
- h) Eligibility of the students at the entry level is certified by the University.
- i) There is a separate admission procedure for international students.

(i) Merit

All Social Science and Language Departments offer admissions on the basis of third year merit of degree course.

(ii) Merit with Entrance Test

All Science Departments offer admissions on the basis of third year merit and entrance test on 50:50 % weightage basis.

(iii) Merit, Entrance Test and Interview

The admissions for M.B.A. (Distance mode), M.S.W., M.R.S., M.C.A., B.J.C., M.J.C., B. Lib., M. Lib. & I. Sc. Mass Communication courses are offered on the basis of merit with the weightage at the third year degree marks and P.G. degree marks at M. Phil. and Ph. D., entrance and the interview (50:40:10% weightage respectively).

(iv) Common Entrance Test conducted by state agencies and national agencies

The common entrance tests are conducted by the state agencies like Directorate of Technical Education (DTE), Directorate of Higher Education (DHE) for the admission of M.B.A. (regular), B. Tech., M. Tech. and M. Ed. courses.

The admissions for M.Sc. in Environmental Biotechnology course are offered through Common Entrance Test at national level conducted by Jawaharlal Nehru University, New Delhi.

(v) Other criteria

Admissions for all P.G. Diploma, Diploma and Certificate Courses are offered on *first come first served* basis.

2.1.3 Provide details of admission process in the affiliated colleges and the university's role in monitoring the same.

- a) Admissions to UG courses are offered by respective colleges according to the University guidelines and stipulated regulations.
- b) Colleges admit students for various courses approved by the University only.

- c) Admissions to the PG courses in science subjects are completed by the University through Departmental Admission Committees.
- d) Eligibility of the students at the entry levels (UG and PG) is certified by the University.
- 2.1.4 Does the university have a mechanism to review its admission process and student profile annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?

Yes, the review is taken up in the meetings of the HoDs under the chairmanship of the Vice Chancellor. Major issues are discussed and the decisions are communicated to the concerned Sections for further implementation.

Some of the important outcomes after analysis are identified as follows:

- The University administration took initiatives and expanded the hostel facilities for the girls in view of the growing number.
- In order to avoid delay in the admission process, timely planning of all the activities is mechanized and reviewed prior to the beginning of the academic year, which has helped to adhere to academic calendar.
- Merit is criteria referred for admission to the Hostels.
- 2.1.5 What are the strategies adopted to increase / improve access for students belonging to the following categories:
- * SC/ST, OBC, Women, Persons with varied disabilities, Economically weaker sections, outstanding achievers in sports and other extracurricular activities

The University is following the inclusive and social justice policies of the State.

A] SC/ST/OBC/Women

- a) Admission for students belonging to SC (13%) ST (07%), VJ/NT (11%) and OBC (19%) categories are given according to the statutory provisions. Also the reservation to women, ex-servicemen, differently abled, sports persons and other university quota is provided.
- b) The State and Central Government Scholarships are given to the Backward Class/Community students which are paid through the University fund till the payment is received from the respective Government Departments.
- c) The University implements Remedial Coaching for SC/ST students, NET/SET workshops and Entry in Services Coaching scheme for SC/ST and OBC students under the UGC funding.

- d) The Departmental Admission Committee, Scrutiny Committee, Research Committee consists of one member representing the reserved categories and women category.
- e) Hostel facility is given to the above categories.
- f) All girl students are given accommodation in the hostels of the University.

B] Economically Weaker Sections:

- a) Economically Backward Class (EBC) Scholarships are provided by the State Government to the students whose parental income is less than one lakh rupees per annum. Nearly 40% of students avail this facility.
- b) Establishments of the Dr. Appasaheb Pawar Vidyarthi Bhavan-Earn and Learn Scheme for free education to the boys and girls. It is successfully functioning since 1968.
- c) Economic support to poor students is extended through the 'Work on Demand', 'Work as per Need Scheme' designed by the University.

C] Differently-abled:

Differently-abled students are provided barrier free facilities on the campus. These students are provided with easy access to hostel, library and internet facility. Admission to the differently abled students is provided as per the State Government rules.

D] Athletes and sports persons -

University Scholarships are offered to the students showing their significant achievements in national and international sports activities. Seats are reserved for athletes and sport persons for admissions as per rules.

2.1.6 Number of students admitted in university departments in the last four academic years:

	200)9-10	201	10-11	201	11-12	201	12-13	201	3-14
Categories	Male	Female								
SC	148	124	180	169	152	147	225	207	419	375
ST	06	03	11	03	04	03	11	07	09	10
OBC	220	180	303	273	334	260	477	375	611	452
General	324	384	524	543	418	500	703	771	1133	1268
Others	0	0	17	16	0	0	0	0	327	227
Total	698	691	1035	1004	908	910	1416	1360	2499	2332

The students admitted at the entry level (Part-I) to the P. G. courses is as under:

2.1.7 Has the university conducted any analysis of demand ratio for the various programmes of the university departments and affiliated colleges? If so, highlight the significant trends explaining the reasons for increase / decrease.

Programmes	Number of applications	Number of students admitted	Demand Ratio		
UG	307	245	1:1		
PG	40735	4336	9:1		
Integrated Masters	120	60	2:1		
M.Phil.	2670	560	5:1		
Ph.D.	15203	1698	9:1		
Integrated Ph.D.					
Certificate	Admitted first-cum-first basis				
Diploma	Admitted first-cum-first basis				
PG Diploma	Admitted first-cum-first basis				
Any other (please specify)	-	_	-		

Yes, the detailed analysis of demand ratio of the University Departments for the last four years:

2.1.8 Were any programmes discontinued / staggered by the university in the last four years? If yes, please specify the reasons.

No programmes are discontinued / staggered by the university during the reporting period.

2.2 Catering to Student Diversity

2.2.1 Does the university organize orientation / induction programme for freshers? If yes, give details such as the duration, issues covered, experts involved and mechanism for using the feedback in subsequent years.

Yes, the University organizes induction programme for the freshers through Academic Departments, Central Library and Health Camps through Health Centre and Coordinators of various schemes.

Duration:

- 1. The laboratories and the departmental facilities are introduced to the students by the faculty and Heads of the Departments.
- 2. Department level one day welcome programmes are organized by the Departments.
- 3. The Central Library introduces the students to the Library Orientation Programme which goes on for two days.

3. Similarly the Health Centre organizes the Health Camps of the duration of 45 days for entry level students.

Issues covered:

The issues covered in the induction programme at the department, library and health centre are as follows:

1) Department level.

- General introduction of the Department
- Papers taught
- Faculty and their specialization
- Scholarships/Freeships
- Use of department library,
- Career opportunities and placements
- Hostels facilities
- Competitive examinations
- Earn and Learn and Work on Demand Scheme
- Diploma and value-added courses
- Internal and midterm examination
- Counseling for Anti-Ragging
- Counseling for Prevention of Sexual Harassment

2) Library level

- General introduction to library and sections
- Opening and closing hours of Library and Reading Halls
- Collection in different section
- Rules and regulations
- Special features and services
- Library facilities
- Internet facilities

3) Health Centre

• General health check-up

Experts involved

The University in-house experts (Faculty members, the Librarian and the Medical Officer along with their supporting staff) are involved in general induction programme.

Mechanism

Students admitted to the course curriculum are counseled at the Department level. The Library and the Health Centre communicate their programmes to the Department for the information of the students. The Coordinators of the various schemes, Rectors, Administrative Sections also communicate their programmes through notifications.

2.2.2 Does the university have a mechanism through which the "differential requirements of the student population" are analyzed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?

Yes, the University has mechanism to analyze the differential requirements of the student population as under:

- Feedback of the students at entry point is taken up.
- The department concerned takes care of such feedbacks.
- Departments and service units are given the task of resolving the issues, if any.
- Various academic issues are resolved periodically through the meetings of Heads/Directors/ Coordinators of the Departments and Rectors under the guidance of the Vice-Chancellor.
- 2.2.3 Does the university offer bridge / remedial / add-on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty-wise?

Yes, the university offers some bridge/remedial/add-on courses on the campus. They are as under:

Departments	Nature of courses offered	Course time
Bridge Courses		
Music and	Bridge course (3)	Morning and noon sessions,
Dramatics		Saturdays and Sundays
Economics	Bridge courses (3)	Morning and noon sessions,
		Saturdays and Sundays
Remedial Course	8	
All Departments	Remedial coaching	A weeks programme during a
		year
NET/SET Coachi	ng	
All Departments	NET/SET coaching	A weeks programme during a
		year
Add on Courses		
Hindi	Add on Courses (1)	Noon sessions, after academic
		sessions.
English	Add on Courses (2),	Noon sessions, after academic
		sessions.
Marathi	Add on Courses (1)	Noon sessions, after academic
		sessions.
Adult and	Short duration courses (23)	Regular sessions
Continuing		
Education		
Foreign Language	Add on Courses (11)	Morning and noon sessions,
		Saturdays and Sundays

Political Science	Add on courses (3)	Morning and noon sessions,		
		Saturdays and Sundays		
History	Add on Courses (1)	Morning and noon sessions,		
		Saturdays and Sundays		
Chemistry	Add on Courses (2)	Morning and noon sessions,		
		Saturdays and Sundays		
Zoology	Add on Courses (6)	Morning and noon sessions,		
		Saturdays and Sundays		
Geography	Add on Courses (2)	Morning and noon sessions,		
		Saturdays and Sundays		
Biochemistry	Add on Courses (1)	Morning and noon sessions,		
		Saturdays and Sundays		
Environmental	Add on Courses (2)	Morning and noon sessions,		
Science		Saturdays and Sundays		
Computer Science	Add on Courses (2)	Morning and noon sessions,		
		Saturdays and Sundays		
Law	Add on Courses (2)	Morning and noon sessions,		
		Saturdays and Sundays		
Commerce and	Add on Courses (3)	Morning and noon sessions,		
Management		Saturdays and Sundays		

Time table of the courses is organized by the respective Departments before and after the regular teaching and even on Saturdays and Sundays.

All academic departments are offering the Remedial and NET-SET coaching. Entry in Services coaching classes are also conducted by the Entry in Services for SC/ST and Minorities.

2.2.4 Has the university conducted any study on the academic growth of students from disadvantaged sections of society, economically disadvantaged, physically handicapped, slow learners, etc.? If yes, what are the main findings?

Yes, the University has constituted a Study Group for academic growth of students from disadvantaged sections of society. An online questionnaire is displayed for the responses of the students for the year 2013-14. The data analysis is in progress.

2.2.5 How does the university identify and respond to the learning needs of advanced learners?

The faculty identifies the advanced learners on the basis of classroom interaction and their performance in internal assessment and term end examinations. The faculty motivates the advanced learners through following measures:

- i) They are given opportunities to assist on small research assignments undertaken by the faculty.
- ii) These students are encouraged to lead academic events.

- iii) Students are encouraged and guided for national level tests such as NET / SET / GATE / BET/GRE/ICMR/TOEFL.
- iv) Students are encouraged to participate and present their research work through posters and paper presentations in various conferences and seminars.
- v) Field visits, hands on activity, study tours and summer courses are arranged.
- vi) Power Point Presentations/Group discussions are held.

2.3 Teaching-Learning Process

2.3.1 How does the university plan and organize the teaching, learning and evaluation schedules (academic calendar, teaching plan, evaluation blue print, etc.)?

The University prepares the central academic calendar which is strictly followed by the concerned Departments and Sections. The Examination Section prepares examination and evaluation schedule.

Every department prepares academic calendar, teaching plan and the evaluation blue print (internal and the University exam). The academic calendar includes curricular, co-curricular and extracurricular activities.

2.3.2 Does the university provide course outlines and course schedules prior to the commencement of the academic session? If yes, how is the effectiveness of the process ensured?

Yes, the University provides course outline. The process is as follows:

- a) At the University level, the University Course Directory is printed with Department wise details of courses.
- b) The detailed syllabi for all subjects are available on the University website.
- c) At the time of admission rounds outline of the course is explained to all the students attending the sessions.
- d) The entry point feedback projects the usefulness of information to students in selecting the course papers as per their interest. Sometimes, new courses are also demanded which helps us to add upon the circulars.

This facilitates the students to plan for their career development. The University simultaneously, publishes the information about the new course curriculum through advertisements.

2.3.3 Does the university face any challenges in completing the curriculum within the stipulated time frame and calendar? If yes, elaborate on the challenges encountered and the institutional measures to overcome these.

No, the university didn't face any challenges in completing the curriculum within the stipulated time frame and calendar.

2.3.4 How is learning made student-centric? Give a list of participatory learning activities adopted by the faculty that contributes to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.

The University has a culture of student centric education and learning. Efforts are also made at the University level as well as at the Departmental level to ensure student centric learning and knowledge management by:

- a) Using ICT tools in the classrooms.
- b) Providing library facilities for self learning.
- c) Organizing seminars, conferences, workshops, symposia and debates.
- d) Ensuring holistic development and enhancing student learning with the help of following activities:
 - Poster presentation
 - Group discussion
 - Paper preparation and presentation at conferences
 - Seminars/Workshops
 - Quiz competition
 - Participation in research competition (Avishkar)
 - Brain storming sessions
 - Interaction with community for learning
 - Group projects by the students
 - Educational tours / field work

2.3.5 What is the university's policy on inviting experts / people of eminence to deliver lectures and/or organize seminars for students?

The University has provisions for arranging lectures by experts from outside through the following:

- a) Yearly Endowment Lecture Series (32) planned by the Seminar Section.
- b) Special theme-based seminars, workshops and lectures organized by the Departments.
- c) Lectures and discussions by experts visiting the Departments.

2.3.6 Does the university formally encourage blended learning by using e-learning resources?

Yes, the University encourages blended teaching and learning through web resources on certain topics, e-references provided by the faculty, power point presentations and e-journals. Department of Technology has offered the web programmes of NPTEL.

- 2.3.7 What are the technologies and facilities such as virtual laboratories, e-learning, open educational resources and mobile education used by the faculty for effective teaching?
- a) E-learning facilities are available in all the Departments through internet connectivity. Every teacher has a laptop facility provided by the University.
- b) Open educational resources are used by the faculty and students for teaching and learning.
- c) E-mail correspondence is encouraged.
- d) Faculty members are trained in user awareness programmes for the use of e-learning resources like MOODLE, MOOCS and Open Education Resources (OER).
- e) Virtual class room facility is partially available.

2.3.8 Is there any designated group among the faculty to monitor the trends and issues regarding developments in Open Source Community and integrate its benefits in the university's educational processes?

Yes, the designated group integrates the benefits such as library portal which hosts a number of open access journals and scholarly open access magazines. The Library also conducts awareness programmes on annual basis regarding promotion of open access journals and data bases for the benefit of students and the teachers. The Internet Unit contributes significantly in dissemination of scholarly literature such as the Wikipedia. The open access resources are shared amongst the researchers through *Writing Laboratory*.

2.3.9 What steps has the university taken to orient traditional classrooms into 24x7 learning places?

The Departments of Computer Science and Electronics utilize the traditional classrooms as 24x7 learning places by making available facilities such as e-mail, mobile and MOODLE.

2.3.10 Is there a provision for the services of counselors / mentors/ advisors for each class or group of students for academic, personal and psycho-social guidance? If yes, give details of the process and the number of students who have benefitted.

Yes, there is an elaborate mechanism of adoption of students in groups through the participatory approach by teachers for academic, personal and psycho-social guidance, which is provided through the following:

- a) Counselling facility offered at the time of admission enlightening the student on selection of courses, progression and placements.
- b) Mentoring the students for preparation of UPSC and MPSC examinations (478 students have been benefited from this).
- c) Guidance to the inmates of the Ladies Hostels offered by the special Counselor appointed for the purpose.

2.3.11 Were any innovative teaching approaches/methods/practices adopted/put to use by the faculty during the last four years? If yes, did they improve learning? What were the methods used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?

Yes, the following innovative teaching approaches/ methods/practices adopted by the faculty in the Departments.

- e learning
- Think pair share among the students e.g. lab work, computer work, assignment, library work,
- Group discussion
- Poster Sharing among the research
- Brain storming on issues/problems students, special
- Panel discussions
- Seminar presentations
- Concept mapping by the students and teachers
- Blended learning (multiple use of learning strategies and styles)

There is a positive impact on the students with these methods adopted in teaching-learning activities. The impact is measured on the basis of participatory approach by the teachers, students' vertical advancement, students' involvement in academic and research programmes, performance in various examinations and placements.

These points are considered while awarding the Best Teacher Award. Appreciation letter from the Vice-Chancellor is issued to such faculty.

2.3.12 How does the university create a culture of instilling and nurturing creativity and scientific temper among the learners?

Creativity and scientific temper are instilled and nurtured through some programmes.

Sr. No.	Name of the Activity	Nature of students participation	Duration
1.	Avishkar Wallpaper	Display of articles, essays, poems etc. related to education & society.(self prepared or collected)	Throughout the Year
2.	Scientia-science club	Compilation of articles from Journals, News papers related to	Throughout the Year

• Programmes for Creativity Development

		science.	
3.	Welcome Programme, Talents day, Farewell Programme	Presentation of skills, game, acts, singing, storytelling etc.	One day in the beginning/end of course
4.	Celebration on the occasion of different days such as: i) Teacher's Day ii) Education Day iii) International Literacy Day iv) Human Rights Day v) International Women Day vi) Gandhi Jayanti vii) Ambedkar Jayanti viii) Nehru Jayanti ix) Shiv Jayanti x) Savitribai Phule Jayanti	Felicitation of last yea Preparation of data ba Social survey & Data	ar successful students. se. base.
5.	Film shows	All students	Monthly/occasionally
6.	Street plays, one act play	students of MSW/DSW/NSS	Occasionally

• Programmes for developing Scientific Temper

Sr. No.	Name of the Activity	Nature of students participation	Duration
1.	Avishkar	Presentation of research at M. Sc. M.Phil and Ph.D level	One/Two day
2.	National Science Day programme (NSD)	Participation in various competitions organized by the University on NSD. Exhibition of creative work	One week
3.	Health Awareness Campaign for village people	Science Club activities organized and carried out by the students	One week
4.	National and international conferences/seminars	Poster and oral presentation by the students and faculty	Throughout the year
5.	Sky observation on special occasions	Participation and discussion by students	occasional
6.	Environment Day, Vasundhara Day, Ozone Day	Organized and carried out by students	Respective days
7.	Rain harvesting awareness programmes	Awareness creation in society by students	Occasional
8.	General awareness programmes	A number of activities for social awareness and guidance, participated by students through DSW and NSS	Occasional
9.	Students Research Projects	Planning, preparation, experiment design, interpretation, dissertation and publication based on new scientific concepts.	Occasional

- 2.3.13 Does the university consider student projects mandatory in the learning programme? If yes, for how many programmes have they been (percentage of total) made mandatory?
 - Number of projects executed within the university
 - Names of external institutions associated with the university for student project work
 - Role of faculty in facilitating such projects

Yes, around 80% of the course work programmes have project work mandatory. Projects are compulsory for M.Ed., M. Com, M. Sc., MCA, MBA, B. Tech., M. Tech., MRS, MSW, M.J.C students that are evaluated by the external examiners. Some of the diploma courses in science and social sciences faculties have the mini project work. The weightage of marks ranges from 50 to 200.

• Number of projects executed within the university

All the students appearing for M.Ed., M. Com, M. Sc., MCA, MBA, B. Tech., M. Tech., MRS, MSW, M.J.C. course work on the campus are entitled to work on the research projects allotted by the respective departments. This number is around 1,200 per year.

- Names of external institutions associated with the university for student project work
 - 1) Indian Institute of Geomagnetism, Kolhapur Centre
 - 2) National Geography Research Centre, Hyderabad
 - 3) National Chemical Laboratory, Pune
 - 4) Centre of Materials for Electronic Technology, Pune
- Role of faculty in facilitating such projects The faculty encourages the students to undertake projects on diversified areas and in national institutions for collaborative work. They also supervise research projects.

2.3.14 Does the university have a well qualified pool of human resource to meet the requirements of the curriculum? If there is a shortfall, how is it supplemented?

The requirements of the curriculum are taken care of by qualified pool of human resources.

2.3.15 How are the faculty enabled to prepare computer-aided teaching/ learning materials? What are the facilities available in the university for such efforts?

- Workshops are conducted to guide faculty members for using ICT tools in teaching learning.
- University has provided laptops to the faculty members.
- Smart boards, LCD and laptops are provided to the PG Departments.
- Internet connectivity has also been expanded to classrooms.

2.4 Teacher Quality

2.4.1 How does the university plan and manage its human resources to meet the changing requirements of the curriculum?

The syllabus of every department is revised periodically by taking into consideration the advancement of knowledge in the concerned subjects at the national and international levels. The University plans and manages its human resources to cope with the changing requirements of curriculum in the following ways:

- 1. The University organizes special workshops on the revised syllabi for its faculty members.
- 2. The faculty is deputed to attend refresher courses, training programmes and workshops as and when they are scheduled.
- 3. Teachers are encouraged to participate in the workshops organized by reputed Universities/Institutes.
- 4. The faculty is motivated to attend and participate in seminars, conference, video-conferences to acquaint themselves with advancement of knowledge and recent trends in the relative subjects.
- 5. Departments are encouraged to organize workshops to orient college teachers on new topics/units introduced in syllabi.

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	Total
Permanent Teachers	47	11	23	08	51	19	159
i) D. Sc./ D. Lit							
ii) Ph. D.	47	11	23	08	34	16	137
iii) M. Phil.							
iv) PG			02		17	03	22
Temporary Teachers					34	12	46
i) Ph. D.					03	01	04
ii) M. Phil.							
iii) PG					31	11	42

2.4.2 Furnish details of the faculty

2.4.3 Does the university encourage diversity in its faculty recruitment? Provide the following details (department / school-wise).

Yes, the diversity in faculty recruitment is maintained by advertisements in national newspapers, journal like University News and University website.

	5	-		
Department / School	% of faculty from the same university	% of faculty from other universities within the State	% of faculty from universities outside the State	% of faculty from other countries
Chemistry	90	5	5	
	60	30	10	
Botany	62	31	7	_
Physics	75	-	2.5	-
Electronics	80	10	10	-
Mathematics	30	60	10	_
Marathi	66	44	-	_
English	63	37	_	_
Statistics	100	-	_	_
Economics	50	50	_	_
Sociology	60	20	20	_
History	80	20		_
Political Science	50	25	25	_
Geography	50	20	30	-
Library and	80	20	-	-
Information Science				
Music and	20	40	40	-
Dramatics				
Journalism & Mass	-	100	-	-
Communication				
Technology	69	24	10	-
Environmental	100	-	-	-
Science				
Microbiology	66	34	-	-
Biochemistry	66	17	17	-
Commerce and	67	33	-	-
Management				
Law	-	50	50	-
Education	87	-	13	
Biotechnology	-	100	-	-
Hindi	100	-	-	-
Foreign Language	-	100	-	-

Diversity in Faculty Recruitment

2.4.4 How does the university ensure that qualified faculty are appointed for new programmes / emerging areas of study (Biotechnology, Bioinformatics, Material Science, Nanotechnology, Comparative Media Studies, Diaspora Studies, Forensic Computing, Educational Leadership, etc.)? How many faculty members were appointed to teach new programmes during the last four years?

University ensures the qualified and diversified faculty in the innovative programmes in emerging areas of studies as per the requirements of the course curriculum and ensures by the experts at the time of recruitment. In order to ensure quality, vacancies are advertised and wide publicity is given through leading newspapers and University website, and appointment procedure is strictly followed as per UGC norms. Colloquium system adopted in the University helps us ensure the quality and competency of teaching and research of applicants. The University takes the help of industry, national institutions, banking institutions and the facility of Adjunct Professors.

The recruitment of the faculty positions in emerging areas is as follows:

Departments	No. of faculty
Biotechnology	02
Bioinformatics	01
Material Science (Physics)	05
Nanotechnology	05
MRS, MCA, M. Tech, MBA and MSW (under Yashwantrao Chavan School of Rural Development)	07

2.4.5 How many Emeritus / Adjunct Faculty / Visiting Professors are on the rolls of the university?

- i) Emeritus Professors 06
- ii) Adjunct Faculty 03
- iii) Visiting Professors 129
- 2.4.6 What policies/systems are in place to academically recharge and rejuvenate teachers (*e.g.* providing research grants, study leave, nomination to national/international conferences/seminars, inservice training, organizing national/international conferences etc.)?

The University has set policies to enhance the academic quality and research of the faculty by providing research grants out of its own sources in addition to the sponsored/individually applied/Department initiated research programmes. This is ensured by

- 1) a) Sanctioning long duration study leaves to the faculty for the research within India and abroad.
 - b) Granting duty leave to the faculty for participating in national and international seminars, conferences, workshops and training; the financial assistance to the faculty being provided once in six months within the country and once in three years outside the country.
 - c) The faculty is encouraged to submit major research projects to different funding agencies.
 - d) Grants provided to the Departments and affiliated colleges to organize seminars, conferences and workshops.

The table below provides the details of financial assistance during the assessment period.

	Nat	ional	Intern	ational	Unive	ersity
Years	No. of faculty receiving financial assistance	Total amount provided by the University (Rs. in lakh)	No. of faculty receiving financial assistance	Total amount provided by the University (Rs. in lakh)	No. of departments receiving financial assistance	Total amount provided by the University (Rs in lakh)
2009-10	34	1.53	04	2.46	13	3.50
2010-11	44	2.20	03	2.68	22	10.99
2011-12	46	2.41	14	13.70	13	2.80
2012-13	49	2.85	04	5.63	17	5.45

Financial assistance for the faculty members (National, International and University levels)

- 2. As per the guidelines of the UGC, teachers are deputed under Faculty Development Programme study leave. During the assessment period *six* teachers availed themselves of the scheme.
- 3. The faculty is also deputed for Refresher / Orientation and Training Programmes.
- 4. The Department of Distance Education and Study Centres provide grants to the faculty for small scale research projects.
- 5. The Departments are also encouraged to organize national and international seminars/ conferences for which partial financial assistance is provided by the University in addition to the financial assistance by the funding agencies.
- 2.4.7 How many faculty received awards / recognitions for excellence in teaching at the state, national and international level during the last four years?

The University has instituted the Best Teacher Award (annual) for the teachers in the University Department and in affiliated colleges.

There are two Endowment Awards for the Teachers in the name of Former Vice Chancellor Barr. P. G. Patil and a veteran teacher of English Principal (Smt.) Sumatibai Patil.

Sr.No.	Year	Name of the Faculty	Awards	
1.	2009-10	Dr. C. D. Lokhande (Physics)	State Level Best Teacher Award	
2.	2010-11	Dr. M. B. Deshmukh (Chemistry)	State Level Best Teacher Award	
3.	2009-10	Dr. A. V. Moholkar, (Physics)	"BOYSCAST fellowship" by DST, Government of India.	
4.	2012-13	Dr. S. P.Govindwar	State Level Best Teacher Award	
5.	2013	(Biochemistry)	Brain pool fellowship for visiting professor from government of South Korea.	
6.	2012-13	Dr. P. S. Patil (Physics)	Brain pool fellowship for visiting professor from government of South Korea.	
7.	2010	Dr. (Smt.) J. P. Jadhav (Biochemistry)	Young Women Scientist from Biotechnology Research Society.	
8.	2011	Dr. V. A. Bapat (Biotechnology)	INSA Fellow	
9.	2011-12	Dr. S. S. Chavan (Chemistry)	Endeavour Research Award, Australia.	
10.	2010	Dr. A. S. Chausalkar (Political Science)	Maharashtra Tatvadnyan Parishad Award.	
11.	2011	Dr. (Smt.) P. R.Patil	International Trininad Hindi Shikhar Sanmman, Trininad and Tobago, West Indies.	
12.	2012	(Hindi)	Hinditar Bhashi Hindi Lekhak Puraskar, HRD Ministry, Government of India.	
13.	2012-13	Dr. P. R. Pawar (Political Science)	Dr. Babasaheb Ambedkar Marathi Sahitya Award, Government of Maharashtra.	
14.	2009		V.B. Kolate Award, Government of Maharashtra.	
15.	2010	(Marathi)	Kurundkar Award, Government of Maharashtra.	
16.	2012-13	Dr. N. M. More (Marathi)	Kurundkar Award, Government of Maharashtra.	

Details of Awards for Excellence

17.	2012	Dr. V. K. Shinde (Marathi)	Annabhau Sathe Award, Dakshin Maharashtra Sahitya Sabha.
18.	2010-11	Dr. D. M. Pore (Chemistry)	"BOYSCAST fellowship" by DST, Government of India.
19.	2009		Nisarg Mitra Purskar, by Vasundhara, ECRO.
20.	2012	Dr. S. R. Yadav (Botany)	Father H. Santapaui Medal by Association of Taxonomist. Panchanam Maheshwari Medal, Indian Botanical Society
21.	2014	Dr. S. D. Delekar (Chemistry)	Dr. C. V. Raman Fellowship (UGC)

2.4.8 How many faculty underwent staff development programmes during the last four years (add any other programme if necessary)?

Details regarding staff development programmes attended by the faculty:

Academic Staff Development Programmes	Number of faculty
Refresher courses	47
HRD programmes	24
Orientation programmes	42
Staff training conducted by the university	84
Staff training conducted by other institutions	37
Summer / Winter schools, workshops, etc.	46
Other programmes	15

2.4.9 What percentage of the faculty have

- * been invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies? 2009-2013 – 141 (71.93%)
- participated in external Workshops / Seminars / Conferences recognized by national/international professional bodies? 2009-2013 – 272 (100%)
- presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies? 2009-2013 – 245 (100%)
- * teaching experience in other universities / national institutions and other institutions? 2009-2013 – 85 (43.36%)
- * industrial engagement? Consultancy services for local industries 2009-2013 48 (24.48%)
- * international experience in teaching? 2009-2013 - 62 (29.38%)

- 2.4.10 How often does the university organize academic development programmes (*e.g.*: curriculum development, teaching-learning methods, examination reforms, content / knowledge management, etc.) for its faculty aimed at enriching the teaching-learning process?
- University frequently organizes need-based academic development programmes for the faculty.
- The respective faculty is oriented, *subject wise and district wise*, on the revised course structure.
- Examination Section organizes from time to time workshops on examination reforms.
- Workshops were organized on Choice Based Credit System and Benchmarking in Higher Education.
- New entrants are oriented in professional teaching methods.
- Quality related programmes are also organized through IQAC.
- The ICT tools are used by the teachers in teaching-learning process.

2.4.11 Does the university have a mechanism to encourage -

* Mobility of faculty between universities for teaching?

- 1. The Maharashtra Universities Act, 1994 provides intra and interuniversity mobility of faculty between Universities for teaching.
- 2. The faculty is encouraged to visit other Universities/Institutes under MoUs as visiting faculty and visiting professor.
- 3. With the help of the scheme of Visiting Professor, the university invites senior professors from other universities to deliver lectures to students.
- 4. The scheme of Guest Lectures is also implemented to have interactions of our students with the outside university experts.
- * Faculty exchange programmes with national and international bodies? If yes, how have these schemes helped in enriching the quality of the faculty?

The Faculty exchange programme initiated at national and international level under MoUs helps in at least two ways:

- 1. The junior faculty and students in the Department are able to learn innovative teaching / learning practices and identify new research areas.
- 2. The teachers who visit other universities under this scheme also become aware of teaching-learning process, research areas and the curriculum in the other universities, which, in turn, helps them to update our curriculum and research areas.

- 2.5 Evaluation Process and Reforms
- 2.5.1 How does the university ensure that all the stakeholders are aware of the evaluation processes that are in place?

The ICT based system is adopted by the Examination Section for Pre-Exam., On Exam. and Post-Exam. The stakeholders are made aware of the evaluation processes through various tools and methods. The related Rules and Regulations, Ordinances and Statutes are also freely available on the COE link to the University website.

2.5.2 What are the important examination reforms initiated by the university and to what extent have they been implemented in the university departments and affiliated colleges? Cite a few examples which have positively impacted the examination management system.

The important examination reforms initiated by the University both for University Departments and affiliated colleges are indicated below:

- Continuous Internal Evaluation and Semester end examination
- e-Suvidha- Digital University Digital College (DUDC)
- Secured Remote Paper Delivery (SRPD) mode system:
- On-Line application for Convocation
- Decentralization of examination

The Examination Section follows the schedule of paper-setting, printing of question papers through RBI recognized Printing Press, coding, evaluation, decoding and declaration of results. These reforms are implemented fully. The results are declared as per the schedule.

2.5.3 What is the average time taken by the University for Declaration of examination results? In case of delay, what measures have been taken to address them? Indicate the mode / media adopted by the University for the Publication of examination results (e.g. website, SMS, email, etc.).

The average time for declaration of results of examination is 30 days. Average time taken for the University Departments is less than 30 days. Shivaji University has a very good track record of declaring more than 70% results within 30 days. University arranges a special assessment programme in case of delay. The results are declared on University website and notice boards.

2.5.4 How does the university ensure transparency in the evaluation process? What are the rigorous features introduced by the university to ensure confidentiality?

• University continuously and scrupulously maintains transparency in evaluation process. Three sets of papers are collected and one out of them is selected by the designated higher authority. It is directly forwarded to

the printer whose identity is confidential. Sealed packages from the printer are collected and distributed to the examination centres.

- Secured Remote Paper Delivery (SRPD) mode system has been introduced recently. Three sets of question papers are uploaded in the system, one out of which is auto selected by the system. It is forwarded on-line in encrypted form to the centres. Passwords are given to the colleges to get the question paper downloaded before one hour of the examination and they are photocopied and given to the students. This ICT driven system has been introduced initially for Engineering and Pharmacy Faculties.
- Assessment/evaluation process is done through the Central Assessment Programme (CAP) in the University and at the district wise CAP centres.
- Answer-books from all the colleges are mixed, shuffled and coded and are distributed for the assessment and moderation
- 2.5.5 Does the university have an integrated examination platform for the following processes?
- * Pre-examination processes Time table generation, Optical Mark Reader (OMR), student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.
- * Examination process Examination material management and logistics arrangements.
- * Post-examination process Attendance capture, OMR-based exam result, auto processing, generic result processing, certification, etc.

Yes, the University has an integrated examination platform classified into Pre-Examination, On-Examination and Post-Examination processes. All activities coming under each is being carried out through the Examination Section. The Examination Section has been using e-suvidha scheme and Digital University Digital College (DUDC). Separate examinations of sports persons and such other participants in state and national events are conducted whenever necessary. Facilities for physically challenged students are provided. District wise squads are appointed for vigilance and to oversee the smooth conduct of examinations and to check the unfair means. Results are processed through Computer Centre and through e-suvidha software.

University administrative staff and college administrative staff involved in examination process have been provided training periodically. Collaborative mode of working is encouraged.

2.5.6 Has the university introduced any reforms in its Ph.D. evaluation process?

Yes, the student has to submit a spiral bound copy of his research work for pre-submission scrutiny. Pre-submission scrutiny is introduced. The scrutiny committee consists of Head of the Department, Chairman, Board of
Studies, two subject experts and the Supervisor. The scrutiny committee submits the report to University with a copy to the candidate. The candidate has to revise the thesis according to the instructions in the report if any. The Supervisor has to certify that the suggestions given by the Scrutiny Committee are addressed.

The thesis is submitted in five copies to the Research and Recognition Committee which recommends a panel of eight experts (four from within the state and four from outside) to the Vice-Chancellor. The Vice-Chancellor indicates his preferential order of the experts. The thesis then is sent to the concerned expert for evaluation after receiving his/her acceptance.

2.5.7 Has the university created any provision for including the name of the college in the degree certificate?

Yes, the University has a provision for including the name of the college in the degree certificate.

2.5.8 What is the mechanism for redressal of grievances with reference to examinations?

There is a mechanism for redressal of grievances. There is a provision of verification of marks, revaluation and photocopy of the answer-books. Other complaints and queries are addressed by the respective sections.

2.5.9 What efforts have been made by the university to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved the process and functioning of the examination division/section.

Examination Section of the University has streamlined operations of the examinations.

Various kinds of documents such as Transfer Certificate, Migration Certificate, Mark List and Transcript are made available by the Student Facilitation Centre. University has digitized all its examination related record since 1962. The Student Facilitation Centre provides student friendly Single Window System that results in time effectiveness.

2.6. Student Performance and Learning Outcomes

2.6.1. Has the University articulated its Graduate Attributes? If so, how does it facilitate and monitor its implementation and outcome?

The UGC curriculum emphasizes and highlights the importance of knowledge, development of skill, technology application, communication and presentation ability, and research culture and ethics. The university too, in its Mission, speaks of these attributes to be achieved. The post-graduate courses are planned and designed to achieve the articulated attributes set by the UGC as well as the University. This is done through teaching, learning and evaluation process by adopting participative learning.

Writing ability and presentation-communication are inculcated

through seminars using PPT followed by interaction session. Home assignments and report writing improves the writing ability. Knowledge, research culture and ethics are indoctrinated through a number of special lectures and invited lectures in the study centres and Departments. The University facilitates their implementation by providing adequate support services and infrastructure.

2.6.2. Does the university have clearly stated learning outcomes for its academic programmes? If yes, give details on how the students and staff are made aware of these?

The learning outcomes are clearly stated in the curriculum of each course. The staff discusses the expected learning outcomes at the induction of the students at the Departmental levels. Planning of the lessons semester wise and its implementation by the faculty is done keeping in view the learning outcome. The learner is acquainted with the learning outcomes at the induction program by the Departmental faculty. The University is planning to develop a mechanism of including the outcomes in the modular syllabi.

2.6.3. How are the University's teaching, learning and assessment strategies structured to facilitate the achievement of the intended learning outcomes?

The teaching, learning and assessment strategies are structured right from framing the curriculum and preparing the annual plan by the Departments and Board of Studies. The students soon after the induction programme are updated with the information relating to time table and the academic programme.

Learners are assessed through the informal interaction at the end of each teaching session and doubts of the learners are cleared. Internal assessment scheme, home-assignments, seminar presentations, small project reports and mid-term exams as well as semester exams are the assessment strategies structured to facilitate the achievement of the intended learning outcomes.

2.6.4. How does the University collect and analyze data on student learning outcomes and use it to overcome the barriers to learning?

The learning outcomes are collected through the regular informal interaction in the classes, periodical tests, internal assessment scheme, homeassignments, seminar presentations, small project reports and mid-term examination as well as semester examinations. The respective teachers discuss at the staff meeting the common areas and difficulties such as language and communication skills, technology awareness faced by the students. These are discussed and addressed in a common manner in the classrooms for the benefit of all students in general. Slow learners are identified and counseled individually in case of specific difficulties, and the staff members themselves work out the strategies suitable to overcome the barriers. The University has provision of remedial coaching for the backward caste students, where areas of difficulty as per their requirement are addressed. Satisfactory and high level learners are also motivated and provided guidance to keep up and do still better. Scholarships provided by the Government, research institutes, UGC as well as the University along with awards instituted in the name of dignitaries definitely motivate the learners.

2.6.5. What are the new technologies deployed by the university in enhancing student learning and evaluation and how does it seek to meet fresh/ future challenges?

