The Annual Quality Assurance Report (AQAR) of the IQAC
School of Biochemistry

Part – A

1. **Details of the Institution**

1.1 Name of the Institution

School of Biochemistry

1.2 Address Line 1

Takshila Campus

Address Line 2

Khandwa Road

City/Town

Indore

State

Madhya Pradesh

Pin Code

452001

Institution e-mail address

dbhatnagar1@rediffmail.com

Contact Nos.

0731-2460276

Name of the Head of the Institution:

Dr. Deepak Bhatnagar

Tel. No. with STD Code:

0731-2460276

Mobile:

9424072197

Name of the IQAC Co-ordinator:

Dr. Deepak Bhatnagar

Mobile:

9424072197

IQAC e-mail address:

dbhatnagar1@rediffmail.com

1.3 **NAAC Track ID** (For ex. MHCOGN 18879) **EC/66/RAR/146 dated 21-02-2014**

1.4 Website address:

http://www.dauniv.ac.in/

Web-link of the AQAR:

http://www.iqac.dauniv.ac.in/

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

1.5 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	Four Star		20/09/2000	"Five Years"
2	2nd Cycle	B grade	2.57 out of 4	16/09/2008	"Five Years"
3	3rd Cycle	A	3.09	21 .2. 2014	"Five Years"
4	4th Cycle	N.A	N.A	N.A	N.A

1.6 Date of Establishment of IQAC :   DD/MM/YYYY   21/11/2008

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 2010-11submitted to NAAC on 12-10-2011)*

   i. AQAR _____Feb 2013 June 2013_____ (DD/MM/YYYY)4
  ii. AQAR_____2013-14_____ (DD/MM/YYYY)
 iii. AQAR_____2014-15 _____ (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 [X]   Men [ ]   Women [ ]

           Urban [X]   Rural [ ]   Tribal [ ]

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

           Grant-in-aid + Self Financing [X]   Totally Self-financing [ ]

1.10 Type of Faculty/Programme

Arts [ ]   Science [√] Commerce [ ]   Law [ ]   PEI (Phys Edu) [ ]

TEI (Edu) [ ] Engineering [ ]   Health Science [ ]   Management [ ]

Others   (Specify)   [.   NA]

1.11 Name of the Affiliating University *(for the Colleges)*   [Devi Ahilya Vishwavidyalaya]

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

Autonomy by State/Central Govt. / University | Yes |

| University with Potential for Excellence | No | | UGC-CPE | No |

| DST Star Scheme | No | | UGC-CE | No |

| UGC-Special Assistance Programme | No | | DST-FIST | No |

| UGC-Innovative PG programmes | No | | Any other (*Specify*) | Nil |

| UGC-COP Programmes | No |

2. IQAC Composition and Activities

2.1 No. of Teachers	4 + 1 (contract teacher)
2.2 No. of Administrative/Technical staff	0
2.3 No. of students	0
2.4 No. of Management representatives	0
2.5 No. of Alumni	0
2. 6 No. of any other stakeholder and Community representatives	0
2.7 No. of Employers/ Industrialists	0
2.8 No. of other External Experts	2
2.9 Total No. of members	7
2.10 No. of IQAC meetings held	1

2.11 No. of meetings with various stakeholders: No.   [0]   Faculty   [1]

    Non-Teaching Staff Students   [1]   Alumni   [0]   Others   [0]

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

    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. [0]   International [0]   National [0]   State [0]   Institution Level [0]

    (ii) Themes   [ ]

2.14 Significant Activities and contributions made by IQAC

    Improvement in quality of teaching and research.

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
1) Upgradation in quality of teaching and research by purchase of books and equipments.	1) Quality of teaching and research was enhanced by purchase of books and equipments of about 20 Lakhs from UGC XIIth plan grant.

    * Attach the Academic Calendar of the year as Annexure.

