

The Annual Quality Assurance Report (AQAR) of the IQAC*the Academic Year. July 1, 2015 to June 30, 2016)*

Part – A

1. Details of the Institution

1.1 Name of the Institution

Maharani's Science College for Women

1.2 Address Line 1

Palace Road

Address Line 2

City/Town

Bangalore

State

Karnataka

Pin Code

560 001

Institution e-mail address

mscw_bangalore1@rediffmail.com

Contact Nos.

08022262796

Name of the Head of the Institution:

Prof. K.T.Manjunath

Tel. No. with STD Code:

8022262796

Mobile:

9448154838

Name of the IQAC Co-ordinator:

Dr. Hemalatha A

Mobile:

9880086739

IQAC e-mail address:

mscwb.iqac@gmail.com

1.3 NAAC Track ID

KACOGN10356

1.4 Website address:

www.gfgc.kar.nic.in/mscw/

Web-link of the AQAR:

For ex. <http://www.ladykeanecollege.edu.in/AQAR201213.doc>

1.5 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	B ⁺	NA	2004	2009
2	2 nd Cycle	B	2.78	2009	2014
3	3 rd Cycle	A	3.04	2015	2020
4	4 th Cycle				

1.6 Date of Establishment of IQAC :

DD/MM/YYYY

9-10-2006

1.7 AQAR for the year (*for example 2010-11*)

2015-2016

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

- i. AQAR _____ NA _____ (DD/MM/YYYY)4
- ii. AQAR _____ (DD/MM/YYYY)
- iii. AQAR _____ (DD/MM/YYYY)
- iv. AQAR _____ (DD/MM/YYYY)

1.9 Institutional Status

University State Central Deemed Private

Affiliated College Yes No

Constituent College Yes No

Autonomous college of UGC Yes No

Regulatory Agency approved Institution Yes No

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

Type of Institution Co-education Men Women

Urban Rural Tribal

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

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

1.10 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

1.11 Name of the Affiliating University (*for the Colleges*)

Bangalore University

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

Autonomy by State/Central Govt. / University

University with Potential for Excellence	<input type="text"/>	UGC-CPE	<input checked="" type="checkbox"/>
DST Star Scheme	<input checked="" type="checkbox"/>	UGC-CE	<input type="checkbox"/>
UGC-Special Assistance Programme	<input type="text"/>	DST-FIST	<input checked="" type="checkbox"/>
UGC-Innovative PG programmes	<input type="text"/>	Any other (<i>Specify</i>)	<input type="text"/>
UGC-COP Programmes	<input type="text"/>		

2. IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="11"/>		
2.2 No. of Administrative/Technical staff	<input type="text" value="1"/>		
2.3 No. of students	<input type="text" value="1"/>		
2.4 No. of Management representatives	<input type="text" value="1"/>		
2.5 No. of Alumni	<input type="text" value="2"/>		
2.6 No. of any other stakeholder and community representatives	<input type="text"/>		
2.7 No. of Employers/ Industrialists	<input type="text" value="2"/>		
2.8 No. of other External Experts	<input type="text"/>		
2.9 Total No. of members	<input type="text" value="18"/>		
2.10 No. of IQAC meetings held	<input type="text" value="5"/>		
2.11 No. of meetings with various stakeholders:	No.	<input type="text" value="1"/>	Faculty <input type="text" value="3"/>
Non-Teaching Staff	<input type="text"/>	Students	<input type="text"/>
Alumni	<input type="text" value="1"/>	Others	<input type="text"/>

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

If yes, mention the amount

3,00,000/- UGC 12th plan period

2.13 Seminars and Conferences (only quality related)

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

Total Nos. International National State Institution
Level

(ii) Themes

2.14 Significant Activities and contributions made by IQAC

Successful presentations for DST-FIST, Star College Scheme and Centre for Potential Excellence, all three have been sanctioned to the college in 2015-16.

2.15 Plan of Action by IQAC/Outcome

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

Plan of Action	Achievements
Worked towards DST-FIST, Star College Scheme, CPE and Cluster	Proposed Schemes were Approved for Financial Assistance

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

2.15 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body Council

Provide the details of the action taken

Series of IQAC meetings were held to work towards DST-FIST, Star College Scheme, CPE and Cluster University and to discuss about the submission of AQAR.

