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

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. (Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)

Part – A

**AQAR for the year (for example 2013-14)**

**2016-17**

### 1. Details of the Institution :

1.1 Name of the Institution

**MAHARANI LAKSHMI AMMANI COLLEGE FOR WOMEN**

1.2 Address Line 1

MALLESHWARAM

Address Line 2

SCIENCE POST

City/Town

BANGALORE

State

KARNATAKA

Pin Code

560012

Institution e-mail address

mlacw@mlacw.org

Contact Nos.

080-23360816

Name of the Head of the Institution:

Dr. N. RADHAKRISHNA

Tel. No. with STD Code:

080 23565727

Mobile:

9480216015

Name of the IQAC Co-ordinator:

Mobile:

IQAC e-mail address:

1.3 NAAC Track ID (For ex. MHC0GN 18879)

**OR**

1.4 NAAC Executive Committee No. & Date:  
 (For Example EC/32/A&A/143 dated 3-5-2004.  
 This EC no. is available in the right corner- bottom  
 of your institution's Accreditation Certificate)

1.5 Website address:

Web-link of the AQAR:

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	B+		2004	2009
2	2 <sup>nd</sup> Cycle	A	3.09	2010	2015
3	3 <sup>rd</sup> Cycle	A	3.25	2016	2021
4	4 <sup>th</sup> Cycle	-	-	-	-

1.7 Date of Establishment of IQAC : DD/MM/YYYY

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 2015 – 2016 submitted on 16.07.2016
- ii. AQAR 2014 – 2015 submitted on 03.07.2015
- iii. AQAR 2013 – 2014 submitted on 06.08.2014
- iv. AQAR 2012 – 2013 submitted on 31.08.2013
- v. AQAR 2011 – 2012 submitted on 27.09.2012
- vi. AQAR 2010 – 2011 submitted on 10.03.2012

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)  B.VOC PROGRAMMES – UGC SUPPORTED  
ADD – ON COURSES – UGC SPONSORED

1.11 Name of the Affiliating University (for the Colleges)

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  UGC-CPE

DBT Star Scheme

YES

UGC-CE

UGC-Special Assistance Programme

DST-FIST

YES

UGC-Innovative PG programmes

Any other (*Specify*)

- DBT-BIF, Govt. of India
- Biotechnology Finishing School, DBT, Govt. of Karnataka,

UGC-COP Programmes

## **2. IQAC Composition and Activities**

2.1 No. of Teachers

12

2.2 No. of Administrative/Technical staff

02

2.3 No. of students

02

2.4 No. of Management representatives

02

2.5 No. of Alumni

02

2.6 No. of any other stakeholder and

01

Community representatives

2.7 No. of Employers/ Industrialists

NIL

2.8 No. of other External Experts

01

2.9 Total No. of members

22

2.10 No. of IQAC meetings held

10

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

Non-Teaching Staff  Students  Alumni  others

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

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

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

Total Nos.  International  National  State  Institution Level

(ii) Themes:

**Conference-**

National conference on “An integrated approach to diagnosis and therapy in cancer” held on March 7-8, 2017

3 day FDP on Internship educators program by National Entrepreneurship Network (27<sup>th</sup> 28<sup>th</sup> 29<sup>th</sup> December 2016

**FDP-**

“Mentoring the mentors” by Dr. Ravi Kumar, CEO, XCyton Diagnostics, Jan 4, 2017

“Pharmacophore modelling” by Ms. Divya , Apsara innovation Bangalore 7<sup>th</sup> April 2016

**Workshop-**

1. Skill Development training program for I M.Sc. (Biotechnology & Biochemistry students) – Fermentation technology, Nutrition & techniques in plant breeding, Analytical techniques, Molecular diagnostics Feb 10th to 15th 2017
2. Workshop on “Analytics with R” on March 20, 2017
3. Workshop for PUC faculty on “Molecular Techniques” Nov. 25, 2016
4. Workshop on “ fourier transform and imaging”19<sup>th</sup> August 2016
5. Workshop on “Android application development “ in collaboration with IIT Mumbai,Robocart.com 3<sup>rd</sup> 4<sup>th</sup> Jan 2017
6. Big data analysis-October 12, 2016
7. Data analysis using next Gen sequencing- March 21-22, 2016.

## 2.14 Significant Activities and contributions made by IQAC

- Preparation of guidelines and policies for smooth conduct of academic and administrative related activities under Autonomous status conferred by UGC
- STEP-Student Training and Enrichment Program
- Faculty Development and Orientation programs for knowledge enrichment for newly appointed faculty.
- Student centric activities like in-house projects, soft skill development program, internships to facilitate students' overall progression
- Social awareness programs to sensitize students and staff (zero campus drive, segregation of waste by housekeeping staff, installation of biogas plant, use of eco-friendly products, blood donation camp, Swacch Bharath Abhiyaan with support from Dr. Ashwathnarayan, MLA, Malleswaram.,self-defence technique demonstration by Mr. Kartik Kateel for prevention of sexual harassment on women, quiz and debate on rain water harvesting and water conservation by KSCST, IISc. and Nisarga Mahila Samaja Bengaluru.
- Inauguration of college museum highlighting significant achievements of the college from past to present.