The university has deployed and facilitated the new technology by providing campus network, central internet facility at library with a common computer centre which caters to enhance students learning needs and their abilities. The library is well-equipped with adequate facilities to access the e-journals, e-books and open source information resources. Hostels are also provided with internet facility. The PG departments are well equipped with teaching aids like computers, OHP and LCD. Every classroom is connected with internet facilities. Every teacher uses LCD in the classroom for effective teaching and students use it for their seminar /project presentations. The students are free to interact and get their doubts cleared in the classroom itself. Increased infrastructural facilities developed over the years have enabled the teachers to be more effective in imparting the latest developments to the student community both by teaching and by counselling. The increasing rate of placements, increasing number students being associated with international institutions for research and student success in diverse fields reflects the outcome of planned and programmed teaching and learning. The syllabi are outcome based

The evaluation process is absolutely transparent, secure and technology based. The internal assessment marks are notified on the department notice-board, discrepancies if any, are attended immediately. There is a provision for re-totaling, re-valuation, and providing photo copies of the answer scripts. The examination section takes minimum time to respond the examination related queries by the students. The feedback of the teachers from the students also helps in enhancing the teaching –learning capabilities by overcoming the barriers.

Challenges before the university are related to two areas i.e.

1. **Digital divide:** The University affiliated colleges are situated mainly in rural and semi-urban areas and this has created digital divide. The University makes efforts to answer the challenges in overcoming this digital divide by offering not only financial help but also expert guidance to the affiliated colleges.

2. **Information literacy**: The University makes concentrated efforts to remove information backlog among the affiliated colleges by arranging various training programmes for the teachers. It is true that this has been proving a hard upward task.

Any other information regarding Teaching, Learning and Evaluation which the university would like to include.

- 1. Efforts are being made to create webcasting stations under the Centre for Distance Education. It is hoped thus to keep pace with the changing educational scenario.
- 2. We are also looking forward to setting up a Teacher Training Centre for the benefit of new entrants in various Departments in the University and affiliated colleges. This centre would impart education and training to the teachers so as to bring them at par with teachers in other prestigious seats of learning.
- 3. *Any Time Examination Scheme* is another fond dream we are striving to materialize in near future.
- 4. NME-ICT supported NKN activities.



Workshop on Academic Resource Centre and working Lab for HODs



Participants at the Conference of Controller of The Examinations of the Universities in Maharashtra -2011



Street Play on save girl child by NSS Volunteers



Ashwamedh: Sports Event

CRITERION III : RESEARCH. CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1 Does the university have a Research Committee to monitor and address issues related to research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.

Yes, there are five committees to monitor the research progress.

- a. DRC: Allotment of the research students to the supervisors.
- b. Monitoring Committee: Monitoring and redressal of the grievances in the process of allotment of the research students to the supervisors.
- c. Departmental Scrutiny Committee: Scrutinizing the research proposal and recommendation to the Research and Recognition Committee.
- d. Research and Recognition Committee: Finalizing the research proposals and recommendation of the panel of referees for evaluation of the thesis/dissertations to the B.U.T. & R.
- e. Board of University Teaching and Research: Finalization of panel of referees and appointment of referees for evaluation of the thesis/dissertation.

The compositions of the above committees are as follows:

A. Departmental Research Committee (DRC):

	• Head of the Department/Principal	Chairperson
	One Senior Professor by rotation	Member
	One Associate Professor by rotation	Member
	• B.O.S. Chairman	Member
	• Two P. G. Teachers from P. G. Centres	
	Affiliated Colleges nominated by Dean	Member
B. N	Monitoring Committee:	
	Pro-Vice-Chancellor	Chairman
	Two Management Council	Member
	• One woman representative (MC)	Member
	Three senior Professors	Member
	(One from reserved category)	
	• Director, B.C.U.D.	Member-Secretary
C.	Departmental Scrutiny Committee:	
	• Head of the Department	Chairman
	• Chairman, B.O.S.	Member
	• Two experts nominated by the Dean	Members
	of the concerned faculty.	
	• Research Guide of the Students	Member

D. Research and Recognition Committee (RRC):

E.

•	Pro-Vice-Chancellor	Chairperson
•	Dean of the Faculty	Member
•	BOS Chairman	Member
•	Head of the University Department	Member
•	Two experts (one is internal and other is external)	Members
•	An expert in the area of specialization	Member
	nominated by the Vice-Chancellor	
Bo	oard of University Teaching and Research:	
•	Vice-Chancellor	Chairman

-	vice chancenoi	Channan
•	Pro-Vice-Chancellor	Member
•	Dean of the Faculty	Member
٠	Heads of the University Department	Member
٠	Chairman of the B.O.S.	Member
•	Director, B.C.U.D.	Member-Secretary

In addition, there is another Research Committee to scrutinize the research proposals to be sent to the funding agencies. This committee is headed by Head of the Departments and two senior staff members of the Departments of which one is from the reserved category and one is woman member.

The major recommendations made by the Research Committees are as under:

- 1. The proposals should have social and industrial relevance and current line of research.
- 2. Consideration of interdisciplinary approach.
- 3. Collaborative work with other institutions having international and national repute.
- 4. Research topics should be within the thrust areas of the Department.
- 5. Care should be taken to consider publishability of the research work, follow research ethics and avoid plagiarism.

The recommendations were discussed at various bodies for their effective implementation. We found a positive impact of the recommendations made by the R & RCs. For example;

- 1. Cognizance of social and industrial relevance of the topic.
- 2. Record number of the proposals submitted.
- 3. Majority of the proposals approved for the grants.
- 4. Publication of the papers and articles in journals with good impact factors and in the book form having ISBN numbers.
- 5. University acquiring high ranks on account of various research matrices such as number of publications in SCI journals, *h*-index, and citations.
- 6. A number of patents and social/industrial recognition obtained.

3.1.2 What is the policy of the university to promote research in its affiliated/ constituent colleges?

The University has an elaborate policy for research promotion in the affiliated colleges, according to which it inspects and recognizes research laboratories; recognizes research guides from amongst the college teachers; conducts workshops on topics such as writing research proposals, research papers, methodology for thesis writing etc. The Lead College Scheme of the University is helpful for this purpose. Two senior teachers exclusively from the affiliated colleges are nominated on the Departmental Research Committee of the University.

The University, from its own funds, provides special research grants of Rs. 10 lakhs per year to the college teachers whose colleges are not covered by UGC section 12(B). Selected proposals are eligible to receive maximum grant of Rs. 25,000/-.

The University has taken lead in organizing workshops on Research Techniques. The Internal Quality Assurance Cell (IQAC) of University and the District wise Lead Colleges jointly organized total 30 research workshops during 2009-14 on research methodology, research ethics, publishability, academic writings, and plagiarism.

The university has extended the support services like instrumentation and internet facilities to college teachers at subsidized rates. Collaborative research projects are undertaken with college teachers in some of the university departments.

3.1.3 What are the proactive mechanisms adopted by the university to facilitate the smooth implementation of research schemes/ projects?

The Research proposals are first scrutinized by the Research Committees of respective subject and then sent to the funding agencies.

The M. Phil. and Ph. D. proposals are first scrutinized by the Departmental Scrutiny Committee. The modifications if any are incorporated in the draft proposal. The final copy of the synopsis is recommended to the RR Committee. The RR Committee can also modify if required. Such modifications are communicated to the candidates. After approval of the RR Committee, the BUTR in the respective faculties approves the title and synopsis.

There is an Apex Committee to monitor and review the use of grants, resolving problems encountered for utilization of grants quarterly.

The University encourages newly appointed faculty members for startup and Fast Track Grants (UGC and DST) through orientation programme.

The qualified administrative staff is also encouraged to undertake research programmes.

The University has a mechanism to provide advances against the grants sanctioned to the projects and research fellowships out of its funds before release of grants from respective agencies. The university has made provision for research in its Development budget to provide seed money for instrumentation and infrastructure.

Regular auditing of the sanctioned projects is followed and the utilizations are submitted to the funding agencies along with midterm report.

The Principal Investigators are communicated online.

The procedures related to sanctions and purchases have been simplified as per Accounts Code.

3.1.4 How is interdisciplinary research promoted among different departments/schools of the university and Collaboration with national/international institutes/industries?

University encourages the interdisciplinary curriculum design and research due to the changing atmosphere in the academics of higher education system. In view of this the University has instituted to such schools i.e. School of Nanoscience and Technology and Yashwantrao Chavan School of Rural Development. The University Departments have also followed the interdisciplinary approach by sharing the expertise of other departments across the faculties to understand the mechanism of processes.

The University has national, international and industrial collaborations with various institutions and universities. The University has also received significant grants from funding agencies for collaborative activities within the University, such as:

- The University Departments collaborate with each other on the campus for Teaching and Research e.g. IPLS Programmes.
- DST-PURSE programme worth Rs. 9 crores has been sanctioned to encourage interdisciplinary research in all science subjects.
- Life science departments have received a grant of Rs. 5 crores from DBT, New Delhi for collaborative research under 'Interdisciplinary Programme in Life Sciences' (IPLS), New Delhi.
- The grant of Rs. 5 crores has been sanctioned by DST, New Delhi for the purchase of sophisticated instruments required for analysis under the scheme of 'Sophisticated Analytical Instrumentation Facility (SAIF).'
- A joint Indo-Korean research project on 'Solar Cells' has been successfully completed under faculty-student exchange programme between Shivaji University and Hanyang University, Seoul, South Korea during the assessment years.

- Interdisciplinary research is promoted by signing MoUs (25) with departments of national and international institutes.
- The collaboration between Lupin Industry, Tarapur (Mumbai) and Chemistry Department has offered scholarships to students under University-Industry interactions.

3.1.5 Give details of workshops/training programmes/sensitization programmes conducted by the university to promote a research culture on the campus.

To promote research culture on the campus following workshop and training programmes were organized.

Sr.	Name of the	Titles of the Workshops/Training	Date
No	Department	Programme	
		2009-2010	
1	Botany	Workshop on Ex-situ Plant Conservation	18 th Sept.,
		in Maharashtra: Progress, Problems and	2009
		Prospects.	
2.	Chemistry	Workshop on "Micro Analysis in	25 th Sept.,
		Chemistry	2009
3.	Political	Workshop on "Economics of Koutilya"	29-30 Dec.,
	Science		2009
4.	Centre for	Workshop on "Atrocities on Dalits in	4-5 Jan., 2010
	Study of	India"	
	Social		
	Exclusion &		
	Inclusive Dolioy		
~			10th F 1 2010
Э.	Political	Workshop on "Partition of India"	10 Feb., 2010
(Science		1(17
6.	Centre for	Workshop on Impact of Globalization on	10-1/
	Study of Social	Indure of Social Exclusion and	Feb.,2010
	Exclusion &	Discrimination in Modern India	
	Inclusive		
	Policy		
	5		
7	Statistics	Workshop on "Design of Experiments and	17-20 Feb.
	~	Applications"	2010
8	Mathematics	Workshop on "Algebra for College	8 th March.,
		Teachers"	2010
		2010-2011	1
9	Technology	Workshop on "Energy Conservation and	16 th April,
		use of renewable energy sources for public	2010

-		-	
		utility building.	
10.	Political	Workshop on "Key concept of Political	21-22
	Science	Science"	Sept.,2010
11	Economics	Workshop on "Research Methodology and	9-10 Oct.,
		use of Computer in Data Analyses.	2010
12	Technology	Workshop on "United we stand Against Hunger"	16 th Oct., 2010
13	Commerce	Workshop on "Research Methodology and	11-12
	and Management	Quantitative Techniques"	Dec.,2010
14	Hindi	Workshop on "Hindittar Bhashi Hindi	03-20 Jan.,
		Navlekhak"	2011
15	Geography	Workshop on "Application of Quantitative	29 th Jan., 2011
		Techniques in Geography"	
16	Botany	Workshop on "Mangrove Awareness Programme"	1 st Feb., 2011
17	Technology	Workshop on "Sumo-robot 2011 and Tech	4-5 Feb., 2011
18	Environment	Sensitization Workshop on "Eluoride in	22 & 23 Eeb
10	al Science	Water"	22 & 25 FC0., 2011
19	Education	Workshop on "Statistics for Educational	2011. 24- 25 Feb
17	Laucation	Research"	24-25100.,
		2011-12	2011
20	Centre for	National Workshop on "Socio-Economics	25 th Nov
	Study of Social Exclusion & Inclusive Policy	of Devdasi-Jogate and Waghya-Murali	2011
21	Botany	Workshop on "Mangrove Awareness Programme"	12 th Jan., 2012
	Centre for Study of Social Exclusion & Inclusive Policy	Workshop on "Empowerment of Women Through Self-Help Groups	7-8 Feb., 2012.
22	Agro Chemistry and Pest Management	Workshop on "Recent Advances in Agrochemicals"	28 th Feb., 2012

23	Hindi	Workshop on "Recent trends in Hindi	02 nd March,
		Research"	2012
24	Statistics	Workshop on Formulation of Research	19-20 March,
		Proposals in Statistics	2012.
25	Biochemistry	Workshop on "Brain Storming"	26-27 Nov.,
			2012
		2012-2013	
26	Education	Orientation programme on Advances in	12-13
		Teaching strategies and Evaluation for	Oct.,2012
		Recruited Teachers of the Shivaji	
		university	
27	Botany	Workshop on "Tools and Techniques in	8-10 Nov.,
		Molecular Systematic Phylogenetics for	2012
		research students"	
28	Geography	Workshop on "Research Tools and	15 th Dec., 2012
		Techniques in Geography"	
29	Biochemistry	Workshop on "Challenges and	8-9 Feb., 2013
		Opportunities in Life Sciences"	

3.1.6 How does the university facilitate researchers of eminence to visit the campus as adjunct professors? What is the impact of such efforts on the research activities of the university?

There is a provision of adjunct professors as per the Maharashtra Universities Act, 1994. The University has started the scheme of Adjunct Professors from 2008. The efforts have significantly enhanced the University research interactions with institutes, industries and private sectors. What percentage of the total budget is earmarked for research? Give details of heads of expenditure, financial allocation and actual utilization. 3.1.7

						Heads of ex	xpenditure					
	Budget											
Year	(in Rs)	Civil work	Equipn	nents	Electr	rical	Furni	iture	Agency	Scheme	Othe	SI
		Allocation Utilization	Allocation ¹	Utilization	Allocation	Utilization	Allocation	Utilization	Allocation	Utilization	Allocation	Utilization
2009. 10	-29,65,00,700 (17.39%)	18,29,50,000 14,04,03,369	1,01,50,000	18,55,692	91,75,000	55,33,548	52,50,000	30,30,012	8,46,42,700	9,6,160,839	43,33,000	25,11,196
2010 [.] 11	-36,11,19,420 (19.49%)	16,00,00,000 7,36,30,998	23,00,000	15,76,264	63,00,000	34,39,231	93,00,000	13,59,535	14,87,27,420	8,04,83,290	3,44,92,000	19,04,363
2011 [.] 12	-35,75,61,762 (19.50%)	16,89,00,000 4,02,37,429	42,00,000	15,77,765	1,09,45,000	27,59,521	1,05,50,000	22,67,603	14,60,44,762	15,67,47,084	1,69,22,000	18,98,129
2012 [.] 13	-32,81,88,500 (16.11%)	12,99,00,000 2,20,03,066	26,00,000	4,28,409	1,86,25,000	26,55,309	1,12,00,000	34,27,281	14,43,93,500	21,19,28,338	2,14,70,000	37,05,670
2013- 14	-67,66,27,415 (26.63%)	13,57,00,000 4,58,94,048	71,00,000	14,94,945	1,63,25,000	33,59,281	1,33,00,000	21,78,032	49,06,50,415	23,96,97,183	1,35,52,000	16,74,536

Note: 1) The figures in the parenthesis indicate the percentage to the total University budget.

2) Excess expenditure is observed due to release of on- account money under Agency Scheme.

3.1.8 In its budget, do the university earmark funds for promoting research in its affiliated colleges? If yes, provide details.

Yes, the University has earmarked its own funds for promoting

research in affiliated colleges. The details are as follows:Sr. NoYearBudgetUtilizationNo. of(D)(D)(D)(D)(D)

SI. INO	real	Duagei	Ounzation	INO. 01
		(Rs. in lakhs)	(Rs.)	Beneficiaries
1	2009-10	2.00		
2	2010-11	2.00		
3	2011-12	2.00		
4	2012-13	5.00	2, 36,500	11
5	2013-14	10.00	4,50,000	20

The University has special provision of grants for research publication (doctoral and post-doctoral) as an equal share with the UGC.

3.1.9 Does the university encourage research by awarding Post Doctoral Fellowships/Research Associateships? If yes, provide details like number of students registered, funding by the university and other sources.

Yes, the University is planning to introduce Post Doctoral Fellowships funded out of its own sources. The University encourages Post-Doctoral Fellowships/Research Associateships funded by other agencies. At present there are 12 Post Doctoral Fellowships/Research Associateships in the University funded by the UGC, DST, DBT, CSIR and others.

Sr. N	lo Name of the Fellowship	Name of the funding agency	Number	Grant received
1	DST Inspire faculty award	DST	01	19.00 lakhs Fellowship Rs. 80,000/ month
2	Dr. D. S. Kothari Postdoctoral Fellowship Scheme	UGC	3	Fellowship:- 28,000/- P.M. Cont. 50,000/- P.A. + 20% HRA
3	Post Doctoral Fellowship for Women Scientist	UGC	1	Fellowship:-25,000/- P.M. Contingency:- 50,000/- P.A. + 20%
4	Project under Young Scientist Scheme	DST	4	87.90 lakh
5	Project under Women Scientist Scheme A (WOS-A)	DST	3	50.54 lakh

3.1.10 What percentage of faculty have utilized the sabbatical leave for pursuit of higher research in premier institutions within the country and abroad? How does the university monitor the output of these scholars?

The Maharashtra Universities Act, 1994 does not provide any provisions for sabbatical leave. However, the University provides study-leave to the faculty for pursuing their research in the premier institutions within the country and abroad.

3.1.11 Provide details of national and international conferences organized by the university highlighting the names of eminent scientists/ Scholars who participated in these events.

The University has organized number of national and international conferences /seminars/symposia. The details are as under:

·	Date		22-23 May, 2009	1 st Dec., 2009	15-16 Jan., 2010	22-24 Feb., 2010	25-27 Feb. 2010	8-9 March, 2010	19-20 March., 2010
Courter in a reprint of least and a car with the contract of t	Eminent Scholars visited	2009-10	Prof. S. V. Kunte, Prof. U. V. Naik-Nimbalkar, Prof. R. B. Bapat, Prof. U. J. Vaman	Dr. Panchakshri Hiremath, Dharwad, Dr. Sumangala Mummigatti, Dharwad, Prof. G. P. Chavan, Pune,	Prof. Asghar Ali Engineer, Shri Javed Anand, Shri F. H. Bennur.	Hanuma Nayaka Mengalore, Dr. A. Somshankara, Mysore Dr. Parag Prabhu ,Goa, Dr. Basavraj Hakki, Dharwad. Dr. (Smt.) Chincholi Manjula, Gulbarga. Dr. Shiladhar Mugli, Dharwad.	Prof. H. S. Yadav, Prfoessor Raymane, Banglore, Dr Nandkumar Sawant	Dr. Satyendrakumar Jain, Jaipur. Dr. Darshna Jain, Mysore. Dr. N. Sureshkumar, Mysore. Smt. Preeti Jain, Mysore. Smt. Padmini Raveendram, Belgaon.	Prof. M. I. Savadatti, Dr. D.P. Amalnerkar , CMET, Pune Dr. B.B. Kale, CMET, Pune, Dr. C.A. Betty, BARC, Mumbai Dr. P.A. Hassan, BARC, Mumbai. Dr. P.K. Khanna, CMET,
TAULOHAI AILA HIICHIIAUOHAI	Title of the Conference		National Seminar on Statistical Inference and Applications	National Seminar on "Kedarnath Agarwalaka Sahitya"	National Seminar on "Socio- Economics Status of Muslims in India	National Seminar on "Research Studies in South Indian History"	National seminar on Industrialisation and Rural Development	National Seminar on "Relevance of Sallekhana in the Modern World"	National Seminar on "Advanced materials (NSAM-2010)
	Name of the Department		Statistics	Hindi	Centre for Study of Social Exclusion & Inclusive Policy	History	Geography	Bhagawan Mahavir Chair	Physics
	Sr. No.		1	7	ω	4	5	6	L

National and International Conferences /Seminars/Symposia (Year wise)

			Pune. Dr. S.D. Dhole, Pune University	
			2010-11	
8	University	7 th University Industry Council	Padmashri Dr. Vijay Bhatkar, Eminent Scientist,	5-8 Aug.,
	Industry Interaction Cell	Symposium (Industry- Academia Collaboration for the Development	Prof. (Dr.) K. B. Powar, Former President, AIU. Prof. (Dr.) D. N. Deobagkar. VC. Goa University. Prof. (Dr.) Chandrakant	2010
		of Western Region of India) sponsored by AIU, CII and Shivaji	Kokate, VC, KLE University, Karnataka. Prof. (Dr.) H. P. Khincha, VC, VTU, Belgaum. Prof. (Dr.) Raju Mankar, VC, Dr	
6	Hindi	Kedarnath Agrawal ka Sahitya.	B.A. I econological University, Lonere, Kaigad Dr. Panchakshari Hiremath .Dr. Sumangala Mummigatti. Prof. G. P. Chavan	1 st Dec., 2010
10	Chemistry	National Seminar on "Advances in	Prof S Shivram Fx Director NCI Dune Prof S Kotha IIT	71-73 Ian
		synthetic Methodologies and New	Mumbai, Prof. G. K. Lahiri, IIT, Mumbai, Dr. Rahul Nananerjee,	2011
		Materials"	NCL, Pune, Prof. Srikrishna, IIS, Bangalore, Dr. P. P. Vadgaonkar, NCL, Pune, Prof. P. S. Kalasi, Punjab University,	
			Ludhiana, Dr. S. N. Achary, BARC, Mumbai, Prof. Pakanikar, Goa University, Goa.	
11	Centre for	National Seminar on "Accounting	Dr. V. S. Manganale, Prof. D. P. Pal, Prof. D. D. Shelar, Prof.	1-2 Feb.,2011
	Study of Social Exclusion & Inclusive Policy	the Social Sector Development"	Pramkrishna Pal.	
12	Physics	National seminar on "Physics of	Prof. M I Savadatti,, Prof. D K Ashwal, Prof. Yuan Ron Ma,	16-17 Feb.,
		material and materials based Devices Fabricating"	Prof. Ching-Lian- Cheng, Prof. P B Wagh, Prof. Wang-Chi- Vincent Yeh Prof. Wen –Ping Peng, Prof. Mainak Roy, Dr. K R Priolkar	2011

13	Sociology	National Seminar on "Environment, Society and Culture in the Wake of Globalization"	Dr. Ganesh Somayaji, Dr. R. Rajesh, Dr. C. A. Somashekharappa, Dr. Himani Mishra and Aditya Mishra	18-19 Feb., 2011
14	Education	National Conferences on "E- Education"	Prof. Dr. M. S. Latithamma Prof. Dr. R. G. Kothari	22-23 Feb., 2011
15	Education & Law	National Symposium on "Rights to Education and Its Intricacies"	Prof. Dr. R. G. Kothari CASE, Vadodara (Gujarat)	1 st March., 2011
16	Biochemistry	National Symposium on "Recent Trends in Life Sciences	Dr. Ashok Pandey, Dr. Datta Madamwar, Dr. Dilip Devabagkar,	4-5 March., 2011
17	Political Science	National Seminar on "India's Foreign Policy : Continuity and Change"	Prof. Shrikant Paranjape, Pune, Dr. V. T. Patil, Pondicherry, Brig. Hemant Mahajan, Dr. Vijay Khare, Dr. V. B. Nandedkar	4-5 March., 2011
18	History	National Seminar on "Maharani Tarabai and her Times"	Dr. G. T. Kulkarni, Dr. Nagraj Naidu, Bangalore., Dr. Sadashiv Shevde, Pune, Dr. Umesh Kadam, Pune	18-19 March, 2011
19	Adult and Continuing Education and Extension Work	Rashtriy Golmej Parishad: Maharashtrachya Itihasachi Mandani ani Punarmandani.	Dr. K. Parthsarthi Dr. V. Seeni Natrajan	24-25 March, 2011
20	Marathi	National Seminar on Maharshi Vithhal Ramji Shinde "Jivan va Karya"	Dr. G. M. Pawar Dr. Nagnath Kottapalle Dr. J. R. Dabhole	25-26 March, 2011

			2011-2012	
21	Chemistry	National Seminar on "Recent Advances in Synthetics Chemistry and Nano materials	Prof. Kotha, IIT Mumbai, Dr. Gopinath, NCL Pune, Dr. B. B. Kale, C- MET, Pune, Prof. R. S. Mane, SRTMU Nanded, Dr. K. Ralhan, Ex- Prgram Officer, BRNS, Mumbai, and Dr. Sudarshan, BARC Mumbai	21-22 Jan., 2012
22	Hindi	Vishnu Prabhakar ka Sahitya: Vartaman Sandarbha.	Girish Pankaj, Dr. Rajendramohan Bhatnagar Dr. Prabhakar Takawle , Dr. Vasant Keshav More Nisha Nishant, Harshwardhan Aarya, Atul Prabhakar	25-26 Feb., 2012
23	English	National Seminar on "Post Colonial Literature in English "	Prof. J. A. Shinde Prof. Nina Kaldera Prin. (Dr.) M. A. Shaikh	6-7 March, 2012
24	Economics	National Symposium on Jalmulya Nirdharan Tatva, Vyavhar Va Samasya.	Dr. D. M. More, Dr. Sunil Patil, Dr. V. B. Jugale.	20 th Aug., 2011
25	University Industry Interaction Cell	"UDYOGLAKSHMI" International Marketing Business Conference,	Prof. (Dr.) N. J. Pawar, Vice- Chancellor, Shivaji University, Kolhapur. Shri. Laxmikant Deshmukh, District Collector, Kolhapur. Smt. Madhugeeta Sukhatme, Ex. President, Consumer Court, Pune. Shri. Jayant Ghate and Shri. Vivek Sonwane,, World Trade Centre	25-26 Dec 2011
26	Sociology	National Seminar on "ICT Development and Social Justice in India	Dr. Madhav Govind, Dr. N. R. Choudhari	17-18 Feb., 2012
			2012-2013	
27	Statistics	National Seminar on "Recent Developments in Statistical Modeling"	Dr. J. V. Deshpande, ICER, Pune Dr. R. N. Rattihalli, Rajasthan Dr. S. Ravi, Mysore, Dr. Sharadha Bhatt, Dharwad.	12-13 Oct., 2012

28	History	National Seminar on "Western India in Transition"	Prof. S. V. Jain, Rajkot. Prof. Imaratwale Abdulgani, Bijapur Dr. Mohite Mina, Belgaum. Dr. Katariya Dilip, Baroda Prof. Nayeem M.A. Hyderabad. Dr. Parag Prabho, Goa	30-31 Oct., 2012
29	Environmenta I Science	National Conference "Importance of Scientific Terminology in Environmental Science in Regional (Marathi) Language	Shri Ashok Shelvatkar, CSST, HRD Ministry, Delhi, Dr. Arvind Dhapate, Field Office, MPCB	27-28 Oct., 2012
30	Botany	National Seminar on "Medicinal Plants status and future"	Prof. Bhushan Patwardhan, Prof. G. R. Hedge Prof. K. Ravikumar, Dr. P. Manivel	6-7 Nov., 2012
31	Biochemistry	National Seminar on "Brain- storming session for Application of Technology for sustainable Development in the state of Maharashtra"	Dr. Anil Kakodkar, Dr. G. D. Yadav, Dr. A. V. Sapre	25-26 Nov., 2012
32	Technology	National Conference on "Emerging Technologies for sustainable Developments"	Dr. B. V. Rao, New Delhi, Dr. Rajesh Bilani, Mumbai, Dr. Vivek Buwa, Delhi. Dr. Sudhir Walde, Mysore, Dr. Prashant Bhave, Mumbai, Dr. M. Talib, Jalgaon Dr. D. D. Shivgan, New Delhi	27-28 Dec., 2012
33	Education	National Seminar "Quality Enhancement of Teacher Education ²	Prof. (Dr.) M. S. Latithamma, Pondicherry, Prof. (Dr.) R. G. Kothari, KASE, Vadodara, Gujarat, Prof. M. N. Deshmukh, Mumbai	18-19 Jan., 2013
34	Physics	National Seminar on "Physics of Materials and Material Based Device Fabrication	Prof. Dr. M I Savadatti, Dr. S H Pawar Kolhapur. Dr. U S Raikar, Dr. Amalnerkar (C-MET), Dr. Priolkar (Goa)	4- 5 Jan., 2013

35	Chemistry	National Conference on "Current Research in Chemical Science-2013"	Prof. N. N. Maldar , Dr.Anand Gole, Prof. V. Krishna Reddy, Dr. N. M. Gupta, Prof. M. S. Thalur Chief Scientist CFTRI, Mysore, Prof. K. George Thomus, Prof. B. M. Bhanage	22-23 Jan., 2013
36	Microbiology	National Conference on "Challenges and Opportunities in Life Science	Prof. Datta Madamvar, Gujrat, Prof. Dilip Deobagkar, Pune Prof. Dipti Deobagkar, Pune. Dr. Ashok Pandey, Kerala Dr. Imtiyaz Hasan, JMI, New Delhi. Dr. Mahesh Kulkarni, NCL, Pune. Dr. S. G. Bhagwat, BARC, Mumbai Dr. K. R. S. Chandrakumar, BARC, Mumbai. Dr. Ratnakar Chitte, ARI, Pune	8- 9 Feb., 2013
37	Sociology	National Seminar on "Poverty and Social Inequalities in India"	Dr. R. D. Maurya, Dr. D. Venkateshwarlu, A. Kalpana, Dr. Smruti Bhosale, Dr. Supriya D'souza.	15-16 Feb., 2013
38	Electronics	Information and Communication Technology for Education	Prof.M. B. Deshmukh. Prof. Loues Varnal Dr. Vivek Chavan. Prof. Ram Takwale.	4-5 March, 2013
39	Education	National Conference on "Information and communication Technology for Education"	Prof. Ram Takwale Pune. Prof. M. N. Deshmukh.MKCL, Pune.	4- 5 March, 2013
40	English	National Seminar on Comparing Literatures/ Languages: Theory and Practice	Prof. Pramod Talegari, Prin. (Dr.) Ashok Thorat, Dr. Munira Lokhandwala	6-7 March, 2013
41	Bhagwan Mahavir Chair	National Seminar on Ahimsa in Jainism and World Peace	Dr. Hampa Nagarajaiah, Bangalore, Navalgunda Ravikumar, Belgaum. Dr. G. Jawaharlal, Andhra Pradesh Dr. Shantisagar Shirhatti, Shravanbalgola	3-4 Feb.,2013.

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Bh	awan	National Seminar on "Jain Pr	of. Bhagchandra Jain, Nagpur	7-8 March,
Ma cha	havir ir,	Literature in Indian St languages" St	urah Taylor, USA, Dr. Nileem Jain, Hariyana inivas M.V., Bangalore, Chalawadi, S. G. Dharwad.	2013
Ge	ography	National Seminar on D	r. Sacchidanand Sinha, New Delhi. Prof. S. Subbiah, Chennai. 1	12-13
		"Resources Appraisal and Pr sustainable Regional S.	of. M. B. Singh, Varanasi. Prof. R. N. Dash, Baroda. Prof. H. N. Yadav, Bhopal. Prof. Vinodkumar Bharadwaj, Varanasi Dr.	March, 2013
		Development" A	. S. Raimane, Bangalore	
		D	r. R. B. Bhagat, Mumbai.	
С¢	entre for	"Role of Social Scientists, SI	nri Lalit Babar, Dr. A. H. Salunkhe, Prof. Shantaram Pandhare, 1	12-13
St .	udy of	Activists and Social Workers SI	nri Kumar Shiralkar, Shri Rajan Anwar, Dr. T. S. Patil. 🛛 🛛	March,
S I	cial	in Grass-Root Level	2	2013
Ξ,	clusion &	Intervention for the		
Pc	clusive	Upliftment of Marginalized Communities.		
		Intern	ational Conferences/Seminars	
	Name of the	Title of the	Eminent Scholars visited	Date
	Department	Conference/Seminars		
B	otany	Conference and International	Dr. K. R. Shivanna, Dr. Miguel D. Fortes	10-12 Nov.,
		Symposium on" New Horizons Botany"	of Dr. Padnabha Dwivedi 20	2010
Ŭ	entre for	International Seminar on "The	Scott Kafera, USA, Uma Mestri-Dhupelia, South Africa, 10	10-12 March,

Sr.	Name of the Department	Title of the Conference/Seminers	Eminent Scholars visited	Date
1.	Botany	Conference and International	Dr. K. R. Shivanna, Dr. Miguel D. Fortes	10-12 Nov.,
		Botany"	Dr. Faquadha DWIVedi	7010
5.	Centre for	International Seminar on "The	Scott Kafera, USA, Uma Mestri-Dhupelia, South Africa,	10-12 March,
	Gandhian	Making of Mahatma : M.K.	Prof. Subroto Mukherji, Delhi, Shri Tushar Gandhi, Mumbai,	2011
	Studies	Gandhi in South Africa"	Shri Anil Nauriya, New Delhi, Dr. Meena Deshpande,	
			Bangalore, Shri Natwar Thakkar, Gauhati, Prof. Tapankumar	
			Chattopadyaya, Calcutta, Dr. Sushila Ramaswamy, Delhi.	

21-22 Feb., 2011	20- 21 Dec., 2012	22-23 Feb.,2011	17-19 Jan., 2012	26 th Oct., 2013
Dr. Alexandra Kansalaro, Italy. Dr. Reshmi Ramdhoni, Morrisus. Dr. Sangeeth Ratnayake, Srilankh. Dr. R. Bhatnagar. Dr. Chandulal Dube, Hyderabad. Dr. Sweta Dipti, Nevaru, Dr. Sangita Varma, Nepal.	Dr. Izak Henk, Australia. Prof. Mahinda Rupasinge, Vice- Chancellor, Sabargumawa University, Srilanka. Dr. Anil Kulkarni, IISC, Bangalore	Dr. Alexandra Kanslaro, Dr. Reshmi Ramdhoni Sangeeth Ratnayake, Dr. Shweta Dipti Dr. Sangita Varma Dr. Sureshchandra Alok	 Prof. M. I. Savadatti, Prof. M. M. Salunkhe, Prof. J. H. Kim, Prof. Vinu Ajayan, Prof. R. G. Sonkawade, Prof. G. P. Kothiyal, Prof. D. P. Amalanerkar, Prof. N. Veeraiah, Prof. D. H. Kim, Prof. Chia-Liang Cheng, Prof. Y.RMa, Prof. Kehar Singh, Prof. S. H. Pawar, Prof. Prof. C. K. Jayasankar, Prof. K. Mahato, Prof. Matjaz Valant Prof. Y. Dwivedi, Ms. Anna Axelson, Prof. U.S. Raikar, A. K. Rai, Prof. Anchal Srivastava, Prof. S. B. Rai, Prof. Gerard 	Prof. Francois Berger, France. Dr. S. Prabhu France.
International Conference on "Literature and History"	International Conference on "Sustainable Water Resource Development and Management"	Sahitya aur Itihas	1st International Conference on Physics of Materials And Materials Based Device Fabrication (ICPM-MDF-2012): Participants : 300	Application of Nanotechnology in Brain Science.
Hindi	Environmental Science	Hindi	Physics	Nano Science and Technology
3.	4.	5.	9.	L

3.2 Resource Mobilization for Research

3.2.1 What are the financial provisions made in the university budget for supporting students' research projects?

The University has a special budgetary provision of Rs. 12 lakh per year for supporting 42 Ph. D. research students from 2013-14. It was Rs. 5 lakh in 2011-12 and Rs. 10 lakh in 2012-13.

The students are provided with departmental research fellowships, infrastructural facilities and research grants for analytical and field services, typing and printing work, and travel grant for attending conferences/workshops, etc. A newly established Physics Instrumentation Facility Center encourages the students by doing characterization of their samples.

3.2.2 Has the university taken any special efforts to encourage its faculty to file for patents? If so, how many have been registered and accepted?

Intellectual Property Rights (IPR) Cell is functional in the University. It guides the respective faculty on an individual basis. The faculty members are sensitized as regards IPR and patent filing by means of special lectures.

The university encourages the filing of Patents. The numbers of Patents obtained and filed are as follows:

Sr. No.	Department	Patents filed
1.	Physics	21
2.	Biotechnology	03
3.	Biochemistry	01
4.	Chemistry	01
5.	Botany	01
6.	Technology	02
	Total	29

3.2.3 Provide the following details of ongoing research projects of faculty:

The University has the ongoing research projects worth Rs. 1564.68 lakhs. Details are as under:

Projects	Rs. in lakhs
Minor	21.27
Major	1345.44
Emeritus Professor/Young Scientists	197.97
Т	tal 1564.68

Sr. No	Name of the Investigators and Department	Year wise	Number	Name of the project	Name of the funding agency	Total grant sanctioned (Rs. in lakhs)
A) Uni	versity awarded projects					
Minor pı	rojects –	-	1	-	-	ı
Major pı	rojects	-	1	-	I	I
B) Fund	ding Agencies					
Minor pı	rojects					
1.	Dr. P. T. Patil (Geography)	1-7- 2012- 30-6- 2014	F.41-1417- 2012 (SR), Dtd.30/7/ 2012	An Assessment of industrialin Kolhapur District.	UGC	1.40
2.	Dr. N. V. Chitnis (Music & Dramatics)	1-7-2012- 31-12-2013	6-7/ 2012(HRP) dtd.30-8-2012	Vijay Tendulkaranchya Natkachi Abhyas	UGC	1.50
3.	Dr. S. B. Chavan (Electronics)	July 2012- June 2014	42-1014/ 2013(SR) dtd.22-3-2013	Implementation of efficient Application	UGC	1.00
4.	Dr. R. R. Mudholkar (Electronics)	July 2012- June 2015	42-1016/ 2013 (SR) dtd.22-3-2013	Reducing university computing techniques	NGC	1.10
5.	Prof. S. R. Yadav (Botany)	2012-2015	NBA/10/30/PRO/11- 12/1684, dt. 9-8-2012	Database on flowering plants of Maharashtra state.	NBA	1.50

List of ongoing research projects

1.85	1.00	0.85	1.97	1.10	1.00	2.00	1.25
UGC	UGC	UGC	UGC	UGC	UGC	UGC	UGC
Increasing yield of innovatively cultivated crops through novel extraction methods	Implementation of efficient transformer less DC-DC converter for photovoltaic application	Detection and prevention of online password guessing attacks using CAPTCHA	On nonlinear mixed functional interodifferential equations in banach spaces.	Reducing University IT budget by cloud computing technique.	Implementation of efficient transformer less DC- converter fro photovoltaic application.	Enzyme added extraction of lycopene from tomato processing industry waste.	Cytogenetics and reproductive biology of Camptorrhizaindica, a narrow RET Indian species.
F.No. 42-1014/ 2013 (SR) Dtd.22-3-2013	F.No. 42-1022/ 2013 (SR) Dtd.22-3-2013	F.No. 42-1022/ 2013 (SR) Dtd.22-3-2013	F.No. 42- 997/2013(SR), Dt-22/03/2013	F.42-660/2013 (SR) Dt-22/03/2013	No.42-368/ 2013 (SR), Dt-25/03/2013	F. No. 42-1010/ 2013 (SR), Dt-22/03/2013	SR/S2/ CMP- 89//2012/ dtd.20-05-2013
1-4-2013 to 31-3-2015	1-4-2013 to 31-3-2015	1-4-2013 to 31-3-2015	1-4-2013 to 31-3-2015	1-4-2013 to 31-3-2015	1-4-2013 to 31-3-2015	1-4-2013 to 31-3-2015	1-4-2013 to 31-3-2015
Mr. P. D. Patil (Technology)	Mr. S. B. Chavan (Technology)	Mrs. R. V. Mane (Technology)	Mr. K. D. Kucche (Mathematics)	Dr. R. R. Mudholkar (Electronics)	Mr. S. R. Chavan (Electronics)	Mr. R. C. Ranveer (Food Sc. and Tech.)	Dr. M. M. Lekhak (Botany)
6.	7.	×.	.6	10.	11.	12.	13.