Part – B**Criterion – I****1. Curricular Aspects**

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD				
PG	5			
UG	15			
PG Diploma				
Advanced Diploma				
Diploma				
Certificate				1
Others				
Total	20			1

Interdisciplinary				
Innovative				

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

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	3 (B.Sc., M.Sc. and MCA)
Trimester	
nual	

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

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

***Please provide an analysis of the feedback in the Annexure**

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

College is affiliated to Bangalore University and syllabus is updated every three years. Syllabus was revised with innovative concepts in lab experiments. Open source software like scilab, maxima were introduced in Maths and SPRT, Exponential family, Official Statistics are included in the Statistics syllabus. Dissection simulations were introduced in Zoology

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

Our college has been recommended as lead college for the Maharani Cluster University of the state under RUSA of MHRD. 3 PG departments (Microbiology, Biochemistry and Physics) were recognised as Research centres under Bangalore University.

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	87	53	31	-	3

2.2 No. of permanent faculty with Ph.D. 47

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year	Asst. Professors		Associate Professors		Professors		Others		Total	
	R	V	R	V	R	V	R	V	R	V

2.4 No. of Guest and Visiting faculty and Temporary faculty 19 - -

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	2	51	8
Presented papers	3	31	-
Resource Persons	-	-	6

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

ICT method, Media server, Observation of faunal biodiversity of the college campus, Models, Charts, Interactory participation learning methods, Seminars, Group discussion, Poster making, Quiz, Collage, Innovative methods of teaching languages through dance, music and drama.

2.7 Total No. of actual teaching days during this academic year 90+90 days

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

As per University norms

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

Syllabus revision-6	Board of studies-23	Faculty of Science-1
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2.10 Average percentage of attendance of students

75%

2.11 Course/Programme wise distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
2014-15 (EVEN)	2056	14.1%	32.5%	12.8%	-	59.4%
2015-16 (ODD)	1057	55.53%	24.03%	4.07%	2.65%	86.28%

2.12. How does IQAC Contribute/Monitor/Evaluate the teaching and learning processes.

In the council meeting academic issues will be discussed and brought to the notice of the staff members. Head of the department will assign the syllabus and time table to the respective faculty members and feed back is taken from the students.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	5
UGC – Faculty Improvement Programme	3
HRD programmes	-
Orientation programmes	-
Faculty exchange programme	-
Staff training conducted by the university	-
Staff training conducted by other institutions	3
Summer / Winter schools, Workshops, etc.	1
Others	-

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	15			
Technical Staff	25 supporting staff	2	8	

3. Research, Consultancy and Extension

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

Through UGC and Research Advisory Committees, the faculty members were informed and encouraged to take up Major and Minor Research Projects funded by UGC, DBT, VGST and DST. The members were also updated with the information related to research.

3.2 Details regarding major projects:

	Completed	Ongoing	Sanctioned	Submitted
Number	2	3		
Outlay in Rs. Lakhs		44,36,800		

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number		13	2	1
Outlay in Rs. Lakhs		21,14,800/-	14,76,000/-	1,20,000/-

3.4 Details on research publications

	International	National	Others
Peer Review Journals	14	4	
Non-Peer Review Journals			
e-Journals			
Conference proceedings		9	

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

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

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	2012-15	DST	23,30,000/-	23,30,000/-
	2013-15	SERB	12,00,000/-	12,00,000/-
	2013-16	UGC	9,06,800/-	5,02,800/-
	2015-17	VGST	6,00,000/-	6,00,000/-
Minor Projects	2014-16	UGC	2,00,000/	1,50,000/-
	2014-16	UGC	1,20,000/	80,000/-
	2014-16	UGC	1,50,000	1,20,000/-
	2014-16	UGC	1,70,000/	1,25,000/-
	2014-16	UGC	1,75,000/	1,02,500/-
	2014-16	UGC	1,30,000/	80,000/-
	2014-16	UGC	1,37,000/-	72,500/-
	2014-16	UGC	1,90,000/	1,35,000/-
	2014-16	UGC	2,00,000/-	1,60,000/-
	2014-16	UGC	1,02,000/-	81,000/-
	2013-15	UGC	1,10,000/-	62,500/-
	2013-15	UGC	1,40,000/	1,00,000/-
	2013-15	UGC	1,50,000/	97,500/-
	2013-15	UGC	1,40,000/-	1,10,000/-
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College				
Students research projects (<i>other than compulsory by the University</i>)	1	Karnataka State Council For Science And Technology IISc campus	24,000/-	24,000/-
Any other(Specify)				
Total			71,74,800/-	61,32,800/-

