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

Part - A

1. Details of the Institution

1.1 Name of the Institution	SCHOOL OF PHYSICS
1.2 Address Line 1	D.A.V.V. VIGYAN BHAWAN ,TAKSHILA CAMPUS,
Address Line 2	SCHOOL OF PHYSICS,
City/Town	INDORE
State	MADHYA PRADESH
Pin Code	452001
Institution e-mail address	www.dauniv.ac.in
Contact Nos.	0731-2467028
Name of the Head of the Institution:	Dr.Ashutosh Mishra
Tel. No. with STD Code:	0731-2467028
Mobile:	9826074985

Nan	ne of the IO	QAC Co-ordi	nator:		Dr.P.Sen	
Mol	oile:				942531886	57
IQA	AC e-mail	address:			NOT Appl	icable
1.3	NAAC T	rack ID (For	ex. MHCO	GN 18879)	EC/66/RAR/146	6 dated 21-02-2014
				1.44 //	4	
1.4	Website a	address:		nttp://www.	dauniv.ac.in/	
	W	eb-link of t	ne AQAR:	http://ww	w.iqac.dauniv.ac.ir	n/
		For ex. h	ttp://www	.ladykeaneco	ollege.edu.in/AQA	AR201213.doc
1.5	Accredita	tion Details				
İ		1	1		1	
	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 Es	tablishment o	of IQAC :	DD	/MM/YYYY 2	1/11/2008
1.7	AQAR for	r the year (fa	er example 2	2010-11)	2015-16	
		-	-			latest Assessment and AC on 12-10-2011)
	i. AOAF	₹ .	2014-15 on	31-07-2015		
	_				(DI	
	iv. AOAI				(DI	

1.9 Institutional Status	
University	State V Central Deemed Private
Affiliated College	Yes No
Constituent College	Yes No
Autonomous college of UGC	Yes No
Regulatory Agency approved Ins	stitution Yes No
(eg. AICTE, BCI, MCI, PCI, NC	
Type of Institution Co-educat	ion V Men Women
Urban	Rural Tribal
Financial Status Grant-in	n-aid UGC 2(f) UGC 12B V
Grant-in-a	aid + Self Financing Totally Self-financing
1.10 Type of Faculty/Programme	
Arts Science	Commerce Law PEI (Phys Edu)
TEI (Edu) Engineeri	ng Health Science Management
Others (Specify)	PHYSICS
1.11 Name of the Affiliating Univer	rsity (for the Colleges) NOT Applicable
1.12 Special status conferred by Ce	ntral/ State Government UGC/CSIR/DST/DBT/ICMR etc
Autonomy by State/Central Go	vt. / University University
University with Potential for Ex	xcellence UGC-CPE

DST Star Scheme				UGC-CE		
UGC-Special Assistance Programme		٧		DST-FIST		
UGC-Innovative PG programmes				Any other	(Specify)	
UGC-COP Programmes						
2. IQAC Composition and Activi	<u>ities</u>					
2.1 No. of Teachers		08+02(0	contract)	=10		
2.2 No. of Administrative/Technical staff		11				
2.3 No. of students		114				
2.4 No. of Management representatives		NA				
2.5 No. of Alumni		110				
2. 6 No. of any other stakeholder and community representatives		NA				
2.7 No. of Employers/ Industrialists		NA				
2.8 No. of other External Experts		NA				
2.9 Total No. of members		NA				
2.10 No. of IQAC meetings held		NA				
2.11 No. of meetings with various stakeholde	ers:	No.	NA	Faculty	NA	
Non-Teaching Staff Students	IA	Alumni	NA	Others	NA	