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0.75	09.0	2.40	21.27		57.33	9.54	5.42	8.38
UGC	UGC	DEB, UGC, New Delhi			DBT	UGC	UGC	UGC
Study of Data Structures for Data streams	Study of BSNL Cellular Services in Kolhapur	22		ects	Recovery of ret species of <i>Ceropegia</i> from Western Ghats.	Geo-medical studies and evaluation of District Kolhapur.	Synthesis characterization and bioactivity ofheterocycles.	Degradation of organic impurities semiconductor thin films.
F.No.37-632/ 2009(SR) dtd.12-1-2010	F.No.33-436/ 2007(SR) dtd. 5-4-2008	SU/CDE/2074/4615 17-01-2014	Total	Major proj	BT/PR/9456 /BCE/08/572/ 2007 Dtd.10-1-2010	F. No.39-786/2010 (SR) 6/01/2011	F. No.39- 466/2010(SR) 07/01/2011	F.39-466/2010 (SR)
Feb 2010 – Apr 2012	Apr 2008- Mar 2010	2013-14			10/1/2010 to 9/1/2015	01/02/2011 to 31/01/2014	01/02/2011 to 31/01/2014	01/02/2011 to 31/01/2014
Dr. K.S. Oza (Computer Science)	Dr. U.R. Pol (Computer Science)	Centre for Distance Education			ır. S.R. Yadav 3otany)	br. P. D. Raut Env. Sci.)	br. P. V. Anbhule Chemistry)	br. C. H. Bhosale Physics)
14.	15.	16.			1. (E	2. (E	3. D	4. D

5.	Dr.N.B. Gaikwad (Botany)	Feb. 2011 to March. 2012	नियो / का / 18 / जिवायों प्रमान 140 / 10जिल्हा नियोजन समिती दि 17.01.11	"Establishment of arboretum of medicinally important species of western ghats"	DPDC	20.00
6.	Dr.G.B. Kolekar, (Chemistry)	13/4/2011 to 12/4/2014	2011/37C/01/ BRNS dtd.13-04-11	Synthesis characterization and fluorescence study of metal nanoparticles.	BRNS	22.14
7.	Dr.R.K. Kamat (Library)	1/9/2011 to 31/3/2014	NMM/18 (58) MRC/11-12 dtd.28-06-11	Commissioning tasks of survey, listing, cataloguing and for Manuscripts"	MMN	15.00
8.	Dr. C.H. Bhosale, Dr. P.S. Patil (Physics)	4/8/2011 to 3/8/2014	ERIP/ER/0803719/M/ 01/1343 dtd. 29.6.2011	Development of gas sensors for toxicants of defence interest.	DRDO	17.28
9.	Dr.K.M. Garadkar (Chemistry)	21/11/2011 to 20/11/2014	SR/S1/PC/ 0041 / 2010/ dtd.20-09-11	Preparation & characterization of mixed metal	DST	19.90
10.	Dr.S.S. Chavan (Chemistry)	12/3/2012 to 11/3/2015	DST/INT/AUS/P- 40/2011 dtd.03-10-11	Hybrid organometallic coordination complex materials Optics.	DST	17.37
11.	Dr. K. D. Sonawane (Biochemistry)	1-7-2011 to 30-6-2014	F.No. 40-204/ 2011 dtd.29-7-2011	Structural significance of anticodon loop of tRNA	UGC	10.41
12.	Dr. A.K. Sahoo Dr. (Mrs) P.B. Dandge (Food Sc. & Tech.)	2011-2014	F.No. 39-93/ 2010 (SR) dtd. 24-12-2012	Food and neutraceutical applications of fruit Bastard Oleaster (Elaeagnusconferta Syn. Latifolia)	UGC	10.56
13.	Dr. C. T. Pawar (Geography)	2011-2014	F.No. 39-11/ 2010 (SR) dtd. 23-12-2010	Water-shed management and development in Hiranyakeshi basin : a geoinformatic approach	UGC	10.62

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14.	Dr. M. B. Potdar (Geography)	26-3-2012 to 25-3-2014	ICSSR 02/152/2011/ RP dtd. 4-7-2012	Development of eco-tourism : a geographical analysis	ICSSR	6.36
15.	Prof. M. L. Jadhav (English)	1-7-2012 to 30-6-2014	F.No945/ 2012 (HRP) Dtd.22-8-2012	Metaphors of Self, Nature and Culture A Study with an Ecocritical Perspective.	UGC	5.00
16.	Dr.(Smt) M. B. Potdar (Geography)	2009-2011	F.02/152/2011/ RP dtd. 13.3.2012	The development of ecotourism in Western Ghats A Geographical Analysis"	UGC	6.86
17.	Dr. A. Deshmukh (Zoology)	16-4-2012 to 15-4-2015	SR/CS1/26 – 2011/(G) dtd. 02-03-2012	Effects of calorichippocampal neutrons	DST	25.70
18.	Dr. J. B. Sapkale (Geography)	11-6-2012 to 10-6-2014	ICSSR 02/125/2011/ ST/RP, dtd. 29/03/2012	The socio-economic and Environmental Warna Basin, Maharashtra.	ICSSR	6.20
19.	Dr. P. S. Patil (Physics)	20-6-2012 to 19-6-2015	03/(1240)/12/EMI- II,dtd. 16/4/2012	Development of superiorand functionalized ionic liquids.	CSIR	16.39
20.	Dr. A. D. Jadhav (Zoology)	2-5-2012 to 1- 5-2015	No.37(1546)/12/ EMR-II, dtd. 02/05/2012	Impact of wild Sericulture onfrom western Maharashtra.	CSIR	12.24
21.	Dr. A. A. Deshmnukh (Zoology)	1-7-2012 to 30.6.2014	F 41-45/2012 (SR),dtd. 10/07/2012	Hormetic effects of dietary youthful conditions during egeing.	UGC	12.39
22.	Dr. M. A. Anuse (Chemistry)	1-7-2012 to 30.6.2015	F 41-45/2012 (SR),dtd. 13/06/2012	"Extraction separationweight amines"	UGC	10.46
23.	Dr. Vijaya Puri (Physics)	4-102012 to 3- 10-2015	No.2012/34/36/BRNS / 1034, dtd.06/7/2012	Performance study of miniaturized	DAE	21.34

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24.	Dr. B. S. Mohite (Chemistry)	1-7-2012 to 30.6.2015	F.41-340/2012 (SR),dtd.13/07/2012	Synthesis of nonmaterial's for analytical applications.	NGC	12.26
25.	Dr. D. S. Bhange (Chemistry)	1-7-2012 to 30.6.2015	F 41-246/2012 (SR), dtd.13/07/2012	Synthesis and structural characterization application.	UGC	13.67
26.	Dr. S.S. Kolekar (Chemistry)	1-7-2012 to 30.6.2015	F.41-249/2012 (SR)dtd.13/07/2012	Fabrication of Cu2ZnS4(CZTS)solar cell application.	UGC	8.61
27.	Dr. P. N. Bhosale (Chemistry)	1-7-2012 to 30.6.2015	F.41-30/2012 (SR),dtd.13/07/2012	Phtocatalytic decomposition to toxic organics water oxide thin films.	UGC	11.21
28.	Dr. D. H. Dagade (Chemistry)	1-7-2012 to 30.6.2015	F.41-345/2012 (SR),dtd.13/07/2012	Thermodynamic and molecular liquids in aqueous solutions.	UGC	14.41
29.	Dr. R. S. Salunkhe (Chemistry)	1-7-2012 to 30.6.2015	F.41-310/ 2012 (SR) dtd.13/07/2012	Synthetic studies involving hydrotropic solution.	UGC	8.28
30.	Mrs. N. S. Chavan (Botany)	1-7-2012 to 30.6.2015	F.41-482/2012 (SR),dtd.16/07/2012	Isolation and characterization of starch from mangroves.	NGC	12.88
31.	Dr. R. K. Kamat Dr. S. A. Shinde (Electronics)	17/07/2012 to 16/07/2015	F41-593/ 2012(SR), dtd.17/7/2012	Development testing and prototyping warning system.	NGC	14.88
32.	Prof. S. R. Patil (Chemistry)	1-7-2012 to 30.6.2015	F.41-217/2012 (SR) dtd.17/07/2012	Preparation of organic nano particles (NP) analytical applications.	NGC	10.46
33.	Prf. M. B. Deshmukh (Chemistry)	1-7-2012 to 30.6.2015	F.41-211/2012 (SR), td.17/07/2012	Synthesis and applications if new macro cyclic molecules.	NGC	11.94
34.	Dr. S. M. Gaikwad (Zoology)	1-7-2012 to 30.6.2015	F.41-61/2012 (SR),dtd. 18/07/2012	Faunal diversity from Kolhapur and Sangli districts.	UGC	9.20

35.	Dr. K. Y. Rajpure (Physics)	1-7-2012 to 30.6.2015	F.41-869/2012 (SR),dtd. 23/07/2012	Photocatalytic degradation oftrioxide (WO3) thin films.	NGC	13.02
36.	Dr. J. B. Yadav (Physics)	1-7-2012 to 30.6.2015	F.41-910/2012 (SR),dtd.23/07/2012	Optical waveguide study ofoptical circuit.	NGC	12.53
37.	Dr. A. V. Moholkar (Physics)	1-7-2012 to 30.6.2015	F.41-945/2012 (SR),dtd.25/07/2012	Study on spray deposited CZTS junction solar cells.	UGC	14.00
38.	Dr. C. H. Bhosale (Physics)	31-12-2012 to 30-12-2015	ERIP/ER/1003824/M/ 01/ 1436, dtd. 25/07/2012	Studies on SynthesisNano- Structured La1x,src,fey,o3.	DRDO	14.98
39.	Dr. P. B. Dandge (Biochemistry)	1-7-2012 to 30.6.2015	F.41-1282/ 2012 (SR),dtd. 26/7/2012	A study of cholesterolfor cholesterol termination.	NGC	13.92
40.	Dr. G. D. Saratale (Biochemistry)	1-7-2012 to 30.6.2015	F.41-1263/ 2012 (SR),Dtd. 26/7/2012	Celluloluiticengy mes production by	NGC	11.05
41.	Dr. V. K. Shinde (Marathi)	1-7-2012 to 30.6.2014	F. <i>5</i> /202-2012/(HRP) Dtd.31/7/2012	A Dialect Study of Nomadic Tribes in Maharashtra	NGC	8.20
42.	Dr. R. G. Saratale (Biochemistry)	1-7-2012 to 30.6.2015	F.41-1268/2012 (SR) Dtd.30/7/2012	Studies on microbialfrom textile effluent.	NGC	12.61
43.	Dr. V. P. Katti (Economics)	1-7-2012 to 30.6.2014	F.5-418/2012 (SR) Dtd.07/8/2012	Emerging Issues of Alternative Banking Sindhudurga District.	NGC	6.71
44.	Prof. P. P. Hankare (Chemistry)	1-7-2012 to 30.6.2015	41-282/2012 (SR), dtd.16/08/2012	Synthesis and characterization materialsfor photocatalytic applications.	NGC	5.26
45.	Dr. (Smt.) M. V. Walvekar (Zoology)	24-8-2012 to 23-8-2015	BT/PR15421/BRB/ 10/922/2011	Effect of salivary secretionsof sialoadenectomised mother in mice.	DBT	26.22

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46.	Dr. (Smt.) V. A. Sawant (Technology)	Nov. 2012 – Nov 2014	F.20- 1/2012(BSR)/20-7 (10)/2012 dtd 30/10/2012	Synthesis, structure and Photo-physical properties of Novel Porous Metal Organic Frameworks.	NGC	6.00
47.	Dr. S. A. Sankpal (Chemistry)	2012-2015	20-6(10) /2012 (BRS), dt.14/09/2012	Approval-cum-sanction letter for UGC- BRS Research Start-Up-Grants.	NGC	6.00
48.	Dr.(Smt.) Vasanti Rasam (Political Science)	1-7-2012 to 30.6.2014	F.5 - 238/2012(HRP) Dt31-7-2012	Politics of water sector in Maharashtra	NGC	7.23
49.	Dr. S. S. Panhalkar, (Geography)	10/1/ 2013 to 9/1/ 2016	NRDMS/11/ 1574/011(G) dtd.17-09-2012	Hydrodynamic modelling of Panchganga River techniques.	DST	19.15
50.	Dr. P. N. Bhosale (Chemistry)	27-11-2012 to 26-11-2015	2012/34/51/ BRNS/2036, Dt-27.11/2012	Fabrication of complementary WO3/Nil - on solid electrolyte.	DAE-BRNS	24.99
51.	Dr. Vijaya Puri (Physics)	27-11-12 to 26-11-15	SR/S2/CMP-30/2008, dtd. 16/01/2009	Performance study of magneto-dielectricmicrowave components.	DST	20.49
52.	Dr. A. A. Deshmukh (Zoology)	24-1-2013 to 23-1-2016	54/22/CFP/GER/2011 -NCD-II Dt-24.01.2013	Hormetic effects of mild heat stress and food restriction on neurons during ageing.	ICMR	38.10
53.	Prof. P. P. Hankare (Chemistry)	5-2-2013 to 4- 2-2016	No.2012/37C/58/BR NS2618 Dt- 05/02/2013	Nanocomposite photocatalysts for environmental cleaning application.	DAE-BRNS	23.54
54.	Prof.C.D. Lokhande, (Physics)	7/3/2013 to 6/3/2016	2012/34/67/ BRNS/2911/ dtd.7-3-2013	Highly fexible and all-solide-state MnO2 supercapacitors.	DAE-BRNS	17.42

55.	Mrs. A. S. Jadhav (Chemistry)	1-4-13 to 31- 3-16	F. No. 42-416/ 2013 (SR) Dt-12/03/2013	Evaluation of drinking water Karveer taluka of Kolhapur district.	NGC	5.36
56.	Dr. S. R. Yadav (Botany)	1-4-13 to 31- 3-16	F.No. 42-961/2013 (SR), 14/3/2013	"Cytogenetical studies in the genus Crinum L. from peninsular India	UGC	12.26
57.	Dr. (Mrs) H.V. Kulkarni (Statistics)	14.3.13 to 13.3.16	No. 25(0211) /13/EMR-II Dt. 14.03.2013	"Development of simple efficient distributed random variables.	CSIR	3.64
58.	Dr. S. R. Yadav (Botany)	20132016	महाराष्ट शासन पर्यावरण विभाग शासननिर्णय क. इनच्ही–2012/ प्र.कं72/तां. क.3 दिनांक19.03.13	MultiplicationCall for Green Ideas पश्चिम घाटातील दुर्मिळ वनस्पतींचे; RET Plant Species) संवर्धन	Govt. of Maharashtra	30.00
59.	Dr. R. V. Gurav (Botany)	2013-2016	महाराष्ट्र शासन पर्यावरण विभाग शासननिर्णय क. इनन्ही–2012 / प्र.कं72 / तां. क.3	Germplasma collection green ideas भारतीय पामवर्गीय वनस्पतींचे EX-Si जन संवर्धन	Govt. of Maharashtra	30.00
60.	Dr. (Mrs.) A. U. Arvindekar (Biochemistry)	1.4.13 to 30.4.16	F.42-660/2013 (SR) Dt-22/03/2013	"Study of non specific protein glycation inhibitors from plant sourcesdiabetes mellitus.	UGC	14.88
61.	Dr. G. B. Kolekar (Chemistry)	1.4.13 to 31.3.16	No.42-368/2013 (SR),Dt-25/03/2013	Nanomaterials as analytical probes for sensing application.	NGC	10.89
62.	Dr. D. M. Pore (Chemistry)	1.4.13 to 31.3.16	F.No.42-394/2013 (SR) Dt-28/03/2013	Development of cleaner methodologies for heterocycles and coupling reactions.	NGC	10.47
63.	Dr.P.S. Kamble Economics	1/4/ 2013 to 30/10/2014	02/25/SC/2012/ RP dtd.26-03-13	Social sector development for inclusive growth of Maharashtra"	ICSSR	4.50
64.	Dr. Mrs. N.S. Chavan (Botany)	3-4-2013 to 02-04- 2014	No.Desk-6/Plan/03, Dt-03/04/2013	Proposal for conservation of rare and endanger species Nursery Techniques.	GoM	7.50

	Dr. K. Y. Rajpure	2013-2016	No. 03(1284) 13/	Development of	CSIR	12.10
65.	(Physics)		EMR-II Dt- 09/04/2013	magnetoelectricmultiferroic cost effective chemical methods.		
66.	Prof.C.D. Lokhande, (Physics)	20/6/2013 to 19/6/ 2016	SR/S2/CMP- 89//2012/ dtd.20-05-2013	Development and characterization of chemically processed 2ZnSnS4(CZTS) applications.	SERB	20.68
67.	Prof.C.H. Bhosale (Physics)	11/6/2013 to 10/6/2016	SR/S2/CMP- 62//2012/ dtd.23-05-2013	Photoelectrocatalytic performance of spray deposited	SERB	10.16
68.	Dr. Jagan Karade (Sociology)	1/9/2013 To 1/3/2015	No.02/252/2012/RP/ dtd.3-7-2013	Interaction patterns of scheduled caste's Elite in Maharashtra: Mumbai, Pune and Nagpur Cities"	ICSSR	8.00
69.	Dr. R. N. Salve (Sociology)	1.4.13 to 31.3.15	F.No. 5- 452/2013(HRP) dt. 19.3.13	Status of dalits in post-independence India	UGC	8.70
70.	Dr. S. S. Chavan (Chemistry)	21/8/2013 to 20/8/2017	No.SB/EMEQ/- 267/2013/ dtd.01-08-2013	Design synthesis and luminescence studies of novel hybrid complexes organometallic sites.	SERB	37.91
71.	Shri. R. C. Ranveer Dr. A. K. Sahoo (Food Sc. & Tech.)	11/10/2013 to 10/10/2016	SERB/MFPI/0033/20 13 dtd. 16.9.2013	Microencapsulation of anthocyanin pigment extracted from kokam procesing industry waste.	MFPI	33.48
72.	Dr. S. A. Salunkhe (Sociology)	1-4-2013 to 31-3-2015	F.No. 5-448/ 2013(HRP) dtd. 19-3- 2013	Water resource management Chikotra river basin (Maharashtra)	UGC	8.80

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	Dr. (Mrs.) A.U.	2014-2017	RGSTC/file-	Establishing of resource centre for	RGSTC	100.90
Ċ	Arvindekar		2013/DTP-114/CR-36	studies on Ayrvedic medicines in		
13.	Dr. P.M. Gurao		7-02-2014	treatment of Diabetes mellitus.		
	(Biochemistry)					
	Dr. S. R. Yadav	2013-2018	MoEF/BSI/GOI/F.No.	Lead Botanical Garden Phase-II	MoEF	99.11
74.	(Botany)		BSI-290/6/2013- Tech., dt. 29-11-2013			
	Dr. S. R. Yadav	2014-2019	RGSTC/File-	Conservation and Development of	RGSTC	99.99
75.	(Botany)		2007/DPP-054/CR-28	angiosperms of Western Ghats		
					Total	1345.44
Othei	* Projects: Professor Emeritus	/Young Scient	ists			
-	Dr. C. H. Bhosale	2013-2016	F.No. 18-1/2011	UGC-BSR Faculty Fellowship(UGC-	UGC	19.80
Τ.	(Physics)		(BSR)Dt18.04.2013	BFF)		
	Dr.A.V. Rao	2013-2016	F.No. 18-1/2011	UGC-BSR Faculty Fellowship(UGC-	UGC	19.80
2.	(Physics)		(BSR),	BFF)		
			Dt-21.05.2013			
ć	Dr. S. S. Chavan	31.12.08 to	SR/FT/CS-004/2008,	Synthesis of coordination-organometallic	DST	16.61
С	Chemistry	30.12.11	dt. 31-12.08	nonlinear optics.		
	Dr. N. A. Kamble	1-6-2012 to	SR/FT/LS-89/2010,	Risk assessment and management of		
4.	(Zoology)	30-6-2015	dtd. 09/05/2012	of Kolhapur,Sangli and Satara	DST	15.68
				district.		
	Dr. D. H. Dagade	9-7-2012 to 8-	SR/FT/CS-	Studies of molecular interactions		27.20
5.	(Chemistry)	7-2015	21/2011,dtd. 16/05/2012	aqueous bio-ionic liquids.	DST	

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6.	Mr. R. C. Ranveer (Food Sc. & Tech.)	6/7/2013 to 5/7/2016	SB/FTP/ETA- 360/2012 dtd.21-05-2013	Microencapsulation of lycopene extracted from tomato processing industry waste.	DST	21.68
7.	Dr. R. R. Kharade (Physics)	18-1-2014 to 17-1-2017	SB/FT/CS-92/2012, dt. 13.10.2013	Multicolour electrochromic nanostructure4d thin films for dynamic light control	DST	25.00
8.	Dr. Smt. P. S. Patil (Biotechnology)	29-7-2013 to 28-7-2016	SB/FT/LS-360/2012, dt. 3-7-2013	Commonly consumeed Western Ghats of minerals and antimicrobics.	SERB	20.80
9.	Dr. P. B. Mane (Physics)	31-7-2013 to 30-7-2016	SR/FTP/ES- 136/2012, dt. 10-7- 2013	To examine the association between using the twilight sounding method	SERB	23.90
					Total	197.97

3.2.4 Does the university have any projects sponsored by the industry/corporate houses? If yes, give details such as the name of the project, funding agency and grants received.

The University has nine projects sponsored by the industries/corporate houses. They are as under:

S r. N o	Name of the Investigators and Department	Year wise	Ref. No.	Name of the project	Name of the funding agency	Total grant sancti oned (Rs.in lakhs)
1.	Dr. D.K. Gaikwad, Hemangi Jambhekar and Snehal S. Joshi (Botany)	18.10 2010 to 17.10. 2012	VLEPL/ 2010- 11/021/ 4.6.201 0 extende d	Assessment of effect of herbal products of physiology of Soyabean and Onion.	Vasumitra Life Energies Pvt. Ltd., Pune	6.50 + 2.00
2.	Botany	2009- 2010	1/1/200 9	TransportationRoa d Sides	IRB Infrastructu re Developme nt, Mumbai	5.50
3.	Electronics	2010 onwar ds	-	VLSI Design Laboratory has received EDA tools as donation from Xilinx Inc., USA under the University Program	Xilinx Inc., USA	24.00 (in kind)
4.	Electronics	2010 onwar ds	-	Altera Inc. also donated EDA tools and the Kits of VLSI Design	Altera Inc.	40.00 (in kind)
5.	Technology	2010- 12 2012- 13 2012- 13	3 rd June, 2010 3 rd June, 2013 20 th sep. 2013	-Energy Conservation - Wind Energy, -Analysis of Mutton Pickle samples -Analysis of Salt Free Pickle	-S. D. Green Power, Kop. -Kolhapur Secrete Spices , -Dr. S. K. Jog, Kop.	1.29

6.	Food Science and Technology	2010-2014	- 07 June 2010 -20 Sep. 2013 -03 June 2013	Product quality standardization: canning process validation: Development of flavored soymilk: Analysis method for detection of milk adulteration. Analysis of mutton pickle samples : Analysis of salt free pickle	-Nina Foods, Kop. -Dr. S. K. Jog, Kop. -Kolhapur Secrete Spices ,	1.26
7.	Energy Technology	2011- 13	251210, dt. 6-12- 2010	Energy conservation/ energy audit, wind energy, solar PV designs, Solar street light & solar city	Malkapur Nagar Panchayat, Karad	1.77
8.	Economics	2013	Letter from SP, Kolhapu r	Dry land agriculture in Kolhapur district	Shramik Pratish- than	0.25
9.	Economics	2009- 2015	Letter from ISSC	History of co- operative agricultural credit	ISSC	0.50
			Tota	1	·	83.07

3.2.5 How many departments of the university have been recognized for their research activities by national/international agencies (UGC-SAP, CAS; Department with Potential for Excellence; DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthroughs achieved by this recognition.

Following Departments have been recognized for their research activities by national/international agencies.

Sr.	Departments	Scheme	Sanctioned
No.			lakhs)
1.	10	UGC-SAP/ASSIST	883.75
2.	08	DST-FIST	680.00
3.	17	DST-PURSE	900.00

4.	06	DBT-IPLS	501.00
5.	17	DST-SAIF	500.00
6.	01	DBT	101.59
7.	01	World Bank	1000.00
		Total	4,565.34

Following are the details of the above schemes.

a) UGC-SAP/ASSIST Recognized Departments: (10)

Ten Departments viz. Physics (DSA, ASSIST), Electronics, Economics, Sociology, Chemistry, Botany, Biochemistry, Zoology, Geography and English have been recognized under UGC Special Assistance Programme (SAP-DRS) with financial support of Rs. 883.75 lakhs.

	Name of the	Sanction Date	Duration	Total
Sr.	Department			sanctioned
No.				amount
				(Rs.in lakhs)
	Physics	UGC ASSIST	2005-2010	75.00
1.		No. F.2-1/2005		
		(ASIHSS/ASSIST)		
2.	Physics	UGC-DSA-Phase I	2011-2016	95.25
3.	Economics	UGC-DRS (SAP) Phase-III	2007-2012	30.50
1	Chemistry	No.F.540-15/DRS/2013 (SAP-	1.4.2013 to	75.00
4.		II) dt. 28/6/2013	31.3.2018	
5	Botany	No.F.3-1/2013(SAP-II)	1.4.2013 to	35.00
5.		dt. 1/3/2013	31.3.2018	
_	Electronics	No.F.3-28/2012(SAP-I)	1.4.2012 to	65.75
6.		dt.6.11.2012	31.3.2017	
	Zoology	No.F.3-10/2012(SAP-I)	1.4.2012 to	69.00
7.		dt.29.10.2012	31.3.2017	
	Geography	No.F.560/3/DRS/2012(SAP-I)	1.4.2012 to	70.00
8.		dt.27-11-2012	31.3.2017	
0	English	No.F.5-27/2011(SAP-III)	1.4.2011 to	20.00
9.		dt.23.8.2011	31.3.2016	
10	Physics	No.F.530/3/DRS/2010(SAP-I)	1.4.2010 to	95.25
10.		dt.26.10.2010	31.3.2015	
11	Sociology	No.F.5-73/2009(SAP-III)	1.4.2009 to	38.50
11.		dt.9.12.2009	31.3.2014	
10	Biochemistry	No.F.3-17/2009(SAP-I)	1.4.2009 to	32.00
12.		dt.31.3.2009	31.3.2014	
10	Economics	No.F.5-59/2007(SAP-III)	1.4.2007 to	30.50
13.		dt.5.3.2007	31.3.2012	

UGC SAP/DSA/ASSIST D	epartments.
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1 /	Chemistry	No.F.540/8/DRS/2007	1.4.2007 to	50.00
14.		(SAP-I) dt.22.2.2007	31.3.2012	
15.	Botany	SAP-I	2007-2012	50.00
16.	Statistics	UGC F.14-31/2013 (Inn/ASSIST) dt. 30.03.2013	2013-2018	52.00
		Total		883.75

b) DST-FIST Recognized Departments: (08)

An indicator of quality research is the grant-in-aid support received by various University Departments under different schemes of the apex funding bodies. There are eight Departments viz. Chemistry, Physics, Botany, Biochemistry, Mathematics, Statistics, Zoology and Geography recognized under the DST funding scheme Funding for Infrastructure in Science and Technology (FIST) with financial support of Rs. 680 lakhs.

Sr.	Name of the	Period	Letter No.	Amount
No.	department			sanctioned
				(Rs. in lakhs)
DST	-FIST Phase-I			
1	Botany	29/06/2004	SR/FST/LSI-150/2003	20.00
		To 28/06/2009	17/05/2004	
2	Biochemistry	25/07/2005	SR/FST/LSI-232/2004	32.00
		to24/07/2010	27/5/2005	
3	Mathematics	16/11/2005	SR/FST/MSI-040/2004	11.00
		to15/11/2010	27/9/2005	
4	Statistics	16/11/2005	SR/FST/MSI-045/2004	11.50
		to15/11/2010	27/09/2005	
5	Chemistry	29/04/2006	SR/FST/CSI-105/2005	38.00
		28/04/2011	2/3/2006	
6	Geography		SR/FIST/ESI/110/2011(C)/	
		2012-2016	Dtd. 28/02/2012	36.00
7	Zoology	30/5/2013 to	SR/FST/LSI/489/2011(C)/	25.00
		29/5/2018	dtd. 30.5.2013	
DST	-FIST Phase II			
8	Physics	6/6/2012 to	SR/FST/PSI/168/2011(C)/	284.00
		5/6/2017	dtd. 6.6.2012	201.00
9	Chemistry	14/5/2012 to	SR/FST/CSI/231(C)/2011/	175.00
		13/5/2017	dtd. 14.5.2012	175.00
10	Botany	21/12/2012 to	SR/FST/LSI/511/2011(C)/	47 50
		20/12/2017	dtd.21-12-12	т7.50
			Total	680.00

DST-FIST Recognized Departments

c) DST-PURSE

The University is recognized by Department of Science and Technology under its PURSE Programme for the period 2011-2014 on the basis of 'h' index of the University to conduct inter-departmental research in science with financial support of Rs. 900 lakhs.

d) DBT-IPLS

Department of Biotechnology, Government of India, New Delhi has supported the University under its "DBT/IPLS Programme Interdisciplinary Programme for the life Sciences (Biotechnology, Biochemistry, Microbiology, Botany, Zoology and Environmental Science) for advanced research and Education" during 2012-2017. It is the first centre in Maharashtra with financial support of Rs. 501 lakhs.

e) DST-SAIF

The University is recognized by Department of Science and Technology under its SAIF Programme on the basis of research carried out in the University for Sophisticated Instrumentation with financial support of Rs. 500 lakhs.

f) DBT Recognized Department

Department of Biochemistry is recognized by Department of Biotechnology, Government of India, New Delhi for the Course M. Sc. in Environmental Biotechnology. Grant received for the period 2009-2014 was Rs. 101.59 lakhs.

g) World Bank Funding:

Department of Technology has received substantial grant under TEQIP Phase-II for developing infrastructural facilities for research from World Bank for the period 2012-2015. (Sanctioned grant Rs. 1000 lakhs)

Total of (a) to (g) above is Rs. 4,567.75 lakhs.

Significant outcomes

- Department of Physics is recognized for the research in 'Material Science' with 20th rank in India and 3rd in publishing research in 'Solar Energy'
- Research ranking of the University at 25^{th} place on the basis of "*h*"-index of 46 and 3,707 research papers published in reputed peer reviewed journals.

List details of research projects completed and grants received during the last four years (funded by National/International agencies) 3.2.6

	Total grant received (Rs. in lakh)		<i>L</i> .0	1.0	0.92	06.0	69.0	1.00
	Name of the funding agency		UGC	UGC	UGC	UGC	NGC	UGC
	Name of the project	Minor Projects	Literature and Environment: Perspectives on Studies in Eco-criticism in India.	The Theme of Law, Order, Crime and Punishment in Continental Fiction.	Impact of Mother Tongue (Marathi) in Second Language Shivaji University Area.	The Concept of Tradition in F. R. Leavis A Comparative Study.	Silt excavation activities for brick kilns and its impact on Panchganga river of Kolhapur district	Studies on <i>in vitro</i> development of phytochemistry of <i>Ophiglossum</i> .
	Ref. Number	l (i	F.6- 25.2006(HRP, dt. 15-1-2007	F.No. 6- 55/2007(HRP), March, 2008	5-56/2006 (HRP)	F.No. 5063/2007(HRP), 2008	33-424/ 2007 (SR), dt.15-4-2008	3-457/2007 (SR), dt. 28.2.2008
)	Year wise		60-2002	2008-10	2008-10	2008-10	1.4.2008 to 30.3.2008	1.4.08 to 31.3.10
	Name of the Investigators and Department		Dr. M. L. Jadhav (English)	Dr. P. B. Mane (English)	Dr. A.M. Sarwade (English)	Dr. (Smt.) R. G. Barvekar, (English)	Dr. J. B. Sapkale (Geography)	Dr. N. B. Gaikwad (Botany)
	Sr. No		1.	2.	3.	4.	5.	6.

Dr. S. S. Kolekar (Chemistry)	2010-2011	F. No. 47- 1536/10(WRO), dt. 18-10-2010	Solvent extraction and: Analysis of real samples	NGC	0.79
 Dr. S. S. Kolekar Chemistry	2010-2011	F.47/1349/10(W RO), dt. 22-10- 2010	Synthesis of silver its biological applications	NGC	1.30
Dr. A. M. Sarawade (English)	1.12.2011 to 31.7.2012	6-88/ 2012 (HRP), dt. 4.3.2011	Communicative Competence: A Case Study of Post- graduate students of Shivaji University	UGC	1.10
Centre for Distance Education.	2009-2013	SU/CDE/1037/46 01 07-11-2009	44 related projects for preparation self instructional material	DEC, DEB- UGC, IGNOU	4.87
				Total	13.27
 ijor Projects					
Prof. S. R. Yadav (Botany)	03/07/2006 to 02/07/2009	BT/PR285/BCE/ 08/350/2004 27/1/2005	Rhizosphere microbial diversity ofdegraded habitals.	DBT	24.93
Dr. (Smt.) P. A. Patil (History)	01/07/2006 to 30/06/2009	F.5-106/2005 (HRP) 31/5/2006	Contesting for space: caste hegemony and non- brahminA study of sources.	UGC	4.64
Dr. K. C. Ramotra (Geography)	1.5.2006 to 30.4.2009	31-202/2005 (SR) Dt. 24/9/2008	Status of tribal well being in north western part of Maharashtra : a geographical analysis	NGC	5.47

			10/1/2007	31/03/2010		
6.37	UGC	Socio-economic conditions of fishing	F.5-203/ 2006 (HRP),	01/04/2007 to	Dr. P. A. Koli (Economics)	=
5.54	NGC	Evaluation of protection and Maharashtra State.	F.No.5-247/ 2006(HRP) 1/2007.	01/04/2007 to 31/03/2010	Dr. R. B. Nayak (Law)	10.
6.89	ICMR	Protective effect of <i>Bacopamonniera</i> Linn. extracts brain during ageing.	No.60/8/99/BMS / TRM 14/12/2006	15/12/2006 to 14/12/2009	Dr. M. M. Pillai (Zoology)	9.
7.64	DST	Development of FPGA based microcontroller design.	SR/FTP/ETA- 14/2006.	17/11/2006 to 16/11/ 2009	Dr. R. K. Kamat (Electronics)	8.
90.6	DST	Soft electrochemical processing superconducting films.	21(0658)/6/EMR -II 2/11/2006	01/11/2006 to 31/10/ 2009	Prof. S. H. Pawar (Physics)	7.
8.05	NGC	Analysis of designed non-normal response variable.	SR/S4/MS/306/0 5 25/07/2006	11/09/2006 To 10/09/2009	Dr. H. V. Kulkarni (Statistics)	6.
34.44	DBT	Recovery of two critically endangered plantbiotechnological tools.	BT/PR-7059/ BCE / 08/441/ 2006 13/7/2006	13/07/2006 to 12/07/2011	Prof. S. R. Yadav (Botany)	5.
8.79	UGC	Land degradation, land conservation and improvement in Panchaganga basin (Maharashtra) : a geo-ecological analysis	F.31- 201/2005(SR) 31/3/2006	2006-2009	Dr. C. T. Pawar (Geography)	4.

	Prof. R. G. Dandge,	01/04/	5-213/2006	Unstable agriculture and Maharashtra State.		3.86
12.	(Economics)	2007 to 31/03/ 2010	(HRP) 12/01/2007		UGC	
, ,	Dr. B. R. Sankapal,	05/05/2007	Dtd. 12/3/2007	Studies and development Film Solar cells."	Ę	12.42
13.	(Physics)	10 04/05/2010			USI	
	Dr. G. B. Kolekar	01/04/2007	F.No.32-	A novel fluorescence studies on energy transfer		5.29
14	(Chemistry)	То	263/2006(SR)	its analytical application.	UUU	
-		31/03/2010	24/03/2007			
	Prof. P. P. Hankare	01/04/2007	F.No.32-289/	Synthesis and studies of catalytic properties of		8.95
15.	(Chemistry)	To	2006 (SR)	mixed-metal Oxides.	UGC	
		31/03/2010	28/03/2007			
	Dr. S. S. Kolekar	01/04/2007	F.No.32-	A new process for extraction and		7.53
16.	(Chemistry)	To 31/03/	252/2006(SR)	2-octylamino-pyridine.	UGC	
		2010	28/03/2007			
	Dr. S. P. Govindwar	01/04/2007	F.No. 32- 597/	Decolorization of textile dyes using		7.93
17.	(Biochemistry)	То	2006	AspergillusOchraceus.	UGC	
		31/03/2010	dtd.4-5-2007			
	Prof. S. P. Govindwar	05/07/2007	SR/SO/BB-	Biodegradation ofusing		19.64
18	(Biochemistry)	То	21/2007	Brevibacillus lateros porus.	DCT	
10.		04/07/	23/4/2007		107	
		2010				
	Prof. R. N. Rattihalli	03/08/2007	SR/S4/MS-	Non-parametric inference distributions.		9.24
19.	(Statistics)	То	373/06		DST	
		02/08/2010	07/06/2007			

	D V. V. Cl J.		5 122/2007	T-11-7		0 10
0	Dr. V. K. Sninde	01/04/200/	0007/271-0	FOIK GOO ANANGOOD AND A DETIOTING TOIK AT		0.40
20.	(Marathi)	To	(HRP)	vaghyamuralı.	UGC	
		31/03/2010	12/06/2007			
	Dr. G. S. Gokavi	08/08/2007	SR/S1/PC-	Organic inorganic hybrid polymercatalytic		16.62
21.	(Chemistry)	To	31/2006	reactions.	DST	
		07/08/2010	13/6/2007			
	Dr. A. V. Rao	19/07/2007	2007/37/18/BRN	Development of superhydrophobic		15.08
22.	(Physics)	to	S/604 27/6/2007	compounds.	BRNS	
		18/07/2010				
	Dr. S. H. Pawar	08/08/2007	SR/S2/CMP-	Soft electrochemical processing of MnAs		22.80
23.	(Physics)	То	0050/2006	magnetic refrigeration.	DST	
		07/08/2010	28/6/2007			
	Dr. A. V. Rao	24/08/2007	SR/S2/CMP-	Development of Law cost sodium silicate based		20.42
24	(Physics)	То	67/2006	aerogels applications.	DST	
: 1		23/08/2010	04/07/2007		2	
	Dr. (Smt.) L. D. Jadhav	18/09/2007	CSR/Acctts/2007	Investigations on structural and solid oxide fuel		Transferr
ų C	(Physics)	To	-08/564	cell.	and	ed to
-C7		17/09/2010	20/8/2007		VICO	Other
						College
90	Dr. M.D. Uplane	1/4/2008 to	33-3991/2007	Development of H2S Gas Sensors systems.	JJ11	9.51
70.	(Electronics)	31/3/2011	(SR) 1/7/2010			
	Dr.(Smt.) Y. S. Powar	1/4/2008 to	33-109/ 2007	Study of Fuzzy and their Application		6.24
27.	(Mathematics)	31/3/2011	(SR) 28/2/2008		UGC	
	Prof. S.P. Govindwar	2008-2011	BT/PR-10094/	Biodegradation of textileusing		51.66
28.	Prof.(Smt.) J.P. Jadhav		BCE/08/599/	GalactomycesgeotrichumMTCC 1360 and consortia	DBT	
	(Biochemistry)		2007dt.27.8.2007	with Brevibacilluslaterosporus.		