3.7 No. of books published i) With ISBN No. Chapters in Edited Books ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

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

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

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number		6			
Sponsoring agencies		UGC			

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

3.13 No. of collaborations International National Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs:

From Funding agency From Management of University/College
 Total

3.16 No. of patents received this year

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

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

Total	International	National	State	University	Dist	College
		1				

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

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

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

JR SRF Project Fellows Any other FIP

3.21 No. of students Participated in NSS events:

University level State level
 National level International level

3.22 No. of students participated in NCC events:

University level State level
 National level International level

3.23 No. of Awards won in NSS:

University level State level
 National level International level

3.24 No. of Awards won in NCC:

University level State level
 National level International level

3.25 No. of Extension activities organized

University forum College forum
 NCC NSS Any other

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

Some of the activities organized by the institution in the sphere of extension activities and Institutional Social responsibilities-

- Organised exhibition followed by lecture related to “Non-conventional sources of energy” on Science Day.
- Composition of lyrics and music for the college Prayer Song by faculty.
- Workshop on Cultivation of edible mushroom *Pleurotus* species for students.
- Certificate course for students in Bharatanatyam by Faculty member.
- Students participated in Saviskara-State Level Model making competition.
- Visit to various institutes and industries to enhance their practical skills and exposure to technology.

- Field trip was made at natural habitats of Siddherbeta, Tumkur District for plant collection
- Participation of students in intercollegiate festival to exhibit their talents
- Screened drama for language students.
- Guided students to participate at zonal level science exhibition.
- Encouraged students to participate in inter collegiate lecture competition.

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	19493.39 SQM			19493.39 SQM
Class rooms	34	03	GOVERNMENT FUND	37
Laboratories	38			38
Seminar Halls	01			01
No. of important equipments purchased (≥ 1-0 lakh) during the current year.				
Value of the equipment purchased during the year (Rs. in Lakhs)				
Others				

4.2 Computerization of administration and library

Administration is computerised with online admissions, HRMS, Biometric attendance. Library is OPAC enabled giving easy access to books; Network centre in the library provides accessibility to e- journals and e -books.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	36939	56,0000 0	1444	441798	38383	6041798
Reference Books	6800	8,00000	62	115000	6862	915000
e-Books (NLIST)	93809	5575	-	-	93809	5575
e-Journals (NLIST)	6247		-	-	6247	
Journals	32	80000	-	-	32	80000
Digital Database						
CD & Video	300				300	
Others (specify)						

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	185	3	23	01	3	8 copiers	5 ICT class room	16 printers
Added	10	-	-	-	1	-	3	1
Total	195	3	23	01	4	8	8	17

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

1. Awareness programme for PG students regarding e-books & e-Journals
2. Bioinformatics Certificate Course for students.

4.6 Amount spent on maintenance in lakhs :

- i) ICT
- ii) Campus Infrastructure and facilities
- iii) Equipments
- iv) Others (Library Easylib Software-AMC)

Total :

Criterion – V**5. Student Support and Progression****5.1 Contribution of IQAC in enhancing awareness about Student Support Services**

Students were encouraged to participate in conferences and present their project findings.

Creating awareness about various scholarships offered by the Government /private agencies and well-wishers/staff of the college.

Placement cell updates students about various opportunities and conducts placement drives.

Soft skills and communication skills classes are conducted through Naipunya Nidhi

5.2 Efforts made by the institution for tracking the progression

Collecting information from the passed out students .

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
2014-15	2014-15		
I year- 393	I year- 96		
II year- 378	II year- 113		
III year- 329	III year-30		
Total – 1100	239		
2015-16	2015-16		
I year- 443	I year- 92		
II year- 340	II year- 96		
III year- 375	III year-29		
Total 1158	217		

(b) No. of students outside the state

29

(c) No. of international students

Nil

No	%	Men
00		

No	%	Women
1372	100	

Last Year (2014-15)						This Year (2015-16)					
General	SC	ST	OB C	Physically Challenged	Total	General	SC	ST	OB C	Physically Challenged	Total
255	187	48	610	0	1100	245	189	47	677	0	1158
21	62	37	123	0	243	25	33	5	151	0	214