## 2.15 Plan of Action by IQAC/Outcome

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

Plan of Action	Achievements
Pending autonomy status from UGC, our college will prepare procedures and guidelines and will seek suggestions and support from experts to prepare for Autonomy	<b>Autonomous status</b> conferred by UGC to the institution
Shift the teaching-learning paradigms to learner centric by introducing comprehensive and continuous evaluation	<b>Star College Status</b> conferred to all Life Science Departments by DBT, Govt. of India (under Star College Scheme)  <b>Implementation of Star College program</b> for all Physical science departments  IIT-JAM coaching programs  Successful implementation of <b>STEP-Student Training and Enrichment Program</b>  Increase in student enrolment for UG & PG course
Designing calendar of events so as to enable students to take up competitive examinations, internships and short-term projects.  Inclusion of add-on courses and internship for UG & PG students	Facilitated students' overall progression (skill development training program, <b>IIT-JAM</b> coaching program, placement training, internship)
To be the nodal research centre in science, commerce and humanities.	Increase in MoU (certified by recognized bodies)  Recognition of faculty members as research guides and research collaborations with other universities.  Faculty Development programs for knowledge enrichment
Organizing international conference periodically on the theme of global issue	Organizing national conference on "An integrated approach to diagnosis and therapy in cancer" held on March 7-8, 2017
Applying for intellectual property rights with reference to <b>Student Training and Enrichment program</b>	<b>Granting of Copyright</b> for Student Training and Enrichment program

### Annexure 1- Calender of events

2.15 Whether the AQAR was placed in statutory body    
Management  syndicate  Any other body

Provide the details of the action taken

Constitution of various committees for implementing autonomy successfully, in consultation with various stakeholders.

To have a professional approach for various institutional activities, efforts were made to consult experts to obtain their expertise and incorporating their suggestions.

**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	01	01	01	
PG	04		04	
UG	18		14	02
PG Diploma				
Advanced Diploma	10			10
Diploma	10			10
Certificate	10			10
Others				
<b>Total</b>	<b>53</b>	<b>01</b>	<b>19</b>	<b>32</b>

Interdisciplinary	31	01		01
Innovative	02	02		02

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

## (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	YES
Trimester	
Annual	

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

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

**Analysis of feedback- Annexure - 2**

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

All the subjects in different programs as mentioned above have been revised and updated as per Autonomous college guidelines (constitution of BOS for restructuring and later approved by the Academic council)

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

College Museum (showcasing the history and growth of the institution)

## Criterion – II

### 2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	95	76	18	-	01

2.2 No. of permanent faculty with Ph.D.

24

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
02	NIL	NIL	NIL	NIL	NIL	15	NIL	17	NIL

2.4 No. of Guest and Visiting faculty and Temporary faculty

26

-

-

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	03	52	12
Presented papers	07	06	03
Resource Persons	01	05	07

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

- Introduction of self-study component to enable students to develop inclination towards research
- DBT Star college in-house projects to promote scientific temper among students.
- Skill Development Modules: for M.Sc. Biochemistry and Biotechnology students designed to complement classroom teaching by providing hands-on training in specified subject areas. The modules, which are conducted during the semester breaks, consists of daily laboratory sessions during which students perform experiments and analyse their results. These modules are being implemented with the aim of improving student's practical and analytical skills
- **e- Learning :** Launching a plethora of technology oriented methods to support the teaching-learning strategies and achieve objectives to enhance students' proficiency which includes
  - **Local chapter for NPTEL:** We are one of the very few degree colleges in Bangalore to be the local chapter for NPTEL, an online learning portal that ensures curriculum building exercise and in directed towards providing learning materials in science and engineering.
  - Use of Video lectures, virtual labs to experience the anytime anywhere access for complex experiments.
  - Online Study material, Online Quiz for preparedness for competitive exams
  - E-books for rapid reference, Animations for a better understanding of difficult concepts.
  - Video recording of lectures delivered by eminent Scientists and relaying it to students,
- Initiation of in house projects by management studies department.
- Initiation of Tally add-on course for B.Com students and internship for M.Com students.

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

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

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

2.10 Average percentage of attendance of students

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	No. of students					Pass %
		Distinction	I	II	III		
B.sc	I Sem	212	98	140	3	0	67.45
	II Sem	209	123	144	1	0	69.38
	III Sem	135	81	98	0	0	72.59
	IV Sem	136	82	101	1	0	75.00
	V Sem	145	95	95	1	0	66.21
	VI Sem	143	94	109	3	0	78.32
B.Com	I Sem	204	62	112	16	0	62.75
	II Sem	201	74	123	18	0	70.15
	III Sem	284	60	139	31	0	59.86
	IV Sem	282	129	220	20	0	85.11
	V Sem	298	153	230	25	0	85.57
	VI Sem	292	159	219	12	0	79.11
B.A	I Sem	70	2	16	6	1	32.86
	II Sem	67	23	34	3	9	68.66
	III Sem	96	13	29	10	0	40.63
	IV Sem	87	21	41	8	0	56.32
	V Sem	66	11	40	7	1	72.73
	VI Sem	69	20	56	3	2	88.41
BBM	I Sem	41	17	28	40	0	165.85
	II Sem	41	14	26	5	0	75.61
	III Sem	52	17	30	4	0	65.38
	IV Sem	53	23	36	4	0	75.47
	V Sem	16	10	10	1	0	68.75
	VI Sem	16	6	11	2	1	87.50

<b>BCA</b>	<b>I Sem</b>	87	22	49	4	0	60.92
	<b>II Sem</b>	82	26	39	4	0	52.44
	<b>III Sem</b>	68	38	56	1	0	83.82
	<b>IV Sem</b>	68	35	58	2	0	88.24
	<b>V Sem</b>	90	66	66	5	1	80.00
	<b>VI Sem</b>	89	44	72	6	0	87.64
<b>B.Voc. Data &amp; Web Analytic s</b>	<b>I Sem</b>	8	2	2	0	0	25.00
	<b>II Sem</b>	8	1	7	0	0	87.50
	<b>III Sem</b>	25	11	17	0	0	68.00
	<b>IV Sem</b>	<b>Results awaiting</b>					
	<b>V Sem</b>	24	20	22	0	0	91.67
	<b>VI Sem</b>	24	18	24	0	0	100.00
<b>B.Voc. Medical Lab Tech</b>	<b>I Sem</b>	10	6	8	1	0	90.00
	<b>II Sem</b>	8	4	8	0	0	100.00
	<b>III Sem</b>	5	4	4	0	0	80.00
	<b>IV Sem</b>	5	3	3	0	0	60.00
	<b>V Sem</b>	7	7	7	0	0	100.00
	<b>VI Sem</b>	7	7	7	0	0	100.00
<b>M.Sc BT</b>	<b>I Sem</b>	19	10	6	0	0	84.21
	<b>II Sem</b>	19	11	4	0	0	84.21
<b>M.sc BC</b>	<b>I Sem</b>	18	6	4	0	0	55.56
	<b>II Sem</b>	17	11	4	0	0	88.24
<b>M.A Kan</b>	<b>I Sem</b>	13	-	0	0	0	100
	<b>II Sem</b>	13	-	0	0	0	100
<b>M.Com</b>	<b>I Sem</b>	35	13	14	1	0	80
	<b>II Sem</b>	34	17	12	3	0	94.12

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

- ✓ Facilitating constitution of BOS, BOE, academic council for improving quality of syllabus
- ✓ Encouraging students' participation in co-curricular activities (projects, internship etc)
- ✓ Participation of faculty members in FDP programs (attending workshops, refresher courses, guiding student research projects)
- ✓ Student feedback mechanism for evaluation (for example, from alumni about the course content if it was beneficial).
- ✓ Alumni meeting
- ✓ Parent-Teacher meeting
- ✓ Student counselling centre for needy students

### 2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	02
UGC – Faculty Improvement Programme	-
HRD programmes	26
Orientation programmes	13
Faculty exchange programme	-
Staff training conducted by the university	01
Staff training conducted by other institutions	12
Summer / Winter schools, Workshops, etc.	30
Others	03

### 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	56	NIL	02	NIL
Technical Staff	18	NIL	NIL	NIL

## Criterion – III

### 3. Research, Consultancy and Extension

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

- ✓ Constitution of research committee for internal scrutiny before the submission of proposals to funding agencies and research papers to the journals.
- ✓ Encouraging teachers to present research papers in national and international conferences and apply for travel grants
- ✓ Encouraging teachers and students to publish research papers in journals of repute.
- ✓ Guidance to science students by teachers to carryout in-house research project

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	NIL	NIL	NIL	NIL
Outlay in Rs. Lakhs				

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	01	02	-	01
Outlay in Rs. Lakhs	80,000	1,75,000	-	80,000

#### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	11	2	
Non-Peer Review Journals			1
e-Journals	2	1	
Conference proceedings		2	1

#### 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	-	-	-	-
	1 year	UGC	1,25,000	80,000-00
	1 year	UGC	50,000	30,000
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	6 months	Karnataka State Council for Science and Technology & KSBDB	9,500	9,500
	6 months	Karnataka State Council for Science and Technology	10,000	10,000
	6 months	Karnataka State Council for Science and Technology	10,000	10,000
Total			Rs2,04,500	Rs1,39,500

3.7 No. of books published

i) With ISBN No.

4

Chapters in Edited Books

-

ii) Without ISBN No.