2.15 Whether the AQAR was placed in statutory body   Yes   [ ]   No   [X]

    Management   [ ]   Syndicate   [ ]   Any other body   [ ]

    Provide the details of the action taken

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	1	0	0	0
PG	1	0	0	0
UG	0	0	0	0
PG Diploma	0	0	0	0
Advanced Diploma	0	0	0	0
Diploma	0	0	0	0
Certificate	0	0	0	0
Others	0	0	0	0
Total	2	0	0	0
Interdisciplinary	0	0	0	0
Innovative	0	0	0	0

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

Pattern	Number of programmes
Semester	1
Trimester	0
Annual	0

1.3 Feedback from stakeholders*   Alumni [N]   Parents [N]   Employers [N] Students [Y]
    (On all aspects)

      Mode of feedback   :   Online [ ] Manual [X] 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.

Syllabus was revised in July 2015.

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

No

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of
permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
4	0	2	2	0

2.2 No. of permanent faculty with Ph.D.   4

2.3 No. of Faculty Positions
Recruited (R) and Vacant (V)
during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
0	0	0	0	0	0	0	0	0	0

2.4 No. of Guest and Visiting faculty and Temporary faculty   2 Guest   0   1 Contract

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	0	1	0
Presented papers	0	1	0
Resource Persons	0	0	0

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

- All efforts are made to implement suggestions from Faculty members and students for quality improvement.
- The students are shown the answer books and the questions are discussed in the class. The students have the opportunity to discuss the answers and clear doubts if any, with the Faculty members. Grades are awarded after the answer books are shown to the students.
- Internet facility is available to the students.

2.7 Total No. of actual teaching days
during this academic year   180

2.8 Examination/ Evaluation Reforms initiated by
the Institution (for example: Open Book Examination, Bar Coding,   No
Double Valuation, Photocopy, Online Multiple Choice Questions)

2.9 No. of faculty members involved in curriculum
restructuring/revision/syllabus development   2   4   2
as member of Board of Study/Faculty/Curriculum Development workshop

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 %
M.Sc. (Batch 2014-2016)	13	3	8	2	0	100 %
Ph.D. 2016	3	1	2	0	0	100 %

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

 a) The feedback from students and external experts on the course content, and student's performance is taken at the end of semester.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	0
UGC – Faculty Improvement Programme	0
HRD programmes	0
Orientation programmes	0
Faculty exchange programme	0
Staff training conducted by the university	0
Staff training conducted by other institutions	0
Summer / Winter schools, Workshops, etc.	0
Others	0

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	2	0	0	0
Technical Staff	4	2	0	0

Criterion – III

3. Research, Consultancy and Extension

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

> 1) Seed money for research is provided to young faculty members.
> 2) Ph.D. students are encouraged to participate in scientific conferences.

3.2   Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	Nil	2	2	0
Outlay in Rs. Lakhs	0	18.49	10.98	0

3.3   Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	0	0	0	0
Outlay in Rs. Lakhs	0	0	0	0

3.4   Details on research publications

	International	National	Others
Peer Review Journals	8	4	0
Non-Peer Review Journals	0	0	0
e-Journals	0	0	0
Conference proceedings	1	0	0

3.5 Details on Impact factor of publications:

Range `0-2.5`   Average `1.0`   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	3	UGC and UGC-DAE	13,90,000+ 2,46,000+ 2,13,000 =18,49,000	8,52,500+ 2,46,000
Minor Projects	0	0	0	0
Interdisciplinary Projects	0	0	0	0
Industry sponsored	0	0	0	0
Projects sponsored by the University/ College	0	0	0	0
Students research projects *(other than compulsory by the University)*	0	0	0	0
Any other(Specify)	0	0	0	0
Total	3	UGC and UGC-DAE	18,49,000/-	10,98,500

3.7 No. of books published   i) With ISBN No.   `0`   Chapters in Edited Books   `0`

ii) Without ISBN No.   `0`

3.8 No. of University Departments receiving funds from

UGC-SAP `0`   CAS `0`   DST-FIST `0`

DPE `0`   DBT Scheme/funds `0`

3.9 For colleges   Autonomy `0`   CPE `0`   DBT Star Scheme `0`

INSPIRE `0`   CE `0`   Any Other (specify) `0`

3.10 Revenue generated through consultancy   `0`

3.11 No. of conferences

organized by the Institution

Level	International	National	State	University	College
Number	0	0	0	0	0
Sponsoring agencies	0	0	0	0	0

3.12 No. of faculty served as experts, chairpersons or resource persons   `2`

3.13 No. of collaborations   International `0`   National `0`   Any other `0`

3.14 No. of linkages created during this year   `0`

3.15 Total budget for research for current year in lakhs :

From Funding agency   `10.98 Lakhs`   From Management of University/College   `0`

Total   `10.98 Lakhs`

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	0
	Granted	0
International	Applied	0
	Granted	0
Commercialised	Applied	0
	Granted	0

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

Total	International	National	State	University	Dist	College
0	0	0	0	0	0	0

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

4

and students registered under them

4

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

9

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

JRF 2   SRF 0   Project Fellows 2   Any other 0

3.21 No. of students Participated in NSS events:

University level 0   State level 0

National level 0   International level 0

3.22 No. of students participated in NCC events:

University level 0   State level 0

National level 0   International level 0

3.23 No. of Awards won in NSS:

University level 0   State level 0

National level 0   International level 0

3.24 No. of Awards won in NCC:

University level 0   State level 0

National level 0   International level 0

3.25 No. of Extension activities organized

University forum 0   College forum 0

NCC 0   NSS 0   Any other 0

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

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	12,000 sq. feet	0	0	12,000 sq. ft.
Class rooms	2	0	0	2
Laboratories	6	0	0	6
Seminar Halls	1	0	0	1
No. of important equipments purchased ($\geq$ 1-0 lakh) during the current year.	1	6	UGC XIIth plan	7
Value of the equipment purchased during the year (Rs. in Lakhs)	1	20	UGC XIIth plan	21
Others	0	0	0	0

4.2 Computerization of administration and library

> The library books are bar coded as well as numbered manually.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	530	Approx. 7 Lakhs	0	0	530	Approx. 7 Lakhs
Reference Books	0	0	0	0	0	0
e-Books	0	0	0	0	0	0
Journals	0	0	0	0	0	0
e-Journals	0	0	0	0	0	0
Digital Database	0	0	0	0	0	0
CD & Video	0	0	0	0	0	0
Others (specify)	0	0	0	0	0	0

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	4	0	WiFi	0	1	0	0	0
Added	0	0	0	0	0	0	0	0
Total	4	0	WiFi	0	1	0	0	0

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

University has a dedicated IT-centre, which provides internet to the Department through cable as well as WiFi. Any request related to maintenance is resolved by the personnel at IT-centre.

4.6 Amount spent on maintenance in lakhs :

   i) ICT   0

   ii) Campus Infrastructure and facilities   0

   iii) Equipments   20

   iv) Others   1

                                   Total :   21

Criterion – V
5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

> Students are provided with various services such as WiFi,
> Computer centre, health centre, sports facilities and library.

5.2 Efforts made by the institution for tracking the progression

> 1) Feedback forms from students are evaluated.
> 2) Feedback and opinion on student's performance from
> external expert.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
0	26	11	0

(b) No. of students outside the state

5

(c) No. of international students

0

Men
No	%
6	16.2

Women
No	%
31	83.8

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
09	0	01	03	0	13	17	2	01	04	0	24

Demand ratio   1:1   Dropout % 0

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

> 1) Departmental and Central Library has books for preparation of competitive
> exams.
> 2) Students can discuss topics related to NET / GATE examinations with the
> Faculty members.

No. of students beneficiaries

2

5.5 No. of students qualified in these examinations

NET [2] SET/SLET [0] GATE [1] CAT [0]

IAS/IPS etc [0] State PSC [0] UPSC [0] Others [0]

5.6 Details of student counselling and career guidance

> 1) Faculty members encourage students to clear their doubts.
> 2) There is strong student-mentor relationship, and students are free to discuss their problems with Faculty members.
> 3) Anti-ragging committee monitors the welfare of the students.
> 4) Orientation programme helps the new students to get familiar with the Department and the University.
> 5) Mentors are allotted for a group of students in each class.

No. of students benefitted [37]

5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
0	0	0	0

5.8 Details of gender sensitization programmes

> Nil

5.9 Students Activities

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

State/ University level [0] National level [0] International level [0]

No. of students participated in cultural events

State/ University level [   ] National level [0] International level [0]

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

Sports : State/ University level [0]   National level [0]   International level [0]

Cultural: State/ University level [0]   National level [0]   International level [0]

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	01	Rs. 1,44,000/- p.a.
Financial support from government	01	Rs. 19,000/- p.a.
Financial support from other sources	03	Rs. 2,01,600/- + Rs. 3,60,000/- + Rs. 1,92,000/- = Rs. 7,53,600/-
Number of students who received International/ National recognitions	0	0

5.11 Student organised / initiatives

Fairs : State/ University level [0]   National level [0]   International level [0]

Exhibition: State/ University level [0]   National level [0]   International level [0]

5.12 No. of social initiatives undertaken by the students [0]

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

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

> Vision: Highly competent biochemists and internationally known scientists who are ethical, social and environment conscious.
>
> Mission: To impart technical knowledge, practical skills, values, social and environmental consciousness in order to serve academia, industry and society at large.

6.2 Does the Institution has a management Information System

> Nil

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

6.3.1 Curriculum Development

> Feedback on curriculum development is taken from students and external experts.

6.3.2 Teaching and Learning

> A time table for teaching and practical classes is given to the students at the beginning of the semester. Time table is strictly followed. Feedback on teaching and learning is taken from students and external experts at the end of the semester.

6.3.3 Examination and Evaluation

> Students are shown their evaluated answer sheets, the question paper is discussed among the students and their deficiencies are also pointed out by the Faculty members.

6.3.4 Research and Development

> Faculty members have active research programmes and funds from funding agencies. All Faculty members have Ph.D. students. Research work is published in reputed national and international journals. Research work is presented at the national conferences.

6.3.5 Library, ICT and physical infrastructure / instrumentation

> Departmental library has about 530 books. Students have access to internet through Wi-Fi. Remi high speed cooling centrifuge Plate reader, Water purifying system Type ! and II, Thermal cycler, Plant growth Chamber Spectrophotometer was purchased for Rs.

6.3.6   Human Resource Management

> Nil

6.3.7   Faculty and Staff recruitment

> Nil

6.3.8   Industry Interaction / Collaboration

> Students undertake project training at Research labs / industry for a period of 6 months during semester – IV of the M.Sc. course.

6.3.9   Admission of Students

> 1) For M.Sc. (Biochemistry) course – Minimum 55% in B.Sc. with biology subjects and Chemistry. Admission is through entrance test.
> 2) For Ph.D. (Biochemistry) course – M.Sc. with 55 % marks and admission through doctoral entrance test.

6.4 Welfare schemes for

Teaching	Nil
Non teaching	Nil
Students	Scholarships provided by Government

6.5 Total corpus fund generated

> Rs. 7, 07,752/-

6.6 Whether annual financial audit has been done   Yes [X]   No [ ]

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

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

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

For UG Programmes   Yes ☐   No ☐

For PG Programmes   Yes ☒   No ☐

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

> The Examination pattern we follow is as per the Ordinance 31 of the university which was renewed collectively.

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

> Ordinance 31 provides academic and evaluation function autonomous to the school.

6.11 Activities and support from the Alumni Association

> Many of the students from School of Biochemistry are registered with University Alumni Association.

6.12 Activities and support from the Parent – Teacher Association

> Nil

6.13 Development programmes for support staff

> Nil

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

> Trees are planted inside and around the campus.

Criterion – VII

7. <u>Innovations and Best Practices</u>

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

> Semester system is followed. Students are evaluated and grades are awarded by the Faculty members. Final year students undergo project training for a period of 6 months.

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

Plan of Action	ATR
1) Upgradation in quality of teaching and research by purchase of books and equipments.	1) Quality of teaching and research was enhanced by purchase of various equipments such as spectrophotometer, plate reader, high speed centrifuge, plant growth chamber, thermal cycler, Type-I & II water purification system.

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

> 1) Excellence in teaching and research.
> 2) Maintenance of academic schedule, including examination and declaration of results.

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

7.4 Contribution to environmental awareness / protection

> Tree plantation around the Department was held.

7.5 Whether environmental audit was conducted? Yes [ ] No [X]

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

> Matters related to curriculum, such as course content, coverage, quality of question papers and performance of students are evaluated by external experts.

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

> 1) Purchase of books.
> 2) To publish research papers in reputed

(D. Bhatnagar)
Professor and Head
School of Biochemistry