Demand ratio **100%**Dropout % **11%**

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

Nil

No. of students beneficiaries

Nil

5.5 No. of students qualified in these examinations

NET	<table border="1"><tr><td>00</td></tr></table>	00	SET/SLET	<table border="1"><tr><td>01</td></tr></table>	01	GATE	<table border="1"><tr><td>00</td></tr></table>	00	CAT	<table border="1"><tr><td>00</td></tr></table>	00
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01											
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00											
IAS/IPS etc	<table border="1"><tr><td>00</td></tr></table>	00	State PSC	<table border="1"><tr><td>00</td></tr></table>	00	UPSC	<table border="1"><tr><td>00</td></tr></table>	00	Others	<table border="1"><tr><td>00</td></tr></table>	00
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5.6 Details of student counselling and career guidance

Training, Seminars, Workshops organised

Sl No	Date	Training	Resource Person	No attended
1	16-02-2016	Post graduate programs for Science Students	Dr. Gayathri Sabharwal & Dr. Shivakumar Institute of Bioinformatics and Applied Biotechnology	89
2	17-08-2016	How to Prepare for CSIR-NET for MSc students	Akshya Siva, Research Scholar, IISc	143
3	24-03-2016	Industry Career enablement Program	Raghavendra. M, Dare 2 Dream	52

No. of students benefitted 2015-16

284

5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
02	217	70	---

CAMPUS RECRUITMENT

Sl No	Date	Company	Venue	Students participated	Students selected
1	29-01-2016	IBM CONCENTRIX India Ltd	MSCW	121	38
2	18-02-16	Atria Convergence Technologies	MSCW	96	32

5.8 Details of gender sensitization programmes

Documentary was screened for the students to create awareness about Feminine Sensibility.

5.9 Students Activities

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

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

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

Sports : State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount In Rs.
Financial support from institution	39	39416.00
Financial support from government	417	22,59,833
Financial support from other sources	35	30,000
Number of students who received International/ National recognitions	--	--

5.11 Student organised / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

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

Criterion – VI**6. Governance, Leadership and Management**

6.1 State the Vision and Mission of the institution

VISION

Empowering women towards excellence with scientific temper and social concern.

MISSION

We aspire.....

To provide quality and holistic education.

To prepare students for challenging careers by practicing innovative pedagogy.

To develop research culture.

6.2 Does the Institution has a management Information System

The Education Management Information System of the Directorate of Collegiate Education monitors the activities of the college. The details of faculty, time table and workload are updated on a regular basis. Admission to the college is also online. Salary is through HRMS.

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

6.3.1 Curriculum Development

The College is affiliated to Bangalore University and follows the curriculum developed by the university. Many faculty of the College are members of Board of Studies in the University as well as some Autonomous colleges, and hence have contributed for the curriculum development for the students based on the current needs.

The Bioinformatics Information Facility (BIF) of the College is offering Certificate courses to facilitate the students for career opportunities, wherein the curriculum for the course is developed by the faculty.

Likewise, the faculty of Department of Botany have developed a curriculum for the UGC sponsored Add on course on Biodiversity and the role of medicinal plants in primary health care.

6.3.2 Teaching and Learning

Largely the faculty use chalk and talk method for teaching. ICT and smart classrooms with interactive boards are used by some of the UG and PG faculty. Assignments, Student Seminars, Group Discussions, Quiz, Model Making, Chart Making, Computer Simulations, Student Research Projects are the various methods used to make teaching learning more interactive. The Inflight facility at the library helps to keep abreast with latest information to staff and students. The BIF is especially used by the life science PG students for their research projects and Seminars. Some of the faculty members do use the facility constantly for their research activities.

6.3.3 Examination and Evaluation

Under continuous evaluation system, the college conducts internal tests, assignments and seminars. Any changes in the examination system/pattern are informed to the students in the display notice boards as well as in weekly assembly. PG students are given two class tests and are evaluated also by assignments and Seminars/Presentations. PG students are always encouraged to participate in National conferences and present research papers. At the end of the semester they are given pre-final examination and prepared to the Final Semester Exams of the University. Mock Practical Exams are conducted for the UG and PG students well in advance to boost their confidence and also to hone their practical skills.

6.3.4 Research and Development

College has 3 ongoing major research projects and 15 minor research projects. The faculty have published 14 research papers in peer reviewed international journals and 4 papers in national journals. Faculty have presented 31 papers in national and 3 international conferences. Department of Economics has presented research papers along with the students. Department of Electronics and Statistics have encouraged UG students to undertake research projects and also published papers. Four professors are recognised PhD guides and 6 PhD scholars are pursuing PhD in the college.