					~	
8.47	UGC	Kandoba and Performing folkarts : Vaghyamurali	5-123/2006 (HRP)	2009 -11	Dr. V. K. Shinde (Marathi)	37.
4.38	UGC	Minority educational institutions in Maharashtra : A critical analysis	F.5-65(1)/2009 (HRP)	2009-2011	Dr. Jagan Karade (Sociology)	36.
4.81	NGC	A sociological study of roles environmental groups/ NGOs in South Western Maharashtra	5-352/2007 (HRP) Dt. 15/3/2008	1/4/2008 to 31/3/2011	Dr. S. A. Salunkhe (Sociology)	35.
6.48	NGC	Ashden awardees for sustainable energy in India : a sociological study of organizations and beneficiaries	5-61(2)/2008 (HRP) Dt. 31/12/2008	1/2/2009 to 31/1/2011	Dr. R. B. Patil (Sociology)	34.
24.92	DRDO	Development of polymer based supercapacitors	ARMREB/ASA/ 2008/101 dtd. 17- 10-2008	2009-2011	Dr. C. D. Lokhande (Physics)	33.
16.70	DST	Development of cadmium sulphide-polyaniline heterojunction based room temperature LPG sensor	SR/52/(MP- 82/2006 Dt. 26/12/2007	26/12/2007 to 25/12/2010	Dr. C. D. Lokhande (Physics)	32.
28.34	BRNS- DAE	Development of polymer solar cells based on nanostructured TiO2	2008/37/8/BRNS /489 Dt. 9/9/2008	9/9/2008 to 8/9/2011	Dr. P. S. Patil (Physics)	31.
13.29	DRDO	Studies on synthesis and characterization of large area transparent conductive oxide thin films	ERIP/ER/050350 4/M/01/1007/ Dt. 30/10/2007	30/10/2007 to 29/10/2011	Dr. K. Y. Rajapure (Physics)	30.
18.30	DST	Molecular modeling study of hypermodified nucleoside lysidine rec`ognition	No. SR/FT/ LS- 028/2007 dtd.29- 11-2007	2008-2011	Dr. K. D. Sonawane (Biochemistry)	29.

38.	Dr. Rajan Gavas (Marathi)	2009-11	5-61(1)/2008 (HRP) dtd. 13-1- 2009	Research thrust area : Folklore & Linguistics	UGC	5.97
39.	Dr. P. S. Patil (Physics)	1/5/2009 to 30/4/2012	36-211/2008(SR)	Layer-by-layer deposition of multicolored smart window application	UGC	11.63
40.	Dr. P. S. Patil (Physics)	2009-2012	2009/37/28/BRN S/2007 dtd. 23- 10-2009	Investigation on NiO-GDC/ GDC structures for the development of intermediate temperature SOFC	BRNS- DAE	13.66
41.	Dr. V. J. Fulari (Physics)	1/5/2009 to 31/4/2012	36-209/2008(SR) Dt. 26/3/2009	Studies on effect of electron irradiation on electrodeposited silver chalcogenide thin films by holographic interferometer	UGC	6.10
42.	Dr. C. D. Lokhande (Physics)	2009-2012	36-207/2008 (SR)	Studies on chemically deposited superhydrophilic nanocrystaline titanium dioxide (TiO ₂) films for dye sensitized solar cells	UGC	9.00
43.	Dr. C. D. Lokhande (Physics)	26/4/2010 to 25/4/2013	03 (1165)/10 EMR-II Dt. 26/4/2010	Simultaneous studies on electrochemical super- capacitive and electro-chromic properties of chemically synthesized cobalt oxide thin films	CSIR	20.92
44.	Dr. T.V. Sathe (Zoology)	26-4-2010 to 25-4- 2013	BT/PR/9962/GR/ 05/396/2007/ dtd.15-6-09	Mass rearing of dragonflies of mosquitoes in Kolhapur district.	DBT	11.80
45.	Dr. U. V. Desai (Chemistry)	1/2/2009 to 31/1/2012	34-362/ 2008 (SR)Dt.31/2/08	Studies in the development of greener synthetic methodologies	UGC	9.17
46.	Dr. D. M. Pore (Chemistry)	2009-2012	F.No. 33- 260/2007(SR), dt. 5-7-2012	Developments of newer synthetic bases as catalysts.	UGC	6.78

47.	Prof. G. S. Gokavi (Chemistry)	8/8/200/ to 7/8/2010	SR/51/PC/31/ 2008/ Dt. 13/6/2007	Organic-inorganic hybrid polymeric Coupled Catalytic Reactions.	DST	16.62
48.	Dr. R. S. Shinde (Marathi)	2009-2011	5-61(1)/2008 (HRP)	Stylistics study of B. S. Mardhekars Poetry and its Influence of new Marathi Poetry	UGC	5.36
49.	Prof. P. N. Vasambekar (Electronics)	1/5/2009 to 30/4/2012	36-212/2008 (SR)	Preparation and Characterization of Soft Ferrites for Electrical Switching Devices	UGC	8.90
50.	Prof. S.P. Govindwar (Biochemistry)	2010-2011	F.4- 10/2010(BSR) 1/12/2010	One time grant to intensify research in his area.	NGC	7.00
51.	Prof. C. D. Lokhande (Physics)	2010-2011	F.4- 10/2010(BSR) 1/12/2010	One time grant to intensify research in his area.	UGC	7.00
52.	Dr. (Smt.) N. R. Sapre (Education)	1/2/2010 to 31/1/2012	F.5-318(4) /2009/ HRP dtd.7-1- 2010	Development of computer multi-media for enabling teacher educators and student-teachers for constructivist classroom	UGC	5.80
53.	Dr.(Smt.) P. S. Patankar, (Education)	01/04/2009 to 31/03/2012	F.S.No. 318 (2009)/(HRP), dated 7/1/2010	Development of interactiveof teacher education.	UGC	4.61
57	Prof. M. B. Deshmukh (Chemistry)	2010-2013	BT/PR/9456/BC E/08/572/ 207 dtd. 10-01-10	Synthesis and applications of some new macromolecules.	DST	11.94
58	Dr. G. S. Gokavi Chemistry	01/02/2010 to 31/01/2013	F. No.39- 309/2010 (SR) 27/12/2010	Synthesis and application ofin fuel cells	UGC	6.66

60	Dr. A. S. Chousalkar (Political Science)	2010-2011	5-318(2)2009 (HRP)	Pre Kautilyan Arthashastra tradition in India	UGC	8.84
61	Dr.(Smt.) B. T. Patil (Political Science)	2010-2011	5-318/(4) 2009 (HRP) 07/01/2010	Genesis development of Indian feminism with special reference to Gandhian feminism	NGC	7.68
62	Dr. (Smt.) N. R. Sapre (Education)	01/2/2010 to 31/1/2012	5-318/(4) 2009 (HRP) 07/01/2010	Development ofconstructivist class room.	DDC	5.80
63	Dr.(Smt.) N. D. Pawar Journalism & Comm.Science	01/2/2010 to 31/1/2012	5-318/(1)2009 (HRP) 07/01/2010	Women's employment inchange and challenges.	UGC	6.29
64	Dr. S. S. Mahajan (Comm. and Mgt.)	01/02/2010 to 31/01/2012	5-318/(7) 2009 (HRP) 07/01/2010	A Role of Stateto Western Maharashtra	DDC	4.48
65	Dr. T. V. Sathe (Zoology)	01/02/2010 to 31/01/ 2013	371/2009(MS)(S R) dt. 11/01/2010	Ecobiology of ichaneumonidincluding Ghats	NGC	7.22
66	Dr. K. M. Garadkar (Chemistry)	01/02/2010 to 31/01/2013	371/2009(MS)(S R) dtd. 11/01/2010	Synthesis of dopedpesticide degradation.	DDU	7.64
67	Prof. V. B. Jugale (Economics)	01/02/2010 to 31/01/2012	5(3)18/2009(HR P) 12/01/2010	Irrigation water pricing in Kolhapur District.	NGC	4.80
69	Dr. P. S. Kamble (Economics)	2008-2010	F.No. 152/2007/ HRP dtd.1/3/2008	Environmental damage Maharashtra	NGC	7.08

CSIR	Development of superiorionic liquid.	03(1246)/12/EM R-II.	2011-2013	Dr. S. S. Kolekar (Chemistrv)	78
UGC	transformations	96/2011(SR), dt. 5-7-2011		(Chemistry)	77
	Synthesis and applications of organic	F.40-	2011-2012	Dr. G. S. Rashinkar	
			31/01/2013		
UGC	students of Russian.	P) dt. 31/03/2011	to	(Foreign Languages)	76
	Use of multimedia and textual means in teaching	F.5587/2010(HR	01/02/2011	Dr. (Smt.) M. A. Pansare	_
		04/03/2011	31/01/2013	(English)	
UGC	Marathi and Indian English	494/2010(HRP)	to	Karekatti	75
	Exploring Indian Masculinities : Drama in	F.5-	01/02/2011	Dr. (Smt.) T. K.	
		2014			
MFPI		dtd.13-12-10	12/12/2012		74
	leafy vegetables.	&D/2010	to	(Food Sc. & Tech.)	_
	Development of healthy and nutrient rich and	F.No.15/MFPI/R	13/12/2010	Dr. A. K. Sahoo	
	,	dtd.11-06-10	10/6/2013		_
MOEF	Maharashtra reg.	20/2009-WL-I	to	(Environmental Sci.)	73
	GIS based studies on Radhanagri WLS	F.No.15-	11/6/2010	Dr.P.D. Raut,	
		10 dt.31-03-10	30/3/2012		_
AICTE	electrochemical deposition.	RPS-165/ 2009-	То	(Physics)	72
	Development and performance by	8023/BOR/RID/	31/3/2010	Prof.C.D. Lokhande	
		12/01/2010	31/01/2012		_
UGC		(HRP)	to	(Political Science)	71
	Political thought ofarthashastra tradition.	5 -318/2009	01/02/2010	Dr. A. S. Chousalkar	
			31/01/2012		_
UGC	feminism.	12/01/2010	to	(Political Science)	70
	Genesis & development ofto Gandhian	5318/2009(HRP)	01/02/2010	Dr. B. T. Patil	
	UGC UGC MFPI UGC UGC UGC CSIR	Genesis & development ofto Gandhian UGC Political thought ofarthashastra tradition. UGC Political thought ofarthashastra tradition. UGC Development and performance by AICTE Development and performance by MGF Development and performance by MCF Development and performance by MCF GIS based studies onRadhanagri WLS MOEF Maharashtra reg. MOEF Development of healthy and nutrient rich and MFPI Development of healthy and nutrient rich and UGC Use of multimedia and textual means in teaching UGC Use of multimedia and textual means in teaching UGC Synthesis and applications of	5318/2009(HRP) Genesis & development ofto Gandhian UGC 12/01/2010 feminism. UGC 5-318/2009 Political thought ofarthashastra tradition. UGC 5-318/2009 Political thought ofarthashastra tradition. UGC 12/01/2010 Bevelopment and performance by MCF 8023/BOR/RID/ Development and performance by AICTE 8023/BOR/RID/ Development and performance by MCF 8023/BOR/RID/ Development and performance by AICTE 8023/BOR/RID/ Development of healthy and nutrient rich and MOEF 64d.11-06-10 F.No.15/FIR Development of healthy and nutrient rich and MCC 202009-WL-1 Maharashtra reg. MOEF MOEF 64d.11-06-10 E.No.15/MFP/R Development of healthy and nutrient rich and MCC 202009-WL-1 Maharashtra reg. MOEF MOE 64d.11-06-10 E.No.15/MFP/R Development of healthy and nutrient rich and MCC 2014 E.No.15/MFP/R Development of healthy and nutrient rich and MCC 2014 E.55 MANDE E.5 </td <td>01/02/2010 5318/2009(HRP) Genesis & development ofto Gandhian UGC 11/01/2012 12/01/2010 5-318/2009 Political thought ofarthashastra tradition. UGC 01/02/2010 5-318/2009 Political thought ofarthashastra tradition. UGC 01/02/2012 12/01/2010 5-318/2009 Political thought of</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td>	01/02/2010 5318/2009(HRP) Genesis & development ofto Gandhian UGC 11/01/2012 12/01/2010 5-318/2009 Political thought ofarthashastra tradition. UGC 01/02/2010 5-318/2009 Political thought ofarthashastra tradition. UGC 01/02/2012 12/01/2010 5-318/2009 Political thought of	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $

0111-2013 F No. 41- Extraction senaration high molecular weight 10.46	241/2012(SR), amines. UGC UGC dt. 13-7-2012	2011-12 - Dictionary of Dalit and Gramin Literatures Govt. of 8.36 Maha- Maha- rashtra	2011-13F.5-Exploring Indian Masculinities: Complexities of 494/2010(HRP)6.29A94/2010(HRP)Male Marathi and Indian EnglishUGC,	1-2-2011F.5-Use of multimedia and textual means Russia to6.210 31-1-587/2010(HRP),Marathi speaking students of RussiaUGC0.13dt. 31-3-2011UGC	1/7/2012 toF.41-43/2012Bioeficacy of differentand sopdopteralitura.8.9130/6/2015(SR),dtd.UGC11/07/201211/07/2012	10/07/200721(0682)/07/EMBiotechnological approaches for fruit tree8.41toR-2improvements.CSIR9/07/201014/5/20078.41	19/07/Sr/wos-a/ps-04/Synthesis of electrochromic thin films by spray4.0820072006pyrolysis and pulsed laser deposition techniques.4.08to15/5/2007DSTDST18/07/20092009DST
	F.No. 41- Ext 241/2012(SR), amii dt. 13-7-2012	- Dict	F.5- Exp 494/2010(HRP) Mal	F.5- Use 587/2010(HRP), Mar dt. 31-3-2011	F.41-43/2012 Bioe (SR),dtd. 11/07/2012	21(0682)/07/EM Biot R-2 impi 14/5/2007	Sr/wos-a/ps-04/ Syni 2006 pyrc 15/5/2007
	2011-2013	2011-12	2011-13	1-2-2011 to 31-1- 2013	1/7/2012 to 30/6/2015	10/07/2007 to 09/07/2010	19/07/ 2007 to 18/07/ 2009
	Dr. M. A. Anuse (Chemistry)	Dr. K. R. Kirawale (Marathi)	Dr. (Smt.) T. K. Karekatti (English)	Dr. M. A. Pansare (Foreign Languages)	Dr. S. R. Yankanchi (Zoology)	Dr. V. A. Bapat (Botany)	Mrs. S. R. Bathe (Physics)
	79	80	81	82	83	84	85

86	Dr. S.R. Yadav, Dr. (Smt.) M. M. Dongare & Dr. R. V. Gurav (Rotanv)	2008-2012	F.10/60/06- CS/BG 2-9-2008	Recognition of Lead Garden	MoEF	50.82
	(frimore)				Total	917.52
a. (i	Inter-institutional collabo All India collaboration	orative proje	ects and grants re	ceived		
Sr. No	Name of the Investigators and Department	Year wise	Number	Name of the project	Name of the funding agency	Total grant receive d (Rs. in lakh)
1.	Dr P. P. Hankare Dr. K. M. Garadkar (Chemistry) Dr. S. Shashikala, (BARC)	2009-2012	2009/37/41/BR NS/1570, dt. 19- 10-2011	Synthesis and Characterization of some Nano- crystalline Mixed Metal Photocatalytic Performance	DAE – BRNS	17.87
5	Dr. S. S. Kolekar Chemistry Dr. P. C. Varma, (BARC)	23/3/2009 to 22/3/2012	2008/36/83/- BRNS/4009/ Dt.23/3/2009	Base Line Radioactivity in Environment Jiatapur Nuclear Power Plant	DAE – BRNS	35.70
	Dr. P. S. Patil (Physics) Dr. P. N. Bhosale (Chemistry) Dr. C. A. Betty (BARC)	2008-2011	2008/37/BRNS/ 779, dtd. 9-9- 2008	Development of polymer solar cells based on nanostructured TiO ₂	DAE – BRNS	34.01

50.82

	Dr. A. V. Rao		2007/37/18/BR	Development of super hydrophobic Aerogels and	DAE-	
4.	(Physics)	2007-2011	NS/604dtd	coatings based on Organosilane Compound	BRNS	15.08
	Dr. R. J. Gupta (BARC)		27/06/2007			
	Dr. S. R. Yadav			Recovery of two critically endangered plant species	DBT	45.00
	Dr. R. V. Gurav			Hubbardia heptaneuron and Ceropegia of Western		
	(Botany)	13-7-2006	DBT/BT/PR-	Ghats through the application of biotechnological		
5.	Dr. G. Ravikant	to	7059/BCE/08/4	tools.		
	(ATREE, Bangalore)	12-3-2012	41/2006			
	Mr. G. S. Naik					
	(ACF, Pune)					
	Dr. S. R. Yadav	25/11/2008	BT/PR/9117/BC	Genetic improvement and revovery species in	DBT	15.40
	(Botany)	to	E/08 541/2007	Western Ghats		
	Dr. D. Pokle,	24/11/2012	Dt 24/09/2008			
	Dr. A. S. Dhabe,					
	(BAMU,A'bad)					
o.	Smt. G. T. Chavan (Dy.					
	Conservator, Forest,					
	Kolhapur)					
	Dr. G. B. Umalkar, Ankur					
	Seeds, Nagpur					
	Dr. D. K. Gaikwad	2009-2012	JLSJA	Inventorization of medicinal plants from Satara,	RGSTC	35.00
Г	(Botany)			Sangli and Kolhapur District.		
. '	Dr. Smt. V. S. Ghate,		MUA/6002/02/6			
	ARI, Pune.		6007/00/71 700/			
	Dr. A.V. Rao	2009-2012	2008/31/47/BR	Development of Large Size Hydrophobic	DAE-	31.88
0	(Physics)		NS/2502/28/1/	Aerogels Using Two Stage Process	BRNS	
o	Dr. P. B. Wagh		2009			
	(BARC)					

	Dr. G. B. Kolekar	2010-2013	No.	Synthesis, Characterization and Fluorescence study	DAE-	22.14
6	(Chemistry)		2011/37/C/01/B	of Metal nanoparticles.	BRNS	
	Dr. V.		RNS/0081, dt.			
	Sudarshan, (BARC)		13-4-2011			
10.	Dr S. R. Yadav,	2010-2015	BT/PR-	Recovery of RET Species of Ceropegia from	DBT	93.55
	(Botany)		9456/DCE/08/5	Western Ghats		
	Dr. V. S. Ghate, ARI,		72/2007, dt. 18-			
	Pune. Shri A. K. Joshi,		1-2010			
	Chief Conservator of					
	Forest, Nagpur.					
11	Dr. S. R. Yadav	2008-2009	NAIP/C4/C-	Biosystematics of the genera Vigna, Cucumis and	NAIP	64.55
	(Botany)		2070 / 2008-	Abelmoschus		
	Dr. K. V. Bhat, Dr. I. S.		2009, dt. 7-7-			
	Bisht, NBPGR, New		2008			
	Delhi.					
	Dr. M. Nath, Dr. K.					
	Joseph, NBPGR,					
	Thrissur.					
	Dr. K. N. Negi, NBPGR,					
	Nainital,					
	Dr. Gopalkrishnan,					
	NBPGR, Jodhpur,					
	Dr. S. Ramarao, NEHU,					
	Shilong					
					Total	410.18

f Total grant ng received (Rs.in lakhs)	K 6.92	S 5.46	17.37	2.50
Name of the fundin agency	DST-ROI	DST-JSP	DST- AISRM	DST
Name of the project	Fabrication and evaluation of solution grown and pulsed laser deposited Cu ₂ ZnSnS ₄ films based solar cells	Ultra fast solar hydrogen production using gas phase photo catalysis based on core-shell semiconductor nanostructures.	Hybrid organometallic – coordination – complex material for non-linear optics.	Studies on metal sulphides for solar cells
Ref. Number	DST/INT/ROK/PR OJ-34/08 dtd. 26/03/2008	DST/INT/JSPS/P- 155/ 2013 dtd. 07/06/2013 Kyoto University, Japan	Australia – India strategic research fund (AISRM) (Ref. No. DST/ INT /AUS/P- 40/2011 dtd. 03/10/2011)	C.V. Raman International Fellowship for African Researchers
Year wise	2008-2011	July 2013- July 2015	2012-2015	2011
Name of the Investigators and Department	Dr. C. D. Lokhande (Physics) Prof. J. H. Kim (South Korea)	Dr. S. B. Sadale (Technology)	Dr. S. S. Chavan (Chemistry)	Dr. C. D. Lokhande (Physics) Dr. Fabian (Nigeria)
Sr. No		6	с.	4.

Т

Τ

Collaborations:	
International	

ii)

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2.50	98.75
DST	
Studies on natural materials and a pharmaceutical applications	
C.V. Raman International Fellow-ship for African Researchers	Total :
2012	
Dr. C. D. Lokhande (Physics) Dr. Petra (Nigeria)	
5.	

Total number of research projects completed during assessment period: 155, Total grants received: Rs. 930.79 lakhs.

- **3.3** Research Facilities
- **3.3.1** What efforts have been made by the university to improve its infrastructure requirements to facilitate research/ what strategies have been evolved to meet the needs of researchers in emerging disciplines?

The university has promoted research by developing the infrastructural requirements in the emerging disciplines such as Nanotechnology, Biotechnology, Chemistry, Life sciences, Languages, Music and Dramatics, and Mass Media. The facilities are created from the grants under DST-PURSE, DBT-IPLS, UGC and DST-SAIF received on the basis of research standards. The required research infrastructure has been created by way of collaborative and individual research projects. The University has developed the infrastructural facilities by purchasing the instruments such as –

- 1. X-ray Powder Diffractometer
- 3. Thermal conductivity meter
- 5. UV-VIS Spectrophotometers
- 7. Surface Profiler
- 9. Spectrofluorometer (PL)
- 11. Atomic Force Microscope (AFM)
- 13. FT- Raman Spectrometer
- 15. DNA Sequencer
- 17. LC-QTOF
- 19. TOC Analyzer
- 21. HPTLC
- 23. E-View
- 25. HPLC

- 2. Contact Angle Meter
- 4. Solar Simulator
- 6. Electrochemical quartz crystal microbalance (EQCM)
- 8. Electrochemical Impedance Spectrometer workstation
- 10. Precision LCR meter
- 12. Scanning Electron Microscope (SEM)
- 14. FESEM (costing Rs. 1.5 crores)
- 16. RT-PCR
- 18. Solar cell testing device
- 20. SPR Spectrometer
- 22. Software's SPSS
- 24 Systat

The University has added significantly to its infrastructural facilities by purchasing sophisticated instruments as mentioned above. In addition to that, other facilities have been to set up a (1) Theatre and studio (2) Academic Resource Centre (3) Writing Laboratories (4) Free Access to e-Journals, (5) Space Research Centre at Panhala and (6) Marine Centre at Malvan, Dist. Sindhudurg. It is hoped that the needs of the students undertaking research in emerging areas will be made by this addition.

3.3.2. Does the university have an Information Resource Centre to cater to the needs of researchers? If yes, provide details of the facility.

Yes, the University has set up Data Centre which caters to the needs of the researchers. Availing themselves of the facility the scholars from the Department of Biotechnology have published their research findings in reputed international journals. I.T. services are extensively used by 1700+

users on the campus. Moreover, the University is probably the first in India to complete the campus networking project under NME-ICT.

3.3.3 Does the university have a University Science Instrumentation Centre (USIC)? If yes, have the facilities been made available to research scholars? What is the funding allotted to USIC?

Yes, the University has set up USIC with facilities such as powder XRD, GCMS, AAS, FT-IR. The facilities at the Centre are made available to the students. The budget allocation for USIC during the assessment period is as under:

Sr. No.	Year	Budget allotted for USIC
		Dept.(Rs.)
1.	2009-10	4,68,000
2.	2010-11	5,89,000
3.	2011-12	3,14,500
4.	2012-13	4,27,500
5.	2013-14	9,52,500
	Total	27,51,500

3.3.4 Does the university provide residential facilities (with computer and internet facilities) for research scholars, post-doctoral fellows, research associates, summer fellows of various academies and visiting scientists (national/international)?

Yes, the research scholars are accommodated at various places like residential quarters, guest house and hostels. Facilities of computer and internet are made available at work places.

3.3.5 Does the university have a specialized research centre/work station on the campus to address the special challenges of research programmes?

The University has provided specialized work stations in the Departments funded under various central research schemes such as SAP, FIST, ASIST and IPLS. In addition, there are six specialized research centres on the University campus. There are three specialized research laboratories for material science, biodiversity of medicinal plants and decolorization of textile dye effluents. All these take care of the special challenges of research programmes.

3.3.6 Does the university have the centers of national and international recognition/repute? Give a brief description how these facilities are made use of by researchers from other laboratories.

Yes, the University has centres of national and international repute.

National:

- 1. Chh. Shahu Maharaj Centre for Studies of Maratha History.
- 2. Shahu Research Centre.
- 3. V. S. Khandekar (Dnyanpeeth Awardee) Museum.
- 4. Archival Cell.

International:

Some of our laboratories are used by researchers from abroad in connection with their research programmes. The Physics labs (Material Sciences) are especially known to welcome these scientists.

3.4 Research Publications and Awards

3.4.1 Does the university publish any research journal (s)? If yes, indicate the composition of the editorial board, editorial policies and state whether it/they is/are listed in any international database.

Yes, the University publishes two journals one in Science and the other in Humanities and Social Sciences with its ISSN No. 0250-5347 and 0368-4199 respectively.

Composition of the Editorial Boards for both the Journals is as follows:

- 1) Hon'ble Vice-Chancellor Chairman
- 2) Managing Editor (01)
- 3) Assistant Managing Editor (01)
- 4) Other Members (11) drawn from various departments.

3.4.2 Give details of publications by the faculty:

- Number of papers published in peer reviewed journals (national/international) : 3707
 Monographs : 26
 Chapters in Books : 256
 Books edited : 63
- Books with ISBN with details of publishers : 182 (of which 108 ISBN titles) (see Annexure VI)
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, EBSCO host, etc.) : SCOPUS: 1508 (2009-2014) as on 3rd April, 2014 and 3192 total publications till today.
- Citation Index-range/average : 0-386/4.94
- Impact Factor-range/average : 0 17.28/ 1.27
- *h*-index : 46

Research output: Research output of top 50 universities has been measured by INFLIBNET. Shivaji University figures in these 50 Universities and it has registered increase in research output. The SCOPUS publications, citation and *'h'* index of Shivaji University are as under:

Sr. No	Year	No. of Publications	Citations	<i>h'</i> index
1.	2009-10	233	1384	-
2.	2010-11	251	1798	-
3.	2011-12	329	2961	37
4.	2012-13	289	3447	41
5.	2013-14	286	4008	46
Total		1388	13598	-

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Faculty

3.4.3	Give details of			
⊡	aculty serving on the ed	itorial boards of n	ational and international journals	
Sr. No.	Name of the Faculty/ Department	Position	Name of the Journal	National/ International
<u>1</u> .	Dr. V. B. Jugale (Economics)	Chief Editor	Indian Development Review: An International Journal of Development Economics. (ISSN – 0972-9437)	International
		Chief Editor	International Journal of Business Policy and Economics.(ISSN-0973-5801)	International
2.	Dr. S. P. Govindwar (Biochemistry)	Editor in Chief	American Journal of Bioengineering and Biotechnology .(ISSN 21643-1018)	International
		Member	Research Journal of Biotechnology .(ISSN 2278-4535)	National
		Member	Journal of Shivaji University (Science and Technology) (ISSN 0250-5347)	National
		Member	Journal of Krishna Institute of Medical Sciences. (ISSN 2231-4261)	National
		Member	The World Scientific Journal (ISSN 1537-744X)	National
3.	Dr.(Smt.) J. P. Jadhav (Biotechnology)	Member	Saudi Journal of Biological Sciences (ISSN 1319-562X)	International
4.	Dr. S. R. Yadav (Botany)	Executive Editor	Rheedea (ISSN 0971-2313)	National
5.	Dr. N. S. Chavan (Botany)	Member	Nature and Pollution(ISSN 0972-6268)	National
6.	Dr. V. D. Jadhav-Rathod (Botany)	Member	International Journal of Vegetables Sciences of Germany (ISSN 1931-5260)	International
			International Journal of Science and Technology, ISSN 2049-7318,	International

			International Journal of SCIKNOW – Biomedical Materials Research (ISSN 2333-956X)	International
			International Journal of SCIKNOW – Advances in Microwave and Wireless Technologies ISSN: 2329-938X	International
			International Journal of Soft computing, ISSN 1568-4946	International
			Indian Journal of Physics ISSN: 0974-9845	National
			Journal of VLSI Design, ISSN: 2229-3167	National
7.	Dr. P. A. Attar	Editor	Critical Space ISSN: 2319-3689	International
	(English)	Managing Editor	Shivaji University Journal of Humanities and Social Sciences (ISSN 0368-4199)	National
8.	Dr. C. A. Langare	Advisor editorial	Literary Endeavour and synthesis (ISSN 0255-2779)	National
	(English)	board		
9.	Dr. K. C. Ramotra	Chief editor	Indian geographical quest (ISSN 2231-668X)	National
	(Geography)			
10.	Dr. S. K. Pawar (Geography)	Executive editor	Indian geographical quest (ISSN 2231-668X)	National
11.	Dr. D. H. Pawar	Member	Earth explorer (ISSN 2229-7243)	National
	(Geography)			
12.	Dr. M. B. Potdar	Chief editor	Young Researcher (ISSN 2277-7911)	National
	(Geography)			
13.	Dr. N. K. Buwa	Member	Journal of Studies In Russian (University of Kerala)	National
	(Foreign Languages)			
15.	Dr. R. P. Bhanage	Member	Srujan Prabhat (ISSN 2249-1117)	National

	(Political Science)	Chief Editor	Navajyot (ISSN 2277-8063)	National
16.	Dr. J. H. Karade	Editor	Samajshastra Sanshodhan Patrika (ISSN 2230-7745)	National
	(Sociology)	Member	International multi disciplinary e-journal (ISSN 2250-1630)	International
		Member	International research journal (ISSN 2202-2821)	International
17.	Dr. K. D. Sonawane	Member	Journal of Microbial World (ISSN 0972-1487)	National
	(Microbiology)			
18	Dr. P. N. Vasambekar	Member	Journal of Science & Technology (ISSN 2229-7677)	International
	(Electronics)			
19	Dr. M. K. Bhanarkar (Electronics)	Member	International Journal of SCIKNOW- Biomedical Research (ISSN 2233-956)	International
			International Journal of SCIKNOW- Advances in Microwave & Wireless technologies (ISSN 2321-938X)	International
20	Dr. R. R. Mudholkar	Member	International Journal of Soft computing (ISSN 1816-9503)	International
	(Electronics)			
22	Dr. R. K. Kamat	Member	International Journal of Quality Assurance in Engg. & Technology	International
	(Electronics)		Education, USA (ISSN 2155-496X)	
			Journal of VLSI Design, India (ISSN 2229-3167)	National

(conferences recognized by	reputed organizations/societies
Sr. No.	Name of the Faculty/Department	Name of the International Conference
1.	Dr. R. K. Kamat, (Electronics)	2 nd International Engineering and Technology Conference, Ho Chi Minh City, Vietnam, 3 and 6th Nov., 2013.
2.	Dr. (Smt.) M. S. Padmini, (Education)	International Advisory Committee, IATED, Spain, 2012.
3.	Dr. (Smt.) P. R. Patil, (Hindi)	Resource person for the online guidance to the students of Sabargamua University, Sri Lanka.
4.	Dr P. A. Attar (English)	International Conference on Language, Literature and Culture, organized by Institute of Advanced Studies in English, Pune, 10-12 Dec., 2012.

• Faculty serving as members of steering committees of international conferences recognized by reputed organizations/societies

 4. Dr., P. A. Attar (English) 4. Dr., P. A. Attar (English) 4. International Conference on Language, Literature and Culture, organized by Institut of Advanced Studies in English, Pune, 10-1 Dec., 2012. 5. Dr. C.H. Bhosale, Dr. C. D. Lokhande, Dr. A.V. Rao, Dr. V. J. Fulari, Dr. P S Patil, Dr. A.K. Sharma, Dr. S.T. Navare, Dr. R.S. Vhatkar, Dr. S.D. Lotke, Dr. K.Y. Rajpure Dr. A.V. Moholkar, Dr. Smt. V.R. Puri (Physics) 6. Dr. C. D. Lokhande, Dr. C.H. Bhosale, Dr. A.V. Rao, Dr. V. J. Fulari, Dr. P S Patil, Dr. A.K. Sharma, Dr. S.T. Navare, Dr. R.S. Vhatkar, Dr. S.D. Lotke, Dr. K.Y. Rajpure Dr. A.V. Moholkar, Dr. P S Patil, Dr. A.K. Sharma, Dr. S.T. Navare, Dr. R.S. Vhatkar, Dr. S.D. Lotke, Dr. Y. S. Putil, Dr. A.K. Sharma, Dr. S.T. Navare, Dr. R.S. Vhatkar, Dr. S.D. Lotke, Dr. K.Y. Rajpure Dr. A.V. Moholkar, Dr. Smt. V.R. Puri (Physics) 7. Dr. (Smt.) J. P. Jadhav (Biotechnology) 7. Dr. (Smt.) J. P. Jadhav 			L'alika.
 5. Dr. C.H. Bhosale, Dr. C. D. Lokhande, Dr. A.V. Rao, Dr. V. J. Fulari, Dr. P S Patil, Dr. A.K. Sharma, Dr. S.T. Navare, Dr. R.S. Vhatkar, Dr. S.D. Lotke, Dr. K.Y. Rajpure Dr. A.V. Moholkar, Dr. Smt. V.R. Puri (Physics) 6. Dr. C. D. Lokhande, Dr. C.H. Bhosale, Dr. A.V. Rao, Dr. V. J. Fulari, Dr. P S Patil, Dr. A.K. Sharma, Dr. S.T. Navare, Dr. R.S. Vhatkar, Dr. S.D. Lotke, Dr. K.Y. Rajpure Dr. A.V. Moholkar, Dr. P. S Patil, Dr. A.K. Sharma, Dr. S.T. Navare, Dr. R.S. Vhatkar, Dr. S.D. Lotke, Dr. K.Y. Rajpure Dr. A.V. Moholkar, Dr. P S Patil, Dr. A.K. Sharma, Dr. S.T. Navare, Dr. R.S. Vhatkar, Dr. S.D. Lotke, Dr. K.Y. Rajpure Dr. A.V. Moholkar, Dr. Smt. V.R. Puri (Physics) 7. Dr. (Smt.) J. P. Jadhav (Biotechnology) 7. Dr. (Smt.) J. P. Jadhav 	4.	Dr P. A. Attar (English)	International Conference on Language, Literature and Culture, organized by Institute of Advanced Studies in English, Pune, 10-12 Dec., 2012.
 6. Dr. C. D. Lokhande, Dr. C.H. Bhosale, Dr. A.V. Rao, Dr. V. J. Fulari, Dr. P S Patil, Dr. A.K. Sharma, Dr. S.T. Navare, Dr. R.S. Vhatkar, Dr. S.D. Lotke, Dr. K.Y. Rajpure Dr. A.V. Moholkar, Dr. Smt. V.R. Puri (Physics) 7. Dr. (Smt.) J. P. Jadhav (Biotechnology) 2nd International Conference on "Physics of Materials And Materials Based Device Fabrication" (ICPM-MDF-2014): 11th-13th Jan., 2014 7. Dr. (Smt.) J. P. Jadhav (Biotechnology) 2nd International Conference on "Physics of Materials And Materials Based Device Fabrication" (ICPM-MDF-2014): 11th-13th Jan., 2014 7. Dr. (Smt.) J. P. Jadhav (Biotechnology) 	5.	Dr. C.H. Bhosale, Dr. C. D. Lokhande, Dr. A.V. Rao, Dr. V. J. Fulari, Dr. P S Patil, Dr. A.K. Sharma, Dr. S.T. Navare, Dr. R.S. Vhatkar, Dr. S.D. Lotke, Dr. K.Y. Rajpure Dr. A.V. Moholkar, Dr. Smt. V.R. Puri (Physics)	1 st International Conference on "Physics of Materials And Materials Based Device Fabrication" (ICPM-MDF-2012): 17 th -19 th Jan., 2012
7. Dr. (Smt.) J. P. Jadhav Organizing Committee member – 2 nd (Biotechnology) International Conference on Clinical	6.	Dr. C. D. Lokhande, Dr. C.H. Bhosale, Dr. A.V. Rao, Dr. V. J. Fulari, Dr. P S Patil, Dr. A.K. Sharma, Dr. S.T. Navare, Dr. R.S. Vhatkar, Dr. S.D. Lotke, Dr. K.Y. Rajpure Dr. A.V. Moholkar, Dr. Smt. V.R. Puri (Physics)	2 nd International Conference on "Physics of Materials And Materials Based Device Fabrication" (ICPM-MDF-2014): 11 th -13 th Jan., 2014
(Riotechnology) International Conference on Clinical	7.	Dr. (Smt.) J. P. Jadhav	Organizing Committee member -2^{nd}
		(Biotechnology)	International Conference on Clinical

		Microbiology & Microbial Genomics held at Las Vegas, USA
8.	Dr. C. D. Lokhande	 Las vegas, USA International conference on Emerging horizons in Biochemical sciences and Nanomaterials, Shri Shivaji Mahavidyalaya, Barshi, 28-30 Nov. 2013. Solar Asia 2011, Kandy Srilanka, 28-30 July, 2011. Solar Asia 2013, Centre for Ionics University of Malaya (CIUM), Department of Physics, University of Malaya, Kuala Lumpur, MALAYSIA. International conference of Industrial applications and signal processing, Dawalatrao Ahire college of Engineering, Karad 25-27-29 Nov. 2013. International conference on Advanced and Applied Material Science – 2014, 15-16 January 2014, Gopal Krishna Gokhale, College Kolhapur
		6. Nanotechnology Applications in Energy, Environment and Health: African Scenario, 24-28 March 2014. University of Nigeria, Nigeria.

3.4.4 Provide details of

2								
Sr.	Department	Faculty				Students (Best Paper Presentation Award)		
No		Inter-	Nati-	State	other	Inter-	Nati-	State
		national	onal			national	onal	
1.	Physics	04	I	03	02	-	16	-
2.	Chemistry	02	-	02	01	-	03	-
3.	Electronics	01	01	-	-	-	01	07
4.	Botany	-	05	02	04	-	02	-
5.	Biochemistry	01	06	04	02	01	08	-
6.	Biotechnology	-	02	01	-	-	-	-
7.	Zoology	-	02	01	-	-	-	-
8.	A.G.P.M.	-	-	-		-	08	-
9.	Environmental Science	-	01	-	-	-	-	-
10.	Food Science & Technology	-	-	-		-	07	-
11.	Statistics	01	-	I	-	-	-	-
12.	Journalism & Mass Comm ⁿ .	-	-	01	-	-	-	03
13.	Hindi	01	01	-	-	-	03	-
14.	Music & Dramatics	-	02	01	-	-	-	-
15.	Marathi	-	-	08	-	-	-	-
16.	Political Science	-	-	08	-	-	-	-
17.	Sociology	01	01	-	-	-	-	01
18.	Economics	-	01	-	-	-	-	-
19.	Commerce & Management	-	-	-	02	-	-	-
20.	Computer Science	-	-	-	-	01	-	-
21.	Library Science	-	-	-	02	-	-	-
22.	Nano Science & Technology	-	-	-	-	-	-	03
23.	Centre for Women's Studies	01	-	-	-	-	-	-
	Total	12	22	31	13	02	39	14

• Research awards and Recognition received by the faculty and students

* AVH, JSPS, Korean brain pool, Mary Curie, Ramanujan Fellowship

* National and International Recognition received by the faculty from reputed professional bodies and agencies

The faculty members have received 12 International, 22 National and 31 State level awards/recognition during the assessment period.