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	ty related)
(i) No. of Seminars/Conferences/ Wor	kshops/Symposia organized by the IQAC
Total Nos. Nil International	National State Institution Level
(ii) Themes	
	a mada by IOAC
2.14 Significant Activities and contribution N A	s 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 achieve	ed by the end of the year *
Plan of Action	Achievements
NA	NA
* Attach the Academic Calendar of	
2.15 Whether the AQAR was placed in stat	utory body Yes No V
Management Syndica	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	$\sqrt{}$	NA	NA	NA
PG	V	NA	NA	NA
UG	NA	NA	NA	NA
PG Diploma	NA	NA	NA	NA
Advanced Diploma				
Diploma				
Certificate				
Others				
M.Tech ,M.Phil	02	NA	NA	NA
Total	04			
Interdisciplinary	NA	NA	NA	NA
Innovative	NA	NA	NA	NA

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

Pattern	Number of programmes
Semester	V
Trimester	
Annual	

1.3 Feedback from stakeholders* (On all aspects)	Alumni		Parents		Employers	$\sqrt{}$	Students	$\sqrt{}$
Mode of feedback :	Online		Manual	V	Co-operating	g scho	ools (for Pl	EI)
*Please provide an analysis of the fe	edback in th	he Ann	exure					
1.4 Whether there is any revision/	update of r	egulat	ion or sylla	abi, if	yes, mention	their	salient asp	ects.
Every one year in BOS								
1.5 Any new Department/Centre i	ntroduced	during	the year.	If yes,	give details.			
NA								
Criterion - II								

2. Teaching, Learning and Evaluation

2.1 Total No. of
permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
08	-	1	7	

2.2	No.	of	permanent	faculty	with	Ph.D.
2.2	110.	OI	permanent	racuity	WILLI	111.1.

08

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

Asst.		Associa	ite	Professors		Others		Total	
Profes	sors	Profess	ors						
R	V	R	V	R	V	R	V	R	V
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

2.4 No. of Guest and Visiting faculty and Temporary faculty

NA		
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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	18	15	
Presented papers			
Resource Persons			

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

Regular interactions of faculties regarding the higher education policies, thrust areas in physics, syllabus, examinations schedule, research activities, consultancy programmes

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

184

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

Semester System

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

10	

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		Division					
Trogramme	appeared	Distinction %	I %	II %	III %	Pass %		
M.Sc Physics	49	12	67	21	nil	100		
M.Phil Physics	10	60	40	nil	nil	100		
M.Tech laser	13	38	62	nil	nil	100		

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

NA

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted			
Refresher courses	NA			
UGC – Faculty Improvement Programme	NA			
HRD programmes	NA			
Orientation programmes	NA			
Faculty exchange programme	NA			
Staff training conducted by the university	NA			
Staff training conducted by other institutions	NA			
Summer / Winter schools, Workshops, etc.	NA			
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	03	2	1	4
Technical Staff	12	7	4	1

Criterion – III

3. Research, Consultancy and Extension

	3.1	Initiatives	of the	IQAC	in Se	ensitizing	/Promotin	g Rese	earch	Climate	in 1	the	insti	tutio	n
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Not Applicable		

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	13	14	NA	NA
Outlay in Rs. Lakhs	148 lakhs	178 lakhs	NA	NA

3.3 Details regarding minor projects

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

3.4 Details on research publications- 76

	International	National	Others
Peer Review Journals	42	10	-
Non-Peer Review Journals	10	-	-
e-Journals	-	-	-
Conference proceedings	05	07	-

3	5	Details o	n Imna	ct factor	of n	uhlica	ations
.))	Details 0	u uuna	LL TACTOL	()1 1)	uma	11110115

Range	NA	Average	NA	h-index	NA	Nos. in SCOPUS	NA	

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

Nature of the Project	Duration	Name of the	Total grant	Received
	The Project Year Solution Syrs Solution Syrs Solution Syrs Sored S	funding Agency	sanctioned	
Major projects	5yrs	UGC SAP	50lakhs	-
Minor Projects	2 xmc	UGC-DAE-	200.61	200.61
Willor Flojects	3 y18	CSR,DST,DRDO,MPCST	Lakhs	Lakhs
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the				
University/ College				
Students research projects (other than compulsory by the University)				
Any other(Specify)	2vrs	02 Golden Jubilee	2.88 lakhs	2.88 lakhs
my other (Specify)	2y13	Fellowship by University	2.00 lakiis	2.00 lakiis
Total			253.49	203.49

3.7 No. of books published	d i) W	ith ISE	BN No.	NA		hapters in	Edited Bo	ooks	
3.8 No. of University Dep	,		ISBN No					_	
	UGC-	SAP	50lakh	CAS			OST-FIST		
	DPE					I	OBT Schei	me/funds	
3.9 For colleges	Auton	omy [СРЕ [OBT Star S	Scheme	
	INSPI	RE		CE [Ā	Any Other	(specify)	
3.10 Revenue generated th	nrough (consulta	ancy	nil					
3.11 No. of conferences		Leve	el	Internatio	nal	Nationa	1 State	University	College
	4:	Numb		01					
organized by the Instit	ution	Spons agenc	usoring UGC 12 ^{tt} cies plan		tn				
							l		1
3.12 No. of faculty served	as expe	erts, cha	airpersor	ns or resour	ce p	ersons	10		
3.13 No. of collaborations		Ir	nternatio	nal 03	Na	tional	08	Any other	Nil
3.14 No. of linkages create	ed durir	ng this y	year	Nil				_	
3.15 Total budget for resea	arch for	curren	t year in	lakhs : No	t Ap	plicable			
From Funding agency	Nil		From	Manageme	nt of	Universi	ty/College	Nil	
Total	Nil]						
3.16 No. of patents receiv	ed this	year	Type of	Patent			Numb	er	
		-	Nationa		Aı	pplied	Not App		
					_	anted			
			Internati	ional		oplied	Not App	licable	
			Commo	rcialised		ranted	Not App	licable	
			Comme	i cianseu		oplied anted	тиот Арр	ncaule	
					UI.	miica		1	

3.17 No. of research awards/ recognitions	received by faculty and research fellows
Of the institute in the year: Not Appli	cable

	Total	International	National	State	University	Dist	College]	
wh	o are Pl	culty from the I n. D. Guides as registered und		[08				
3.19 N	o. of Ph	.D. awarded by	faculty fro	om the I	nstitution	[11		
3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)									
	J	RF 04	SRF	01	Project Fel	llows	17	Any other	Nil
3.21 N	o. of stu	idents Participa	ted in NSS	events	Not Applic	able			
					University	y level		State level	
					National 1	level		International level	
3.22 N	o. of st	udents participa	ated in NCO	C events	s: Not Applic	able		l	
					Universit	ty level	1	State level	
					National	level		International level	
3.23 N	o. of A	wards won in N	NSS: Not	Applica	ble			'	
					Universit	y level		State level	
					National 1	level		International level	
3.24 N	o. of A	wards won in N	NCC: Not A	Applica	ble			'	
					University	y level		State level	
					National 1	level		International level	
3.25 N	o. of Ex	tension activiti	es organize	d: Not	Applicable			l	
	Univ	ersity forum		College	forum				
	NCC			NSS			Any	other	
	-	tivities during to	•	the sph	ere of extensi	on acti	vities and	Institutional Social	

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	744 sqm			
Class rooms	1200sqft			
Laboratories	70x50 sqft			
Seminar Halls	45x20 sqft			
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	Nil			
Value of the equipment purchased during the year (Rs. in Lakhs)	Nil			
Others	Nil			

4.2 Computerization of administration and library

Office work carried out through computers. Library equipped with internet and computer facility

4.3 Library services:

	Exis	sting	Newly	added	Total	
	No.	Value	No.	Value	No.	Value
Text Books	1515		1000			
Reference Books	1500					
e-Books	Nil					
Journals	500					
e-Journals	Nil					
Digital Database	Nil					
CD & Video	Nil					
Others (specify)	Nil					

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart- ments	Others
Existing	40	01	yes	IT center				
Added	Nil	Nil	Nil	Nil				
Total	40	01						

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

Central facility is available with IT centre DAVV	

46	Amount	spent	οn	maintenance	in	lakhe	
4.0	Amount	Speni	OII	mannenance	Ш	Takiis	

i)	ICT	NIL
ii)	Campus Infrastructure and facilities	NIL
iii) I	Equipments	Nil
iv) (Others	Nil

Total: Nil

Criterion - V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

Feed back system is followed at the end of every semester in M.Sc ,M.Phil & M tech Programmes

5.2 Efforts made by the institution for tracking the progression

With the help of feed back the suggestion had been incorporated and being implemented in the coming semesters.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
Nil	114	19	Nil

(b) No. of students outside the state

32%

(c) No. of international students

Nil

	No	%	
Men			Wo

omen

No	%

Last Year					This Year						
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
65	12	7	26	NII	110	75	11	02	26	nil	114

Demand ratio 114:114

Dropout % 2

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

GATE NET JEST BARC, TIFR providing facilities for these exams.

No. of students beneficiaries

10%

5.5 No. of stud	dents qualifie	ed in these examination	ns			
NET		SET/SLET	GATE	02	CAT	
IAS/IPS e	tc	State PSC	UPSC		Others 03	
5.6 Details of	student coun	selling and career guid	lance			
	_	ding student counselling in the school 7 Univer	_			
No. of	students ber	nefitted All				
5.7 Details of	campus place	ement: Not Applicabl	e			
		On campus			Off Campus	
Orga	mber of nizations isited	Number of Students Participated	Number Students P		Number of Students Pla	aced
5.8 Details of	gender sensit	tization programmes:	Not Applicab	ole		
5.9 Students	Activities					
5.9.1 No	o. of students	s participated in Sports	, Games and o	other eve	ents	
St	ate/ Universi	ty level Nil N	ational level	Nil	International level	Nil
No	o. of students	s participated in cultur	al events: Not	Applica	ible	
St			ational level		International level	

5.9.2	No. of medals /awards won by students in Sp	orts, Games and other	events Not Applicable	
Sports	: State/ University level National l	evel Inter	national level	
Cultura	al: State/ University level National l	evel Inter	national level	
5.10 Scho	larships and Financial Support			
		Number of students	Amount	
	Financial support from institution	Nil		
	Financial support from government	40	As per gov rules	
	Financial support from other sources	Not Applicable	Not Applicable	
	Number of students who received International/ National recognitions	Not Applicable	Not Applicable	
5.11 Stu	dent organised / initiatives : Not Applicable			
Fairs	: State/ University level National le	evel Intern	national level	
Exhibition	n: State/ University level National le	evel Interr	national level	
5.12 No	. of social initiatives undertaken by the students	Nil		
5.13 Maio	or grievances of students (if any) redressed:	Nil		

Criterion - VI

6. Governance, Leadership and Management

- 6.1 State the Vision and Mission of the institution
 - > To impart knowledge in the field of Physics and educate the students to accept the challenges in the nascent as well as thrust areas of research and development.
 - > To give an exposure to the students about the technological aspects where physics is directly involved.
 - > To strengthen the theoretical background in Physics of those who are already engaged in educational and research organizations at various levels.
 - To develop research and teaching collaborations with other scientific organizations for the transfer of knowledge.
- 6.2 Does the Institution has a management Information System

The management system is developed by systematically distributing the workload to the committees formed by the department. This way all the faculty members share responsibilities. In this respect we have:

- 1.Departmental IQAC Committee;
- 2. Purchase Committee:
- 6.3 Quality improvement strategies adopted by the institution for each of the following:
 - 6.3.1 Curriculum Development
 - 1. The comments given by the students along with the inputs from faculty are analyzed by a committee consisting of senior Professors of the Department. The report regularly hosted on IQAC website of University, Indore.
 - 6.3.2 Teaching and Learning

The methods adopted for improvement in learning is through Power Point presentations, this helps in teaching. The teaching process is faster and topic is covered within shorter time, this enables more time for interactive discussion in place of time spent in writing and drawing on blackboard.

6.3.3 Examination and Evaluation

Answer sheets are shown to students after evaluating in tests and end semester examination.

The result has been declared in due course of time. The ordinance 31 of University is completely followed. Faculty member shows the answer sheets to the students before declaring the result.

6.3.4 Research and Development

Faculty members of School of Physics are actively engaged in research and development activities. This will enable the Department to meet the new challenges and will allow the students to have better opportunity for employments in national / international laboratories and organizations.

6.3.5 Library, ICT and physical infrastructure / instrumentation

40 computers are connected with INFLIBNET facilty and 02 classrooms and 01 seminar hall is equipped with LCD projector.

6.3.6 Human Resource Management

Not Applicable

6.3.7 Faculty and Staff recruitment

Need of additional teaching faculty, administrative staff and Technical staff and librarian. As per univ rules

6.3.8 Industry Interaction / Collaboration

Arrange lectures of persons from industry. M.Tech Laser Application is a course dealing with technology and hence feasibility of increasing interaction between students of this course and industry can be explored.

6.3.9 Admission of Students

Through Entrance examination followed by Written & Interview process.

6.4 Welfare schemes for

Teaching	As per Univ norms
Non teaching	As per Univ norms
Students	As per Univ norms

6.5 To	otal corpus fund genera	nted NA				
6.6 W	hether annual financia	l audit has been	done Yes	yes No		
6.7 W	hether Academic and	Administrative A	Audit (AAA) has	s been done?		
	Audit Type	Ext	ternal	Inte	ernal	
		Yes/No	Agency	Yes/No	Authority	
	Academic	NA	NA			
	Administrative	NA	NA	By the Audit D	Dept of Univ	
		r UG Programm r PG Programm	nes Yes [No No yes		s?
	Not Applicable					
6.10 V	What efforts are made	by the Universit	y to promote aut	onomy in the aff	iliated/constitu	ent colleges?
	Not Applicable					
6.11 A	Activities and support f	rom the Alumn	i Association			
	Alumni meet has be	en organised b	y the departme	nt.		
6.12 A	Activities and support f	From the Parent	– Teacher Assoc	iation		
	A parent teacher m dept to gain feed ba	_	•	·		
6.13 I	Development programm	mes for support	staff			
	Not Applicable					

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

Energy conservation CFL is installed in place of tubes. Light and fan are switched off while leaving the classroom or office. Use of renewable energy Solar power plant installation is planned for UGC XII plan. Water harvesting – Porposal for new building is submitted and it is planned that the water harvesting system will be provided. The university already adopts efforts for Carbon neutrality within Green policy. Cleaning drive of the campus has been carried out. Popular lectures on environment protection are organized and documentaries for the same have been shown to the students and faculty.

Criterion - VII

7. Innovations and Best Practices

Workshop on Free electron lasers and International conference (ICRTP) was organized and the proceeding was published in IOP Confrence series, IOP U. K.
7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year
Not Applicable
2.3 Give two Best Practices of the institution (please see the format in the NAAC Self-study Man
Expert seminars are arranged.
It is a unique feature of the department that selected students undergoes an exhaustive training at national laboratories of international repute.
*Provide the details in annexure (annexure need to be numbered as i, ii,iii)
.4 Contribution to environmental awareness / protection
Cleaning drive of the campus has been carried out.
7.5 Whether environmental audit was conducted? Yes yes No
6.6 Any other relevant information the institution wishes to add. (for example SWOT Analy
Not Applicable

8. Plans of institution for next year

□ Virtual classroom simulation experiment □ To make IR	ts.			
NameDr.Prof. Pratima Sen	_ <i>No</i>	ame		
Signature of the Coordinator, IQAC	_	Signe	uture of the Chair	rperson, IQAC
	***	•		