6.3.5 Library, ICT and physical infrastructure / instrumentation

The college library has over 50000 books with 28000 titles. The library has an OPAC system to provide easy access to the books and journals. E journals and e- books can be accessed through INFLIBNET. The Library has added 1506 books in 2015-16 spending Rs. 556798.00. The PG departments maintain their own library to facilitate the students.

The college has adequate infrastructure and has added 4 new rooms in the PG block, 2 of which will be made into computers labs. Five classrooms have been equipped with systems and facility for screening of educational programs through EDUTEL.

The PG block and hostel have been installed with roof top solar panels (10KVA) in collaboration with BESCO, TERI and the CSR initiative of HAL.

All laboratories have been upgraded with new instruments required as per the revised syllabus, some the equipments include the ELISA reader, pH meters, microscopes.

6.3.6 Human Resource Management

Permanent faculty salary is managed by Human Resource Management System and some of the supporting staff is maintained through College Development Council Fund.

6.3.7 Faculty and Staff recruitment

The permanent faculties are appointed by the Karnataka Public Service Commission. If any faculty position lies vacant it is informed to the Department of Collegiate Education, Government of Karnataka and they in turn transfer faculty from other government colleges in the state. Guest faculty wherever required apply online on the website of the Directorate of collegiate education who release the merit list of the registered candidates. The guest faculty is then appointed by the college after due verification of documents.

6.3.8 Industry Interaction / Collaboration

Memorandum of Understanding has been signed between Department of Chemistry and Robust Materials –a testing lab which would impart training in lab testing and identification techniques using latest techniques.

6.3.9 Admission of Students

Since 2014-15 admission process for I BSc students has been made online by Directorate of Collegiate Education (DCE) on the website www.dce.kar.nic.in. This has also been announced by the authorities in leading newspapers as soon as the II PUC results are announced. The admission notification is also displayed on the college notice boards, providing detailed and related information about the process of admission and fees to be remitted. Online applications are invited, processed and selection list is announced category wise and combination wise by the DCE. Transparency in admissions is maintained by means of an Admission committee headed by the Principal. Social justice is provided by following the roster system of GoK.

The PG(M.Sc Physics, Mathematics, Microbiology, Biochemistry) students apply to Bangalore University and in the counselling session select our college and get admitted. Admission to MCA is done through VTU entrance and counselling.

6.4 Welfare schemes for

Teaching	
Non teaching	
Students	

6.5 Total corpus fund generated

NIL

6.6 Whether annual financial audit has been done

Yes

No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	YES	LIC (BANGALORE UNIVERSITY)	YES	IQAC
Administrative	YES	ACCOUNTANT GENERAL	YES	STATE ACCOUNTS DEPT.

6.8 Does the University declare results within 30 days?

For UG Programmes

Yes

No

For PG Programmes

Yes

No

6.9 What efforts are made by the University for Examination Reforms?

Being an affiliated college of Bangalore University and the MCA course under Visveshwaraiah Technical University, the college abides by the examination reforms set by the University. The University has taken steps to computerise the examination evaluations. OMR sheets are provided for Practical and Theory Examinations. Internal Assessment marks are sent online.

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

The University always encourages its affiliated colleges to obtain Autonomy. A selective team is sent to the Affiliated Colleges who opt to obtain autonomy. The team scrutinises the application, visits the colleges and sends appropriate recommendations to the UGC. The college has applied for autonomy in the year 2014-15.

6.11 Activities and support from the Alumni Association

The College has an active alumni Association. Alumni Association of our college collaborated with Rotary down town and organised four one day workshops "Finding You".

6.12 Activities and support from the Parent – Teacher Association

The College organises Parent Teacher meeting regularly. Though there is no PTA, the parents are always encouraged to visit the college and interact with the teachers to know about the improvement of their ward.

6.13 Development programmes for support staff

The DCE conducts Computer training programs for the benefit of supporting staff. The Government of Karnataka has also made it compulsory for the teaching and supporting staff to pass the Computer Literacy Test.

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

The Heritage Building and the Annexe is equipped with natural lighting and ventilation and hence there is reduction in the need for electric fans. The campus also boasts of being a lung space with greenery around. A solid waste management pit takes care of the waste generated. The campus also recharges ground water table using rain water. The hostel and the annexe are equipped with solar lighting. Solar power generation supports the annexe classrooms and laboratories. The campus lighting is done using ecofriendly LED bulbs. Waste segregation into dry, wet and hazardous waste is done at source in the college as well as the hostel. The college canteen and the campus had banned plastic. Generated E-waste is handed over to a NGO which disposes it safely.