3.4.5 Indicate the average number of successful M.Phil. and Ph.D. scholars guided per faculty during the last four years. Does the university participate in *Shodhaganga* by depositing the Ph.D. theses with INFLIBNET for electronic dissemination through open access?

Average number of successful M.Phil and Ph.D. scholars guided per faculty is 1.37 and 3.19 respectively during the assessment period.

Yes, the University has signed MoU with INFLIBNET for implementation of *Shodhganga and Shodhgangotri*. The university participates in Shodhganga to avoid the plagiarism of the Ph.D. theses with INFLIBNET.

3.4.6 What is the official policy of the university to check malpractices and plagiarism in research? Mention the number of plagiarism cases reported and action taken.

The university organized seminars on the campus and lead lectures in the colleges on Research Ethics and Plagiarism to circumvent the malpractices. Four cases of malpractices have been reported and appropriate actions have been initiated.

3.4.7 Does the university promote interdisciplinary research? If yes, how many interdepartmental/interdisciplinary research projects have been undertaken and mention the number of departments involved in such endeavors?

Yes, the University promotes the interdisciplinary research.

- DST-PURSE: A major interdisciplinary programme amongst the eighteen Science and Technology Departments under DST-PURSE for which grant-in-aid of Rs. 9.00 crores has been sanctioned by DST, New Delhi.
- DBT-IPLS: Another noteworthy project is interdisciplinary Programme in Life Sciences under which Rs. 5.00 crores has been granted by DBT, New Delhi. Six departments are involved in this programme.
- TEQIP: Department of Technology has been sanctioned Rs. 10.00 crores under the TEQIP programme granted by the World Bank for research in all Engineering subjects (08).
- DST-SAIF: University has been granted Rs. 5.00 crores under DST-SAIF programme for purchase of sophisticated analytical instruments for interdisciplinary research in science departments.
- Grants from Government of Maharashtra:
- i) The Government of Maharashtra has sanctioned the grant of Rs. 8.85 crores for building, equipment and furniture for the *Yashwantrao Chavan School of Rural Development* (YCSRD) along with sanction of 35 positions. The school is multi faculty (Technology, Management, Social

Science and Computer Applications) interdisciplinary research and extension unit of the University.

- ii) The School of Nano-science and Technology has been established for interdisciplinary teaching and research. The departments involved are Physics, Chemistry, Biotechnology, Biochemistry, Microbiology, Botany, Zoology, Statistics and Mathematics. This school has received Rs. 10 crores for building and instruments along with 23 faculty positions.
- UGC Funding :
- i) *The Centre for Social Exclusion and Inclusive Policy* has received grants of Rs. 2 crores from the UGC. This centre includes all Social Science departments.
- ii) *Centre for Women Study:* Faculty members from relevant departments contribute in teaching, research and extension activities.
- iii) *Adult and Continuing Education*: The departmental experts are involved in teaching and extension activities of the centre in respective areas.
- University Fund :
- *i)* Centre for Community Development: This centre conducts interdisciplinary curriculum for the educational dropouts from rural and urban area. Local expertise is involved in teaching and extension activity of the centre.

3.4.8 Has the university instituted any research awards? If yes, list the awards.

Yes, the University has instituted the Departmental Research Fellowships (one for each Department per year). A separate budget of Rs. 10 lakhs is earmarked each year. The scheme has been renamed as *Golden Jubilee Research Awards* with addition to the budget.

The Best Teacher Award instituted by the University takes into consideration research contribution (60% weightage) while selecting the teacher for the award.

3.4.9 What are the incentives given to the faculty for receiving state, national and international recognition for research contributions?

Faculty has been provided with institutional study leave (6), partial financial support and publication grants.

3.5 Consultancy

3.5.1 What is the official policy of the University for Structured Consultancy? List a few important consultancies undertaken by the university during the last four years.

The University has a clearly defined policy for consultancy services.

These are grouped under three heads:

- 1) Services where institutional consumable and non-consumable facilities are required to be used.
- 2) Services where only institutional non-consumable facilities are to be used.
- 3) Advisory consultancy in which the university facilities are not to be used.

The details regarding the consultancy services available in the departments are communicated to the concerned organizations. The revenue generated is shared as follows:

- a) 30% of the amount to the Department concerned.
- b) 20% of the amount to the University.
- c) 30% of the amount to the Experts.
- d) 20% of the amount to the Teaching and Non-teaching staff.

Following are some of the important consultancies undertaken by the University during the assessment period.

- 1. Russian Company for Super capacitors, LPG gas, Sensors, Smart Windows, TCO, Aero gels. Characterization and consultancy through instrumentation centre.
- 2. Analytical Services provided to Institutes & Industries, IR, NMR & C,H, N analyses
- 3. Consultancy to Govt. Organizations on Taxonomy
- 4. Anti microbial testing
- 5. Air, noise, soil and water pollution monitoring
- 6. Comprehensive District Agricultural Development Plan for Sangli and Kolhapur district.
- 7. Statistical data analysis
- 8. Product quality standardization, canning process validation, development of flavored soymilk and food analysis
- 9. Material testing & scrutiny of structural/ designs structural design & audit estimating & building planning
- 10. Energy conservation/ energy audit, wind energy, solar-PV designs

3.5.2 Does the university have a university-industry cell? If yes, what is its scope and range of activities?

Yes, the university has 'University Industry Interaction Cell' working for the last 20 years. This cell develops linkages between University experts and industrial entrepreneurs through regular meetings and conferences. The activity range is *consultancy* to *process development*.

The modes of engagement planned with the industries include:

Consultancy- market survey, project proposal, report preparation/presentation, state of art report, up-gradation of technology and provision of specific solution.

Testing of Products- industrial effluents and water testing

3.5.3 What is the mode of publicizing the expertise of the University for Consultancy Services? Which are the departments from whom consultancy has been sought?

Expertise of the University is publicized through University web-site, pamphlets circulation to the nearby industries and arranging workshops for University and industrial experts. The University also publicizes these facilities at Shivaji University during national and international conferences. Following Departments provide the consultancy services:

- Botany
- Biochemistry
- Electronics
- Economics
- Microbiology
- Technology

- Biotechnology,
- Chemistry
- Environmental science
- Food Sci. and Technology
- Statistics

3.5.4 How does the university utilize the expertise of its faculty with regard to consultancy services?

The University involves its departmental experts in discussion and meetings with industrial experts selected for consultancy services. The laboratory facilities of the University are made available under the guidance of the experts.

Sr. No.	Department	Type of Consultancy	Revenue Generated (Rs.)
1.	Physics	Super capacitors, LPG Sensors, Smart Windows, TCO, Aero gels. Characterization and consultancy through instrumentation centre.	13,00,000
2.	Chemistry	Analytical Services provided to Institutes & Industries, IR, NMR & C,H, N analyses	9,52,885
3.	Botany	Consultancy to Govt. Organizations on Taxonomy	6,68,000
4.	Microbiology	Anti microbial testing	17,700
5.	Environmental Science	Air and noise, soil and water pollution monitoring	2,60,700
6.	Economics	Comprehensive District Agricultural Development Plan for Sangli and Kolhapur district.	55,000

3.5.5 List the broad areas of consultancy services provided by the university and the revenue generated during the last four years.
7.	Statistics	Statistical data analysis	1,48,000
8.	Electronics	FPGA Based System Design	40,000
9.	Computer Centre		4, 21,635
		Total	46,33,920

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the university sensitize its faculty and students on its Institutional Social Responsibilities? List the social outreach programmes which have created an impact on students' campus experience during the last four years.

The University has sensitized faculty and students for institutional social responsibilities through general awareness and targeted programmes. The University organizes outreach programmers such as:

- Blood donations
- Environmental awareness activities
- Exhibitions
- Farmer's meet
- NSS programmes
- No Vehicle Day
- Programmes through Adult Education
- Science Day lecture Programmes
- Senior Citizens Programme
- Save girl child
- Tree Plantation

3.6.2 How does the university promote university-neighborhood network and student engagement, contributing to the holistic development of students and sustained community development?

The University promotes neighborhood networking by arranging several programmes such as: environmental problems regarding the pollution of the *Panchangaga River* and problem of equitable water distribution in *Chikotra River* basin. The former has been included in our syllabus for environmental science. The Methods of Case Study and Field Visits are utilized by the students of the social work for both the programmes. The students regularly visit the slum areas and nearby villages for actual knowledge of the social ethos. It may be mentioned here that the NSS students of the University conducted last year a special camp at Atpadi, Dist. Sangli, a drought prone area. They participated in desiltation activity of old water reservoir and made to improve storage of fresh water to be used by the villages. Provision of fodder to cattle in drought affected area was done

through "Fodder Campaign". This could be cited as an example of efforts towards the holistic development of students and sustained community development. The Government of Maharashtra recognized this by awarding the University the State Award for excellent N.S.S. work.

3.6.3 How does the university promote the participation of the students and faculty in extension activities including participation in NSS, NCC, YRC and other National/International programmes?

The University has separate NSS Programme Director to look after the activities. The NSS has established itself as a role model amongst the State Universities in Maharashtra. The University awards various Prizes for organizing NSS programmes. The University has established an 'International Cooperation Cell' to address the issues of the faculty and students from abroad.

3.6.4 Give detail of social surveys, research or extension work, if any, undertaken by the university to ensure social justice and empower the underprivileged and the most vulnerable sections of society?

The University has established the following Centres for ensuring social justice and empowering the underprivileged and the most vulnerable sections of society:

- Centre for Women Studies
- Dr. Babasaheb Ambedkar Centre for Research and Development
- Equal Opportunity Cell
- Social Exclusion and Inclusive Policy
- Special Chairs (Eight) to address the issues faced by the underprivileged.

The University has established collaboration with Central Leather Research Institute, Chennai for the benefit of the leather workers of Kolhapur and also branding of '*Kolhapuri Chappals*'. Efforts were made to protect the intellectual rights of the *Kolhapuri Chappals* under the Geographical Indication (GI) scheme. The University supported training programmes to vulnerable sections of society.

Social survey is the part of our syllabi. Following surveys have been conducted by various Departments/Centres/Chairs:

- Leather workers in Kolhapur and mofussil area.
- Benchmark survey of the villages coming under Chikotra River Basin for implementation of equitable water distribution model.
- Environmental N.G.Os.
- Water Users' Associations.
- Minorities, Social Exclusion of Women and Poverty, and Environment in slum areas.

- Maid-servants.
- Waste pickers.
- Faculty Recruitment under Policy of Reservation as a Tool of Social Inclusion with Special Reference to Colleges in Kolhapur City
- Gender Discrimination in Unorganized Sector in Kolhapur City
- Social Exclusion of De-notified Tribes: A Case Study of *Kanjar-Bhat* Community in Kolhapur City
- *Makadwala* Community, a De-notified Tribe in Kolhapur City
- Role of Government in Women's Empowerment
- Socio-Economic Status of SC and ST Post Graduate Students and BPL families.
- The Perspective of Youth towards Inter Caste Marriage System in India, Special Reference of Kolhapur City.
- Social Profile of the Students admitted to Post Graduate Courses in Shivaji University
- Impact of Water Pollution on Socio-economic Condition of Fishermen Community and their Livelihood
- Impact of Drought on Socio-economic Condition of People in Khatav Taluka
- The Participation of Marginalized Community in the Panchayat Raj Institute with Special Reference to Satara, Sangli and Kolhapur Districts
- Comparative Study of Socio-economic Conditions of *Matang* Community in Kolhapur and Solapur Districts
- Socio-Economic Study of *Vadar* Community in Kolhapur city
- Extension surveys and workshops for empowerment of SC/ST and women under DST and CSIR programme in the area of sericulture.

3.6.5 Does the university have a mechanism to track the students' involvement in various social movements/activities which promote citizenship roles?

One of the functions of the NSS scheme is to motivate the students for involvement in various social activities and to track their progress for its record. The University organizes leadership development programme titled *Shiledar Shibir, Avhan, National Integration Camp and* other flagship programmes of the government every year.

3.6.6 Bearing in mind the objectives and expected outcomes of the extension activities organized by the university, how did they complement students' academic learning experience? Specify the values inculcated and skills learnt.

The extension activities organized by the University help to shape the overall personality of our students by inculcating in them the following values and skills:

Values	Skills
Democratic spirit	Communication
Nationalism	IT
Secular outlook	Leadership
Concern for the poor and the downtrodden	Social
Scientific temperament	

3.6.7 How does the university ensure the involvement of the community in its outreach activities and contribute to community development? Give details of the initiatives of the university which have encouraged community participation in its activities.

Centre for Community Development and the Department of Adult and Continuing Education offer exclusive help to the community for vocationlization. The Centre for Community Development conducts 22 self employment generating Certificate Courses in collaboration with 88 institutes under University jurisdiction. These courses belong to the areas of Home Science, Paramedical, Technical, Agriculture and Computer subjects. 50 % participants are girls. Most of the students come from the rural areas of South Maharashtra and belong primarily to the Scheduled Castes and Scheduled Tribes.

Similarly, the Department of Adult and Continuing Education conducts 32 certificate courses jointly organized with the local institutions.

3.6.8 Give details of awards received by the institution for extension activities and/contributions to social/community development during the last four years.

The NSS unit of the University has been honoured with the *State Award for Excellence*. Dr D. K. Gaikwad, Director of Students Welfare and Coordinator of NSS, is also honoured with the State award for the Best Coordinator.

One of the alumni and former faculty members of the Department of English, Prof. Ganesh Devi, has been honoured with *Padmashree* for his contribution to the field of education and literature for the year 2014.

3.7 Collaboration

3.7.1 How has the university's collaboration with other agencies impacted the visibility, identity and diversity of activities on campus? To what extent has the university benefitted academically and financially because of collaborations?

University has developed several national and international collaborations with reputed universities and institutions in India and abroad. Some national research institutes like National Grape Research Institute, Pune

and Vasantdada Sugar Institute, Manjari, Pune are affiliated to the University thereby enhancing the collaborative research.

Visibility, identity and diversity of activities on campus have received a boost. Eight members of faculty have visited to other universities and institutes. Four Srilankan students and two officers have visited this University. Under C.V. Raman International Fellowship some Nigerian students visited the University. The University faculty and students have been awarded research fellowships such as Fulbright, Boys cast, Brain-Pool, Alexander von Humboldt, JSPS, Marie Curie and INSA.

These activities are rendering benefits to the academicians and students in the University. It has benefitted the students going abroad. The faculty going abroad is facilitated by free accommodation and local travel. The global image of the University improves through such visibility, identity and diversity.

3.7.2 Mention specific examples of how these linkages promote

1. Curriculum development:

- a) Introduction of Choice based Credit system and Academic flexibility.
- *b)* Introduction of new courses such as nano-science and technology, multi faculty interdisciplinary subjects
- c) Concept of schools introduced in two instances.

2. Internship:

Interaction with scholars abroad has resulted in more informed internship which fetched the students' positions at prestigious organizations.

3. On-the-job training:

The structuring of on-the-job training has become more meaningful and intense.

4. Faculty exchange and development:

Faculty exchange programme has widened the horizon of experience and knowledge of the visitors.

5. Research:

New research areas have been identified.

6. Publications:

The number of national and international collaborative publications has increased to 386 and 336, respectively.

7. Consultancy :

There is a marked increase in the number of consultancies and revenue generated.

8. Extension:

The New insights gained on extension programmes to be undertaken. Capacity and confidence to undertake new programmes to answer social needs increased.

9. Student placement:

Exposure to education at universities abroad has resulted in better placement at prestigious organizations.

10. Doctoral Fellows:

A Ph. D student from the Department of Physics has joined Chonnam National University, South Korea under MoU agreement (student exchange programme) for the period of one year Sept 2012-August 2013).

11. Post Doctoral Fellows:

Twenty seven research students (Department of Physics) have worked as post doctoral fellows at Universities abroad.

12. Summer Fellowships:

There were 31 Summer fellowships obtained by the students.

3.7.3 Has the university signed any MoUs with institutions of national/international importance/other universities/industries/ corporate houses etc.? If yes, how have they enhanced the research and development activities of the university?

Yes, the University has already established 21 international and 10 national linkages with a number of international institutions and signed MoUs with them in order to make opportunities of higher learning and research accessible to rural youth and to promote fundamental and applied research in the fields of Sciences and Humanities. This may to ensure regional growth and development.

These collaborations have helped to enhance the international collaborative research publications of 336 and national 386.











Inauguration of Golden Jubilee Celebrations-2011



CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 How does the University plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?

The national Apex Bodies like UGC, AICTE, BCI, NCTE provides new course work and curriculum design based on the national demands. The Academic Departments in the University designs the curriculum with an addition of local demands. The required infrastructure is being developed by the University in view of the increased intake and some research projects coming to the University. The University also creates necessary infrastructure systematically and continuously, based on the rising requirements of the vision and mission. All infrastructural facilities are optimally used by the University and other social organizations for academic purposes.

4.1.2 Does the University have a policy for the creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.

Yes, the University has initiated the following steps in order to promote good teaching-learning environment.

- Laptops to all teachers and officers
- LCD/DLP provided to all departments
- Interactive boards to majority of the departments
- Access to internet facilities with 1GBPS capacity
- Installation of sophisticated instruments in research laboratories
- Webinars and video conferencing
- New buildings for academic departments
- Use of MOODLE / MOOC

4.1.3 How does the University create a conducive physical ambience for the faculty in terms of adequate research laboratories, computing facilities and allied services?

Well furnished rooms and research laboratories (individual/common) in the departments along with sophisticated instruments and necessary infrastructural facilities are provided to the faculty. Internet connectivity is provided to all the faculty members and research students. Few departments are also equipped with workshops. The faculty also avail themselves of central facilities such as University Science Instrumentation Centre (USIC) and Common Facility Centre (CFC). High performance computing facility is provided by the Data Centre. The University provides administrative and academic support for the smooth conduct of the research projects.

4.1.4 Has the University provided all departments with facilities like office room, common room and separate rest rooms for women students and staff?

Yes, all the departments have well furnished office rooms. Every building has wash room facility for women students and staff. Day Care Centre is instituted under the UGC support for the kids of the faculty and administrative staff. Centre for Women's Studies and Equal Opportunity Cell specifically look into the problems of the women students and staff in the University.

4.1.5 How does the University ensure that the infrastructure facilities are disabled-friendly?

The University provides barrier free environment to differently abled persons. *The text to speech software* (JAWS) and special auto vehicles are also provided.

4.1.6 How does the University cater to the requirements of residential students? Give details of -

Fully catered hostel facility is provided to the boys and girls residing in the campus.

• Capacity of the hostels and occupancy (to be given separately for men and women)

The University has 9 hostels with capacity of 2075 as shown below:

Hostel Type	No. of Hostels	Intake Capacity	Occupancy
Men	5	1010	100%
Women	4	1065	100%

• Recreational facilities in hostel/s like gymnasium, yoga centre, etc. Recreational facilities provided at the Hostel:

- Recreation Hall near Boys Hostel
- Television sets
- Gymnasium
- Indoor Sports
- Library
- Newspapers and magazines

4.1.7 Does the University offer medical facilities for its students and teaching and non-teaching staff living on campus?

Yes, the University Health Centre is located on the campus headed by full time Medical Officer supported by clinical, para-medical and administrative staff. The Health Centre provides all necessary medical facilities to the members of the University staff, their family members, retired staff, students, University guests and outsiders residing nearby the campus. It is a well equipped centre with sophisticated instruments. Nearly 18,000 patients avail of health services every year from the Health Centre.

The services of honorary medical specialists like ENT, Dentist, Orthopedic, Gynaecologist, Ophthalmologist, Ultrasonologist, consultant for adolescents and Radiologist are provided.

Special health related camps and students' medical check-up camps are regularly organized by the Health Centre with the help of external specialists.

4.1.8 What special facilities are available on campus to promote students' interest in sports and cultural events/activities?

The University has necessary infrastructure to promote students' interest in sports and games. The facilities available are as follows:

- 400 metres turf athletic track and 400 metres synthetic track of international standard, Badminton and Basket Ball Courts, Volley Ball, Kabaddi and Kho-Kho grounds.
- Spectator gallery and changing room facility.
- Multi function Indoor Sports Centre with separate rooms for Carom, Chess and Table Tennis.
- Training in sports and games for all types of competitions. Regular coaching by expert trainers for the University teams in addition to the services of Director of Physical Education.
- Training available for participation in Youth Cultural Festival, *Ashwamedh* sports competitions and *Indradhanushya* Cultural Competition, *Avishkar* Research Project Competition.
- Necessary expertise available from the Departments of Music and Dramatics and Languages.

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of the committee. What significant initiatives have been taken by the committee to render the library student/user friendly?

Yes, *Barr. Balasaheb Khardekar Library* is a central library on the campus. It has an Advisory Committee known as Library Committee.

Library Committee consists of following members:

- Hon. Vice-Chancellor- Chairman;
- Three Deans of Faculties, nominated by the Vice-Chancellor;
- Three Heads of the University, institutions, or departments, nominated by the Vice-Chancellor;

- Two teachers, nominated by the Academic Council, from amongst its members;
- Registrar;
- Librarian Secretary.

Significant initiatives:

- Issuing of the smart cards to teachers for book circulations.
- Reading room facility at the *Lok Kala Kendra* and Library third floor.
- A new library building as a part of expansion.
- Implementation of *Vachan Katta Activity* for cultivating reading culture among the students.
- Establishment of *Academic Resource Centre* in the library building for enlightening the students on research ethics, writing habits, plagiarism and publishability.
- Provision of e-database such as: INFLIBNET/Shodhganga, SCOPUS, JCCC, SciFinder, MathsciNet, Royal Society of Chemistry, JSTOR, ISID, Web of Science, IMF E-Library, Knimbus.
- Provision of inter-library loan facility.
- Annual Granth Mahotstav and Granth Dindi at the time of Convocation ceremony.
- Occasional Book Exhibitions on the important days like National Science Day (NSD) and Barr. Balasaheb Khardekar Jayanti.
- Publication of Library Brochure (as a user manual), Research Compendium and Convocation addresses.
- Books loan to Departmental Libraries.
- Access of reading hall facility for 725 students (shortly to be extended for 400+ 400 more students in the new library building).
- On-line Public Access Catalogue (OPAC) facility with four nodes.
- Separate Internet Facility Centre housed in library building with 175 nodes for accessing e-resources.
- Separate user awareness programmes for students.
- Separate library portal at the University website with following features:
- Current Journals, E-Databases, E-Journals, E-Resources, Journal Holdings, News and Events, Reading Facilities

4.2.2 **Provide details of the following:**

• Total area of the library: 5490.34 (old) + 5111.11 (New) (3274.68 ground floor + 1836.43 first floor) = 10,601.45 sqm.

•	Total seating capacity :	
	Reading Hall (Main Library) :	525
	Reading Hall (Study Centre) :	200
	Academic Resource Centre :	50
	Reference Section :	60
	Periodical Section Seating Capacity :	20
	Total :	855+800 (New) = 1655

• Working hours (on working days, on holidays, before examination, during examination, during vacation)

Library facility on all working days : 7.5 hours

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	(10.30 a.m to 6.00 p.m)
Reading Hall facility	: 18 hours
on working days, on holidays,	(6.00 a.m to 12.00 midnight)
before examination, during	
examination, during vacation	
I avout of the library (individual	reading correls lounge area for brow

Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)

i)	Individual reading carrels	-	Every floor
ii)	Lounge area for browsing	-	Stacks
iii)	IT zone for accessing e-resources	-	Internet Facility
			Centre and Academic
			Resource Centre

• Clear and prominent display of floor plan; adequate sign boards; fire alarm; access to differently-abled users and mode of access to collection

Path finder chart of the library building is displayed at the ground floor of the library, which gives detailed directions about various sections. Adequate sign boards are displayed in all the sections. Fire extinguishers are provided in each section for security purpose. The ramp and lift facilities have been provided for differently-abled users to visit various sections. Circulation of books, OPAC and internet node are available for differently-abled users at the ground level. The special seating facility in the Reading Hall is made available to such persons.

Open access system is operative for all the members of the library since 2006.

4.2.3 Give details of the library holdings:

a) Print (books, back volumes and dissertations)

Details of Library Holdings

Items	Central Library as on 31 March 2013	Study Centre as on 31 March 2013
I) Print Holdings		
Books	2,62,407	13,101 (incl.texts)
II) Current Journals		
International Journals	7,600 (*)	-
Indian Journals	179	-
Magazines (General Magazines)	17	-
Back volumes of Journals	32,613	-
III] Theses/Dissertations and Reports	16,493	-
IV] Any other (specify): Manuscripts	6,923	-

(*) Including UGC-INFLIBINET Open Access Journals.

b) Average number of books added during the last three years

No. of books added during assessment period

Library Books	No. of books added					Average addition
	2009-10	2010-11	2011-12	2012-13	2013-14	per year
Text and Reference books	5,649	2,758	3,475	2,296	2,632	3,362

c) Non Print (Microfiche, AV)

Microfiche : Nil AV : 1587

d) Electronic (e-books, e-journals) E-books

E-books	:	124
E-Journals (Consortia)	:	7600+
Foreign online e-journals (Subscribed)	:	57
Database	:	09
Portal	:	01 (JCCC)

Special collection	Total Number
UNO Repository Centre (Including UNESCO etc)	163
World Bank Repository	33
Materials acquired under Special schemes (IEEE, ACM, NBHM, DST etc)	10,164
Competitive Examinations	809
Book Bank	6,478
(Book facility to the children of Class IV employees)	
Text books	7,076
Reference books	8,223
Standards	4
Patents	3 + 1 CD Patent Database
Archival Cell Special Donated Collection (Donors: 50)	31,404

e) Special collections (e.g. text books, reference books, standards, patents)

4.2.4 What tools does the library deploy to provide access to the collection?

• OPAC

OPAC (Online Public Access Catalogue) facility is made available through campus networking at all the departments/centres to get the bibliographical details of the collection. Four separate nodes, mainly meant for OPAC facility, are made available at the entrance (ground floor) of the library. Searching tools such as simple search, advanced search, search by database, ISBN are deployed under OPAC facility. The OPAC service is available at the address- http://libproxy.unishivaji.ac.in:8080/opac. This helps the faculty and students to browse library catalogue sitting in their departments and IT hall.

• Electronic Resource Management package for e-journals

The library has bought several e-resource packages to access peer-reviewed e-journals, e-books, e-database (bibliographical and full text...etc) and portal. Some of them are: Cambridge University Press, Sage, Science Direct, Springer Link, JCCC, ASME, ASCE, LISA, Scopus and Web of Science. These e-resources are either accessible from INFLIBNET Centre (an IUC centre of UGC) or subscribed to the library and link to all such eresources/portal made from the library website. In addition to that, link to scholarly open access journals/database is also provided through the library website.

• Federated searching tools to search articles in multiple databases

Library has an access to most referred e-database/portals like JCCC, Scopus, SciFinder Scholar, Knimbus and LISA having federated searching facility from multiple databases. The search strategy includes Boolean Logic searching options/logical searching options and advanced searching techniques to access the particular document.

• Library Website

The Library website provides information regarding rules/regulations, News/events and direct link to different e-resources like e-journals, e-databases. It also provides link to OPAC and Digital Library. A separate library portal has been constructed and launched recently.

• In-house/remote access to e-publications

Access to e-publication is available from computer/server room having 15 computers equipped with internet connectivity and downloading/printing facility. There are in all 55 computers housed at different sub-sections providing in-house and remote access to online e-publications/e-resources. In addition to that the Internet Hall equipped with 155 computers is also available for in-house access to e-resources. A unique feature of the University is the e-publication of '*Shiv Sandesh'*, e-bulletin, providing the information about the events on the campus.

4.2.5 To what extent is ICT deployed in the library? Give details with regard to

• Library automation

The work of retro-conversion of library active collection was completed in LibSys integrated library software package in the year 2008. The bibliographic information about the collection is made available through library OPAC system. In addition to this, automated acquisition module, technical processing module for new purchase (data entry, bar code generation and pasting) and circulation module for issue and return of books to the readers have been initiated with the LibSys integrated library management software. Almost all the housekeeping modules are computerized. Library automation work management and back up management are administered through centrally controlled computer room.

• Total number of computers for public access

The library houses 55 computers with high internet bandwidth with a view to browsing and sharing e-information (online/offline) and as a step towards paperless library. Four separate OPAC nodes are operating for public access at the ground floor, near the entrance of the library. A wide access to OPAC facility is made available through campus LAN at all the computers at different departments.

• Total number of printers for public access

A series of printers such as Dot Matrix/Laser and Ink-jet printers are housed in the library. Currently there are two printers available for public access printing purpose.

• Internet bandwidth speed 🗆 2MBPS 🗆 10 MBPS 🗆 1 GB

The internet bandwidth of 20 MBPS leased line is available.

• Institutional Repository

Library has planned to develop following institutional repositories for the users:

- a) Article Repository : published research papers/articles of the faculty members
- b) Book Repository : published books of the faculty members.

• Content management system for e-learning

Library also plans to develop content management system to provide enhanced access to remote and local electronic resources. The proposed system including hyper links such as Library Links, Community/ University Links (Links to conferences, fellowships, training programs), Quick Searches (search of databases including Internet) and ready reference shelf (master list of reference sources).

• Participation in resource sharing networks/consortia (like INFLIBNET)

Participation in resource sharing:

University Library has institutional membership to several organizations for sharing e-resources. Some of them are INFLIBNET Centre Ahmadabad, the British Council, Association of Indian Universities, New Delhi, Association of Commonwealth Universities, U.K., Current Science Association, Bangaluru (life membership) and GDNET (Global Development Network).

INFLIBNET Membership Facilities:

A] E-Journal Access:

Through INFLIBNET institutional membership under the UGC INFONET DIGITAL LIBRARY CONSORTIUM, the library gets free access to 7600+ online full text e-journals from 25 premier international publishers and 6 databases for the benefit of students and faculty.

B] Shodh-Ganga and Shodh-Gangotri ETD Portal:

The University has signed MoU with INFLIBNET Centre, Ahmadabad for 'Shodh-Ganga ETD Portal'. It facilitates submission and hosting of Indian ETDs by submitting electronic version of Ph.D dissertations, which will be available to entire scholarly community in open access mode. Presently 124 dissertations from the University are made available on INFLIBNET Shodhganga ETD Portal.

The library has received a grant of Rs.19,26,650/- for development of ETD laboratory and for digitization of back-files of dissertations in print. In line with the benefit of Shodhganga, access to another repository "Shodhgangotri" is beneficial for submitting M.Phil/Ph.D synopses in electronic form.

4.2.6 **Provide details (per month) with regard to**

- Average number of walk-ins : 11,850 per month (excluding the readers coming for transaction at circulation section/ text book section)
- Average number of books issued/returned : 7,531 per month
- Ratio of library books to students enrolled (3,18,540/4980) : 64 : 01
- Number of books added during the Library Average Average books Addition Addition last four years Per Year Per 2010-2011-2012-2013-Month 11 12 13 14 Text books and 2,758 3,475 2,296 2,632 2,790 233 Reference books.
- Average number of books added during the last four years : 2,790/yr.

- Average number of login to OPAC : 1,808 per month
- Average number of login to e-resources :16,072 per month
- Average number of e-resources downloaded/printed :16,072 per month
- No. of IT (Information Technology) literacy trainings organized : 04
- 4.2.7 Give details of specialized services provided by the library with regard to -
- Manuscripts:

There are about 6,923 manuscripts available on various subjects such as Vedanta, Dharmashastra, Nyayashastra, Jotishya, Vaidak, History, Puran, Literature, Kavya, Natak (Drama) and Yoga. The oldest manuscript named 'Abuprabandh' written in the year 1353 is available. Some of the important value added manuscripts such as "Rasaratnasamuchchay" (1970) are published by the University. The oldest known version (Shree Shake 1490 / 1569 A.D.) of Dnyaneshwari is preserved and published by the University. "Ayurved Saukhya: Nidan Chikitsa (Shree Shake 1741)" and "Ayurved Saukhya: Paribhashay (Shree Shake 1741)" written by Todarmal, one of the Navaratnas in Akbar's Darbar, is preserved in the Archival Cell. National Mission for Manuscript (NMM), Ministry of Culture, Government of India, New Delhi has sanctioned "Manuscript Resource Centre (MRC)" to the University to collect and compile rare documents and manuscripts available in southern Maharashtra; its documentation and reporting of it to the NMM under MRC project.

• Reference:

The library has a rich collection of reference tools, and provides the reference services in both digital and print forms. About 75 readers visit this section daily for reference work, dissertations, and reports.

• **Reprography:**

Digital copier/printer is available for scanning, printing and photocopying of library materials. The reproductions are made for academic and research needs keeping in mind the Copyright Act.

• Inter-library Loan Service:

This service is enhanced and effectively implemented through ICT tools, and scholarly resources such as books (reference books), journal articles (e-journals) e-resources etc. are shared with other institutional libraries. Presently, it is known as Document Delivery Service (DDS).

• Information Deployment and Notification:

The library information services are made available through OPAC (Online Public Access Catalogue), Library Brochure, Library website, new arrivals display, e-mail alerts, circulars and notices.

The library conducts e-resources awareness programs/user orientation programs/trainings/workshops in consultation with the publishers and government departments for the benefit of all the stakeholders. A list of new arrivals in the library is communicated to the students and teachers through the library website.

• **OPACS**:

Online Public Access Catalogue System (OPACS) has been in operation since June, 2008 with the help of LibSys integrated library software.

• Internet Access:

The library is well-equipped with high speed internet connectivity. The bandwidth is 20 MBPS leased line and additional 1 GBPS from National Knowledge Network (NKN).

• Downloads:

The library has downloading facility for students and faculty. The instrumental devices for download such as database server, internal/external storage devices like hard disk, CDs/VCDs, scanner, printer and digital camera are available for storing the information available in textual, image, graphic, audio, video/multimedia formats. The e-resources (free and subscribed) are

available in the library with perpetual back files access destined for future download purpose.

• **Printouts:**

The library provides access of eleven printers like Dot Matrix, Laser, Ink-jet, digital copier cum printer, fax machine and bar code printers for printing purposes. In view of the green library initiatives, the printouts are kept to the minimum.

• Reading list/ Bibliography compilation:

The library has maintained both manual and digital catalogues which offers the details regarding resource material. As per the DDC international standards the same is arranged by author, title and subject indices. The library has published the following books for obtaining the review of literature in the relevant field and related information:

- 1. Compendium of Research Vol.1: Bibliography of Doctoral Theses: 1962 to 1987
- 2. Compendium of Research Vol. 2. Bibliography of Doctoral Theses: 1987 to 1998
- 3. Compendium of Research Vol. 3. Bibliography of Doctoral Theses: 1998 to 2010
- 4. Index to Theses
- 5. Catalogue of Manuscripts
- 6. Subject Files of Important Information from General Magazines 1975-1990
- 7. A list of 'CENTURY OLD' Books
- 8. A list of 'CD ROM' Collection
- 9. Occasional Bibliographies
- 10. Descriptive Catalogue of Manuscripts [Under print]

• In-house/remote access to e-resources:

Free online access to more than 7,600 peer-reviewed e-journals and 09 databases published by 25 reputed international publishers are available on authentic IP address of the University to carry out academic and research work of the stakeholders. Recently, this facility is also extended for the faculty members for accessing from outside the University campus. Library website provides direct link to such e-journals, e-database and e-resources which are classified and arranged into different disciplines/faculties. The library has maintained 10 separate nodes at the computer laboratory and 16 nodes at the Information Technology Laboratory of the Department of Library and Information Science to access these scholarly, peer-reviewed e-resources available in open access and subscription mode.

• User Orientation:

The library arranges an extensive User Orientation Programme at the beginning of every academic year for the new students. The programme is conducted in two phases:

- a) General information about the library: The topics covered are layout vis-à-vis facilities in the library building, sections, opening hours, holdings, rules and regulations, special features and services, use of OPAC, e-resources.
- b) Visits to the library: Guided tour to all the sections of the library.

• Assistance in searching Database:

The library staff assists the users in searching the desired information available with various sources by arranging demonstration/ hands-on-approach.

The Academic Resource Centre (ARC) is set up with all modular and ICT infrastructure for extensive use of e-resources and development of research skills amongst the stakeholders. The ARC is housed with writing resources and instructional repositories. It provides orientation on topics like e-resources access, resume writing, research report writing, citation analysis, journal impact factor and assistance regarding publication.

• INFLIBNET/IUC facilities:

Following facilities are available with the INFLIBNET/IUC Membership:

- Free access to 7600+ online full text e-journals from 25 leading international publishers
- Shodhganga and Shodhgangotri ETD portal
- Manpower Training: IRTPLA (INFLIBNET Regional Training Programme in the Library Automation), SOUL software, internet and e-journals and database
- Expertise on library automation: Information of grants for purchase of hardware/software useful for library automation
- INFLIBNET Newsletter, annual reports, conference notifications and consortia facility for sharing of resources
- Union Catalogues and Document Delivery Service
- N-LIST (National Library and Information Services Infrastructure for Scholarly Content) programme for affiliated colleges access to e-journals/e-books.

4.2.8 Provide details of the annual library budget and the amount spent for purchasing new books and journals.

Year	Library Budget	Amount Spent on Books and Journals
2009-2010	47.74	17.08
2010-2011	51.29	22.60
2011-2012	86.01	61.35*
2012-2013	60.87	19.97
2013-2014	62.87	53.64

Annual Budget of Library (Rs. in Lakhs)

* Advance payment for the year 2012-13 was made on account of the subscription of online journals and database.

4.2.9 What initiatives has the University taken to make the library a 'happening place' on campus?

Initiatives:

- Beautification and gardening around the library building
- Designing a separate longue area for the students near the front side of the library for group discussion, gathering, *Vachan Katta*.
- Organization of 'Granthmohatsava' annual book fair exhibition and 'Granth-Dindi'
- Exhibition of books and other reading material on important days such as Science Day.
- Periodic arrangement of awareness programs/training programs/ workshops/seminars on information products and services for the knowledge of latest happenings in the field.
- Academic Resource Centre

4.2.10 What are the strategies used by the library to collect feedback from its users? How is the feedback analysed and used for the improvement of the library services?

The strategies used for the improvement of the library services go on the following lines

- Online submission of student feedback form by all the students.
- Suggestion Box
- Maintenance of the claim record of most frequently read books
- Submission of queries/problems of users to the Librarian through 'Ask a Librarian' menu.

The feedback collected from these sources is analysed in categories such as service, holdings, interpersonal communication and other such matters. Then it is placed before the library committee for necessary further action. It is observed that readers at times make useful suggestions for improvement in library services.

4.2.11 List the efforts made towards the infrastructural development of the library in the last four years.

The efforts made towards the infrastructural development of the library in the last four years are mentioned below:

- Electronic Theses and Dissertations (ETD) laboratory
- Academic Resource Centre
- Construction of new library building G+1 capacity of 3,274.68 sqm. area is in progress of which ground floor of 1836.43 sqm., costing Rs. 3.76 crores is at completion stage and construction of first floor of 1438.35 sqm., costing Rs. 1.9 crores are in progress.
- Additional LAN to provide connectivity in various sections of the library.
- Installation of Surveillance System.