4

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)

- DBT-BIF, Govt. of India
- Biotechnology Finishing School, DBT, Govt. of Karnataka,

3.10 Revenue generated through consultancy:

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number		2			01
Sponsoring agencies		DBT			Self financed

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

3.13 No. of collaboration: 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

UGC-Minor Research project- 1,10,000/-  
 DBT- Bioinformatics Infrastructure Facility -11,13,900/-  
 DBT-Star college program for physical science- 22,00,000/-  
 Karnataka State Biofuel Board: 19000/-

From Management of University/College :

Total

3.16 No. of patents received this year

Type of Patent/Copyright		Number
National	Applied	01
	Granted	01
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
4				4		

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

05

15

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)

JRF  SRF  Project Fellows  Any other

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

- **IIT-JAM Coaching classes** in Biology and Biotechnology subjects for B.Sc students from colleges and mLAC (an initiative of MLACW & Study circle for Life science). with external experts from reputed institutes such as IISc, MSRIT, Maharani's Science College, KLE etc.,
- Open Science day for PU college students organized by the Department of Biotechnology, in association with science departments on 24th September 2016.
- Hands -on workshop for PU faculty was organized by the Department of Biotechnology, on Molecular techniques on 25th September 2016.
- Eco awareness drive (distribution of saplings) by Department of Botany.
- "Self defence technique" by Mr. Kartik Kateel to bring awareness about the situations as to when women can protect themselves on 27th Jan 2017.
- Awareness about rain water harvesting and water conservation (by conducting Quiz and Debate Programme) by chemistry Department in association with KSCST, IISc., Bengaluru and Nisarga Mahila Samaja, Bengaluru.
- Participation of NSS volunteers in a seminar on women and child sexual harassment in India organized by Child Welfare Dept., Govt. of Karnataka,
- Campaigning by NSS volunteers about cashless transactions to shop owners, small vendors and traffic personnel in Malleswaram under "Vithiya Saksharatha Abhiyan"
- Door to door awareness program organized by Swachh Malleswaram, an initiative by MLA Dr Ashwathanarayan volunteered by NSS volunteers.
- Blood donation camp at the college organized by NSS wing through Lioness club, Malleswaram and Jain Hospital
- Blood donation camp at the college organized by NCC air wing
- Awareness program on e-banking and Make in India by NCC air wing.
- Visit to orphanages and government schools to bring awareness about hygiene by students of Akanksha-Commerce Department Student Association

**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	7288.97 sq. mt			7288.97 sq. mt.
Class rooms				
Laboratories				
Seminar Halls				
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.		20		
Value of the equipment purchased during the year (Rs. in Lakhs)		2,23,275 79,67,964	College Grants from funding agencies	81,91,239
Others (computer,printer, UPS)		31,13,304 45,30,969	College Grants	76,44,273

4.2 Computerization of administration and library

- The whole campus is WI-FI enabled and networked using LAN.
- Admission is done using a software developed in-house
- Attendance and Internal mark entry is done using a mobile application called IPOMO
- Computerization of library with easylib software

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
<b>Text Books</b>	61304	12765103.00	1545	42540.00	61304	12765103.00
<b>Reference Books</b>	12451	1418857.00	151	108983.00	12451	1418857.00
<b>e-Books</b>	80409 e-books Referred from N-List (inlibnet) & DELNET					

<b>Journals</b>	General-reading-20 UG-65 PG- 26 Newspaper - 12	3,00,000.00	3,00,000.00
<b>e-Journals</b>	Annual Membership to National Library and information Services Infrastructure (N-List) for scholarly content –Digital Library Consortium to access E-resources like more than 2100 journals and 51000 e-books	Directory of Open Access Journals (DOAJ) through Developing Library Network (DELNET) : DOAJ is an online directory that indexes and provides access to high quality, open access, peer-reviewed journals.	
<b>Digital Database</b>			
<b>CD &amp; Video</b>			
<b>Others (specify)</b>	Annual Membership to National Library and Information Services Infrastructure (N- List ) for scholarly content –Digital Library Consortium to access E- resources like more than 2100 journals and 80409 e-books Membership from Bangalore University, DELNET		

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	414	06	3	6	1	3	16	2
Added	20	01	-	2	-	-	-	-
Total	434	07	-	8	1	3	-	2

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

Integrated computer training:

- Advance Excel by Mr. Adarsh, Mind Path Innovation
- IRIS- Interactive teaching learning from cyber NetX

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

i) ICT	8.38
ii) Campus Infrastructure and facilities	35.32
iii) Equipments	14.80
iv) Others	261.47
<b>Total :</b>	<b>319.97</b>

**Criterion – V**

**5. Student Support and Progression**

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Training in soft skills for placement
- College brochure providing details about student centric programs (academic and extracurricular) which is given at the time of admission.
- Displaying boards at strategic places in the campus of various cells/committees along with names of members for easy access by students. And periodic announcements about the support provided by the following:
  - Placement Cell
  - Anti-ragging Cell
  - Grievance Redressed Cell
  - Cell for Prevention of Sexual Harassment
  - Counselling Cell
- Organizing workshops on value education
- STEP program for holistic development of students.

5.2 Efforts made by the institution for tracking the progression

- Analysis of academic results
- Parent-teacher meeting
- Meetings with alumni
- Information from placement officer
- Feedback from employers

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
1954	141	-	NIL

(b) No. of students outside the state

46

(c) No. of international students

NIL

Men

No	%
NIL	NIL

Women

No	%
2095	100

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1194	222	38	714	4	2172	1347	254	45	434	15	2095

Demand ratio

Dropout %

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

- ✓ IIT-JAM coaching program for Life Science Undergraduate students to pursue PG studies in premier institutes like IIT, IISc etc. and also help them take up jobs in R & D in frontier areas of basic science and interdisciplinary areas of science and technology.
- ✓ Special coaching is provided to students for:
  - All India banking exams (Probationary officers & Clerical positions)
  - Administrative services
  - Coaching in numerical analytics, logical study etc.

No. of students beneficiaries

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

NET  SET/SLET  GATE  CAT   
IAS/IPS etc  State PSC  UPSC  Others

#### 5.6 Details of student counselling and career guidance

- Student counselling for emotional, academic, and interpersonal issues
- Counselling for issues related to peer pressure and substance abuse
- Career guidance counselling for higher studies and placement
- Placement cell conducts soft skill training programs and placement drives for all streams of students

No. of students benefitted

#### 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
31	380	355	06

#### 5.8 Details of gender sensitization programmes

Orientation programmes on gender sensitization by counsellor.

## 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
Financial support from institution	54	94,316.00
Financial support from government	114	5,25,002.00
Financial support from other sources	01	13,000.00
Number of students who received International/ National recognitions	01	10,000.00

### 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:

- Non availability of food in the college cafeteria at reasonable prices – redressed by change in canteen management
- Shortage of availability of clean drinking water at convenient locations – redressed by installation of RO water purifiers at strategic points

## Criterion – VI

### **6. Governance, Leadership and Management**

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

Vision: To empower through education for character formation

Mission: MLACW seeks to realize its vision by:

- Facilitating an invigorating teaching learning environment for enhancing employability
- Fostering research culture
- Focusing upon holistic personality development
- Creating opportunities for selfless service to the nation

#### 6.2 Does the Institution has a management Information System

Yes

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

##### 6.3.1 Curriculum Development

- Introduction of self-study component in all science subjects
- Introduction of industry related modules in subjects.
- Case Studies as a compulsory component for all subjects
- Suggestions from academic experts and industry while preparing the syllabus with more focus on practical skills.
- Framed new syllabus for the I and II semester CBCS Autonomous Batch.
- Certificate courses in recent trends
- Introduction of internship for B.com, BBA and M.Com students
- Introduction of tally course and Excel for B.com and BBA students
- Introduction of ED program -level 100 and 101 in association with NEN for B.Com and BBA students.

##### 6.3.2 Teaching and Learning

- Seminars by students, Group Discussions, Role Play, Assignments in the form of Skill Development activity
- Group Discussions on current events, Review of newspapers and magazines
- Self-study report on selected topics related to syllabus
- Use of camera microscope and analyser to document the specimens studied for the project (for biodiversity, water and soil analyses)
- Subject related assignments to students by which they refer to scientific magazines/periodicals/journals and collect the latest trends.
- Using various teaching techniques like mind mapping and concept mapping for memorizing and easy understanding of the subjects
- Initiated in house projects for II Sem. BBA students
- Faculty Improvement Programme

### 6.3.3 Examination and Evaluation

- Bangalore university norms are followed
- Internal assessment: Assignments, seminar, internal tests, practical mock tests
- Conduct of Online examinations
- Use of QR code

### 6.3.4 Research and Development

- Establishment of research centre with high end equipment, high grade chemicals and consumables.
- Recognition of faculty members for guiding research students.
- Submission of research proposals to funding agencies (UGC, VGST etc.)
- Paper presentations by students and faculty in state, national and international level conferences.
- Student research projects under DBT-Star college scheme for all final year B.Sc. students.
- Training students in various aspects of conducting research work (literature survey, data analysis and report writing)
- Paper presentation by M.Sc. BT students in state level and national level conferences.
- Participation of students in co-curricular activities to develop scientific temper (quiz, debate, model making etc.)
- Research paper presentation and publication by faculty members in journals of high impact factor.
- Enhancement of qualification of faculty to orient towards research.

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

- Computer : student ratio of 1: 1 for all computer related subjects in commerce department
- Well-equipped labs to carry out small time research by students
- Wi Fi enabled campus
- Desktops and laptops in all the departments
- Printer /scanner
- LCD projectors in all the class room.
- Use of smart board for effective teaching learning process.

### 6.3.6 Human Resource Management

- Organising FDP for support staff towards communication skills
- Organising FDP towards quality in teaching
- Facilitating participation of teachers in seminars & workshops
- Organising orientation programme for newly recruited faculty

### 6.3.7 Faculty and Staff recruitment

- Scrutiny and selection of appropriate applications by HOD
- Call for demonstration class and interview
- Observation of demonstration class by a panel from the relevant department
- Interview of short listed candidates by HOD
- Selection and recruitment

### 6.3.8 Industry Interaction / Collaboration

- Certificate Programs – Tally in collaboration with NICT Computer Education Pvt. Ltd. and Educesta Global Services Pvt. Ltd.
- Guest Lectures by Industry Experts in areas of specialization
- Kannada Newspaper (Prajavani) Kannada film Industry, Channel (Raj Music)
- Regular Industrial visits to research Institutes and Industry
- Research projects in collaboration with industry
- Facilitate internship
- Guest lectures by industry experts
- Expert speakers drawn from industry as resource persons at seminars/conferences
- Industry linkage for skill development programs
- Industry expertise for inputs in restructuring of curriculum

### 6.3.9 Admission of Students

- Software for admission to ensure transparency
- Admission as per government regulation

### 6.4 Welfare schemes for

Teaching	04
Non teaching	05
Students	02

### 6.5 Total corpus fund generated

Rs.33,60,800

### 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	IQAC
Administrative			Yes	MLAC Trust

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

For UG Programmes Yes  No

For PG Programmes Yes  No

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

- ✓ On-line multiple choice questions, bar coding, double valuation, photocopy
- ✓ Paper setting –by both internal and external examiners
- ✓ Paper valuation- both internal and external examiners

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

Not applicable

6.11 Activities and support from the Alumni Association

Alumni support students through:

- Delivering guest lecture
- Sponsoring prizes
- Sharing their experiences for competitive exams
- Career guidance
- Soft Skill Training
- Facilitation of Internship and Placement

6.12 Activities and support from the Parent – Teacher Association

- Facilitation for industrial visits, internships and guest lectures
- Feedback towards improvement in teaching-learning

6.13 Development programmes for support staff

- Training program for improving soft skills
- Staff welfare association to provide financial assistance
- Fee waiver for wards to pursue higher education
- Counselling service for work life balance, stress and time management.

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

- Installation of biogas plant to use kitchen waste from the college canteen
- Training house keeping staff to segregate wet and dry waste from the source.
- Installation of incinerators in student wash rooms to dispose sanitary napkins in a hygienic manner
- Awareness incorporated on Eco Ganesha which is one of the initiatives undertaken
- Our college maintains a garden adjoining the campus.

## Criterion – VII

### 7. Innovations and Best Practices

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

- **Skill Development Modules** have been developed and implemented for M.Sc. Biochemistry and M.Sc. Biotechnology students during the academic year 2016-17 and also implemented in other PG programs. These modules are being implemented with the aim of improving students' practical and analytical skills.
- **Implementation of STEP** program for holistic development of students.
- In house research projects by UG science students to inculcate scientific temper and develop passion for research.
- **e-Learning resources:** The College has launched a plethora of technology oriented methods to support the teaching- learning strategies and achieve objectives to enhance students proficiency.
- **(Local chapter of NPTEL)-**We are one of the very few degree colleges in Bangalore to be the local chapter for NPTEL, an online learning portal that ensures curriculum building exercise and is directed towards providing learning materials in science and engineering).

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

- Strictly adhering to calendar of events which facilitated students to prepare for competitive exams and engage in internships and short term projects.
- Introduction of newly structured syllabus to enable student learning more effective, post autonomous status
- Constitution of new committees to carryout smooth conductance of academic related activities.
- Organized national conferences on socially relevant issues.
- Invited academically accomplished people to scale up standards of syllabus
- Facilitated students' overall progression (skill development training program, **IIT-JAM** coaching program, placement training, internship)

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

- Implementation of STEP (Student Training and Enrichment Program) as part of curriculum
- Programme for Reinforcement, Acceleration, Growth and Advancement Through Internalisation (PRAGATI) for teaching and non-teaching faculty

**Annexure-3 –STEP**

**Annexure – 4 -PRAGATI**

#### 7.4 Contribution to environmental awareness / protection

- Installation of biogas plant to use kitchen waste from the college canteen
- Training house keeping staff to segregate wet and dry waste from the source.
- Installation of incinerators in student wash rooms to dispose sanitary napkins in a hygienic manner
- Participation of NSS and NCC students in “Swach Bharath” campaign in many parts of the city.
- Student research project on isolation of pathogens from bird droppings with an awareness about cleaning of bird droppings which otherwise can be major source of fungal infections in humans
- DBT-Star college projects by science students on extraction of Bio-Diesel from several waste products (Mixed Seeds, Waste Cooking oil, chicken feather, fish scale, silkworm pupae, milk scum etc.)
- Distribution of plant saplings to the public

7.5 Whether environmental audit was conducted?

Yes

No

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

#### Strengths:

- Establishment of research centres and central instrumentation facility to carry out research.
- Funding from various granting agencies (UGC, DBT, VGST, KSBB).
- Publications in peer reviewed journals.
- Well equipped laboratories for smooth conductance of practical classes
- Identifying academically bright students to channelize their strengths towards achieving their goals
- Competency of faculty (in training students for projects, internship, paper presentation etc.)
- Increased collaborations for internships and research
- Ranked among top 50 colleges in India by India Today survey

#### Weakness:

- As an affiliated college of Bangalore University, Semester scheme has been a time constraint in carrying out the practicals/projects more effectively and also provide extra information

#### Opportunity:

- As an autonomous college, restructuring of the syllabus to aid students’ overall progress has been framed and also announcement of results in time so as to facilitate students to apply for their future academic programs.
- Inviting academically accomplished people to be part academic related activities to scale up the standards (for autonomous syllabus)

#### Challenges:

- Limited space for expansion

- Research not scaled towards securing patent

#### **Future plans:**

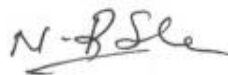
- External audit for both academic and green audit
- Faculty development program towards building leadership and initiatives
- Ensuring increased research publication
- Organizing national and international conferences
- Building professionalism in the institution post autonomy.

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

- Student election using electronic voting machines.
- External Academic audit
- Digitalized teaching-learning (live streaming of lectures)
- Conducting on-line examination for non- core subjects.
- Workshop for skill development (instrumentation)
- Upgradation of health centre.
- Increase in MoU with industry and institutions
- Scale up research activities & Publication in journals with high impact factor
- To enhance alumni association activities (strengthen alumni relationship)
- Bringing out e journal with ISSN number as an outcome of Women Development Cell.
- Formalising cell for prevention of Sexual Harassment

Name: Prof. Sharmista Dutta

Name: Dr. N. Radhakrishna

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

## ANNEXURE – 1

### ACADEMIC CALENDER



Maharani Lakshmi Ammanni College for Women **Autonomous**

Affiliated to Bangalore University

Re-accredited by NAAC with "A" grade, Recognised by UGC  
under Section 2(f) and 12(b) of the UGC Act 1956

Conferred the Status of 'College with Potential for Excellence' by UGC

#### CALENDAR OF EVENTS – 2016-17 (odd semester)

Sl. No.	Name of event	Date fixed
1	Reopening of college for I Degree students	4 <sup>th</sup> July 2016
2	Orientation for freshers	4 <sup>th</sup> July 2016
3	Inauguration of Students' Association/ Fresher's Day	3 <sup>rd</sup> Aug. 2016
4	Independence Day celebrations	15 <sup>th</sup> Aug. 2016
5	I Internal Tests	Last week of August
6	Teachers' Day	5 <sup>th</sup> Sept. 2016
7	Departmental fest (for 3 days – to be finalized)	Sept. 2016
8	II Internal Tests	Third week of Oct. 2016
9	Completion of syllabus	28 <sup>th</sup> Oct. 2016
10	Practical examination	25 <sup>th</sup> to 28 <sup>th</sup> Oct. 2016
11	Last working day	28 <sup>th</sup> Oct. 2016
12	Submission of Internal marks	7 <sup>th</sup> Nov. 2016
13	Commencement of Theory examination	10 <sup>th</sup> Nov. 2016
14	Commencement of STEP	12 <sup>th</sup> Dec. to 24 <sup>th</sup> Dec. 2016
15	Reopening of even semesters	26 <sup>th</sup> Dec. 2016

No: mLAC.AO-29/UG.Evn.Calndr/2016-17

Date: 24.12.16

**NOTIFICATION**

**Sub: Calendar of Events for Undergraduate courses, i.e. Second semester (Even Semester) of BA/B.Sc/B.Com/ BBA/ BCA/B.Voc courses for the academic year 2016-17.**

**Ref:** 1. Proceedings of the meeting of Deans held on 22.12.2016.  
2. Bangalore University Calendar of events dated 23.12.2016.  
3. Director, mLAC approval dated 24.12.2016

The Director, mLAC is pleased to notify the following calendar of events for even semester Undergraduate courses of BA/B.Sc/B.Com/ BBA/ BCA/B.Voc for the academic year 2016-17 in lines with the Bangalore University calendar of events vide Ref.(2), so as to facilitate the teachers of Maharani Lakshmi Ammanni College Autonomous to take part in all its Academic Activities including the Examination work.

Sl. No.	Name of event	Date fixed	
		BU	AUTONOMOUS
1.	Reopening of college for Even Semester for Degree (II,IV & VI Semester ) and Classes will begin	2 <sup>nd</sup> Jan 2017	26 <sup>th</sup> December 2016
2.	Classes will begin for Even Semester for Degree (II,IV & VI Semester )	2 <sup>nd</sup> Jan 2017	2 <sup>nd</sup> Jan 2017
3.	I Internal Assessment Test	13 <sup>th</sup> -16 <sup>th</sup> February 2017	13 <sup>th</sup> -16 <sup>th</sup> February 2017
4.	II Internal Assessment Test	28 <sup>th</sup> -31 <sup>st</sup> March & 1 <sup>st</sup> April 2017	28 <sup>th</sup> -31 <sup>st</sup> March & 1 <sup>st</sup> April 2017
5.	Completion of syllabus for B.Sc /BCA & B.Voc	10 <sup>th</sup> April 2017	10 <sup>th</sup> April 2017
6.	Practical Examination	13 <sup>th</sup> April 2017	22 <sup>th</sup> April 2017
7.	Completion of Syllabus for BA/ B.Com & BBA	22 <sup>nd</sup> April 2017	22 <sup>nd</sup> April 2017
8.	Submission of Internal Marks to Office	18 <sup>th</sup> April 2017	18 <sup>th</sup> April 2017
9.	Last working day( as per Bangalore University Notification)	22 <sup>nd</sup> April 2017	22 <sup>nd</sup> April 2017
10.	Commencement of Theory Examination	2 <sup>nd</sup> May2017	2 <sup>nd</sup> May2017
11.	Closing of Theory Examination	27 <sup>th</sup> May 2017	20 <sup>th</sup> May 2017

Malleswaram, Science Post, Bangalore - 560 012.  
Tel. : 080-2334 9311 email : mlacw@mlacw.org www.mla.edu.in

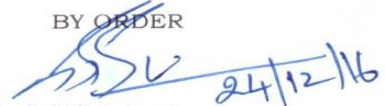
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24/12/16

12.	Commencement of Valuation	15 <sup>th</sup> May 2017 (Com, Eng, Maths, Eco)	22 <sup>nd</sup> May 2017
		29 <sup>th</sup> May 2017 (All Sub)	
13.	Announcement of Results	6 <sup>th</sup> June- 17 <sup>th</sup> June 2017	7 <sup>st</sup> June 2017
14.	Reopening of Odd Semester	12 <sup>th</sup> June 2017	12 <sup>th</sup> June 2017

**Note:**

1. The college office has to collect the semester fee as prescribed by mLAC.
2. The Chief Superintendent of Examination is requested to allot the invigilation work to the teachers of major subjects such as Commerce, Management, English, Kannada, etc in the beginning of the theory examination and relieve them immediately for University valuation work after completing the valuation work and teaching assignment of mLAC on priority basis.
3. All the teachers who have attended the valuation work of Bangalore University examinations should submit the valuation attendance certificate issued from the University to the mLAC office so as to produce it before the University Inspection Committee at the time of their visit.
4. During vacation, it is mandatory for those eligible teachers to undertake the theory valuation and practical examination related work assigned by mLAC/Bangalore University.

BY ORDER

  
Prof. K G. Lokesh  
Administrative Officer

To:

1. The Registrar, Bangalore University, for information.
2. The Registrar (Evaluation), Bangalore University, for information.
3. The Principal, mLAC, for information.
4. All the Academic Council Members, mLAC for information.
5. The Controller of Examination, mLAC for information.
6. The Deans of Arts, Science and Commerce, mLAC for information.
7. The Coordinator, IQAC, mLAC for information.
8. All the Heads of Department, mLAC, with a request to adhere strictly to the above schedule and to bring to the notice of the staff members.
9. The Personal Secretary to the Director, mLAC, with a request to bring it to her notice.

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## ANNEXURE - 2

### FEEDBACK QUESTIONS

1. Knowledge base of the teacher (as perceived by you)
2. Communication Skills (in terms of articulation and comprehensibility)
3. Sincerity or Commitment of the teacher
4. Interest generated by the teacher
5. Provision of sufficient timely feedback
6. Accessibility of the teacher in and out of the class (includes availability of the teacher to motivate outside class)
7. Ability to design quizzes or examinations or assignments or projects to test understanding of the course
8. Ability to relate the course to practical life situations.
9. Ability to relate the course material to other subjects or courses.

### FEEDBACK ANALYSIS

Rating	% of teachers
4 – 5	91.1%
3 – 4	8.9%
2 - 3	Nil

## ANNEXURE – 3

### STUDENT TRAINING AND ENRICHMENT PROGRAMME

The present day education is confined to reading, writing and arithmetic whereas holistic education focuses upon knowledge, skills and attitudes. This wholesome approach helps individuals evolve and blossom into beautiful human beings with character and integrity. Therefore, adopting an integrated approach to education has become essential in order to ensure holistic development and thereby empowerment of all stakeholders of the institution. The underlying principle of this practice relates to developing the necessary physical, intellectual and emotional energies to anchor life in the right direction.

#### The Context

The progress of a nation depends primarily on the harnessing of the intellectual, psychological, technical and spiritual resources of its human resource. For an individual to be regarded as a complete being all the aspects of human personality must be developed and education must be structured to include a rich blend of intellectual knowledge and human values. STEP has been conceptualized in order to ensure that students are trained to manage their personal, interpersonal, social, emotional and professional lives effectively. The main objectives of STEP are stated as follows:

- To empower the self
- To enable enriching relationships
- To facilitate career growth
- To ensure holistic development of personality

## ANNEXURE – 4

### **PRAGATI – Program for Reinforcement, Acceleration, Growth and Advancement through Training and Internalization**

The institution offers in-house and out-bound FDPs for teaching and non-teaching faculty to enable them in their personal and professional growth thereby contributing to enhancement of institutional quality processes.

The focus of PRAGATI is to align individual goals with institutional goals.

PRAGATI meaning 'Progress' includes various modules such as improving teacher effectiveness, developing learner centric methodologies, team building, leadership qualities, teacher as a mentor and holistic teacher development.

The effectiveness of PRAGATI is witnessed in the tremendous institutional growth through:

- ✓ Greater commitment among teachers towards students and institution.
- ✓ High research and publications output.
- ✓ Sense of belonging to the institution.
- ✓ Willingness to accept leadership positions entailing additional responsibilities.
- ✓ Greater receptivity to change and responsiveness to the dynamic needs of higher education.