Criterion – VII**7. Innovations and Best Practices**

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

Guiding students to write articles, project work presentation by students in conference, college song “Vidyaa Kala Gunavathi”, composed by our faculty for weekly assembly, mushroom cultivation by students, campus fauna diversity observation by the students, certificate course in Bharatanatyam conducted by a faculty member are some of the practices followed beyond the curriculum.

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

As per the plan of action our Institution worked towards DST-FIST, Star College Scheme, Centre for Potential Excellence, and Cluster University. The proposed schemes have been approved for financial assistance. Conducted quiz, seminar, essay competition, talents week, encouraged student project work and presentation of the same in national conference, cultural activities, organized National conference, industrial and Institute visit.

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

- Encouraging departments to organize seminars and workshop to update with current scientific research.
- Observation of fauna diversity of campus, mushroom cultivation and Design and development of higher resolution, faster conversion speeds and lower power dissipation Analog-to-digital converters (ADCs)

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

7.4 Contribution to environmental awareness / protection

The annexe and the hostel harness solar energy and produce 20kWh power for which rebate in the electricity bill is obtained. Saplings have been planted in the campus to enrich the green cover.

7.5 Whether environmental audit was conducted?

Yes

No

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

- Upgrade the laboratories
- Start new PG and PhD programmes to promote academics and research.
- Sign MoUs with institutions and industries to meet the current market needs for better job opportunities.
- Establish Central Instrumentation facility with support of DST-FIST.
- To encourage more student research projects in association with funding agencies such as VGST.
- Upgrade the Institution into Cluster University.
- Design experiments and academic related programmes under Star College Scheme, CPE and DST-FIST.

8. Plans of institution for next year

IQAC of our institution aims at developing a system of conscious, consistent and continuous quality improvement.

- Completion of up-gradation process of the institution into Cluster University.
- Conduct workshops and seminars for academic and research advancement.
- Start Language lab to improve english language and communication skills.
- Streamline and Strengthen Internal Quality Assurance Cell.
- Initiate add on and vocational courses for entrepreneurship development.
- Assess and monitor quality issues and initiate measures for quality sustenance.
- Adapt choice based credit system.
- Invite academic experts and administrators for their valuable suggestions to facilitate quality improvement.
- Conduct Academic, Administrative and Environment Audit
- The members of the IQAC to attend National Level Conferences on quality initiative and present papers to share and update their information.
- Curricular design and development for cluster University by all stake holders.
- Conduct short term skill based programmes for the teachers
- Increase Certificate courses for the students.
- Organize extension activities and outreach programmes.
- Collaborate for academic and research activities with other institutions and universities.
- Drinking water and toilet facilities to be addresssed.
- To strengthen Placement activities more towards entrepreneurship.
- Create modules for collecting feedback from the stake holders.