4.3 IT Infrastructure

The IT has appeared in all the walks of academic as well as administrative spheres in the University. IT services like web surfing, website, webmail, online web applications are extensively used by 1700+ users on the campus. The website and web apps serve the student community, affiliated colleges and other stakeholders. The Data Centre was activated in May, 2012. It is equipped with IBM blade server solution, IBM SAN with storage capacity of 4TB and the visualization software VM Ware. Other civil amenities established for the Data Centre include precision air conditioners, uninterrupted power supply, diesel generator, and fire alarm and IP cameras for surveillance. The campus has been networked by fiber optics backbone using CAT-6 cable. A 20 MBPS leased line from BSNL provides the internet connectivity to the campus. The University has also been provided with 1 GBPS internet connectivity from the National Knowledge Network.

The following ICT initiatives are planned and will be operational in near future:

- Smart Classroom in every Department (partially completed).
- Ladies and Gents hostels equipped with internet connectivity (completed)
- Wi-Fi enabled Campus.
- Web enabled Soft Radio and Announcement System.
- IP phones for the campus.
- CCTV enabled surveillance system (partially completed)
- Institutional Repository of teaching material on the website.
- Portal hosting the resume of students.
- Web enabled event management system

• Interactive Voice Response System for dissemination of important information.

4.3.1 Does the University have a comprehensive IT policy with regard to-

• IT Service Management

The University has an elaborate and comprehensive policy to bring about revolutionary changes in knowledge management in the University and administrative departments. It has established a full-fledged Computer Centre for this purpose. This is an in-house mechanism for servicing the IT infrastructure in the most cost effective manner. A webmail service is being provided to all faculty and the administrative staff.

• Information Security

A backup system is maintained for the sensitive databases such as finance and examination by using portable hard disks. A Disaster Recovery Centre will be soon established in collaboration with North Maharashtra University, Jalgaon and Solapur University, Solapur. IT audit of the University is in process.

• Network Security

The University Data Centre has been protected by the 'Watch Guard' firewall. Smoke detectors are installed in the Data Centre. The Virtual Local Area Networks (VLANs) have been created to enhance the security of the entire network. CCTV surveillance both analog and digital systems have been deployed at various points of the University campus.

• Risk Management

There is a comprehensive insurance covered for all the IT equipments with the New India Assurance Company Ltd. The fire insurance is covered by the Directorate of Insurance, Maharashtra State, Mumbai. The virtualization implemented in the blade server setup helps in mitigating the risk due to failure.

• Software Asset Management

The University has implemented a unique policy of sending the software hosted on various servers spread over the campus to the blade servers placed in the Data Centre. The cost effectiveness is achieved towards the air conditioning, maintenance along with the inherent compatibility of the modules by hosting them at one place.

• Open Source Resources

The University has a policy to promote Free Open Source Software (FOSS) wherever possible. This is being done with the help of an apex institution from the Anna University, Chennai. The FOSS software such as MOODLE, Greenstone and D-Space has been promoted at different places. The *Centre for Maratha History* uses an open source software D-Space for

building their repository. The DNS and Oracle servers have Linux- the Free Open Source Operating System.

• Green Computing

The migration of the servers scattered around the campus to the Data Centre has resulted in significant saving in terms of power, air conditioning and has enhanced the initiatives towards the green computing. The virtualization implemented on the servers effectively balances the processor load thereby optimizing the throughput at minimal power. Departments of Electronics and Computer Science are now promoting cluster computing which is yet another initiative towards green computing. Department of Electronics has recently conducted a workshop on LED based Lighting Sources for spreading awareness amongst the school students so as to inculcate the green computing mindset.

4.3.2 Give details of the University's computing facilities i.e., hardware and software.

- Number of systems with individual configurations
- Computer-student ratio
- Dedicated computing facilities
- LAN facility
- Proprietary software

The details of computing facilities, hardware and software in the University data centre and campus are as under:

Sr. No.	Particulars	Number
1	Number of systems with	Desktop : 1506
	individual configurations	Laptops : 229
		Servers : 14
		Blade Server: IBM 14 Blade server
		chassis with 10 blades active.
2	Computer-student ratio	1:3
	(1506 computers:4,980	
	students)	
3	Dedicated computing	• 24x7 Internet facilities at each
	facilities	department.
		• 80 nodes at Library Internet hall.
4	LAN facility	Available
5	Proprietary software	• Operating system license copy to
		all desktops, laptops and servers.
		• Ms-Office version 7/10, Oracle,
		VM ware, Visual Studio 2010, SPSS,
		MatLab etc.
6	Number of nodes / computers	2535. All nodes are connected with
	with internet facility	internet facility.

- Any other (please specify)
 - Specified Wi-Fi enabled premises
 - Enhanced use of social networking tools for research purpose (e.g. ResearchGate and Google Scholar)
 - Extensive use of Google Apps.
 - Intranet enabled resource sharing and governance.

Installation and Commissioning of the Data Centre

The different sections have developed the ICT applications at distinct time lines. These comprise of servers at various locations, variety of old clientserver or web-based applications on dissimilar platforms and databases. ICT applications require support from a varied range of manpower and vendors. Therefore, it was desirable to consolidate the scattered infrastructure into a full-fledged Data Centre, with modular hardware with scalability, expandability and high availability.

Features of the Data Centre:

- IBM H Blade Chassis with 14 blade slots, populated with 10 No. of IBM HS22 Blade Servers, Intel Xeon Hex-Core CPU, RAM 4GB, onboard 146 GB SAS HDD
- Storage: IBM SAN Storage 9 TB Fiber Channel HDDs with 2TB free space
- Level III data centre having 99.99 % up time
- Network Equipment
- HP Make Multiservice Router, Watch Guard Make UTMs and HP Make Core Switch
- Virtualization software :VM Ware 5.1 virtualization Solution for hosting virtualized servers with platforms like Windows 2003, 2008, Linux

Details of the Data Centre commissioned at University:

- Precision Air Conditioners
- UPS 10 kVA
- DG set 40 kVA
- Raised flooring and false ceiling
- IP Camera for Surveillance
- Fire proof glass doors with Biometric Access Control
- Fire Alarm System
- Rodent Repellant System

Outcome of the Data Centre

The Examination Processing System (EPS) and all the network servers have been migrated on the blade servers. Very shortly, Finance and Accounts System (FAS) will be migrated. Recently, we have started experimenting on the High Performance Computing (HPC) using the resources of the Data Centre. Faculty members from the Department of Biotechnology/Bioinformatics have published their research findings in reputed international journals by using the Data Centre facility. The web services (with domain name http://apps.unishivaji.ac.in, http://online.shivajiuniversity.in) offered at various places are centrally regulated and monitored by the Data Centre. The University in fact is having its own Data Ware Housing facility which has saved the data transfer charges. This Data Centre is having ample space to be hired by others. The centre has saved sizable amount of infrastructural needs of ICT services.

Other ICT facilities include biometric attendance, video surveillance system, facility of video conferencing and live webcasting.

Digitization of the University record such as examination data since 1962 to 2001, minutes of the meetings of various authorities like Senate, Academic Council and Management Council are stored at the Data Centre.

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

There is a special technical committee comprising Director, Computer Centre, Coordinator of Internet Unit, Coordinator of Department of Computer Science and Head, Department of Electronics to plan the routine infrastructure facilities in the University. The requisitions from the departments are routinely scrutinized and validated by this committee. All such requirements are pooled together, holistic policy of the University is adopted and accordingly the annual rate contract is done in order to ensure cost effective procurements of items and services. A state-of-the-art data centre has been commissioned in the assessment period by taking help of experts from neighboring Universities. The President of the IT Association, Kolhapur is representative of the IT Committee of the University. The IT gaps between the University and Industry are identified through the project work, internship, summer placements, University Industry Interaction Cell and Alumni. The gaps in the curriculum pertaining to industrial requirements are identified by interaction with NASSCOM.

The outdated machines are replaced by the machines having new configuration. Obsolete software are removed from the server and replaced by the updated. The software audit is conducted.

- 4.3.4 Give details on access to on-line teaching and learning resources and other knowledge and information database/packages provided to the staff and students for quality teaching, learning and research.
- On-line teaching and learning resources
 - Interactive white boards

- Virtual classroom facility for the important A-VIEW lectures under National Mission for Education using ICT, Planning Commission and other occasional conferences/lectures.
- Provision of the online project testing facility for campus students
- Provision of laptops to permanent faculty members and some research students
- Provision of podiums and LCDs in the departmental classrooms
- Seven sets of video conferencing units
- Internet lease line connectivity of 20 MBPS from BSNL and 1 GBPS under National Knowledge Network (NKN) Project
- Software like MOODLE, MS-Office, Amber and Gromacs.

Other knowledge and information database/package

- ➢ Oracle 11 g-database
- HP Network Management Solution
- Provision of downloadable online Self Instructional Material (SIM) for the courses in Distance Education Centre
- > Online E-journals, E-books under UGC INFONET
- E-tendering facility

4.3.5 How does the University address issues such as authenticity and copyright with regard to online resources that lie outside the University?

The Intellectual Property Right (IPR) Committee comprising of faculty members and external experts including a copyright attorney is looking after the copyright, patent, authenticity and plagiarism issues pertaining to the scholarly resources. Individual researchers and the faculty check the extent of the plagiarism through search engines such as Google, Grammarly.com.

4.3.6 What are the new technologies deployed by the University in enhancing student learning and evaluation during the last four years and how do they meet new / future challenges?

Initiatives for extensive use of ICT for enhancing student learning:

The initiatives mentioned below give an overview of the extensive use of ICT for enhancing student learning:

- Organization of webinar, interviews by video-conference under NKN Project
- Implementation of Smart Class Room project
- Webmail service for faculty, administrative staff of the University, Principals of the Engineering colleges and Deans of faculties
- Campus networking under NME-ICT Project of MHRD, New Delhi. The campus has been covered by fiber optics backbone (17 km Optical Fiber cable with 2532 network points) with the departments internally covered by using CAT-6 cable.

- 175 affiliated colleges covered under NME-ICT scheme.
- A 20 MBPS leased line from BSNL provides the internet connectivity to campus. The University has also been provided with 1 GBPS internet connectivity from National Knowledge Network.
- Revised version of University website with advanced features
- Online students feedback system
- Online Alumni registration facility on website
- Online Placement activities for students from Placement Cell.

Technology enabled Evaluation:

The University conducts around 250 examinations per semester with the help of approximately 2,000 paper setters and 3,000 question papers set by them. The examination section is housed in two spacious buildings and both of them are under the CCTV surveillance. Following are the best practices followed by the examination section:

An ICT based *end to end* solution for automating the examination processes has been activated through Maharashtra Knowledge Corporation Ltd. (MKCL), Pune. This ensures managing quite a number of examinations with secrecy and timely declaration of results.

The above referred system is equipped for facilitating the various aspects of the examination system mentioned below:

- Student Registration to issuance of Hall Ticket
- Question Bank/ Question Paper Bank Generation
- Secured Delivery of Question Papers
- OMR and barcode technology in Answer Sheets
- Results processing and declaration on website
- Online application for revaluation
- Conducting on-line examination for selected academic programmes
- Meetings through video-conferencing

4.3.7 What are the IT facilities available to individual teachers for effective teaching and quality research?

Following IT facilities are made available by the University:

- Laptop/PC along with internet connectivity
- Institutional webmail ID for every faculty member for *Research Gate* registration
- Computerized book circulation facility with smart identity card
- E-access of library resources on 24x7 basis
- Academic Resource Centre
- Writing Laboratory

4.3.8 Give details of ICT-enabled classrooms/learning spaces available within the University? How are they utilized for enhancing the quality of teaching and learning?

There are 26 interactive white boards installed in the traditional classrooms with the capacity of 60 students each with recording facility on the laptops. It can be used by the students *anytime and anywhere*. All boys and girls Hostels have the access of internet facilities for 24x7. Majority of the departments have their own independent computer labs such as: Economics, Commerce and Management, MBA Unit, YCSRD, Sociology, Hindi, English, Computer Science, Technology, Chemistry, Statistics, Mathematics, Geography, Education, Marathi, Foreign Language, Zoology, Environmental Science, Journalism, Physics, Biochemistry biotechnology, Internet, Ladies Hostel, Boys Hostel and Vidhyarthi Bhavan. The Library Internet Hall with a capacity of 80 nodes is available for 18 hours which is used for online examination, training the students, teachers and staff, and conduct of some workshops.

4.3.9 How are the faculty assisted in preparing computer- aided teaching-learning materials? What are the facilities available in the University for such initiatives?

The following ICT tools are made available for preparing the computer aided teaching-learning resources:

- PPT presentation in the classrooms
- Use of web resources
- Limited use of video conferencing
- Limited use of interactive boards
- Webinars
- Webcasting of lectures
- Projection of online lectures and dramatic performances
- IT based training to the teachers and students under the MoU with Intel Technology Pvt. Ltd., Mumbai
- Academic Resource Centre and Writing Laboratory
- Information Literacy Workshops through Library
- Assessment/review of the learned works and dissertations
- Computer Centre and Internet Unit help the faculty in ICT based teaching learning.

4.3.10 How are the computers and their accessories maintained?

University ensures three year comprehensive warranty for every newly purchased computers, laptops, servers and UPS. The University has in-house mechanism to maintain and repair computers, laptops, servers and UPS by the technicians (Three) of the Computer Centre since 2006. This saves Rs. 20 lakh per year. University Science Instrumentation Centre (USIC) maintains and repairs the printers.

Thus, the University has its own mechanism for the maintenance of ICT equipments.

4.3.11 Does the University avail of the National Knowledge Network connectivity? If so, what are the services availed of?

Yes, the University has been granted the National Knowledge Network (NKN) connectivity of 1 GBPS. It is significant to note that Shivaji University is amongst the few selected ones (by the Planning Commission and MHRD) to participate in the interactive webinars. Under this 175 affiliated colleges have been connected.

The national level lecture series conducted by the NKN and Planning Commission is available by way of video-conference for the benefit of the students and faculty.

4.3.12 Does the University avail of web resources such as Wikipedia, dictionary and other education enhancing resources? What are its policies in this regard?

Yes, since the web resources are openly available, individual faculty and the academic departments use the academic web resources pertaining to the academic purpose. Recently, the University has appointed a committee to determine the IT policies of the University.

4.3.13 Provide details on the provision made in the annual budget for the update, deployment and maintenance of computers in the University.

Every department has a provision of budget comprising of recurring and non-recurring items. The non-recurring items include purchase of computers and peripherals and purchase of equipments. Under this head University has purchased 630 computers and its peripherals worth Rs. 2,51,42,751 during the assessment period. The maintenance and the repairing costs are credited to University Computer Centre.

Year	No. of items repaired				Revenue	Amount spent on
	Desk-	Laptops/	On-	Off-	from annual	the purchase of
	tops	servers	line	line	maintenance	computers and its
			UPS	UPS	contract	peripherals (in Rs.)
					(AMC)	
					(in Ks.)	
2009-10	475	09	56	475	11,08,027	32,74,305
2010-11	698	21	66	473	15,44,996	59,23,316
2011-12	982	44	62	491	17,69,467	57,56,861
2012-13	969	61	61	491	17,75,799	59,75,958
2013-14	1045	76	63	584	18,56,824	42,12,313

4.3.14 What plans have been envisioned for the gradual transfer of teaching and learning from closed University information network to open environment?

University selectively provides access to its scholarly material from intranet to extranet. The University is now shifting to the Massive Online Open Courses (MOOCs). Some IT platforms like Open Education Resource (OER), National Programme on Technology Enhanced Learning (NPTEL) and extensive use of NME-ICT are operative.

The University plans to adopt Mobile Learning, Podcasting, virtual laboratory and classrooms, and tab-based virtual environment to deliberate in an open environment. The University has planned to convert some of the conventional courses into online courses. The University is further planning to incorporate certain online courses into existing mechanism through Choice Based Credit System.

The faculty members are encouraged to publish their research work in open access journals so as to reach the intended audience. The faculty is using the Research Gate facility to enhance their research visibility.

4.4 Maintenance of Campus Facilities

4.4.1 Does the University have an estate office / designated officer for overseeing the maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.

Yes, the University has Engineering Section which looks after estate management. A qualified designated officer (Civil Engineer) of the Deputy Registrar rank is working. He is supported with qualified electrical engineer and other necessary skilled staff.

Following specific initiatives have undertaken to improve the physical ambience:

- Students Facilities Centre
- Recreation hall near boys hostel
- Renovation of the old buildings
- Landscaping
- Construction and maintenance of auditoria
- Campus beautification
- Service road

4.4.2 How are the infrastructure facilities, services and equipments maintained? Give details.

The infrastructural facilities are maintained by the Estate Office under the guidance of Building and Works Committee. Certain works and services are outsourced by open e-tendering. The committee periodically visits the campus and prepares programme of maintenance as per the necessity so as to keep the infrastructure in order.

The Engineering Section looks after the normal repairs and maintenance and services to keep the systems in safe and operating conditions. The Section is provided with masons, plumbers, carpenters and other required human resource who take care of minor maintenance. The major maintenance and repairs done by the section includes utility services and their distribution, exterior lighting on the roads and walkways and basic building systems including electrical, water, sewage, natural gas, HVAC, air conditioning, and elevator systems, teaching aids (e.g. ensures supply and reliability of connected utilities for proper operation), security alarm system, specialty lighting system, autoclaves, freezers, projectors, screens, and other research related equipments in the Departments. The electronic gadgets, PCs, laptops, printers and such other electronic equipments are maintained by the Computer Centre. AMCs are signed for certain instruments. USIC also provides its services to all the departments to maintain certain equipments with technical staff. In addition to this, some departments like Physics and Chemistry have their own workshops to maintain their equipments and instruments and also provide services to others on hiring basis.



Hon'ble Chancellor Shri Kateekal Sankaranarayanan



Granthdindi on the occasion of Annual Convocation



Sam Pitroda and Y. K. Alagh on the Annual Convocation -2013.



Hon'ble Shrinivas Patil, Governor of Sikkm on the Annual Convocation -2014.



Youth Festival: Cultural Programme



Indradhanushya Inter University state level Cultural Competition 1st prize for folk dance & folk Orchestra


Cultural Programme of the Administrative Staff



Cultural Programme of the Administrative Staff

CRITERION V : STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

5.1.1 Does the university have a system for student support and mentoring? If yes, what are its structural and functional characteristics?

Yes, the University has well developed mechanism for student support and mentoring in the form of the following:

- 1. Earn and Learn Scheme
- 2. Work on Demand/Work as per Need Scheme
- 3. Fully catered hostel facilities
- 4. Central Library
- 5. Study Centre
- 6. Students Welfare
- 7. Personal and Academic Counseling
- 8. Students Facilitation Centre
- 9. University Merit Scholarships
- 10. Students' Aid Fund
- 11. Endowment Awards for meritorious students.
- 12. Students Mentoring
- 13. Placement cell
- 14. Health centre

Following are the main students support schemes implemented:

1) Earn and Learn Scheme:

This scheme, introduced in 1968, has been effectively implemented for the low income group of students. The students admitted to the scheme are provided free fully catered hostel facilities along with medical help and full concession in tuition and examination fees. The expenses of the scheme are met from the University budget. The intake under the scheme is 100 male and 50 female students per year.

2) Work on Demand/Work as per Need Scheme:

The 'Work on Demand' scheme was introduced in 2005-06, now renamed as "Work as per Need Scheme" since 2011 for all categories of students.

3) Fully catered Hostel Facilities:

The University has five fully furnished and spacious hostels for boys and four for girls. Accommodation is provided to 2075 students.

4) Central Library :

The University library caters to the academic needs of students, faculty and other user groups of the University and visitors from other universities and institutes too. The library has over 3.1 lakhs printed documents and it subscribes to over 300 national and international journals. Library is also a member of UGC/INFONET Digital Library consortium of INFLIBNET, under which it has access to over 6000+ electronic journals and few electronic databases.

5) Study Centre:

The University Study Centre was established to provide reading facilities to affiliated college undergraduate students in Kolhapur city and Post-Graduate Hostel students in the University Departments. The centre presently has 12,546 books in its collection and subscribes to 5 magazines and 2 daily newspapers.

6) Students Welfare :

The Director of Students Welfare acts as a driving force for the student and youth community to achieve their academic excellence. The DSW takes care of various issues such as counseling, training, government and non-government youth projects, university merit scholarships and cultural activities. Moreover, an insurance cover is provided to all students including affiliated colleges.

7) Personal and Academic Counseling:

The University Guidance and Counseling Cell helps the students through professional counselors at the time of admissions. Every department has a system for student support and mentoring. Two faculty members are assigned the responsibility of addressing the difficulties (personal and academic) of the students.

Counseling facility is provided through professional counselors as and when necessary. Difficulties of the students due to change in atmospheres, home sickness, health problem, financial constraints are addressed.

8) Students Facilitation Centre:

The Centre provides different documents needed by students at a single window and on the same day. Transfer certificate, migration certificate, statement of marks and such other documents are supplied to the students. Online requests from the students are also processed.

9) University Merit Scholarships:

The University has instituted 'Shivaji University Merit Scholarship Scheme' which offers around 500 scholarships to the meritorious students in the affiliated colleges and the University Departments every year. The scholarships are offered out of the interest of the corpus of rupees four crores specially created by the University for this purpose. Moreover, the University offers one Departmental Research Fellowship (DRF) to every department. It has been named Golden Jubilee Departmental Research Fellowship.

10) Students Aid Fund:

The scheme is implemented in the University Departments. The fund of Rs. one lakh per year is allotted to the University Departments in order to provide financial support to the poor students.

11) Endowment Awards:

The University offers endowment awards, prizes and medals at the time of the convocation ceremony. There are 19 such prestigious awards including the President of India's Gold Medal and Chancellor's Gold Medal.

12) Mentoring:

A students mentoring is in practice in the University Departments. Every teacher is assigned the work of looking after a group of students. Academic and personal difficulties of the students are taken care of by the mentors.

13) Students, Parents and Staff Insurance Scheme:

The students in the affiliated colleges and the University Departments are provided insurance through the insurance companies under the *Gurukul Parijan and Parijan Surksha Scheme*. The insurance covers the students, their parents and the staff (teaching and non-teaching). The students contribute Rs. 15/- at the time of admission and the staff pays the insurance premium of Rs. 11/- per year.

5.1.2 Apart from classroom interaction, what are the provisions available for academic mentoring?

Departments organize field tours and industrial visits. The students participate in conferences, workshops and seminars organized by the departments and at other places. Departments observe the World Environment Day, National Science Day, Ozone Depletion Day, Earth Day and Plantation Activity. The students have online access to the teachers for resolving their problems.

The University has been identified by the Central Government through National Knowledge Network under which a grant of Rs. 40 lakhs for campus networking is provided by National Mission on Education through ICT. Connectivity of 1 GBPS extendable up to 10 GBPS is provided by Central Government through BSNL. This has enabled the University to share information regarding academic, research and administrative matters with all the stakeholders. Several lectures through this programme were attended by the students. 5.1.3 Does the university have any personal enhancement and development schemes such as career counselling, soft skill development, career-path-identification, and orientation to well-being for its students? Give details of such schemes.

Yes, the University has following schemes for personal enhancement and development:

• Career and Counselling Cell:

The Cell is a source centre of information, guidance and counseling with internet facility. It supports the students in the development of soft skills and communication ability to challenge the rigors of competitive tests and on job training and tries to promote social values and capacity to think independently for carrying out social responsibilities.

• Centre for Community Development:

This centre conducts courses like Comprehensive Industrial and Business English Communication Skills, Spoken English and Fitness Training. These have proved very useful for enhancement of personal development of the students.

• Adult and Continuing Education and Extension Work:

The University has an independent department for Adult and Continuing Education and Extension Work which conducts various courses for personal enhancement and development such as Leadership and Human Resource Development, Skill Development, Individual Interest promotion, Personality Development Training and such other courses.

5.1.4 Does the university publish its updated prospectus and handbook annually? If yes, what are the main issues / activities / information included / provided to students through these documents? Is there a provision for online access?

Yes, the University updated Course Work Directory is made available for the graduate and post-graduate students. M. Phil. and Ph. D. prospectus are made available for research students every year. The Course Work Directory and Prospectus include updated information about courses, course structure, intake capacity, rules and regulations related to admissions, reservation, fee structure, online admission rules, schedule of Group Discussion and Personal Interview (selected courses), reporting of the discrepancies by the students and the facilities available in the University. Merit list and other admission procedures are notified on the website. There is an online access to these documents. 5.1.5 Specify the type and number of university scholarships / freeships given to the students during the last four years. Was financial aid given to them on time? Give details (in a tabular form) for the following categories: UG/PG/M.Phil/Ph.D./Diploma/others (please specify).

The following table indicates the types and number of University scholarships/freeships during the assessment period.

Sr.	Name of Scholarships	No	of Stud	Amount	
No.					(in Rs.)
		Boys	Girls	Total	
	2009-10				
1	General Merit	92	217	309	13,91,913
2	Economically Weaker Meritorious students	10	06	16	80,000
3	Meritorious Orphan Students Scholarship	1	6	7	35,000
4	Sport Scholarship	5	3	8	40,000
5	Physically Handicapped	1	4	5	25,000
			Total	345	14,99,913
	2010-11				
1	General Merit	131	324	455	21,35,497
2	Economically Weaker Meritorious students	6	9	15	75,000
3	Meritorious Orphan Students Scholarship	3	5	8	40,000
4	Sport Scholarship	5	3	8	40,000
5	Physically Handicapped	5	5	5	25,000
			Total	527	23,15,497
	2011-12				
1	General Merit	114	387	509	23,45,500
2	Economically Weaker Meritorious students	7	8	15	75,000
3	Meritorious Orphan Students Scholarship	1	4	5	25,000
4	Sport Scholarship	4	2	6	30,000
5	Physically Handicapped	0	5	5	25,000
			Total	540	25,00,500
	2012-13		-	-	
1	General Merit	218	284	502	21,33,000
2	Economically Weaker Meritorious students	06	-09	15	75,000
3	Meritorious Orphan Students Scholarship	0	06	06	30,000
4	Sport Scholarship	02	11	13	65,000
5	Physically Handicapped	03	04	07	35,000
			Total	543	23,38,000
	2013-14				
1	General Merit	161	324	485	29,45,000
2	Economically Weaker Meritorious students	05	10	15	75,000
3	Meritorious Orphan Students Scholarship	04	05	09	50,000
4	Sport Scholarship	01	06	07	35,000
5	Physically Handicapped	04	06	10	55,000
			Total	526	31 60 000

Sr.	Name of		Years								
No	the	20	09-10	20	10-11	20	11-12	20	12-13	201	3-14
	Scholarship	No.	Amount								
1.	Depart- mental Research Fellowship	04	132000	10	390000	08	368000				
2.	Golden Jubilee Research Fellowship							05	155000	12	792000

Financial Assistance for Ph. D. Students from University Funds

5.1.6 What percentage of students receive financial assistance from state government, central government and other national agencies (Kishore Vaigyanik Protsahan Yojana (KVPY), SN Bose Fellow, etc.)?

The following are the details of the Government assistance for the students :

1. The financial Assistance from state Government : 40% of total students

- i) Reserved category students Scholarship
- ii) Freeships Concession
- iii) P.T. Concession
- iv) E.B.C. Concession
- v) Secondary School Teacher Concession
- vi) Eklavya Financial Assistance Scheme
- vii) Daxina Adichhatravruti Scholarship
- viii) Differently abled students Scholarship
- ix) Ex-Serviceman Concession
- x) Other Scholarships/Freeships
- 2. Central Government
- : 3.1 % of total students
- 3. National agencies
- : 14% of the total students
- i) NET(JRF), UGC, New Delhi
- ii) Inspire Fellowship (DST)
- iii) Rajiv Gandhi National Fellowship
- iv) Moulana Azad National Fellowship
- v) CSIR Fellowships
- vi) ICSSR Fellowships
- vii) ICHR Fellowships

5.1.7 Does the university have an International Student Cell to attract foreign students and cater to their needs?

Yes, the University has taken various measures for the welfare of overseas students. University has set up International Cooperation Cell in March, 2011 to cater to the needs of higher education of foreign students. The Institute of Advanced Studies in English, Pune has signed a MoU with the University in this respect.

5.1.8 What types of support services are available for Overseas students:

All support services available for regular students are extended to overseas students, e.g., online (www.unishivaji.ac.in.) - registration, hall-ticket, examination time-table, seating arrangement, result, statement of marks, necessary information, guest house facility, health centre facility.

5.1.9 Does the university provide guidance and/or conduct coaching classes for students appearing for Civil Services, Defense Services, NET/SET and any other competitive examinations? If yes, what is the outcome?

Yes, the University has implemented Coaching Scheme for Entry into Services for Students. Every department conducts the coaching classes for NET/SET, GATE, BET, ICMR, IELTS, GRE, UPSC/MPSC, ISS, RBI, Pre-IAS examinations every year. Under this scheme various eminent scholars are invited for guidance. The number of students who qualified for various examinations is as follows:

Year	NET	SET	GATE	BET	ICMR	IELTS	GRE	MPSC	ISS	RBI
2009–10	58	72	05	-	-	-	-	02	01	
2010-11	73	53	10	-	01	01	-	02	01	01
2011-12	65	40	11	-	01	01	01	20	02	-
2012-13	72	73	20	-	01	-	-	-	-	01

5.1.9.1 Mention the policies of the university for enhancing student participation in sports and extracurricular activities through strategies / schemes such as

• Additional academic support and academic flexibility in examinations

The students who participate in sports and extracurricular activities are given special guidance by the faculty, their science practicals are adjusted in repetition batches, their internal and regular examinations, if missed due to sports or extra- curricular activities, are adjusted under flexible time table.

• Special dietary requirements, sports uniform and materials :

Students deputed for participation in various matches and other sports are paid TA/DA as per rules and additional allowance on the day of the match.

Sports blazer and uniform is provided to the students by the University. Sports materials are provided through the Sports Section for the students on the campus.

• Any other (please specify) -

The University encourages the students to participate in various extra-curricular activities like, nature visits, industrial visits, excursion, camouflage nature club, celebration of Environmental Day, bird watching activities etc. Sports related training camps are held through the Sport Section in the campus. The expert trainers and coaches are invited.

The students are encouraged to participate in 'Ashwamedh' activities (sponsored by the Chancellor of the University). Sports Section organizes more than 35 sports events under Intra and Inter-University Sports Scheme. The national sports events are also held at the request of the AIU.

Regular meetings of the University Board of Sports and Physical Culture are conducted to address various sports related issues. This Board nominates the team managers, coaches and guide for organization of the tournaments. Zonal Council, Committees and Sub-committees are also appointed by the Board.

5.1.10 Does the university have an institutionalized mechanism for students' placement? What are the services provided to help students identify job opportunities, prepare themselves for interview, and develop entrepreneurship skills?

Yes, the University has a mechanism for the student's placement which works under the Central Placement Officer. There are Departmental Placement Officers workings under the Placement Officer. The guidance for following services is provided to the students for their job opportunities:

1.	Preparation of resume	2.	Preparation for campus
			interviews
3.	Workshops for communication	4.	Workshops on career
	skills/ interview techniques		guidance
5.	Interaction with alumni	6.	Summer training

5.1.11 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus during the last four years

As many as 1515 students were selected by 31 companies during the assessment period. The details of the recruitments are as under:

Sr		No. of
SI.	Company name	students
INO.		selected
1.	Tata Consultancy Services (TCS-Mumbai)	450
2.	Persistant IT-Pune (three campus interviews)	84
3.	Koras Pharma India Ltd. Dombiwali	42
4.	Lupin Pharma, Tarapur	120
5.	Cipla, Goa and Navi Mumbai	110
6.	Dr. Reddy's Laboratory	25
7.	Brembo Breack, Chakan, Pune	40
8.	Glann Mark, Nashik	25
9.	Syngeta, Goa	15
10.	Rallys IT, Pune	60
11.	Wipro IT, Pune	50
12.	Infosys IT (BPO), Pune	200
13.	ICICI Bank, Mumbai	29
14.	Macleoid Phrma, Mumbai	42
15.	Cytel Statistical Software	15
16.	U. S Vitamin	20
17.	Esolve Softwere, Pune	18
18.	Mahindra Satyam IT, Pune	35
19.	Tata Chemicals Ltd, Pune	05
20.	Statistical Officer, M.P. S. C	25
21.	Metro Services, Pune	05
22.	Boss pump Ltd., Pune	10
23.	Ralysh Times Pvt. Ltd	15
24.	CCR , Pune	10
25.	Stratum, Kolhapur	10
26.	SEED, IT, Pune	15
27.	R & D Officer, Analytical Development, Mumbai	11
28.	E-solve Knowledge Service, Pune	10
29.	Panse Consultancy, Mumbai	08
30.	IIFL, IT, Pune	06
31.	Prinstine Environmental Solution,	05
	Tot	al 1515

5.1.12 Does the university have a registered Alumni Association? If yes, what are its activities and contributions to the development of the university?

Yes, the University has a registered Alumni Association named as Dr. Appasaheb Pawar Vidyarthi Prabodhini with Registration No. Maharashtra/23050/Kolhapur, dated 5th May, 2006. Every Department has its own Alumni Association. Alumni meetings are organized every year in the

month of November/December after personally contacting and inviting the alumni. The alumni share their experiences with the regular students and guide them for focusing their efforts towards getting better placement and career. It is observed that the alumni also play an important role in informing the availability of placement in their organizations where the students can apply.

5.1.13 Does the university have a student grievance redressal cell? Give details of the nature of grievances reported. How were they redressed?

Yes, the Department concerned looks after the student grievances and redressal. The personal complaints of the students are directed to the concerned Sections and Departments. The complaints regarding examinations are directed to the COE. Complaints related to policy matters are collectively decided through the concerned authorities, Sections and Officers of the University.

5.1.14 Does the university promote a gender-sensitive environment by (i) conducting gender related programmes (ii) establishing a cell and mechanism to deal with issues related to sexual harassment? Give details.

Yes, the University has a separate mechanism to conduct the gender related programmes through Centre for Women Studies. This centre conducts gender equality and sensitization programmes regularly. The University has a Committee known as "Prohibition of Sexual Harassment Committee" (currently renamed and reframed as "Internal Complaints Committee" as per Sexual Harassment of Women at Workplace (Prevention, Prohibition, Redressal) Act 2013 for addressing grievances on sexual harassment. The names of the committee members are displayed at every Department and Section of the university. The centre conducts programmes for the awareness regarding gender sensitization among students.

I) Conducting Gender Related Programmes :

The Centre for Women Studies periodically conducts gender audit on the campus. A number of awareness programmes are organized by the centre. The Centre provides gender sensitive counseling facility to students, faculty and non-teaching staff on the campus.

Gender Equality and Sensitization Measures on Campus:

- 1. Orientation lectures and department wise/faculty wise discussions to prevent sexual harassment on the campus.
- 2. Gender related course offered by the Women Studies Centre on campus. (Certificate Course in Prevention of Sexual Harassment at the Workplace)
- 3. Events and workshops for gender sensitivity training and pre-marital training for students, staff and faculty.
- 4. Awareness creation and gender sensitization is addressed to a variety of bodies, individuals and organizations such as:

- Rural and urban women and youth,
- NGO workers,
- Women from marginalized underprivileged sections,
- Slum dwellers ,
- Women's organizations,
- Mahila Mandals,
- Members of women's security cells in police stations,
- Members of sexual harassment prevention committees on the University campus and in affiliated colleges,
- Women's self-help groups,
- Elected women representatives and activists of political parties,
- Victims of commercial sexual exploitation,
- Women in Kolhapur leather industry and the like.

II) Establishing a cell and mechanism to deal with issues related to sexual harassment

As per the guidelines of the Supreme Court of India dated 19th January 2001 and Internal Complaints Committee as per the Sexual Harassment of Women at Workplace (Prevention, Prohibition, Redressal) Act 2013, the following committees have been formed to deal with the issues related to sexual harassment:

- 1. Prohibition of Sexual Harassment Cell at University level- An Apex Body.
- 2. Prohibition of Sexual Harassment Committee at Post Graduate Department level
- 3. Prohibition of Sexual Harassment Committee for Non-teaching Staff.
- 4. Prohibition of Sexual Harassment Committee for every affiliated College and Institutions.

The above committees 1 to 4 were operational till December, 2013. The new Committee as per Sexual Harassment of Women at Workplace (Prevention, Prohibition, and Redressal) Act 2013 is reframed as Internal Complaints Committee.

Mechanism to deal with the issue related to sexual harassment

- 1. The University appoints the above mentioned first three Committees every five years and instructs the affiliated colleges for appointment of such committees at the college level.
- 2. The students are informed about the procedure of the committee.
- 3. The number of meetings and the cases resolved during the assessment period:

a)	Number of Apex committee meetings	: 30
	Number of cases attended and resolved	:01
1. \	Number of months and filler of multiple of the DC local	. 11

b) Number of meetings of the committee at the PG level : 41

	Cases decided upon	: 03
	Cases resolved	: 02
c)	Number of the Committee meeting for Non-teaching	: 93
,	Number of cases attended	: 01

5.1.15 Is there an anti-ragging committee? How many instances, if any, have been reported during the last four years and what action has been taken in these cases?

Yes, Anti-ragging Committee is formed as per the U.G.C. guidelines. The students at the entry level sign an affidavit and submit to the University about non- involvement in ragging activities. The University has appointed the following three committees for prevention of ragging on the campus.

- 1. Anti-Ragging Committee and Squads for Boys and Ladies Hostels.
- 2. Anti-ragging Monitoring Cell for the University Campus.
- 3. Anti-ragging Committee and Squads

No ragging cases have been reported during the assessment period.

5.1.16 How does the university elicit the cooperation of all its stakeholders to ensure the overall development of its students?

Departments conduct parents' meets along with alumni meets wherein the expectations of these stakeholders are discussed and suggestions are requested from them to improve the Departmental activities. The suggestions are communicated to the respective bodies of the University.

The critical comments on the University functioning published in the newspapers are seriously attended by the University authorities. Very frequently the students unions and forums place their charter of demands and queries related to their academic problems to the Vice-Chancellor.

Similarly, other bodies and NGOs also communicate their views about higher education and the role of University in solving the problems therein.

The University in collaboration with Zee-TV organizes direct live telecast on the horizons of all levels of education. Various stakeholders participate in the live telecast.

5.1.17 How does the university ensure the participation of women students in intra- and inter-institutional sports competitions and cultural activities? Provide details of sports and cultural activities where such efforts were made.

The women students are encouraged to participate in sports competition, cultural activities at the time of 'Youth Festival' and also at the time of Welcome and Farewell functions in the departments.

All department students actively take part in the sports events, cultural activities, science exhibitions sponsored by University and Government. The women students residing in the hostels of university actively take part in various cultural activities at the Annual Hostel Day celebrations.

The Departments of Biotechnology, Biochemistry, Environmental Biotechnology and Microbiology annually organize a week long common sports event i.e. *Horizontal Mobility (H.M.) Cup Cricket Tournaments*, in which all women students actively participate.

Following are some of the examples of women student achievements in the sports activities:

- a) Smt. Jayshri S. Borgi obtained two Gold Medal in 1500 metre and 5000 metres running competitions for Ladies, Silver Medal in Relay (4 x 400 mt) and Bronze Medal in Relay (4 x 100mt) in 13th Mahrashtra Inter University Sports Meet, Dapoli (Ashwamedh, 2009).
- b) Shivaji University stood First in the All India Inter University Kabaddi Competitions (Women) held at Dr. Y. S. University of Horticulture and Forestry, Solen (2009-10). The player of Shivaji University, Aruna Sawant got the prize of Excellent Attacker in this match. Stood First in West Zone Inter University Kabaddi Women Tournament held at R T M Nagour University 2012-13
- c) Shivaji University stood first in Football Tournament West Zone Inter University Women Tournament held at Shivaji University 2012-13 and qualified for All India Inter University Foot ball Tournament.
- d) Shivaji University stood First in the All India Inter University Rope Malakhamb Competitions (Women) 2010-11, 2011-12 and 2012-13 held at Panjabi University, Patiala, Guru Nanak Dev University Amritsar and Kurukshetra University respectively.
- e) Shivaji University stood third in the All India Inter University Cross Country Competitions (Women) 2011-12 held at M. D. University, Rohtak.
- f) Shivaji University stood First in the West Zone Inter University Table Tennis Competitions (Women) 2012-13 held at Maharaja Sayajirao University, Baroda, Vadodara.

