

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

Part – A

1. Details of the Institution

1.1 Name of the Institution

School of Instrumentation

1.2 Address Line 1

Takshshila parisar

Address Line 2

khandwa road

City/Town

Indore

State

M.P

Pin Code

452001

Institution e-mail address

head.sinst@dauniv.ac.in

Contact Nos.

0731 2462228

Name of the Head of the Institution:

Dr. Ratnesh Gupta

Tel. No. with STD Code:

0731 2462228

Mobile:

9165360552

Name of the IQAC Co-ordinator:

Dr. Ratnesh Gupta

Mobile:

IQAC e-mail address:

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

1.4 Website address:

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	Four Star		20/09/2000	“Five Years”
2	2 nd Cycle	B grade	2.57 out of 4	16/09/2008	“Five Years”
3	3 rd Cycle	A	3.09	21 .2. 2014	“Five Years”
4	4 th Cycle	N.A	N.A	N.A	N.A

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

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

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 _____ 2014-15 on 31-07-2015 _____
- ii. AQAR _____ 2015-16 on _03-09-2016 _____
- 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) AICTE, New Delhi

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)

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 style="width: 90%;" type="text"/>	UGC-CPE	<input style="width: 95%;" type="text"/>
DST Star Scheme	<input style="width: 90%;" type="text"/>	UGC-CE	<input style="width: 95%;" type="text"/>
UGC-Special Assistance Programme	<input style="width: 90%;" type="text"/>	DST-FIST	<input style="width: 95%;" type="text"/>
UGC-Innovative PG programmes	<input style="width: 90%;" type="text"/>	Any other (<i>Specify</i>)	<input style="width: 95%;" type="text"/>
UGC-COP Programmes	<input style="width: 90%;" type="text"/>		

2. IQAC Composition and Activities

2.1 No. of Teachers		<input style="width: 95%;" type="text" value="3"/>
2.2 No. of Administrative/Technical staff		<input style="width: 95%;" type="text" value="2"/>
2.3 No. of students		<input style="width: 95%;" type="text" value="2"/>
2.4 No. of Management representatives		<input style="width: 95%;" type="text" value="0"/>
2.5 No. of Alumni		<input style="width: 95%;" type="text" value="2"/>
2.6 No. of any other stakeholder and community representatives		<input style="width: 95%;" type="text" value="2"/>
2.7 No. of Employers/ Industrialists		<input style="width: 95%;" type="text" value="1"/>
2.8 No. of other External Experts		<input style="width: 95%;" type="text" value="2"/>
2.9 Total No. of members		<input style="width: 95%;" type="text" value="13"/>
2.10 No. of IQAC meetings held		<input style="width: 95%;" type="text"/>
2.11 No. of meetings with various stakeholders:	No.	<input style="width: 50%;" type="text"/>
	Faculty	<input style="width: 100%;" type="text"/>
Non-Teaching Staff	<input style="width: 50%;" type="text"/>	
Students	<input style="width: 50%;" type="text"/>	
Alumni	<input style="width: 50%;" type="text"/>	
Others	<input style="width: 50%;" type="text"/>	

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

2.14 Significant Activities and contributions made by IQAC

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

* 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

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

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

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	2
Trimester	0
Annual	0

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.

Yes (updated with recent technology trends)

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
1	0	0	1	

2.2 No. of permanent faculty with Ph.D.

1

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	2	0	1	1	1	0	0	1	4

2.4 No. of Guest and Visiting faculty and Temporary faculty

4
0
=4

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	0	1	0
Presented papers	2	1	0
Resource Persons	0	1	0

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

Use of ICT in the class room teaching and Real Time data processing during the experiments in some experiments.

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

170

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

After valuation, marked copies are shown to the students and satisfy the queries

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

3

2.10 Average percentage of attendance of students

90

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.Tech	18	35%	65%	0%	0	0

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

2.13 Initiatives undertaken towards faculty development NIL

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
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	

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	0	2	0	0
Technical Staff	7	5	0	0

Criterion – III

3. Research, Consultancy and Extension

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

To develop indigenous research laboratory in the field of nano-technology with *in-situ* measurement system.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	01	02	01	00
Outlay in Rs. Lakhs	8.688	7.16	5.80	00

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	00	00	01	00
Outlay in Rs. Lakhs	00	00	00.40	00

3.4 Details on research publications

	International	National	Others
Peer Review Journals	01	00	00
Non-Peer Review Journals	00	00	00
e-Journals	00	00	00
Conference proceedings	01	001	00

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	2015-16	UGC	2.37 Lakhs	2.37 Lakhs
Minor Projects	2015-16	UGC	00	00
Interdisciplinary Projects	2015-16			
Industry sponsored	2014-15			
Projects sponsored by the University/ College	2014-15	UGC 12 th Five Year	12.00 Lakhs	12.00 Lakhs
Students research projects <i>(other than compulsory by the University)</i>	2014-15	00	00	00
Any other(Specify)	2014-15	00	00	00
Total			14.37 Lakhs	14.37 Lakhs

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 NIL

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	0	0	0	0	0
	Sponsoring agencies	0	0	0	0	0

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	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
01	00	01	00	00	00	00

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

1
2

3.19 No. of Ph.D. awarded by faculty from the Institution 1

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

JRF	1	SRF	0	Project Fellows	2	Any other	0
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3.21 No. of students Participated in NSS events: NIL

University level		State level	
National level		International level	

3.22 No. of students participated in NCC events: Nil

University level		State level	
National level		International level	

3.23 No. of Awards won in NSS: NIL

University level		State level	
National level		International level	

3.24 No. of Awards won in NCC: NIL

University level		State level	
National level		International level	

3.25 No. of Extension activities organized

University forum	<input type="text"/>	College forum	<input type="text"/>		
NCC	<input type="text"/>	NSS	<input type="text"/>	Any other	<input type="text" value="01"/>

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

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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				
Class rooms	2	0	0	2
Laboratories	7	0	0	7
Seminar Halls	1	0	0	1
No. of important equipments purchased (≥ 1 -0 lakh) during the current year.		02	XIIth Five Year Grant	02
Value of the equipment purchased during the year (Rs. in Lakhs)		740000	XIIth Five Year Grant	740000
Others		0	0	0

4.2 Computerization of administration and library

Library and Administrative office are well equipped with computers and the data base.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	1350		70	38,000/-	1420	
Reference Books	20		00		00	
e-Books						
Journals						
e-Journals						
Digital Database						
CD & Video						
Others (specify)						

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	25	1	25	2	1	1	1	
Added	0	0	0	0	0	0	0	
Total	25	1	25	2	1	1	1	

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

Incorporated in the syllabus

4.6 Amount spent on maintenance in lakhs :

i) ICT	0.1
ii) Campus Infrastructure and facilities	0.10
iii) Equipments	0.75
iv) Others	0.15
Total :	1.10

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

5.2 Efforts made by the institution for tracking the progression

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
00	35	4	00

(b) No. of students outside the state

12

(c) No. of international students

00

	No	%		No	%
Men	29	74.3	Women	10	25.6

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
11	2	0	5	0	18	10	3	1	2	0	16

Demand ratio 18/300 Dropout % 6.25%

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

No. of students beneficiaries

5.5 No. of students qualified in these examinations

NET	02	SET/SLET	00	GATE	N/A	CAT	N/A
IAS/IPS etc	00	State PSC	00	UPSC	00	Others	00

5.6 Details of student counselling and career guidance

Organized different lecture sessions and motivational talks at the university level

No. of students benefitted 39

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
00	00	00	15

5.8 Details of gender sensitization programmes

5.9 Students Activities

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

State/ University level 18 National level 00 International level 00

No. of students participated in cultural events :

State/ University level 05 National level 00 International level 00

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

Sports : State/ University level 00 National level 00 International level 00

Cultural: State/ University level 00 National level 00 International level 00

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	00	00
Financial support from government (M.P. Govt.)	00	00
Financial support from other sources (AICTE, MHRD, UGC)	19	Rs. 22,78,200/-
Number of students who received International/ National recognitions	01	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: _____

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

6.1 State the Vision and Mission of the institution: Vision o

- To develop globally competent professionals in the field of Instrumentation.
- To shape the crude ideas into refined scientific/engineering approach.
- To fulfil the scientific and social needs of the nation.

Mission:

- To generate intellectual and socially responsible manpower.
- To develop curiosity and thirst of knowledge among students.
- To develop not only good scientists but also good human being.
- Constant academic excellence.

6.2 Does the Institution has a management Information System No

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

6.3.1 Curriculum Development

We are continuously upgrading the syllabus by taking the inputs from different R&D National labs. and industries.

6.3.2 Teaching and Learning

Using class teaching alongwith ICT technology.

6.3.3 Examination and Evaluation

Following university Ordinance 31. Marked copies are shown to students and fulfilling the queries.

6.3.4 Research and Development

Continuously developing the nano technology lab and developing several ongoing software programs to obtain *in-situ* measurements from 10 K to 600 K.

6.3.5 Library, ICT and physical infrastructure / instrumentation

ICT facilities are already available in all the class rooms along with seminar room. Department has very good mechanical workshop also.

6.3.6 Human Resource Management

6.3.7 Faculty and Staff recruitment

Nil

6.3.8 Industry Interaction / Collaboration

Regularly industrialist are visiting the schools.

6.3.9 Admission of Students

Through counselling for M.Tech. course on the basis of GATE score.
For Ph.D. students, on the basis of DET.

6.4 Welfare schemes for

Teaching	
Non teaching	
Students	

6.5 Total corpus fund generated

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	Through subject experts	yes	HOD
Administrative	No		Yes	HOD

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?

We are following ordinance 31.

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

6.11 Activities and support from the Alumni Association

6.12 Activities and support from the Parent – Teacher Association

6.13 Development programmes for support staff

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

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.

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

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

7.4 Contribution to environmental awareness / protection

7.5 Whether environmental audit was conducted? Yes No

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

8. Plans of institution for next year

Name _____

Name _____

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

_____ *** _____