Name: *Dr.Hemalatha A*



Signature of the Coordinator, IQAC

Name: *Prof. K.T.Manjunath*



Signature of the Chairperson, IQAC

Principal
Maharani's Science College for Women
Bangalore

Annexure

Jun-15					
Sunday		7	14	21 International Yoga Day	28
Monday	1	8	15 Reopening of Academic Year	22	29
Tuesday	2	9	16	23	30
Wednesday	3	10	17 Orient ation to Teachers	24	
Thursday	4	11	18	25	
Friday	5 World Environment Day	12	19	26	
Saturday	6	13 Inter Deptl Seminar (Bio-Chem)	20 Alumne Meet-1	27 Inter Deptl Seminar (Physics)	
Jul-15					
Sunday		5	12	19	26
Monday		6 Orientation Pgm for fresher's	13 Cultral Inagua ration	20	27 <u>1st Internal test</u>
Tuesday		7	14	21	28 <u>1st Internal test</u>
Wednesday	1	8 College Assembly	15 College Assembly	22 College Assembly	29 College Assembly/ <u>1st Internal test</u>
Thursday	2	9	16	23	30
Friday	3	10 Elections CRs &and forming Association	17	24 Alumne Meet-2	31
Saturday	4	11 Inter Deptl Seminar (Zoology)	18 Ramzan (Holiday)	25 Inter Deptl Seminar (Maths)	
Maharani's Science College for women, Bangalore					
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Aug-15					
Sunday	30	2	9	16	23
Monday	31	3 College <u>Eco day</u>	10 College Sambrama	17	24 Talents week
Tuesday		4	11	18	25 Talents week
Wednesday		5 College Assembly	12 College Assembly	19 College Assembly	26 College Assembly/ Talents week
Thursday		6 Parent Teachers Meeting-1	13	20	27 Talents week
Friday		7	14	21	28 Talents week
Saturday	1	8 Inter Deptl Seminar (Micro biology)	15 Independence Day (Holiday)	22 Inter Deptl Seminar (Chemistry)	29 Talents week
Sep-15					
Sunday		6	13	20	27
Monday		7 Study tour	14	21 Commencement of Prac-EXAM	28
Tuesday	1	8 Study tour	15	22	29 World Heart Day
Wednesday	2 College Assembly <u>2nd Internal test</u>	9 College Assembly/ Parent Teachers Meeting-2	16	23	30
Thursday	3 <u>Internal test</u> <u>2nd</u>	10 Last Date to Submit IA to BUB	17 Ganesh Chaturthi (Holiday)	24 Bakrid (Holiday)	
Friday	4 <u>2nd Internal test</u>	11 Alumne Day	18	25	
Saturday	5 Teacher's Day	12 Last Working day(Odd sem)	19	26	

Oct-15					
Sunday	31	4	11	18	25
Monday		5	12 Mahalaya Amavasya (Holiday)	19	26
Tuesday		6	13	20	27 Vaalmiki Jayanti (Holiday)
Wednesday		7	14	21	28 Commenceme nt of Theory- EXAM
Thursday	1	8	15	22 Ayudha Pooja (Holiday)	29
Friday	2 Gandhi Jayanthi (Holiday)	9	16	23 Vijayadashami (Holiday)	30
Saturday	3	10	17	24 Moharam (Holiday)	31
Nov-15					
Sunday	1	8	15	22	29
Monday	2	9	16	23	30
Tuesday	3	10 Naraka Chaturdashi World Science Day for Peace and Development	17	24 Closing of Theory-Evaln	
Wednesday	4	11 Commencement of Theory-Evaln	18	25	
Thursday	5	12 Bali Padyami (Holiday)	19	26	
Friday	6	13	20	27	
Saturday	7	14 World Diabetes Day	21	28 Kanakadasa Jayanti (Holiday)	

Dec-15					
Sunday		6	13	20	27
Monday		7	14 Kannada Rajyothsava	21	28
Tuesday	1	8	15	22	29
Wednesday	2	9 Reopening of Even Sem	16 College Assembly	23 College Assembly	30 College Assembly
Thursday	3	10	17	24 Id-Milad (Holiday)	31
Friday	4	11	18	25 Christmas Day (Holiday)	
Saturday	5	12 Inter Deptl Seminar (Computer Science)	19	26 Inter Deptl Seminar (Botany)	
Jan-16					
Sunday	31	3	10	17	24
Monday		4	11	18	25
Tuesday		5	12 National Youth Day (Vivekanand a Jayanthi)	19	26 Republic Day (Holiday)
Wednesday		6	13	20	27
Thursday		7	14 Makara Sankramana (Holiday)	21	28
Friday	1	8	15	22	29
Saturday	2	9 Inter Deptl Seminar (Sports)	16	23 Inter Deptl Seminar (Statistics)	30

Feb-16					
Sunday		7	14	21	28 National Science Day
Monday	1	8	15	22	29
Tuesday	2 College Assembly	9 College Assembly	16 College Assembly	23 College Assembly	
Wednesday	3	10	17	24	
Thursday	4 World Cancer Day	11	18	25	
Friday	5	12	19	26 Maha Shivratri (Holiday)	
Saturday	6	13 Inter Deptl Seminar (Electronics)	20	27 Inter Deptl Seminar (Sericulture)	
Mar-16					
Sunday		6	13	20	27
Monday		7	14	21	28
Tuesday	1	8 International Women's Day	15	22 World Water Day	29
Wednesday	2 College Assembly	9 College Assembly	16 College Assembly	23 College Assembly	30 College Assembly
Thursday	3	10	17	24	31
Friday	4	11	18	25 Good Friday (Holiday)	
Saturday	5	12 Inter Deptl Seminar (Bio Technology)	19 Last Working day(Even sem)	26	

Apr-16					
Sunday		3	10	17	24
Monday		4	11	18	25
Tuesday		5	12	19 Mahavir Jayanti (Holiday)	26
Wednesday		6 College Assembly	13 College Assembly	20 College Assembly	27 College Assembly
Thursday		7 World Health Day	14 AmbedkarJa yanthi (Holiday)	21	28
Friday	1	8 Ugadi (Holiday)	15	22 World Earth Day	29 International Dance Day
Saturday	2	9	16	23	30
May-16					
Sunday	1 May day (Holiday)	8	15	22	29
Monday	2	9	16	23	30
Tuesday	3	10	17	24	31
Wednesday	4 College Assembly	11 College Assembly	18 College Assembly	25 College Assembly	
Thursday	5	12	19	26	
Friday	6	13	20	27	
Saturday	7	14	21	28	

Annexure for 7.3:**1. Objective:**

- 1a. To identify the fauna of the college campus to encourage students to learn about biodiversity
- 1b. Cultivate mushroom to empower students towards entrepreneurship.
- 1c. Design and development of higher resolution, faster conversion speeds and lower power dissipation Analog-to-digital converters (ADCs)

1a. Context: Maharani's Science College for Women, Bangalore laced in a sprawling 11.5 acre land and has retained a lush green cover in the centre of the city. So the college has taken up initiatives to train students to identify the fauna and know their species diversity of the campus. This concept is later extrapolated to ecosystem studies and human-animal interactions leading to conservation.

Practice: Students are taken to the garden area of the college campus after their class hours to observe the different animal species of the campus and photograph them. Later they identify the species referring text books and consulting the subject specialists.

Evidence of success: This is a preliminary work started by the department of Zoology. Students have participated enthusiastically in the field activity and identified a number of insect species, few birds and mammals.

Problems encountered and resources required: Due to lack of funds collection, preservation and mounting of insect species was not achieved. Photographs of low resolution were clicked by our mobile cameras. Equipments and chemicals are required for capturing, fixing and to mount the insect species. A good quality high definition Camera for high resolution pictures is lacking.

1b. Context: To create awareness amongst the students about the nutritional and medicinal value of mushrooms and introduce entrepreneurship skills in rural women.

Practice: Students collected the spawn of edible mushroom *Pleurotus* species from GKVK and the faculty members conducted a workshop on Mushroom cultivation and trained them to cultivate mushroom in laboratory.

Evidence of success: Stake holders were benefitted and have given positive feedback on the same.

Problems encountered and resources required: Continuous maintenance of mushroom culture was not possible due to lack of human resources and air conditioning facility. Air conditioner and Racks to maintain Mushroom cultures are required.

1c. Objective: Design and development of higher resolution, faster conversion speeds and lower power dissipation Analog-to-digital converters (ADCs)

Context: In the real world, most data is characterized by analog signals. In order to manipulate the data using digital systems, we need to convert the analog signals to the digital signals. Analog-to-digital converters convert analog signal into digital. ADCs are critical building blocks in a wide range of hardware from radar and electronic warfare systems to multimedia based personal computers and work stations. The need constantly exists for converters with higher resolution, faster conversion speeds and lower power dissipation.

Practice: Every final year B.Sc students are exposed to design and develop different higher resolution, faster conversion speeds and lower power dissipation Analog-to-digital converters.

Evidence of success: From this work, students are exposed to Research work, research paper writing skill. Also they learn Machine language to write machine level programs.

Problems Encountered: In semester system they do not find time in regular working days.

Resources Required: Regular UG Laboratory equipments are used to carry out this research Work.

2. The departments of the college were encouraged to organize seminars, conferences and workshop to update with current scientific research.

1. **Objective:** Encouraging departments to organise seminars, workshop and conference from various departments to keep abreast with current findings and to be trained with advanced technical skills.
2. **Context:** Science, its concepts and theories are based on assumptions, evidences and postulates. There is scope for their modulations based on research and hence it is essential to organise scientific meetings to expand current research information.
3. **Practice:** Regular seminars, Special Lectures, Conferences and Workshops are organized by various departments of the college, which is supported by UGC grants, Indian Academy of Sciences, College Development Fund and Sponsors from other organizations.
4. **Evidence of success:** Our Institution organizes regular National conferences and workshops, Seminar, Special Lectures and Exhibitions which benefits the faculty members, Students, Supporting staff, Delegates with a good take home message.
5. **Problems encountered and resources required:** Dearth of supporting staff and financial grants. Required resources are funds to organise more scientific events and supporting staff.