5.2 Student Progression

5.2.1 What is the student strength of the university for the current academic year? Analyze the Programme-wise data and provide the trends for the last four years.

The student strength of the University for the Current Academic Year 2013-2014 is as under:

|--|

Year	Admissions	M.Phil	Ph.D.	PDF
	(MA, M.Sc.,	Admissions	Admissions	
	M.Com. &			
	M.Tech.)			
2013-14	4831	308	870	-

Science Subjects

Year	M.Sc.	M.Phil	Ph.D.	-
	Admissions	Admissions	Admissions	
2009-10	1782	37	47	1
2010-11	1856	14	147	1
2011-12	1909	21	140	1
2012-13	1762	25	95	1
2013-14	1822	85	234	1

Arts and Fine Arts, Social Science

Year	M.A./M.P.A	M.Phil	Ph.D.	PDF
	Admissions	Admissions	Admissions	
2009-10	936	36	12	-
2010-11	873	13	16	-
2011-12	771	23	09	-
2012-13	1044	39	08	-
2013-14	1030	132	343	-

Commerce and Management

Year	M.Com./M.C.A.	M.Phil	Ph.D.	PDF
	/ M.B.A.	Admissions	Admissions	
	Admissions			
2009-10	286	19	03	-
2010-11	395	02	06	-
2011-12	307	13	05	-
2012-13	399	22	05	-
2013-14	402	86	205	-

Education

Year	M. Ed.	M.Phil	Ph.D.	PDF
	Admissions	Admissions	Admissions	
2009-10	49	16	15	-
2010-11	60	09	15	-
2011-12	70	10	60	-
2012-13	57	17	73	-
2013-14	55	05	51	-

Engineering

Year	B.Tech./M.Tech.	M.Phil	Ph.D.	PDF
	Admissions	Admissions	Admissions	
2009-10	606	-	5	-
2010-11	916	-	-	-
2011-12	1001	-	-	-
2012-13	1266	-	-	-
2013-14	1522	-	37	-

5.2.2	What is the programme-wise completion rate during the time
	span stipulated by the university?

Course	Years	Success rate
UG	Four Years	98%
PG	Two Years	93%
M. Phil	Two Years	50 %
Ph. D	Two Years	10 %

5.2.3 What is the number and percentage of students who appeared/qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.?

Year	NET	SET	GATE	BET	ICMR	IELTS	GRE	MPSC	ISS	RBI
2009–10	58	72	05	-	-	-	-	02	01	
2010-11	73	53	10	-	01	01	-	02	01	01
2011-12	65	40	11	-	01	01	01	20	02	-
2012-13	72	73	20	-	01	-	-	-	-	01

- 5.2.4 Provide category-wise details regarding the number of Ph.D./D.Litt./D.Sc. theses submitted/ accepted/ resubmitted/ rejected in the last four years.
- 1) Ph. D. Thesis:

Category	Theses	Academic Year					
		2009-10	2010-11	2011-12	2012-13		
	Submitted	113	116	77	107		
OPEN	Accepted	111	115	77	107		
	Resubmitted	02	01	-	-		
	Rejected	-	-	-	-		
SC	Submitted	32	26	15	30		
	Accepted	32	26	13	30		
	Resubmitted	-	-	02	-		
	Rejected	-	-	-	-		
ST	Submitted	01	-	02	01		

	Accepted	01	-	02	01
	Resubmitted	-	-	-	-
	Rejected	-	-	-	-
OBC	Submitted	12	09	06	11
	Accepted	12	09	06	11
	Resubmitted	-	-	-	-
	Rejected	-	-	-	-
NT	Submitted	17	14	08	09
	Accepted	17	14	08	09
	Resubmitted	-	-	-	-
	Rejected	-	-	-	-

5.3 Student Participation and Activities

5.3.1 List the range of sports, cultural and extracurricular activities available to students. Furnish the programme calendar and provide details of students' participation.

Sport Programme Calendar -

Sr.	Events/	Inter-Zonal	Zone to	Date of the	Venue of	Date of	No. of
No	Games	Organising	Comp-	Inter-	the West	Commenceme	Stud-
		College	lete their	Zonal	Zone Inter	nt & Venue of	ents
		_	Tourna-	Tourna-	University	All India	participa
			ment	ments	Tourna-	Inter-	ted in
			(Before)		ments	University	Inter-
						Tournaments	Univer-
							sity
							Tourna-
							ments
1	Kho- Kho-	Balwant	31 Aug-	2 to 4	Guj Univ.	14-10-2013	12
	(W)	College, Vita	13	Sep-13	A'bad	Manglore	
2	Cross-	Dr. Ghali	*	7 Sept-13	-	7-10-2013	15
	Country	College,				Rajasthan	
	(M&W)	Gadhinglaj				Vidvapeeth	
	× ,	6 5				Udaipur	
3	Tennis	K.I.T.	*	10 to 11	-	-	03
	(M)	College.		Sep-13			
	()	Kolhanur		~·r			
4	Tennis	KIT	*	10 to 11	MS	18-11-2013	04
	(W)	College		Sep-13	Nasik	M C Nasik	• •
	(")	Kolhanur		50p 15	1 (usik	WI.C. Husik	
5	Easthall	Arts and	7 San	10 ± 12	MI	28 10 2012	20
3	rootball	Arts and	/ Sep-	10 10 12	VI.L.	28-10-2015	20
	(M)	Commerce	13	Sep-13	Suknadia,	M.G.U.	
		College,			Udaipur	Kottayam	
L		Satara					
6	Swimm-	T.K.I.E.T.	10 Sep-	14 to 16	Direct all	10-10-2013	15
	ing	Warananagar	13	Sep-13	India	V. T. U	
	(M&W)					Belgaum	
						-	

	~1	~ ~	~				
7	Chess	Smt. M. G.	14 Sep-	17 to 19	M.P.K.	28-10-2013	06
	(M&W)	Kanya Maha.,	13	Sep-13	Rahuri	M.P.K	
		Sangli		_		Vidyapeeth	
		C				Rahuri	
8	Basketball	Y C Warana	17 Sep-	20 to 21	Univ of	21-10-2013	12
Ũ	(M)	Maha	13	Sep-13	Rai Jainur	BHU	
	(111)	Warananagar	15	5 c p 15	ituj: suipui	Varanasi	
0	Kho Kho	Shri VV	25 Son	28 to 30	Dr B A		12
2	(M)	Arto &	23 Sep-	20 10 30 Son 13	Unversity	10-2-2014 Karala	12
		Alts &	15	Sep-15	Aurasahad	Kelala University	
		Science			Auragabad	University	
		College,					
		Pethvadgaon					
10	Volleyball	Deshbhakt	25 Sep-	28 to 29	Univ. of	9-12-2013	12
	(W)	A.B. Naik	13	Sep-13	Raj. Jaipur	S.R.M	
		College,				Chennai	
		Chikhali					
11	Cricket	Arts and	*	30 Sep to	VNS,	28-10-2013	16
	(W)	Commerce		2 Oct-13	Gujarat	V.B.S	
		College,				Purvanchal	
		Satara					
12	Volleyball	Shahajiraje	1 Oct-	3 to 4	Shivaji	18-11-2013	12
	സ്	Maha.	13	Oct-13	Univ	Shivaii	
	()	Khatay			Kolhapur	University	
13	Cricket	Mahaveer	1 Oct-	4 to 9	S P	18-11-2013	16
10	(M)	College	13	Oct-13	Vidvanaga	UT	10
	(111)	Kolhanur	15	00015	r	Uttarakhand	
14	Hockey	Sanieevan	*	7 to 9	Direct all	7_11_2013	18
17	(M)	Enga &		$\int t dt d$	India	7-11-2015 Shri	10
	(141)	Tooh Inst		001-15	mula	Silli Krispadavara	
		Developite				KIISIlauevala	
1.5	D 1 1 11	Pannala	240	10 / 11	TT NT /1	ya Anantapur	10
15	Basketball	Y.C. Inst. Of	*	10 to 11	H. North	21-11-2013	12
	(W)	Science,		Oct-13	Gujrat	N.I.K.	
		Satara				Vijaywada	
16	Gymnastic	Y.C. Warana	*	14 Oct-13	Direct all	10-11-2013	04
	s (M&W)	Maha.Warana			India	Kurukshetra	
		nagar					
17	Mallkham	Y.C. Warana	*	15 to 16	Direct all	10-11-2013	10
	b (M&W)	Maha.		Oct-13	India	Kurukshetra	
		Warananagar					
18	Softball	Venutai	*	17 to 18	Direct all	9-11-2013	15
	(M)	Chavan		Oct-13	India	A.N. Guntur	
		College,					
		Karad					
19	Badminto	RIT.	15 Oct-	19 to 20	RTU.	18-11-2013	10
	n (M&W)	Sakharale	13	Oct-13	Kota	KIIT	
		~ annu uiv				Univ	
						Bhubane-	
						shwar	
1	1	1	1	1	1	SIIWal	

20	Kabaddi (M)	Arts and Commerce	15 Oct- 13	19 to 20 Oct-13	Univ. of Mumbai	9-12-2013 Mumbai	12
		Kasegaon					
21	Softball (W)	Mahaveer College, Kolhapur	*	21 to 22 Oct-13	Direct all India	9-11-2013 A.N. Guntur	15
22	Kabaddi (W)	Y.C. Warana Mahavidyalay a, Warananagar	20 Oct- 13	23 to 25 Oct-13	Pune Vidyapeet h	25-11-2013 D.R.Y.S. Parmar Salon	12
23	Handball (W)	New College, Kolhapur	*	26 to 27 Oct-13	Rajsthan Jaipur	2-12-2013 Rajsthan Jaipur	16
24	Athletics (M&W)	B.P. Ed. College, Miraj	25 Oct- 13	29 to 31 Oct-13	Direct all India	23-12-2013 Punjabi Patiala	12
25	Handball (M)	Shri. V.Y. Arts & Science College, Pethvadgaon	5 Nov- 13	8 to 9 Nov-13	Rajsthan Jaipur	2-12-2013 Rajsthan Jaipur	16
26	Taekwond o (M&W)	S.B. Khade College, Koparde	*	08 to 09 Nov-13	Direct all India	9-12-2013 Satyabama University	16
27	Fencing (M&W)	Arts. Commerce College, Kasegaon	*	10 to11 Nov-13	Direct all India	3-12-2013 Punjab Uni. Patiala	16
28	Football (W)	Shivraj College, Gadhinglaj	*	11 to 12 Nov-13	Banasthli Vidyapeet h	2-12-2013 G.J. Hisar	20
29	Hockey (W)	Sanjeevan Engg. & Technology Inst. Panhala	*	11 to 12 Nov-13	Direct all India	2-12-2013 Kurukshetra University	18
30	Wrestling (M&W*)	T.K.I.E.T. Warananagar	8 Nov- 13 W*	11 to 13 Nov-13	Direct all India	2-12-2013 C.C.S Meerut	14
31	Table- Tennis (M&W)	D.B.R.K. College, Kolhapur	11 Nov- 13	14 to 16 Nov-13	BAMU, Auragabad	2-12-2013 Calcutta	10
32	Shooting (M&W)	Night College, Kolhapur	*	16 to 18 Dec-13	Direct all India	20-1-2014 Panjab Chandigarh	15
33	Judo (M&W)	RIT, Sakharale	*	23 to 24 Dec-13	Direct all India	27-1-2014 G.N.D.U. Amritsar	16

34	Cycling (M)	Deshbhakt A.B. Naik College, Chikhali	*	28 Dec- 13	Direct all India	27-1-2014 Panjab Patiala	06
35	Archery (M&W)	Jaysingpur College, Jaysingpur	*	30 to 31 Dec-13	Direct all India	4-2-2014 Panjab Chandigarh	12
36	Yoga (M&W)	Arts, Commerce & Science College, Gadhinglaj	*	1 to 2 Jan-14	-	-	00
37	Rowing (M)	Dr. Patangrao Kadam College, Sangalwadi	*	3 to 4 Jan-14	Direct all India	3-2-2014 Culcutta Univarsity	05
38	Boxing (M&W)	Shankarrao Jagtap Arts & Comme College, Wagholi	*	6 to 7 Jan-14	Direct all India	3-2-2014 B.H.U Varanasi	17
39	Power Lifting & Wt. Lifting (M&W) & Best Physique (M)	Shahaji College, Kolhapur	*	17 to 18 Jan-14	Direct all India	17-2-2014 Andhara Univ. Visakhapta- nam	22
Total							

*Indicates one zone basis.

The Youth Festival of Shivaji University is conducted in two phases; the District Youth Festivals and the Central Youth Festival.

Cultural programme Calendar-

The Youth festival of the University is conducted in two phases; the District Youth Festivals and Central Youth Festival.

Activities	Month		
A) Co-curricular			
Conferences	August to Marah		
Seminars	August to March		
Workshops]		
Avishkar Research Competition	January		
NSD	February		
B) Extracurricular			

Farmers meet	December		
HIV/AIDS Rallies	December		
Dayanjot Rally	November		
Environmental	July, January		
Awareness Rally	July, January		
NSS Camp	November to February		
Adventure camps	December, January		
Disaster Management Camps	May		
Granth Mahotsav	January		
C) Cultural			
Youth Festivals	October to November		
Debate	December		
Drama	October to November		
Music	October to November		
D) Sports	December to February		

Activity	2009-	2010-	2011-	2012-
	10	11	12	13
Sports				
• Inter-class/Inter-Department Sports	\checkmark	\checkmark	\checkmark	\checkmark
Cultural				
Welcome/sendoff program	\checkmark	\checkmark	\checkmark	\checkmark
Traditional day	\checkmark	\checkmark	\checkmark	\checkmark
Teachers day	\checkmark	\checkmark	\checkmark	\checkmark
Extracurricular				
• Program organized by Adult and	-	-	6	-
Continuing Education for farmers				
National Science Day	4	5	4	4
Shetkari Melava	-	-	1	-

5.3.2 Give details of the achievements of students in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. during the last four years.

The achievements of the students in co-curricular, extracurricular and cultural activities at different levels are as follows:

• Co-curricular

Inter-University State Level Research Competition -AVISHKAR prizes received by the University in different subject categories.

i) AVISHK	AR-2009-10	:	<u>Ist prize in the Basic Sciences</u>
ii) AVISHK	AR-2010-11	:	I st Prize in Agriculture & Husbandry
			III rd Prize in Pure Science category
iii) AVISHK	CAR-2011-12	:	I st Prize in Agriculture & Husbandry,
			III rd Prize in Pure Science category

iv) AVISHKAR-2012-13

• Extracurricular :

Achievements in NSS:

The Ministry of Higher and Technical Education, Govt. of Maharashtra sponsores annual State level awards for N.S.S. achievements consisting of Best University, Best Programme Coordinator, Best College, Best Programme Officer and Best Volunteer.

The University is recipient of the following awards:

- ✤ Best College Award
 - Deshbhakt Anandrao Balwant Naik Arts and Science College, Chikhlee, for the year 2009-10
 - Balasaheb Desai College, Taluka Patan, Dist Satara, for the year 2010-11
- ✤ Best Programme Officer Award
 - Prof. Popatrao Ramchandra Mali, from Deshbhakt Anandrao Balwant Naik Arts and Science College, Chikhali for the year 2009-10
 - Prof. Dattatray Dadu Thorat from Balasaheb Desai College, Taluka Patan, Dist – Satara for the year 2010-11.
 - Prof. Hari Pandurang Patil, from Vivekanand College, Kolhapur for the year 2012-13.
- Best NSS Volunteer Award -
 - Mr. Vishal Prakash Solapure from Vivekanand College, Kolhapur for the year 2009-10
 - Mr. Sushant Jagannath Chormole, from Mudhoji Mahavidyalaya, Phaltan for the year 2010-11.
 - Mr. Avadhut Ashok Gaikwad from Rajaram Mahavidyalaya, Vidyanagar, Kolhapur for the year 2011-12.
 - Miss. Nanda Shivaji Bolaye, from Yashwantrao Chavan (K.M.C.) College, Kolhapur for the year 2012-13.
- ✤ Best University Award
 - Shivaji University is the recipient of Best University N.S.S. State Level Award for the year 2012-13.
- Best Programme Coordinator Award
 - Prof. Dr. D. K. Gaikwad, Coordinator of the N.S.S. Unit in the University is honored with State Level Award for the year 2012-13.

Recipients of President's and Chancellor's Medals:

- 1. Smt. Chavan Pooja Kakasaheb received "The President of India Medal for general proficiency Shivaji University" (2009-10)
- 2. Smt. Tashi Kshitija Keshav received "The President of India Medal for general proficiency Shivaji University" (2010-11)

- 3. Smt. Ranmale Parimita Pandurang received "The President of India Medal for General Proficiency Shivaji University" (2011-12)
- 4. Mr. Mohite Shreyas Gurudas received "The President of India Medal for General Proficiency Shivaji University" (2012-13)
- Cultural Activities:
 - State Level

Organization & Participation in 7th Maharashtra State Inter University Indradhanushya Youth Festival -2009-10.

The University received the S.K. Somaiya College Rotating Trophy for cultural presentation.

Awards received in 8th Maharashtra State Inter University Indradhanushya Youth Festival -2010-11 held at Pune University, Pune during 16th to 25th November, 2010.

- First Prize Folk dance
- First Prize Collage
- Second Prize Rangoli
- Third Prize- Debate
- Third Prize Poster
- Third Prize Classical Instrumental (Non Percussion).
- Third Prize Cartooning Making

Awards received in 9th Maharashtra State Inter University Indradhanushya Youth Festival -2011-12 at Maharashtra University of Health Sciences, Nashik from 5th to 9th November, 2011

The University received

- Second prize Marathi Elocution
- Second prize Classical instrumental (solo) percussion
- Third prize Mime
- Third prize Debating
- Third prize Light Vocal Solo

Awards received in 10th Maharashtra State Inter University Indradhanushya Youth Festival -2012-13

The Swami Ramanand Teerth Marathwada University, Nanded organized 10th State level Inter University cultural competition Indradhnushya – 2012 from 5th to 9th November, 2012. The University deputed 40 participants who actively participated in Youth Festival.

The University bagged:

- First Prize Mime
- First prize Folk dance
- Second prize Folk Orchestra
- Third prize Clay Modeling

- Third prize Classical singing
- Third prize Debating
- Third prize Spot Photography

Maharashtra State Inter University "Indradhanushya" Youth Festival – 2013 :-

Dr. Babasaheb Ambedkar Technological University, Lonere, has organized 11th State level Inter University Cultural Competition Indradhanushya – 2013 from 7th to 11th December, 2013. The University deputed 40 participants have actively participated in Youth Festival. The University has received following prizes:

- First prize Folk Orchestra
- First prize Light Vocal
- Second prize Group song
- Third Prize Mime
- Third prize Folk dance
- Third prize One act play
- Third prize Classical Instrumental Solo Percussion

> Zonal :

Awards received in West Zone Inter University Youth Festival -2009-10

West Zone Inter University Youth Festival was organized in the Mumbai University, Mumbai on 16th to 20th November, 2009.

The University deputed 40 students on the Basis of Merit for the West Zone Youth Festival. The University bagged:

- First Prize Classical Solo percussion
- First Prize Classical singing
- Third prize Skit
- Third prize Poster Making
- Third prize Rangoli
- Third prize on the Spot Painting
- Third prize Light Vocal

Awards received in West Zone Inter University Youth festival -2010-11

West Zone Inter University Youth Festival was organized by Jiwaji University, Gwalior on 27th November, 2010 to 1st December, 2010

The University has deputed 40 students on the basis of merit for the West Zone Youth Festival. The University has bagged:

- Third prize Collage
- Third prize Folk Orchestra

Awards received in West Zone Inter University Youth festival -2011-12

West Zone Inter University Youth Festival was organized by the Mohan Lal Sukhadia University, Udaipur on 4th to 9th December, 2011

The University deputed 40 students on the basis of merit for the West Zone Youth Festival. The University bagged:

- Second prize Mime
- Second prize Classical instrumental solo percussion
- Third prize Folk Orchestra
- Third prize Clay Modelling
- Third prize Poster Making

Awards received in West Zone Inter University Youth festival -2012-13

The Sant Tukadoji Maharaj Nagpur University, Nagpur (Maharashtra) on 22nd to 26th January, 2012. University received

- Third prize Classical Instrumental Percussion
- Third prize Mime

Awards received in West Zone Inter University Youth Festival -2013-14

The University has hosted 29th West Zone -Inter University Youth Festival Cultural Competition.

West Zone Youth Festival 2013 from 26th to 30th December – 2013. Twenty-two Agricultural and Non-Agricultural University along with 762 participants have actively participated in Youth Festival.

The University has deputed 40 participants out of which following teams have been awarded with prizes:

- First prize Folk Orchestra
- Second Prize Light Vocal (Indian)
- Second Prize Folk/Tribal Dance
- Second Prize Poster Making
- Second Prize Rangoli
- Third Prize Classical Vocal Solo Hindustani
- Third Prize Classical Instrumental Solo (Non Percussion)
- Third Prize Western vocal Solo
- Third Prize Group Song (Indian)
- Third Prize Western Vocal (Group song)
- Third Prize One Act Play
- Third Prize Mime
- Third Prize Clay Modeling

National:

Awards received in Inter University National Youth Festival 2012-13:-

The 28th Inter University National festival was organized by the University of Kalyani (West Bengal) on 05th to 31th December, 2012. The University has achieved three prizes in the following items:

- First prize Folk Orchestra •
- Third prize Skit
- Third prize One Act Play

Awards received in Inter University National Youth Festival 2013-14:-

The 29th Inter University National Youth Festival was hosted by the Kurukshetra University Kurukshetra (Haryana) during 18 to 22 February, 2014. The University has deputed 35 students on the basic of the merit in the West Zone Youth Festival. The University has achieved two prizes in the following items:

- Third prize Folk Orchestra
- Fourth prize Folk Dance

International:

The 7th South Asian University International Youth Festival (SAUFEST) was hosted by the Lovely Professional University Phagwara, Punjab during 11 to 15 March, 2014. The University has deputed 17 students on the Basis of Merit in National Youth Festival in 2012-13. The University students have performed Folk Orchestra in the festival. It was only team selected at national level.

Other Awards received by the students

Awards in PCRA Debate Competition

- Ms. Rachana Ingawale, 1st Rank, 2009
 Ms. Aasavari Sutar, 2nd rank, 2009
- Ms. Shreedevi Gadavi, 3rd rank, 2009
 Mr. Sandip Shinde, 3rd rank, 2009
- 5. Mr. Nandkishor Gaikwad, 2nd rank, 2011

Awards in various events during Golden Jubilee 2012

- Ms. Snehal Chavan, Rangoli Competition, 1st prize •
- Mr. Deepak Mudgal, Logo Competition, 1st prize •
- Mr. Uday Patil, Poster Competition, 1st prize •
- Ms. Priyanka Banne, Essay Competition, 2nd prize •
- Ms. Sneha Patil, Rangoli Competition, 2nd prize

Awards in PCRA Debate Competition

- Ms. Rachana Ingawale, 1st Rank, 2009
- Ms. Aasavari Sutar, 2nd rank, 2009

- Ms. Shreedevi Gadavi, 3rd rank, 2009
- Mr. Sandip Shinde, 3rd rank, 2009
- Mr. Nandkishor Gaikwad, 2nd rank, 2011

Awards in various events during Golden Jubilee 2012

- Ms. Snehal Chavan, Rangoli Competition, 1st prize
- Mr. Deepak Mudgal, Logo Competition, 1st prize
- Mr. Uday Patil, Poster Competition, 1st prize
- Ms. Priyanka Banne, Essay Competition, 2nd prize
- Ms. Sneha Patil, Rangoli Competition, 2nd prize

Rajya Natya Abhinay Competition:

- Ms. Rasiya Padalkar, Appreciation Certificate, 2012
- Smt. Sanyogeeta Patil has performed the Bharat Natyam for non stop 66 hours during 2010-11. This performance was recorded in the Genies Book of World Record.
- Students of Natya Shastra received Sam T.V. Channel First Prize in Ekankita 'use & throw'. The same was broadcasted on Sam T.V. Channel. 2010-11

The Shivaji University won second prize for the play titled 'Ms. Benade Pvt. Ltd.' in the daily Sakal Inter-Collegiate One Act Play competition.

5.3.3 Does the university have a mechanism to gather data and feedback from its graduates and employers and use them for the growth and development of the institution?

Yes, the University takes online feedback from every students after he/she gives his/her final second year examination. The questions are pertaining to teacher's performance, placement, growth and development of the department.

Some of the departments have mechanism to gather data and feedback from its graduates and employers. The questionnaire is prepared which includes questions regarding faculty performance, infrastructure etc. and distributed to graduates every six month. All the completed feedback forms are analyzed by the HOD and a meeting of faculty members and non-teaching staff is called to address the issues, if any. Based on the suggestions from the graduates all the required actions are taken and attempts are made to improve the teaching-learning process and infrastructure.

5.3.4 Does the university conduct special drives/campaigns for its faculty and students to promote heritage consciousness?

Yes, all departments organize programs for students under healthy practice. i.e. Nature tours are conducted for students and staff to visit places of historical interest like Panhala fort, Jotiba Temple, Mahalaxmi Temple and Khidrapur Temple and caves, Agashiva Caves. These visits increase the students awareness and realization of our glorious heritage.

5.3.5 How does the university involve and encourage its students to publish materials like catalogues, wall magazines, college magazine, and other material? List the major publications/ materials brought out by the students during the last four academic sessions.

The students bring out the following publications on their own under the guidance of their teachers:

Camouflage (Environmental Science) Ensamble (English). Media Spectrum (Mass Communication) Madhyamvidya (Journalism)

The University organizes College Magazine Competitions and offers awards and prizes every year to the meritorious contributions in the affiliated colleges.

5.3.6 Does the university have a Student Council or any other similar body? Give details on its constitution, activities and funding.

Yes, as per the Maharashtra Universities Act, 1994 section 40, Students Council is established during the first term every year.

There are following three types of Students Council:

1) University Department Students Council :

The University Department Students' Council shall consist of the following members namely –

- i) Vice-Chancellor President
- ii) Director of Students' Welfare Chairman
- iii) Director of Sports and Physical Education.
- iv) National Services Scheme Coordinator.
- v) One student from each University Department who has shown academic merit at the preceding degree examination and is engaged in full time studies in a University Department nominated by the Vice-Chancellor.
- vi) Two lady students nominated by the Pro-Vice-Chancellor

2) Students Council at the affiliated College:

- i) Principal Chairman
- ii) One lecturer nominated by the Principal
- iii) Teacher in charge of National Cadet Corps;
- iv) National Service Scheme Programme Officer;
- v) One student from each class who has shown academic merit at the examination held in the preceeding year and who is engaged in full-time studies in the college nominated by the Principal;

- vi) Director of Sports and Physical Education
- vii) One student from each of the following activities, who has shown outstanding performance, nominated by the Principal namely, Sports, N.S.S. and Adult Education, Cultural Activities,
- viii) Two lady students nominated by the Principal.

The student members of both these Councils elect from amongst themselves, the Secretary of their respective Council.

3) University Students Council :

It consists of not more than fifteen persons, nominated through selection, from amongst Secretaries of the respective councils, one seat each being reserved for SC/ST/DT/NT/OBC and Women categories. Remaining seats to be distributed district-wise.

The University Students Council so formed elects its own President and Secretary.

A Student Council is a representative structure for students only, through which they can be involved in the affairs of the institute, working in partnership with its management, staff and parents for the benefit of the institute and its students. They are the interface between the students and the administration and work together to identify and address concerns that affect the students directly and indirectly. It represents the interests of the students and participates in discussions and decisions that affect the student community.

The University makes provision of approximately Rs. 90 Lakhs towards expenses on the Students' Council, some amount being collected from students of the University Departments and Affiliated Colleges.

5.3.7 Give details of various academic and administrative bodies that have student representatives on them. Also provide details of their activities.

The students get representation on the following bodies of the University. They actively participate in every activity and decision making of the bodies concerned.

- Membership in Senate,
- Anti Ragging Cell,
- University Merit Scholarship Scrutiny Committee,
- IQAC,
- Lead College Apex Committee,
- Students Welfare



Faculty Enrichment Programme for University Teachers



Faculty Enrichment Programme for University Teachers



Farmers Meet-2012



Farmers in the Meet-2012

CRITERION VI : GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and the mission of the University.

Vision:

Shivaji University is committed to meeting the educational, social, cultural and economic needs of the region and the nation to create a just and humane society.

Mission:

We are dedicated to promoting and fostering a culture of high quality teaching and learning and to serve societal needs by encouraging, generating and promoting excellence in research and extension activities.

6.1.2 Does the mission statement define the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, the institution's tradition and value orientations, its vision for the future, etc.?

Yes, the institution's vision and mission reflect the distinctive characteristics of the University such as catering to the educational, social, cultural and economic needs of the society and the region. All these characteristics are reflected in its policies. High quality educational programmes and best practices are being implemented keeping in mind the policy of uncompromising adherence to the values and principles.

6.1.3 How is the leadership involved?

• In ensuring the organization's management system development, implementation and continuous improvement?

The governance and the management structure of the University is proactive, learner centric, responsive to the societal needs and decentralized. Vice-Chancellor is the principal academic and executive officer of the University and is assisted by the Pro-Vice-Chancellor, Director, Board of College and University Development, Registrar, Controller of Examinations, Finance and Accounts Officer and other administrative and academic functionaries in carrying out the day to day academic and administrative activities of the University.

Decisions related to the academics and administration are taken by the authorities and bodies of the University and the same are implemented by the Officers of the University at various levels. All decisions taken by the authorities and the bodies have been implemented. Internal coordination and monitoring mechanism and participatory management helps the University to improve and enhance the overall quality of functioning of the University.

• In interacting with its stakeholders?

The University has special mechanisms like Industry-University Cell, Alumni Association, Parents Meet, Students' Council and representative of the stakeholders on respective bodies which enable the interactions with the stakeholders. Besides, the faculty members and administrative staff also attend the queries and the questions of the stakeholders.

• In reinforcing a culture of excellence?

Excellence is a comparative phenomenon. Obviously, the University looks into the performances of the leading Universities in the Nation and the World. Faculty members regularly attend conferences and seminars in the country and abroad. The University has signed number of MoUs so as to interact with the experts within the country and abroad. On various occasions the external expertise is invited to interact with the students and teachers. Similarly, culture of excellence is generated at administrative levels through various programmes. The best practices so far experienced by the faculties are replicated in the University system. The excellence is sought in teachinglearning-evaluation processes and research and extension activities of the University through ICT tools.

• In identifying organizational needs and striving to fulfill them?

In view of the above, the faculty and the administrative authorities identify the needs of the University through various meetings and delegations. The authorities strive to fulfill the needs of the University. The short-term and long-term plans are designed and complied with the physical and financial supports.

6.1.4 Were any of the top leadership positions of the University vacant for more than a year? If so, state the reasons.

All top positions except Pro-Vice-Chancellor were filled up. Pro-Vice-Chancellor was appointed by the Chancellor in consultation with the Vice-Chancellor on 15/09/2012. The post of Pro-Vice-Chancellor remained vacant from 12/03/2004 to 14/09/2012, the reason being it is discretionary.

6.1.5 Does the University ensure that all positions in its various statutory bodies are filled and meetings conducted regularly?

Yes, it is ensured that all positions in various statutory bodies are filled in and are functioning regularly as per the schedules prepared by the University. In case of any positions lying vacant the Standing Committee sees to it that they are filled in.

6.1.6 Does the University promote a culture of participative management? If yes, indicate the levels of participative management.

Yes, the University promotes a culture of participative management. Various bodies like Management Council, Senate, Academic Council, Faculties, Board of Studies, Students Council and other bodies follow the participative management system. All above bodies have representation from various sectors like art and culture, industry, society, NGO, Government, alumni and banking. The delegation of powers including financial powers are offered to the University officers and other bodies.

6.1.7 Give details of the academic and administrative leadership provided by the University to its affiliated colleges and the support and encouragement given to them to become autonomous.

The University's academic and administrative leadership is very keen on encouraging the colleges to become autonomous institutions. The significance of the autonomous status for the colleges and the institutions is discussed in the meetings of Principals and Management Representatives.

The permanently affiliated colleges and institutions have been encouraged to go for autonomous status by relaxing some of the rigid conditions of permanent affiliation.

6.1.8 Have any provisions been incorporated / introduced in the University Act and Statutes to provide for conferment of degrees by autonomous colleges?

Yes, the University Act provides for confirming the autonomous status to the affiliated colleges and recognized institutes within the rules and regulations framed by the UGC.

6.1.9 How does the University groom leadership at various levels? Give details.

The University shapes leadership at various levels such as Head of the Departments, Principals of the affiliated colleges, Authorities of the University, Students Council along with administrative staff of the University and the colleges.

Following are some of the major leadership programmes:

- 1) *Shiledar Shibir* (Leadership Camp for students representatives of the University Departments and the affiliated colleges)
- 2) Youth development programmes
- *3) Indradhanushya (*Cultural competition initiated by the Chancellor of the Universities in the State)
- 4) Avishkar (Research Leadership for students and teachers)
- 5) Sports Meet at various levels.

6) *Youth Festival* (Cultural Leadership Development Programme for the students.)

6.1.10 Has the University evolved a knowledge management strategy? If yes, give details.

Yes, the University has evolved a knowledge management strategy through various programmes:

- 1) Organization of National/International theme-based Seminars/ Conferences/Workshops/Symposia.
- 2) Theme based Panel discussions
- 3) Targeted minor/major research projects.
- 4) Publications :
 - Journals (Science and Social Sciences)
 - Research books
 - Publication and digitization of rare books and papers
 - Academic repository
 - Research Compendium
 - Collection of Convocation addresses
- 5) Financial assistance to publish monographs, theses and reference books
- 6) Translated manuscripts available in Modi, Urdu, Parsi, Ardhmagadhi.
- 7) V.S. Khandekar (*Dnyanapeeth Awardee*) Museum.
- 8) Archival Cell
- 9) Foreign Visits by the University authorities/ faculties for exchange of knowledge (under MoUs and targeted educational meets/exhibitions).
- 10) Knowledge partnership with various government organizations and institutions.
- 11) Multi faculty and interdisciplinary research.

With these measures the University tries to utilize the available knowledge for further development of the stakeholders.

6.1.11 How are the following values reflected in the functioning of the University?

The University follows various modes and methods for reflecting its values in day to day activities.

• Contributing to national development

Enrichment of the University research and efforts for obtaining patents, Rural development course curriculum

NSS activities

Involvement of staff, teachers and students in National Flagship Programmes.

• Catering global competencies among students

Post-graduation/doctoral/post- doctoral degrees pursued by the students in South Korea, Taiwan, Ireland, Denmark, Germany, USA, France, UK, Hong Kong, Singapore.

• Inculcating a sound value system among students

Inculcating the social and ethical values through NSS programmes. Strict observance of disciplinary rules for the students. Propagation of Students Charter defined by the NAAC.

• Promoting use of technology

The students while pursuing their degree/ diploma courses are encouraged to use technology through sophisticated equipments, internet facility and Webinars.

The Department of Commerce and Management has developed a model of Office Automation System.

Account Code prepared by the Finance and Accounts Section of our University used in all the universities in Maharashtra.

Use of ICT in examination system.

• Quest for excellence

Use of the UGC model of curriculum.

Use of the national curricula (NET, SET, UPSC, MPSC, GATE, and BET) for developing the syllabi.

Encouragement for publication of research in refereed journals with high impact factor.

International collaborations for MoUs.

Laboratories with sophisticated instruments.

Development of laboratories for characterization and analysis.

Community Development Centre and Adults and Continuing Education Centre for dealing with extension activities.

Encouragement of the transfer of technology to the stakeholders.

6.2 Strategy Development and Deployment

6.2.1 Does the University have a perspective plan for development? If yes, what aspects are considered in the development of policies and strategies?

Yes, the University has well defined mechanism of Perspective Plan for the development of higher education in the University jurisdiction. The University prepares Perspective Plan every five years and revised every year. The procedure is as under:
- The University appoints two committees at District level and University level to collect the public feedback by conducting the meetings.
- The schedule of meetings of District Level Committees is advertised in the local newspapers.
- The demands from the interested stakeholders are pooled together and scrutinizes the feasibility of the demands, committee identifies the locations and handover the report to the University Level Committee.
- The University Level Committee centrally scrutinizes the District Level Committee Reports on the basis of distance from existing institutions/colleges, social justice, regional balance, number of feeder institutions, topography like hilly area, drought-prone area.
- The University Level Committee prepares the draft Perspective Plan and refers to the Board of College and University Development (BCUD) for further action.
- The recommendations of the BCUD are routed through various University authorities i.e. Management Council, Academic Council and Senate, and finally it is sent to the Government for final approval.

6.2.2 Describe the University's internal organizational structure and decision making processes and their effectiveness.

The major decision making bodies are Senate, Academic Council, Management Council, BCUD, BUTR and BOE.

The University organizational structure consists of four main officials such as Registrar, Director, B.C.U.D,, Controller of Examination and Finance and Accounts Officer.

Following flow charts give the University's internal organizational structure.



The decision making process is as under:

- The policy decisions are taken by the University authorities in the light of the directives given by the National/State Apex Bodies.
- Administrative decisions are taken by the concerned officers consistent with the policy decisions.
- Academic decisions are taken by the academic committees constituted for the purpose.

This process helps to maintain the quality of and the excellence in the higher education system with reference to the core values.

6.2.3 Does the University have a formal policy to ensure quality? How is it designed, driven, deployed and reviewed?

Yes, the University has established Internal Quality Assurance Cell. This cell has ironing since the first cycle accreditation of the University. The cell has an Advisory Council which is represented by the Officers of the University, Heads of the Departments, Senior Faculty Members and representatives from society, industries and students. The council conducts regular periodical meetings for considering the policies related to the quality of the University system. Deficiencies and the weaknesses pointed out by the Peer Team are promptly attended to by the IQAC. The formal policies related to academic, administrative and extensive activities are discussed at various levels. A plan of implementation is made and executed through the office procedure. Annual Quality Assurance Reports (AQAR) are prepared and sent to the NAAC regularly. The IQAC team of experts regularly visits the departments/sections to review the academic and infrastructural gaps. The IQAC yearly conducts the Academic and Administrative Audit. IQAC organizes various workshops/orientation programmes/seminars/lecture series etc. on the topics like Challenges of Higher Education, Quality Enhancement of Teacher Education, Benchmarking, Research Ethics, Plagiarism, Publishiability, and Enrichment Programme on Administrative work and Office Automation for administrative staff. District-wise orientation and training programmes were organized for the research students on the topics like Research writing, Research Ethics, Structure of the research paper, Plagiarism and Publishability during the last four years. Academic Departments under their academic programme conducted various seminars, conferences, workshops and symposia for improving quality of teaching learning and research activities. This has been reflected in increasing the *h*index (46) and ranking of the University (25th Rank in Indian Universities).

The Weak College Development scheme is a significant step towards enhancement of quality education in the affiliated colleges.

6.2.4 Does the University encourage its academic departments to function independently and autonomously and how does it ensure accountability?

The University encourages its academic departments to function independently and autonomously by giving them academic flexibility to formulate/revise the syllabus with recent developments in tune with changing time. The Departments themselves conduct examinations and assess answer books. The Choice Based Credit System and add-on courses across the faculties have been introduced. To ensure the accountability, the departmental performance is assessed by Academic and Administrative Audit (AAA) Committee and Vice-Chancellor's visits to various departments.

6.2.5 During the last four years, have there been any instances of court cases filed by and against the institute? What were the critical issues and verdicts of the courts on these issues?

Yes, in most of the cases (109) University is the formal party. There are three cases filed by the University, one in Supreme Court and two in the High Court, Mumbai. The University is the direct party in 03 cases out of which 01 is civil.

There are 52 High Court cases, 09 Tribunal cases of terminations, 11 other judicial, 06 industrial, 02 District Labour Court, 41 High Court and 01 Supreme Court cases in which the University is a formal party.

Out of the total 112 cases, 46 cases were dissolved, 23 cases are pending and rest others (43) are subjudice.

There are 33 writ petitions in the High Court, Mumbai relating to the admission and eligibility conditions. All cases are subjudice.

6.2.6 How does the University ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyse the nature of grievances for promoting better stakeholder-relationship?

The grievances/ complaints are promptly attended to and resolved effectively through various committees formed by the University authorities for promoting better stakeholder-relationship. The University has a separate mechanism to analyze the grievances for promoting better stakeholderrelationship like teachers, students, non-teaching staff and the college management. The colleges have their own mechanism of resolving the grievances. The Departmental Committee and Departmental Research Committee in the University resolve the students grievances.

The grievances of the teachers and non-teaching staff in the affiliated colleges are resolved in the Local Management Committee, Tribunals and University authorities.

The grievances of the University teachers and Administrative staff are resolved in the University authorities, Grievances Committee and the Tribunal. However, most of the cases are settled at the local level.

6.2.7 Does the University have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?

Yes, the Student feedback has been introduced from the year 2004. There are two types of feedbacks one is at the level of entry and other is *exit feedback*. The *entry feedback* is taken care of by the Departments. The exit feedback is taken up online before the students appear for the final examination. The exit feedback is communicated to each departments at the time of the visit of the Vice-Chancellor during the mid of the first semester. Heads of the Departments are advised to look into the matter. Individual faculty feedbacks are communicated to the individual teachers through Vice-Chancellor's Office for their perusal. The University has the mechanism of taking the feedbacks from alumni and the other stakeholders of the society. Such feedbacks are attended by the concerned authorities and committees of the University Officers for compliances of their demands.

6.2.8 Does the University conduct performance audit of the various departments?

Yes, the Internal Quality Assurance Cell (IQAC) regularly conducts Academic and Administrative Audit of the departments every year through the peer team of external and internal experts. The IQAC also conducts the visits of the University authorities and internal experts for identifying the infrastructural and academic gaps. The gaps are brought to the notice of the Heads of the Departments during the regular meetings.

6.2.9 What mechanisms have been evolved by the University to identify the developmental needs of its affiliated institutions?

The developmental needs of the affiliated institutions are considered through affiliation section and the BCUD. The Perspective Plan for the development of higher education is prepared and submitted to the state government for its approval. The affiliating institutions also communicate their academic demands to the BCUD. The University has developed the Weak College Development Programme. It was started from the academic year 2012-13. Such affiliating institutions are identified on the basis of their location, infrastructure and the facilities of library. Two affiliated institutions during the year 2012-13 and seven affiliated institutions in 2013-14 were disbursed Rs. 1,45,000/- and Rs. 4,45,000/- respectively for their development.

The BCUD/Affiliation Section regularly conducts the meetings of Principals. Newly appointed Principals are oriented in respect of the office procedures, academics, support services, fundings and examination related issues. The University takes initiative to motivate the colleges for NAAC accreditation and institutional autonomy. The number of NAAC accredited and reaccredited colleges are 60 and 81 respectively. The college teachers are invited for various academic programmes. Some of the University endowment

lecture series are organized at the college level. Similarly the sports activities, Youth Festival and research related orientation programmes are decentralized.

6.2.10 Does the University have a vibrant College Development Council (CDC) / Board of College and University Development (BCUD)? If yes, detail its structure, functions and achievements.

Yes, the Board of College and University Development (BCUD) is one of the very important sections of the University which takes steps for development of affiliated colleges and the University Departments.

The BCUD consists of following representatives.

- (a) The Vice-Chancellor; Chairman
- (b) The Pro-Vice-Chancellor
- (c) One Dean of faculty, nominated by the Academic Council;
- (d) One Head or Director from among the Heads or Directors of the University institutions of departments, not below the rank of Professor and who is not a Dean nominated by the Academic Council;
- (e) One teacher, imparting post-graduate (instruction) or guiding research, but who is not a Dean, Head of the University institutions of departments nominated by the Vice-Chancellor;
- (f) One teacher, imparting under graduate instruction having not less than sixteen years of teaching experience, nominated by the Management Council;
- (g) One Principal of an affiliated college of Arts, Science or Commerce, nominated by the Management Council from amongst the Principals who are members of the Academic Council;
- (h) One Principal of an affiliated professional college, nominated by the Vice-Chancellor;
- (i) Two experts, co-opted by the Board, from amongst the Heads of National and State level research institutions;
- (j) Two persons to represent industry, banks, commerce or professional bodies to be nominated by the Vice-Chancellor;
- (k) Two members nominated by the Senate, one of them being the representatives of the Managements;
- (1) The Director of the Board of College and University Development: Member Secretary:

The BCUD conducts the academic audit of the University Departments and the Affiliated Colleges. Academic planning is prepared by the BCUD it ensures the long-term and short-term development plans, the BCUD is liaison office between the various stakeholders.

In view of these functions and the structure of the BCUD, the University tries to bring the social and the regional balance in the higher education system. The industry, society and farming community are specially focused in the University research activities. The University always looks into the vision and mission being reflected in its achievements.

6.3 Faculty Empowerment Strategies

6.3.1 What efforts have been made to enhance the professional development of teaching and non-teaching staff?

The faculty has been deputed for orientation/refresher courses/training programmes as per requirements. The teachers are deputed for participation in national/international conferences/seminars/workshops. On an average, each faculty gets an opportunity for participation once a year. Besides, the University conducts need-based orientation, refresher, and training programmes with the help of Academic Staff College, Pune for both teaching and non-teaching staff in the University. Some faculty members participate in the exchange programme under MoUs. Necessary leave facilities are provided to such teaching and non-teaching staff. MoU has been signed with the Bahai Academy, Panchgani under which enrichment programmes pertaining to University governance have been conducted for administrative staff.

Short-term in-house training programmes for both, teaching and non-teaching staff, are also organized by various sections/departments of the University.

6.3.2 What is the outcome of the review of various appraisal methods used by the University? List the important decisions.

The University has a mechanism of PBAS and API for the teaching staff. The mechanism of Confidential Reports for administrative staff duly signed by the Reporting Officer and adjudged by Reviewing Officer. The University has initiated the practice of conveying the assessment to the respective employee. The outcomes of these initiatives are as follows:

- Performance appraisal scheme through APIs and PBAS is in practice.
- Improvement in quality of research publications, citations and *h*-index of individual teacher and the ranking of the University.
- Increased registration to the Research Gate and Google scholar.
- Increased number of research projects.
- Increased number of SCOPUS publications.
- Collection of confidential report of the non-teaching staff.
- Practice of awarding the Best Teacher and Best Employee of the University at the time of University Foundation Day every year.

6.3.3 What are the welfare schemes available for teaching and nonteaching staff? What percentage of staff have benefitted from these schemes in the last four years? Give details.

The following facilities are available for teaching and non-teaching staff in the University.

- 1. Day-Care Centre
- 2. 0% interest loan for purchase of computer: 35 Employee per year.
- 3. Teacher's/Administrative Staff Personal Library provided to 100%
- 4. Group insurance facility : 100%
- 5. Subsidized medical facilities through Health Centre: 100%
- 6. Subsidized rate facility in Canteen: 100%
- 7. Financial provisions of the sports activities of the employees
- 8. Medical reimbursement
- 9. Employees Welfare Scheme, (share by University and employee @ 60:40%)
- 10. Co-operative Credit Society for teaching staff
- 11. Co-operative Credit Society for non-teaching staff
- 12. Consumer Store
- 13. Accommodation facilities on campus for both teaching and non-teaching staff
- 14. Higher education for teaching and non-teaching staff through distance education mode/external registration
- 15. Concession in tuition fees to the wards of University Class-IV employees.
- 16. Study Leave to Administrative Staff.

Almost every employee has benefited from one or the other schemes mentioned above.

6.3.4 What are the measures taken by the University for attracting and retaining eminent faculty?

The advertisements are published at the national level to attract eminent faculty. The scheme of Adjunct Professor is implemented. Accommodation facilities are provided on the campus on priority basis. Career Advancement Scheme is implemented to retain the eminent faculty. The University encourages retired Professors to apply for various eminent professors' schemes and provides necessary facilities for their research. University retains eminent Professors through Visiting Professors Scheme and through scheme of *Professor Emeritus and BSR Fellowships* as per UGC scheme.

6.3.5 Has the University conducted a gender audit during the last four years? If yes, mention a few salient findings.

Yes, the University occasionally conducts a gender audit. During the last four years the University has conducted two gender audits, one in February 2009 and another in December 2013.

The salient findings of the Gender Audit are as follows:

- 1. It is observed that girl students outnumber boys not only in the enrolment in majority of post-graduate departments but also in the award of merit scholarship.
- 2. The University has a policy of guaranteed accommodation to all girl students in University's girls' hostels.

- 3. For the last five years, the *Earn and Learn Scheme* has maintained the participation of an average of 37% girl students.
- 4. The University observes Government of Maharashtra rules for women's horizontal reservation in the process of recruitment.
- 5. The composition of the selection committees as prescribed by the Government of Maharashtra consists of a woman representative to ensure that there is no gender discrimination in the selection process.
- 6. The University has a Day Care Centre for children female as well as male employees to send out the strong messages that child care is not the responsibility of women alone.
- 7. The University has the *Sexual Harassment Prevention Committees* (currently renamed and reconstituted as Internal Complaints Committee) for both teaching and non-teaching staff.
- 8. Existence of a UGC recognized Centre for Women's Studies equipped with gender expertise for imparting gender sensitivity trainings, counseling from gender perspective and Women's Studies courses to various stakeholders.

6.3.6 Does the University conduct any gender sensitization programmes for its faculty?

Yes, all activities of the Centre for Women's Studies aim at gender sensitization of participants. The Centre has conducted several gender sensitization programmes for the faculty on the campus and the affiliated colleges. Such programmes are also organized for various stakeholders in society. On an average the Centre conducts eight to ten gender sensitization programmes each year.

Another unique feature is the counseling facility in the *Centre for Women's Studies* where sensitive counseling is offered to individual students, faculty and staff. Various courses offered by the Centre have major components on gender sensitization.

6.3.7 What is the impact of the University's Academic Staff College Programmes in enhancing the competencies of the University faculty?

The University has no Academic Staff College in the campus. However, our requirements are being shared with the neighbouring Universities of Goa and Pune. The Staff Academic College the University of Pune conducts some of the refresher/orientation courses/workshops in Shivaji University for the faculty and administrative staff. Awareness of official procedures and working is improved in case of administrative staff. University has submitted a special proposal for Staff Academic Colleges to the U.G.C., New Delhi.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism available to monitor the effective and efficient use of financial resources?

- The University has developed Standard Account Code for the smooth functioning of the financial management.
- Restructuring of University Budget is divided into five major parts i.e.
 (a) Maintenance, (b) Development, (c) Salary, (d) Agency and (e) Debt Heads and expenditure through computerized *Financial Accounting System* from each heads is monitored.
- The Apex Committee monitors expenditure and efficient utilization of the funds meant for various research projects/schemes of the University. This committee also resolves the problems encountered in research projects/schemes.
- > Recurring expenditure of the University is optimized.
- All receipts are deposited initially in the University's General Fund Account. After review of expenditure every day the excess amount is deposited in short-term deposits.
- Purchases above Rs. 1 lakh are through e-Tendering and Annual Rate Contracts.
- Various Departmental Budget-proposals are evaluated and discussed in the Budget Sub-Committee before making recommendations to the Finance and Accounts Committee.
- Financial provisions are made to develop the University's Perspective Plan.
- Instruments/equipments are usually purchased on three years warranty. Some sophisticated instruments are purchased with A.M.C.
- Release of On Account Money after approval of the research scheme and before the receipt of the funds from the funding agencies.

6.4.2 Does the University have a mechanism for internal and external audit? Give details.

Yes, the University has a mechanism for internal and external audit. The internal audit is done through "Internal Audit Section." Every bill is passed through this section only after pre audit. The queries raised by the Internal Audit Section are complied before passing the bills.

The external audit is done through Statutory Auditor and Principal Accountant General (Audit), Mumbai. The external audit of the Statutory Auditor has been completed up to the year 2012-13. The audited annual accounts and the audit reports are approved by Senate in the month of December, 2013 and are submitted to the Principal Accountant General (Audit), Mumbai and the State Government. The external audit of PAG is completed up to the year 2009-10.

6.4.3 Have the accounts been audited regularly? What were the audit objections, if any, and how were they complied with?

Yes, the University accounts are audited regularly by Statutory Auditor and by the Principal Accountant General (Audit), Mumbai.

The audit objections of Statutory Auditor are related to :

- Physical verification of fixed assets
- Up to-date record of estate register
- Outstanding advances and accounts receivable
- Special vehicles to physically challenged employees
- Reconciliation of cash and bank balances
- Record of bills payable items
- Reconciliation of CPF, cash receipts
- Recovery of electricity bill
- Guesthouse charges.

The compliance of the same has been made by the concerned section.

The PAG has submitted his audit report to the University. There were 43 queries indicated by the audit. Some of the audit objections are regarding the purchase of bicycles, contract of sanitary service, stock verification of Library books, construction of language building, unutilized funds with PWD Solapur, delay in revision of affiliation fees, Slow progress of Chhatrapati Shahu Maharaj Centre for Maratha History, outstanding advances, sports hostel at five bungalow, merit scholarship, discrepancy in disbursement of PG scholarship, printing of question papers.

The compliance of the same has been submitted to PAG Mumbai.

6.4.4 Provide the audited income and expenditure statement of academic and administrative activities of the last four years.

The audited income and expenditure statement of University is as follows:

Year	Income (in Rs.)	Expenditure (in Rs.)	Surplus/Deficit (in Rs.)
2009-10	51,58,98,089.25	54,33,20,316.40	-2,74,22,227.15
2010-11	62,37,15,173.71	58,72,68,401.48	3,64,46,772.23
2011-12	83,93,47,411.45	70,48,34,772.67	13,45,12,638.78
2012-13	1,06,63,96,845.75	83,68,92,301.06	22,95,04,544.69
2013-14	120,24,63,752.26	113,65,68,904.45	6,58,94,847.81

The deficit of the year 2009-10 was met-out from the carry forwarded balances of general fund.

6.4.5 Narrate the efforts taken by the University for Resource Mobilization.

The University receives grants from various funding agencies like UGC, CSIR, DBT, DST, Central and State Government for various projects. During the financial year 2013-14, the University received funds of Rs. 17,39,48,241/- for various projects.

During the year 2011-12, the University celebrated its Golden Jubilee Year. The State Govt. sanctioned one time grant of Rs.45 crores for the following seven projects of the University:

(1) School of Nano-science and Technology,

- (2) Yashwantrao Chavan School of Rural Development
- (3) Rajarshi Chh. Shahu Maharaj Research Centre and Museum Complex
- (4) Youth Development Centre
- (5) Convention Centre
- (6) Golden Jubilee Faculty House
- (7) Loknete Balasaheb Desai Chair
- (8) Self-financing courses

Out of the above sanctioned grant, an amount of Rs. 2.40 crores is received for purchase of equipment during the year 2012-13 and the same is utilized.

On the occasion of "University Golden Jubilee Year", University has received donations of Rs. 1,14,89,691/-. These donations are being utilized for the construction of Girls' Hostel under the Earn and Learn Scheme.

6.4.6 Is there any provision for the University to create a corpus fund? If yes, give details.

Yes, there is a provision to create a corpus fund by which University has created Research and Development (R and D) Fund, Depreciation Fund, Contingency Fund, Golden Jubilee Fund, Diamond Jubilee Fund and Centenary Fund.

At the end of each financial year, surplus amount from the University's maintenance budget is transferred to Research and Development Fund. University contributions of overhead funds obtained from research projects/schemes are also transferred to R and D fund. This fund is utilized for construction of new buildings and for purchase of new equipments for development purpose. Also depreciation fund is created on the basis of depreciation rate. This fund is utilized for replacement and major repairs of old buildings, machinery, instruments, furniture, computer and peripherals etc.

The contingency fund is created for unexpected expenditure, Golden Jubilee, Diamond Jubilee and Centenary fund is meant for the celebration of the respective jubilee functions. As on 31st March, 2014, contingency fund was Rs. 38,42,923, Research and Development Fund Rs.46,65,15,925,

Depreciation Fund of Rs. 29,39,98,977 and Jubilee Fund was Rs. 2,07,64,203.

6.5 Internal Quality Assurance System

6.5.1 Does the University conduct an academic audit of its departments? If yes, give details.

Yes, the IQAC conducts an Academic and Administrative Audit of its Departments / Sections/Centres/Chairs/Support Services etc. through External and Internal Peer Teams. A special proforma for assessing the performance has been developed with gradation points. Besides, the IQAC conducts surveys for infrastructural and academic gaps through a panel of authorities and experts in the respective areas.

6.5.2 Based on the recommendations of the academic audit, what specific measures have been taken by the University to improve teaching, learning and evaluation?

The academic and infrastructural gaps are communicated to the University authorities. Teaching, learning and evaluation gaps are discussed with the faculty members in the Departments. The faculty members try to improve such weaknesses. Each faculty member and department is required to undertake one Major Research Project individually and publish at least one paper in national / international journal with high impact factor.

Special orientation on the Research Ethics, Research Writing, Project Writing, Publishability and Plagiarism is regularly organized through IQAC. Such programs are also initiated at the district level. National seminar, special lectures, benchmarking and orientation on Choice Based Credit System (CBCS) are initiated by the IQAC for the improvement of quality of higher education. The component of Multiple Choice Question (MCQ) is introduced at the level of Continuous Internal Assessment and final examination. Each department has prepared syllabi of interdisciplinary subjects to be implemented under CBCS in the University campus.

6.5.3 Is there a central body within the University to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

Yes, under the Chairmanship of the Vice-Chancellor the meetings of the Heads of the Departments/Directors and Coordinators are regularly held. The compliance reports, difficulties in implementation of resolutions are discussed. There is separate Research Committee to assess the Departmental Research Projects. Besides, each department has the Departmental Research Committee for scrutinizing the M. Phil. and Ph. D. research works for preparation of synopsis, presentation of draft thesis, its review, revision and final submission. The Boards of Studies appoints Sub-Committees of the University teachers for preparation of the syllabi and the course work. Such revisions are accepted after discussions.

This system has helped to improve the research quality. Students are aware of plagiarism and research ethics. The joint research papers of the students and teachers are published in the refereed journals.

6.5.4 How has IQAC contributed to institutionalizing quality assurance strategies and processes?

IQAC, by considering the vision and benchmarking, sets the goals for the institutional quality and the curriculum for the information of the stakeholders. At the end of the academic year the University prepares plan of action for the next academic year which covers the working days, vacation period, schedule of the meetings, examination schedule and occasional action plans. Similarly, each department prepares the calendar of events covering teaching plan, participation in conferences, seminars, extracurricular and cocurricular activities, remedial and NET/SET coaching and the schedule of mentoring. The academic gaps are sincerely met through operational mechanism and whenever required, special committees are appointed. The SWOC analyses are communicated to the concerned Departments for further action and improvement. IQAC communicates the strategical and operational issues to the concerned authorities, e.g. the budgetary provision for removing the infrastructural gaps, preparation of the vision document, benchmarking and youth development agenda.

6.5.5 How many decisions of the IQAC have been placed before the statutory authorities of the University for Implementation?

Around 30 decisions were communicated to the statutory authority of the University.

6.5.6 Does the IQAC have external members on its committees? If so, mention any significant contribution made by such members.

Yes. There are two external members from the industry and cooperative fields to participate in the discussions. A suggestion made by the external member about the inclusive educational policy was implemented as a part of the Golden Jubilee agenda of the University. In pursuance to this the University has organized *District Level Farmers Meet* and *Centrally Organized Farmer's Meet* to identify the role of the University in the development of farming and the farmers in the operational area of the University.

6.5.7 Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society?

The IQAC has appointed a committee to study the incremental academic growth of students from disadvantaged sections of society.

However, the University through various departments/sections/ committees considers the incremental growth of the students e.g. preparation of perspective plan with wide coverage of rural area and the growing number of female students in rural area and incremental hostel facilities for the females on the campus. The University conducts special classes for remedial coaching at UG and PG level, coaching for entry into services, coaching for NET/SET examination to Scheduled Castes, Scheduled Tribes and Minority candidates.

6.5.8 What policies are in place for the periodic review of administrative and academic departments, subject areas, research centres, etc.?

The periodic review of academic activities is taken through Vice-Chancellor's visits to all the Departments at the beginning of the year. The purpose of the visit is to appreciate the departmental achievements and to encourage the academic and research programmes with action plans and to solve the difficulties faced by the departments. The AAA Committee monitors the academic performance of the departments every year.

Besides, Infrastructural Gaps Committee and the Academic Gaps committees review the lacunae in the departments and sections. The periodic review is also taken through the Advisory Committees of UGC-SAP Departments/Centres/Chairs instituted in the University.

The Administrative Excellence Award under Administrative Excellence Campaign is offered to each administrative authority like Registrar, BCUD, F and AO and COE offices. The rationale behind such policy is to encourage them for their abilities and compatibilities. The expert committee visits all departments/sections and ranks their performance in order of merit. First two cash prizes with an amount of Rs. 2001/- and Rs. 1,500/- are offered to each administrative office as above at the time of University Foundation Day. Similarly, first three academic departments and support services are also honoured with the recognition and cash prizes of Rs. 2,001/-, Rs. 1,500/- and Rs. 1,001/-.

Any other information regarding Governance, Leadership and Management which the University would like to include.

The University authorities/administrative staff and the faculty members are involved in the following activities:

- NAAC Peer Team visits
- Representation in State Level committees
- UGC-SAP experts
- Academic audit
- Representation on committees/bodies/experts-committees the Government and semi-government organizations.



University Authorities taking oath of cleanliness on the occasion of Mahatma Gandhi Jayanti



General Cleanliness by Teachers, Administrative Staff and students on the occasion of Mahatma Gandhi Jayanti



NSS volunteers working for Fodder Supply to the Drought Affected Area, 2011-12



Tree Plantation Campaigning by Administrative Staff

CRITERION VII : INNOVATIONS AND BEST PRACTICES

7.1 Environmental Consciousness:

The University is conscious of environmental issues. It tries to create environmental awareness among the stakeholders. The University authorities are very keen on making the campus eco-friendly by adopting certain measures. All the buildings and surrounding area on the campus are cleaned every day for which outsourcing policy is adopted.

The campus observes "No Vehicle Day" first Saturday every month to promote the idea of sharing public transport means. The University also adopts energy conservation practices, effective waste management at source, rain water harvesting and plantation for making the campus clean, green and healthy. The University has built up two mini irrigation percolation dams inside the campus to meet the demand for water. Besides, the University adopts following strategies for environmental consciousness:

- Campus Cleanliness
- Tree Plantation
- Rain water harvesting
- Solid and Liquid Waste Disposal
- Campus as Biodiversity Park
- Solar street lamps
- Environmental Day and Ozone Day Celebrations
- Earth Day

7.1.1 Does the University conduct a Green Audit of its campus?

Yes, the University conducts Green Audit of its campus. It is carried out as per the guidelines of the Central Pollution Control Board, Government of India. The use of plastic is avoided on the campus. The University office circulars are sent through e-mail. The power supply to the electric and electronic gadgets is used only when needed. The University conducts Green Audit and calculates potential carbon sequestration on the campus and thus leads itself towards carbon neutrality.

Some of the salient features of the Green Audit of the University campus are as follows.

1. Energy audit:

- The University undertakes energy audit for academic departments, administrative buildings and supportive services.
- The University has planted different types of trees.
- The University utilizes solar water heaters.

2. Water audit:

- The University has built-up two water reservoirs to meet the increasing demand for water with near 90% self-sufficiency.
- The University practices rainwater harvesting on the campus.
- Recycling of waste water.

3. Solid waste management:

• The University has adopted practices like segregation of solid waste and its disposal through private agencies.

4. Hazardous waste management:

• Hazardous waste is disposed by outsourcing.

7.1.2 What are the initiatives taken by the University to make the campus eco-friendly?

A. Energy conservation:

The University administration has taken the following steps to conserve energy without affecting administrative and academic work:

- 1. Replacing old systems by energy efficient Compact Fluorescent Light (CFL) tubes, bulbs and ceiling fans.
- 2. Adopting the use of LED lights on trial basis in front of main administrative building.

B. Use of renewable energy:

The University uses renewable energy sources to provide alternate 'cleaner' source of energy, for negating the effects of certain forms of pollution. Solar water heating panels are used at Guest House, University Boys/Girls Hostels, and Dr. Appasaheb Pawar Vidyarthi Bhavan.

C. Water harvesting:

Rain water harvesting (Roof Top Harvesting) is carried out at the main administrative building, few departments, Boys/Girls hostels, and Dr. Appasaheb Pawar Vidhyarthi Bhavan.

D. Check dam construction:

The University is located on the outskirts of Kolhapur city covering around 853 acres (341.20 hectares) of area. The University has taken steps towards conservation of the water available in the campus during rainy season through watershed management.

Following are some of the steps taken by the University to become self-sufficient in this respect.

1. Mini Irrigation Tank (MIT):

The University has constructed Mini Irrigation Tank (MIT) near the V. S. Khandekar *Bhasha Bhavan*, with a capacity of 8.52 million cubic feet, resulting in the recharging of wells.

2. Earthen Dam:

The dam with the capacity of 1.5 million cubic feet was constructed near Department of Music and Dramatics. The water from this dam is supplied to boys hostel, few departments, teachers' quarters and garden.

The University saves about Rs. 10 lakhs per year with the help of these measures.

E. Plantation:

The University has made conscious efforts to bring unutilized land under cultivation of medicinal, ornamental and conservation of local plants as well as other productive plants through NSS, staff and students of various departments. The University has planted nearly 8,000 trees through N.S.S. activities and Garden Section. The Botany, Physics, Statistics, Languages and Environmental Science departments have their own plantations maintained by their students and staff. Drip irrigation scheme has been installed at almost 15 places within the University gardens. The increased green cover has reduced carbon foot- print of the University campus.

G. Hazardous Waste Management:

Generated hazardous waste in the science laboratories is managed safely at its source by the concerned departments. Following steps are taken to manage hazardous waste.

- 1. All hazardous materials from chemical laboratories are diluted 100 times by water.
- 2. Evolved hazardous gases are allowed to pass through ducting chamber instituted at the roof top.
- 3. Glass and other noninfectious sharp material from laboratories are sent for recycling.
- 4. Microbial cultures, cotton swabs, plugs and related materials are autoclaved and disposed by incineration.
- 5. Animal carcasses are buried.

H. e-Waste Management :

The University has formed an e-Waste Management Committee to look after proper disposal of e-waste. All the miscellaneous e-waste such as CDs, batteries, fluorescent bulbs, PCBs and electronic items are collected from every department and office, and delivered for safe disposal. The major e-waste such as discarded instruments/ equipments, CRTs etc. are disposed through contractors.

I. Others:

1. Continuous Contour Trenches (CCT):

Continuous contour trenches (CCT), check dams and nullah bunding have been constructed on 51 hectares of area. The University has used its own

funds, help from the NSS volunteers and students from the academic departments on the campus.

2. Open Dug Well:

The University is using drinking water from recharged wells instead of the supply from the Kolhapur Municipal Corporation since July, 2005. The wells fulfill our daily need of drinking water (2 lakh litres). Wells are supplying drinking water to the campus.

3. Water Filtration Plant:

The University has constructed a mini Water Filtration Plant on the campus.

4. Sewage Treatment Plant :

The University has constructed Sewage Treatment Plants near Department of Technology and Ladies Hostels. The treated water is utilized for gardens on the campus.

5. Vermin Composting Plant:

The Department of Environmental Science has built vermincomposting plant for training its students and as demonstration to school students and visitors. The waste generated in the University main canteen is used in this compost pit. The vermin-compost is used for plantation on the campus.

6. Drip/Sprinkling irrigation system :

The University gardens are watered by using drip/sprinkler irrigation system to save water.

INNOVATIONS:

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the University.

- 1. Changes in the existing Course Curricula and the introduction of new courses with due considerations of labour market.
- 2. Designing applied certificate courses formed as community services such as *yoga*, nutrition and dietetics, *panchkarm* assistant, dairy farm management, landscaping and food processing.
- 3. Designing a common course work for applied science subjects like Biochemistry, Biotechnology, Microbiology and Environmental Biotechnology under horizontal mobility.
- 4. Lead College scheme for total quality management in higher education at affiliated colleges.
- 5. Account Code of the University accepted as a unique model for all the universities of Maharashtra.
- 6. Office Automation project designed by the Department of Commerce and Management.

- 7. Small Wind Mill with a capacity of 1 kW is developed by the M. Tech. students.
- 8. Instant *Mattha* mix, instant *Khichad*i, Sweet potato juice, *Nerle* and Ficus Jam, pickles and Noodles developed by the Department of Food Science and Technology for local industries.
- 9. Wind Solar Hybrid Electrical Vehicle developed by the Energy Technology Department with the help M. Tech. students.
- 10. Novel Solid-Liquid Extractor developed by the Department of Chemical Technology.
- 11. Irrigation Pricing Models developed by the Department of Economics.
- 12. Super-capacitor based on chemically deposited poly-aniline thin films. Super capacitor based on chemically deposited manganese oxide thin films. Hetero junction based room temperature liquefied petroleum gas (LPG) sensor.
- 13. Fabrication of liquefied petroleum gas (LPG) sensor based on chemically deposited nano-crystalline nickel ferrite films.
- 14. Development of liquefied petroleum gas (LPG) sensor based on nanocrystalline nickel ferrite films using modified chemical deposition method.
- 15. A chemical method for the deposition of nano-crystalline tin oxide thin film super-capacitor electrode.
- 16. Chemically deposited poly-pyrrole thin films for super-capacitor application.
- 17. Low cost and large area chemical deposition of CZTS thin film.
- 18. Room temperature chemical method for the synthesis of Cu_2ZnSnS_4 absorbing layer.
- 19. Registration of Germplasm of *Delhinium malbaricum* with NBPGRI, New Delhi on 26th Feb. 2008.
- 20. Process for direct somatic embryogenesis from immature inflorescence segments of sugarcane.
- 21. Method for isolation of Bioactive Compound from *Acacia concinna* and composition for plant crop treatment.
- 22. A reproducible protocol for the production of Indole-3-acetic acid an essential plant growth-promoting hormone.
- 23. A reproducible protocol for the production of melanin an essential UV protestant by using novel bacterium *Aeromonas* sp. SNS.
- 24. Nirbhaya Abhiyan undertaken for the security and safety of the girl students
- 25. Financial assistance to weaker colleges (unaided).
- 26. Award of Golden Jubilee Research Fellowships.

7.3 BEST PRACTICES :

1) Title of the practice:

Earn and Learn Scheme - Dr. Appasaheb Pawar Vidyarthi Bhavan

2) Objectives of the practice:

This scheme, introduced in 1968, has been effectively implemented with following objectives:

- 1) To provide financial assistance to economically weaker students for higher education in return for fixed hours of work.
- 2) To promote the dignity of labour and social commitment among the students.
- 3) To help students develop multi-dimensional personality.
- 4) To encourage rural girl students for higher education.

3) The Context:

In view of the vision, mission and goals of the University it becomes imperative to cater to the educational needs of the under privileged and financially marginalised students from the area. The financial constraints faced by the rural students, particularly the girl students; need to be addressed in a planned manner. The Earn and Learn Scheme, named after the First Vice-Chancellor of the University, is a bold step in this direction. Even though, the rural students get admission to various courses of the University they face problems such as accommodation, provision for fees, boarding and related facilities. This scheme was formulated as an answer to all these problems.

4) The Practice

The students admitted to the scheme are provided free lodging and boarding facilities along with medical help and full concession in tuition and examination fees. The students have to work for 18 hours per week doing such jobs as office work, library assistance, run photocopying centre, look after the floor mill along with manual labour. The expenses of the scheme are met from the University budget. The intake under the scheme is 100 male and 50 female students per year.

The socio economic features of the students participating in the scheme shows following results:

- 1) The students participating in the scheme are mainly from low income group with average family income of less than 50,000/- (62%) followed by family income of Rs. 75,000/- (28%) and only 10% with family income of Rs. 1, 00,000/-.
- 2) The caste composition shows that the participant students belong to open category 60% and backward category 40%.
- 3) Around 80% of students belong to farming community.

The students get free hostel, mess, medical and educational fees facilities under '*Earn and Learn*' scheme.

The following table shows the number of beneficiaries of 'Earn and Learn' scheme during last four years:

5) Evidence of success

The students get free hostel, mess, medical and educational fees facilities under '*Earn and Learn*' scheme.

The following table shows the number of beneficiaries of 'Earn and Learn' scheme during last four years:

	First year		Second year		
Year				r	Total
	Boys	Girls	Boys	Girls	
2009-10	36	19	45	29	129
2010-11	39	18	36	27	120
2011-12	40	22	31	31	124
2012-13	45	26	37	18	126
2013-14	40	24	39	20	123
Total	160	85	149	105	499

Beneficiaries of the Scheme

Alumni of Earn and learn scheme have achieved marvelous success in social, political, educational, industrial, occupational and innovative sections. Dr. S. N. Pathan and Dr. S. H. Pawar have become Vice-Chancellors of other universities; Mr Chandrakant Kumbhar is working as Police Commissioner. Dr. Pandurang Keche worked as Joint Director of Education. Dr. B. L. Patil worked as Director, Board of College and University Development of Shivaji University. Many of Alumni are successful in MPSC and UPSC examinations. Alumni have established an Academy in the name of Dr. Appasaheb Pawar Prabodhini.

6) Problems Encountered and Resources Required :

It is difficult to provide office work for each and every student in the scheme as some of them hesitate to put in manual work. Hence, the nature of work needs to be changed. Students working under this scheme usually do not get vacations. The University takes care of expenses of the scheme from its own funds.

B) Best Practices: Lead College Scheme

1) Title of the Practice: Lead College Scheme:

A homogenous cluster of 10 to 15 colleges within an area fostering inter-institutional cooperation for their overall development is the basic principle behind the concept of the Lead College. The scheme was introduced in 2005 in order to interlink and coordinate all student-oriented activities along with faculty-related development programmes and society-oriented activities at the central place of the Lead College with the financial support from the stakeholders.

2) Objectives:

- i. Sharing and distributing all sorts of information with the other colleges in the cluster.
- ii. Sharing of the infrastructure, library, laboratories, sports facilities (grounds), auditoriums, big halls, stadiums, ICT devices and equipment for TQM.
- iii. Sharing of human resources such as knowledge, skills, abilities and competencies for quality enhancement of the HE.
- iv. Joint organization of academic activities like seminars, workshops, conferences.
- v. Undertaking research and training programmes for faculty development.
- vi. Improving administrative setup of the cluster colleges.
- vii. Organizing joint extension activities with the goal of sustainable development of the society.
- viii. Utilizing the expertise of the experienced persons.

3) The Context:

Most of the affiliated colleges of the University are located in rural and semi-urban areas. They need up-dated information, expert academic and administrative guidance along with ICT know-how, equipments and infrastructural facilities as they do not have adequate financial support. The cluster of such colleges needs mutual and inter-institutional cooperation for their overall development. Therefore, the University has initiated a unique scheme of Lead College.

The motto of the scheme is *"efforts of each and welfare of all.*" It is a way of mutual and collective resource mobilization and utilization.

4) The Practice:

The clusters of colleges are identified on the basis of their nature and functions. The clusters of the colleges are grouped in four categories:

- 1) Arts, Science and Commerce colleges
- 2) Education and Physical Education colleges
- 3) Law colleges and Management institutions, and
- 4) Engineering colleges.

A Lead College leads other colleges in the cluster. It is selected on the basis of the merit and ability of their performance on academic and administrative fronts. The annual performance report of the Lead College along with its audited statement and the Annual Action Plan is presented at the beginning of the academic year.

The activities are grouped in five categories:

- 1. Research activities
- 2. Academic activities
- 3. Cultural activities

- 4. Extension activities
- 5. Other activities

The funds for the activities are raised from the fees collected from the students.

- 1. Arts, Science and Commerce colleges Rs. 25 per student
- 2. Law colleges, Management institutions, Education and Physical Education colleges Rs. 50 per student
- 3. Engineering colleges Rs 100 per student

The funds are also raised through the donations and tie up with industries for specific activities. The University retains 10% of the amount and 90% share is disbursed to the Lead Colleges.

There is a Lead College Apex Committee at the University level and a Working Committee at the Lead College level. The compositions and functions of these committees are well defined by the University. The scheme is akin to minimize unfair competition and duplication of courses.

The University provides the academic expertise and guidance for the research opportunities. The University Apex Body monitors the activities of Lead Colleges and takes a mid-term review and approves the accounts submitted by the Lead Colleges according to the guidelines of the scheme.

The working committee has tenure of 3 years. All Principals of all the cluster colleges are the members of the Working Committee of the concerned Lead College. It plans the annual activities, monitors them, looks after the entire administration of the scheme and submits the annual report to the University Apex Committee.

The amount disbursed to the Lead Colleges for implementing various programmes under the scheme is as follows:

Sr.No.	Years	Allocated amount (Rs.)	
1	2009-10	57,84,698	
2	2010-11	64,64,689	
3	2011-12	68,23,090	
4	2012-13	54,56,018	
5	2013-14	82,44,126	
Total		3,27,72,621	

Every Lead College tries to ensure the active participation of all the stakeholders of the scheme.

5) Evidence of Success:

All the affiliated colleges (280) are clustered in 22 Lead Colleges for mutual co-operation and TQM in the University. The scheme ensures the participation of students, faculty, non-teaching staff, management, NGOs, parents and other stakeholders.

Academic interaction along with leadership training has raised the standard of students in colleges. The management skills of the administrative staff of the colleges have also been enhanced under the Lead College activity. Some programmes have proved useful to the parents and other stakeholders in society too because of their general nature. The communication gap between the University and the affiliated colleges has been remarkably reduced because of the use of ICT by the Lead Colleges.

The number of minor research projects submitted by the college teachers to the funding agencies has remarkably increased from 129 in 2009-10 to 225 in 2013-14. This notable acceleration of research activities could be explained as one of the results of the Lead College Scheme.

As many as 123 varied programmes are organized every year under the scheme.

6) Problems encountered and resources required:

The University collects the funds from the colleges after the admission process. The funds are disbursed to the Lead Colleges on the basis of the principles developed by the scheme. This process is delayed from both sides. Consequently, the planned programmes are not scattered throughout the year.

The resource generation by linkages with industries has some serious limitations. Hence the scheme is still dependent on the students' fees.

The University is planning to redesign the disbursement scheme for effective implementation of the scheme.

Declaration by the Head of the Institution

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

Place: Kolhapur Date: 07-05-2014

Signature of the Head of the institution with seal:

