School of Energy & Environmental Studies (SEES)

The Annual Quality Assurance Report (AQAR) of the IQAC School of Energy & Environmental Studies (SEES): Academic Year 2013-14

Part – A

1. Details of the Institution					
1.1 Name of the Institution	School of Energy & Environmental Studies				
1.2 Address Line 1	Takshila Campus,				
	Khandwa Road				

Address Line 2 Indore City/Town Madhya Pradesh State 452001 Pin Code spsanjali@gmail.com Institution e-mail address +91-731-2460309 Contact Nos. Dr. S. P. Singh Name of the Head of the Institution: Tel. No. with STD Code: +91-731-2460309 +919424009418 Mobile: Dr. S. P. Singh Name of the IQAC Co-ordinator: Mobile: +919424009418 iqac.sps.davv@gmail.com

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

IQAC e-mail address:

1.4 Website address: http://www.sees.dauniv.ac.in/

Web-link of the AQAR:

http://www.iqac.dauniv.ac.in/IQACREPORT2013_14.php

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

1.5 Accreditation Details

Sl. No.	Cyala	Grade	CGPA	Year of	Validity
S1. NO.	Cycle	Grade	CGPA	Accreditation	Period
1	1 st Cycle	"B"	Four Star	2000	"Five Years"
2	2 nd Cycle	"B"	2.57	2008	"Five Years"
3	3 rd Cycle	"A"	3.09	2014	"Five Years"
4	4 th Cycle	NA	NA	NA	NA

	4	4 th Cycle	NA	NA	NA	NA	
1.6 D	ate of Estab	olishment of IC	QAC : DI	D/MM/YYY	Y 2	1/11/2008	
1.7 A	QAR for the	he year <i>(for e:</i>	cample 2010)-11) 20	13-14		
			-		NAAC after the ubmitted to NA.		
	i AOAR				(D	D/MM/YYY	Y)
					(I		
ii					(D		
iv					(D)		
1.9 Iı	nstitutional	Status					
U	Jniversity		State	e 🗸 Cen	tral Dee	med	Private
A	Affiliated Co	ollege	Yes	No.			
C	Constituent (College	Yes	No			
A	utonomous	college of UG	C Yes	No			
R	egulatory A	gency approve	ed Institution	Yes	AICTE	No	
(eg	g. AICTE, E	BCI, MCI, PCI	, NCI)				

Type of Institution	Co-education	Men Wo	omen	
	Urban	Rural Tr	ibal	
Financial Status	Grant-in-aid	UGC 2(f)	UGC 12B	
	Grant-in-aid + Self Fi	nancingTot	ally Self-financing	
1.10 Type of Faculty/Pro	ogramme			
Arts	Science Comn	nerce Law	PEI (Phys Edu	u)
TEI (Edu)	Engineering [Health Science	Management	
Others (Spec	ify) Engine	aring Science		
1.11 Name of the Affilia	ting University (for the	Colleges) NA		
1.12 Special status confe	rred by Central/ State (Government UGC/	/CSIR/DST/DBT/ICM	IR etc
Autonomy by State/	Central Govt. / Univers	sity State		
University with Pote	ential for Excellence		UGC-CPE	
DST Star Scheme			UGC-CE	
UGC-Special Assist	ance Programme		DST-FIST	
UGC-Innovative PG	programmes		Any other (Specify)
UGC-COP Program	mes			

2. IQAC Composition and Activities

2.1 No. of Teachers	3
2.2 No. of Administrative/Technical staff	1
2.3 No. of students	1
2.4 No. of Management representatives	1
2.5 No. of Alumni	1
2. 6 No. of any other stakeholder and community representatives	1
2.7 No. of Employers/ Industrialists	1
2.8 No. of other External Experts	1
2.9 Total No. of members	10
2.10 No. of IQAC meetings held	2
2.11 No. of meetings with various stakeholders: Non-Teaching Staff 4 Students	No. 10 Faculty 4 1 Alumni 0 Others 1
2.12 Has IQAC received any funding from UGC do If yes, mention the amount	
2.13 Seminars and Conferences (only quality relate	
(i) No. of Seminars/Conferences/ Workshops.	
Total Nos. International	National State Institution Level 4
(ii) Themes	
2.14 Significant Activities and contributions made	
Student Carrier counselling and caStudent activity support system	arrier guideline

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 *

S	Plan of Action	Achievements
No		
1.	Preparation of the department and	University was awarded "A" grade by
	University for NAAC Inspection to be	NAAC
	conducted this year	
2.	Regular Seminars for students on various	Conducted Seminars on Personality
	themes	Development, Career Counselling etc.
3.	Preparation for submission of research	Research proposals were submitted to
	proposals to various funding agencies	AICTE, DST,UGC and MPCST.

^{*} Attach the Academic Calendar of the year as Annexure.

2.16 Whether the AQAR was placed in statutory body	Yes V	0
Management Syndicate	Any other body	University IQAC Cell
Provide the details of the action taken During filing Some difficulties in new form	nat of AQAR solved b	y IQAC Cell .

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	02	00	00	01
PG	02	00	01 Plan	00

UG	00	00	00	00
PG Diploma	00	00	01 Plan	00
Advanced Diploma	00	00	00	00
Diploma	00	00	00	00
Certificate	00	00	00	00
Others	00	00	00	00
Total	04	00	02	00
Y . 1' ' 1'	00	00	00	00
Interdisciplinary	00	00	00	00
Innovative	00	00	00	00
•		/ /		

 $1.2 \quad (i) \ Flexibility \ of the \ Curriculum: \ CBCS/\textbf{Core/Elective option} \ / \ Open \ options \ \ , \ Yes$

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	02
Trimester	0
Annual	0

1.3 Feedback from (On all aspec		Alumni	✓	Parents		Employers	✓	Students	✓
Mode of	feedback :	Online		Manual	✓	Co-operating	g scho	ools (for PI	EI)
*Please provide an	analysis of the fe	edback in th	ie Ann	exure					
1.4 Whether there	e is any revision/u	update of re	egulat	ion or sylla	abi, if	yes, mention	their	salient asp	ects.
	accordance to Condidates accord			•		to provide r	nore	choices to	the
va	nriculum devel rious experts fro urse content and	om the aca							
• Sy	llabi are finaliz	ed in the r	neetir	ng of the	Board	l of Studies			
1.5 Any new Dep	artment/Centre in	ntroduced o	during	the year.	If yes,	give details.			
NII									

Criterion - II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent

Total	Asst. Professors	Associate Professors	Professors	Others
03	00	01	02	00

faculty

1.2 No. of permanent faculty with Ph.D.

03

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

Asst.		Associate		Professors		Others		Total	
Professors		Profess	ors						
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

04	00	00
	1	

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	0	02	0
Presented papers	0	0	01
Resource Persons	0	02	02

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

Use of Multi media presentation, Internet and field visit in various manufacturing plants facilities has been adopted by the Faculty. Students join project for a period of six months in last semester. Seminars are delivered by students. Answer books are shown to students after evaluation.

This lad to immunerament in attribut learning and Irnaryladas

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

205

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

95%

2.11 Course/Programme wise distribution of pass percentage :

Title of the Programme	Total no. of students	Division						
	appeared	Distinction %	I %	II %	III %	Pass %		
M.Tech.(EM)	16	56.25	43.75	0	0	100		
M.Phil(E&E)	8	37.5	50	0	0	87.5		

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

Feedback is taken from students, and students have easy access to teachers and other infrastructure facilities. Meetings are regularly held between departmental IQAC committee and faculty of the department. Revision of the curriculum, by taking feedback by students, self appraisal of faculty, etc., review teaching learning process to ensure quality teaching.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	Nil
UGC – Faculty Improvement Programme	Nil
HRD programmes	Nil
Orientation programmes	Nil
Faculty exchange programme	Nil
Staff training conducted by the university	Nil
Staff training conducted by other institutions	02
Summer / Winter schools, Workshops, etc.	Nil
Others	04

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	02	0	0	0
Technical Staff	00	0	0	0

Criterion - III

3. Research, Consultancy and Extension

- 3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution
 - 1. IQAC conduct workshop for faculty and students on research methodology.
 - 2. IQAC conducted lectures of eminent scientist and researchers to create research environment.
 - 3. IQAC suggest for the development of research laboratory and procurement of software to promote research

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	01	04	0	0
Outlay in Rs. Lakhs	7.91	66.58	0	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	07	05	00
Non-Peer Review Journals	00	00	00
e-Journals	00	00	00
Conference proceedings	03	02	00

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_))	Detans	OH I	mmacı	racion	บบบ	4171	ications	•

Range	0.5-2.093	Average	1.43	h-index		Nos. in SCOPUS	
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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
Nature of the Project	Year	funding Agency	sanctioned	
Major projects	Yearly	DST,UGC,MNRE	74.49	74.49
Minor Projects	00	00	00	00
Interdisciplinary Projects	00	00	00	00
Industry sponsored	00	00	00	00

Projects sponsored by the University/ College	00	00	00	00
Students research projects (other than compulsory by the University)	00	00	00	00
Any other(Specify)	00	00	00	00
Total	00	00	74.49	74.49

		_	_			
3.7 No. of books published	d i) With ISBN	No. NIL	Chapter	rs in Edi	ted Books	NIL
3.8 No. of University Depa	ii) Without ISE		IL			
5.0 10. of Offiversity Depa		g runus from				
	UGC-SAP 0	CAS	0	DST-	-FIST	0
	DPE 0			DBT	Scheme/fund	s 0
3.9 For colleges	Autonomy 0	СРЕ	0		Star Scheme	0
	INSPIRE 0	CE	0	Any (Other (specify	⁽⁾ 0
3.10 Revenue generated th	ırough consultanc	y Yes				
3.11 No. of conferences	Level	International	National	State	University	College
	Number	0	0	0	4	0
organized by the	Sponsoring	0	0	0		0
Institution	agencies				Department	
3.12 No. of faculty served	as experts, chairp	persons or resou	ırce person	s 03		
3.13 No. of collaborations	Inter	rnational 0	National	0	Any oth	ner 0
3.14 No. of linkages create	ed during this yea	r 0				
3.15 Total budget for resea	arch for current ye	ear in lakhs :				
From Funding agency	0.90 F	From Managem	ent of Univ	ersity/C	College 0.60	
Total	1.5					

Type of Patent		Number
National	Applied	00

3.16 No. of patents received this year

	Granted	00
International	Applied	00
	Granted	00
Commercialised	Applied	00
	Granted	00

3.17 No. of research awards/ recognitions received by faculty and research fellows

O	f the ins	titute in the yea	r									
	Total	International	National	State	University	Dist	College	:				
	01	00	00	01	00	00	00					
		ulty from the In D. Guides	stitution	(03							
		registered unde	er them	[-	19							
3.19 No	o. of Ph.	D. awarded by	faculty fron	n the In	stitution		02					
3.20 No	o. of Res	earch scholars	receiving th	ne Fello	wships (New	ly enro	olled + ex	isting ones)				
	JRF 01 SRF 2 Project Fellows 0 Any other 03											
3.21 N o	3.21 No. of students Participated in NSS events: NA											
					University	level	0	State level	0			
					National le	evel	0	International level	0			
3.22 No	o. of stu	dents participat	ed in NCC	events:	NA							
					University	level	0	State level	0			
					National le	evel	0	International level	0			
3.23 No	o. of Aw	vards won in N	SS:	NA	\							
					University	level	0	State level	0			
					National le	evel	0	International level	0			
3.24 No	o. of Aw	vards won in No	CC: NA									
					University	level	0	State level	0			
					National le	evel	0	International level	0			
3.25 No	o. of Ext	ension activities	s organized									

University forum	University forum					
NCC	0	NSS	0	Any other	4	

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

- •
- •
- •
- Green Calendar for International Energy and Environmental Days
- Khan River cleanings drive
- Plantation Activities

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	1259 Sqm	Planed	UGC	1259Sqm
Class rooms	02			
Laboratories	07			
Seminar Halls	01			
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	0			
Value of the equipment purchased during the year (Rs. in Lakhs)	0.65		UGC,DST,MPCST	
Others	0.45		MNRE	

4.2 Computerization of administration and library

Yes, Library and administration are fully computerized

4.3 Library services:

	Existing		Newly	added	Total		
	No.	Value	No.	Value	No.	Value	
Text Books	4439		18	0.76 lakh	4457	0.76 lakh+	
Reference Books	100						
e-Books	40						

Journals				
e-Journals	84			
Digital Database				
CD & Video	85			
Others (specify)	50			

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart- ments	Others
Existing	45	01	All	02	01	03	10	0
Added	0	0	0	0	00	0	0	0
Total	45	01	All	02	01	03	10	0

4.5 Computer, Internet access, training to teachers and students and any other programme for technology

upgradation (Networking, e-Governance etc.)

B 1			
1 1/10			
LINO			

4.6 Amount spent on maintenance in lakhs:

i)	ICT	0.30
ii)	Campus Infrastructure and facilities	0.45

iii) Equipments 0.20

iv) Others 0.15

Total: 1.1

Criterion - V

5. Student Support and Progression

- 5.1 Contribution of IQAC in enhancing awareness about Student Support Services
 - * Work for Vision and for achieving the mission
 - * Enhancing Teaching and learning
 - Departments to benchmark with international departments of repute
 - Introduction of MBA with unique specialization in the Energy Management.
 - Modular teaching with Integrated Curricular from inter discipline department of the University

- * Enhancing Human resource planning and development
 - To organize at least one national workshop/ Seminar on green energy Technologies on par withInternational Standards
 - 2 training programmes, on use of Solar energy devices and operation and maintenance of biogas plant
 - Formalizing Mentoring for first year students
- * Enhancing Industry interaction
 - Finalizing Institute Industries forum
 - Signing at least 1 MoUs per year with Industries /NGOs
- * Enhancing Internationalisation
 - On line forum to discuss Energy & Environmental issues around the globe

5.2 Efforts made by the institution for tracking the progression

Field visits in different large industries/organizations and huge renewable energy field systems is found very effective for understanding the issues related to technical and economical aspects of real design, construction, implementation and operational systems.

5.3 (a) Total Number of students

ĺ	UG	PG	Ph. D.	Others
ĺ	0	47	19	0

(b) No. of students outside the state

(c) No.	of in	itern	atior	nal stu	dents	0						
N	Ien	_	No 16	% 64	Women	N 0						
			Las	t Year ((12-13)				This `	Year (1	3-14)	
Gener	al	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
16		02	0	4	0	22	17	4	0	4	0	25
	App			рроге	nechanism for	Codemin	g for com	petiti		amma	uons (11 un)	· /
				neficia	nries these examina	ntions N	A					
NET			1	1	ET/SLET	_	ATE [7	CAT		
IAS/IP	S etc			_	ate PSC		IPSC [_	Others	;	
							L					
Details	of st	uder	nt co	unselli	ing and career	guidance)					
	danc ect p				lling is provid	ed to th	e studen	ts foi	aca	demic	improvem	ent and
				ty Ca age I		_	_				me to time. JGC grant	at School C

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

Students are employed during their project in last semester. There is no need to call companies for interview in campus in our department.

An	ils of gender sensitization particles Ragging Committee for iversity conducts programm	ormed		n.		
5.9 Stud	lents Activities					
5.9.1	No. of students particip	ated in Sp	orts, Games and	other eve	ents	
	State/ University level No. of students particip	Y ated in cul	National level		International level	
	State/ University level	Υ	National level		International level	
5.9.2	No. of medals /awards	won by stı	udents in Sports,	Games a	nd other events	
Sport	s: State/ University level	Υ	National level		International level	

5.10 Scholarships and Financial Support

Cultural: State/ University level Y

	Number of students	Amount
Financial support from institution	Nil	Nil
Financial support from government	All SC/ST/OBC students	As per Govt.
Financial support from other sources	Nil	Nil
Number of students who received International/ National recognitions	02	NRE Fellow ship

National level

International level

- 1. Scholarship and fee reimbursement to ST/SC and OBC through State Government
- 2. The department are AICTE approved. All students taking admission in M.Tech. courses in 2012-14 batch are GATE qualified and receive Rs. 8000/- per month as stipend as and when it is received from AICTE.

5.11 Student organised / initiative	es		
Fairs : State/ University level	Y National level	Υ	International level
Exhibition: State/ University level	γ National level		International level
5.12 No. of social initiatives unde	ertaken by the students	Υ	
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

To be a frontline school specializing in need based research and in developing professionals for energy and environmental solutions.

Mission

- » To develop and provide world class professionals with excellent analytical, communication skills and ability to work in the field of Energy and Environment.
- » To ensure excellent research work to be competitive internationally and to cater to the needs of local / regional and national significance in the area of energy and environment.
- » Inculcate professional, social and environmental ethics among—youths to serve mankind and society.

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

Department uses the feedback as indicator of the overall quality of the teaching and learning and using this indicator the required changes implemented.

6.3.2 Teaching and Learning

Three Stage Teaching by using multimedia teaching methods, chalkand-talk **method** and Field Visits in Industries/organizations/Renewable systems sites for practical knowledge on different real systems/processes in the field of Energy and Environment was adopted

Theories, Seminars, Field visits, DVDs, Projects were used to assess the learning progress of the student. Overall Knowledge was also assesses by external expert and teachers in comprehensive viva voce

- Final outcome assessed on the basis of regular minor, seminars, group discussion, assignments etc
- Feedback form with ten impotent aspects of teaching and teacher is circulated to students at the end of each semester. Feedback data is analyzed in percentage on the by assigning the numbers to each activity.
- Departmental committee discuss all the issues related to teaching curriculum, question papers, examination procedure, evaluation methods and feedback percentage of individual teacher calculated from students feedback. The strength and weakness are communicated in the meeting to the concern teachers. A teacher is also guided by senior Faculty for improving teaching-learning process in next semester. The steps are taken also to improve the quality of the teaching-learning process

6.3.3 Examination and Evaluation

- Hard Copies of Teaching plan and schedule are distributed to students in advance.
- Examinations held as per Ordinance 31
 Information is hosted at website www.dauniv.ac.in

6.3.4 Research and Development

- ✓ Research laboratories are well equipped with required facilities and having modern instruments and equipments.
- ✓ Each Teacher has One/Two research laboratory separately for their research work. Some Research Laboratories are
- ✓ Biomass conversion Laboratory
- · Biomass conversio

6.3.5 Library, ICT and physical infrastructure / instrumentation

Library is fully computerized for the records and availability check of books, journal and magazines.

TLSS software is used for Database and searching the books.

INFLIBNET/IUC facilities are used frequently for research work.

University has ICT infrastructure. Wi-Fi campus ,best auditorium and sports fields.

Class rooms and seminar hall are equipped with multimedia setup to make ICT-enabled classrooms

Department availing of the National Knowledge Network connectivity Through Internet network byIT center in the class rooms.

6.3.6 Human Resource Management

All teachers are engaged actively in research and development therefore remains in contact with front line research and changing scenario in the field of energy and environment. The changing requirements of curriculum are discussed in Departmental Meetings. The planning of next year is done by fixing responsibilities of different activities are to be carried out. A departmental calendar is prepared.

6.3.7 Faculty and Staff recruitment

Faculty and staff members are recruited by University norms on regular and contract basis.

6.3.8 Industry Interaction / Collaboration

- ✓ Industries help by giving permissions and to explain the processes and technologies used in industrial experts during their field visits. Also Industrial experts come for lectures in the department and discuss the issues related to energy and environment on specific processes and system performances.
- ✓ Training and jobs are provided to students with the cooperation of Stakeholders.
- ✓ Industrial experts and Stakeholders cooperate also in modifications in curriculum every year by providing their suggestions and expert opinion.

6.3.9 Admission of Students

Admission notice for all the programmes is published in Employment News and Selected national and local newspapers in the month of April/May and also displayed on University Website: www.dauniv.ac.in. Applications are downloaded or apply online from the website: mponline.gov.in

6.4 Welfare schemes for

Teaching	University quarter-1, Wardenhouse-2,
	Shishu vihar – 2 faculties are using.
Non teaching	University quarter-5, ESI-41,EPF, etc
Students	Scholarships, Various clubs and cells

6.5 Total corpus fund generated				
6.6 Whether annual financial audit ha	s been done	Yes Y	No [

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

Audit Type	External		Inter	rnal
	Yes/No	Agency	Yes/No	Authority
Academic				
Administrative				

6.8 Does the University/ Autonomous College declares r	esults within 30 days?
For UG Programmes Ye	s No
For PG Programmes Ye	s Y No
6.9 What efforts are made by the University/ Autonomou	as College for Examination Reforms?
Department has developed mechanism for well evaluation processes. Department is timely mana examination, their schedule, time-table and evaluation following Central Valuation system for evaluation first day of commencement of the examination at the examination. Result preparation is done comp	ge all internal and end semester lation process. The department is on. The evaluation work starts from the and results declared within 10 days after
6.10 What efforts are made by the University to promote college.	autonomy in the affiliated/constituent
Ordinance 31 provides academic a school. University conveys apprecia based assessment (prescribe by UG faculty. Self appraisal and PBA form	and evaluation function autonomous to the tion of the work of Dr. S P Singh. Performa (C) is filled at the end of every year by each in are assessed by University. Remarks are diverse remarks has been communicated for
6.11 Activities and support from the Alumni Association	1
SEES Alumni association having an intera	action through Internet
Rs 300 per student fee is taken for the alun	nni association
6.12 Activities and support from the Parent – Teacher As	ssociation
Department always welcome all the queries of p	parents
6.13 Development programmes for support staff	
Next year i.e. in 2014-2015 short term courses organized for the support staff.	will be

- 6.14 Initiatives taken by the institution to make the campus eco-friendly
 - * Energy conservation
 - ✓ Energy Audit of all departments are done by the School faculty and students. Reports are to be submitted
 - * Use of renewable energy
 - \checkmark 5 kW_p Photovoltaic power plant to meet the maximum demand of the department
 - * Water harvesting
 - ✓ Roof harvesting system based on rock fracturing technique was installed
 - * Check dam construction
 - ✓ Small Pond is to be constructed for Water Recharging for University.
 - * Efforts for Carbon neutrality
 - ✓ Yes, Energy and water conservation in building in addition to gardens and plantation.
 - * Plantation
 - ✓ More than 500 Trees, shrubs and flower plants are grown in and around the School building.
 - * Hazardous waste management System to be installed
 - * e-waste management e-waste collected and sold to Government approved vender.

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.

Involvement of students in frontline research and consultancy projects making better professionals in the field of Energy and Environment. It is observed that they are well trained with enhanced practical knowledge and fully developed skills in energy auditing and conservation, design of renewable energy systems and environment assessment projects. They learn about the practical design aspects, data collection and measurements, analysis of data, results interpretation and appropriate recommendations for future and preparation of Detailed Project Report (DPR). It is also acknowledged by us and stakeholders.

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

The Department is strictly following the Academic Calendar. Special Classes for advanced learners and remedial classes for the weaker students have been conducted.

- 7.3 Give two Best Practices of the institution (please see the format in the NAAC Self-study Manuals)
 - Suggestions from senior alumni on job requirements during project time.
 - Keeping the records of alumni.
 - Regular revision of the syllabus
 - Regularly update the full functional web site of University.
 - Transparency in the admission and examination process. The admission list
 is prepared by different board members. The final marks are complied of
 four members of a board and then merit list displayed on the notice board &
 internet same day.

The examination copies are shown to the students before the comprehensive viva voce.

- Use of ICT in all the class rooms.
- Field visits are organized for the students on alternative Saturday.
- Seminar is organized every week for students presentation on specific topics.
- Extra coaching for the weak and advance students are held by individual

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

7.4 Contribution to environmental awareness / protection

School organized different activities for environment protection. i.e. plantation , shram dan in a day an hour every week.

Environment Consciousness

Department Area Green Audit details

Energy Efficient Building Design

Features

- ✓ East –west long orientation: Minimum cooling load in summer and maximum heat gain in winter
- ✓ Hollow walls: Reduction in cooling and heating load in summer and winter
- ✓ South wall windows for maximum solar heat gain in winters
- ✓ North wall window designs for proper lighting.
- ✓ Exact overhang sizes to cut direct radiation gain into the building
- ✓ Light colours on outside walls for minimum heat gain
- ✓ Light shaft for lighting
- ✓ Reflection from overhangs top white tiles to roof inside the building
- ✓ Passive cooling tower to cool /reduce Air conditioning load whole building in Summer

Energy efficient lighting, Air conditioners and other gadgets

The following Energy efficient lighting and Air conditioners are installed for use and demonstration.

- \checkmark T5 (26 W) tube lights,
- ✓ CFL's,
- ✓ LED lights for inside and outdoor lighting,
- ✓ Metal Halide fixtures,
- ✓ Induction lighting systems
- ✓ Energy efficient Five Star and three star Air conditioners are installed in the building
- > Flat LCD screens installed with computers in replace of old CPU.

Water Conservation

- ✓ Roof harvesting system based on rock fracturing technique was installed.
- ✓ Sprinklers are installed for gardens irrigation.
- ✓ Water wastages is minimized by checked regularly the leakages by maintenance.

Waste Recycling Minimization

- ✓ Use of Paper is minimized by using more electronic communication.
- ✓ Organic Solid waste is converted to compost by **vermi composting method**.

Renewable Energy Systems

- ✓ 5 kW_p Photovoltaic power plant to meet the maximum demand of the department
- ✓ 2 cu meter biogas plant for departmental kitchen and for demonstration
- ✓ Water heating system c also coupled to kitchen for hot water requirements as tea making etc.

Reuse of Resources

✓ Composted slurry and composed manure from vermin composting systems are used in gardening and plantation in the department as well as in the university.

7.5 Whether environmental audit was conducted? Yes No
7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)
Strength (a) High spirit of Team work to complete any task assigned or taken by the School and focus on both knowledge acquisition and employment capabilities of student

(b) Promotion of Inter-disciplinary research to bring science and technology

3. Opportunities

- (a) Participation in Exchange programmes with foreign Universities
- (b) Invite alumni for guest lectures and as external experts for examination
- (c) Syllabus modifications according to Industries/organisations need
- (d) Academic autonomy to the School

4. Challenges

- (a) To develop Research and educational Laboratories of International standards
- (b) Collaboration with International Institutes / Universities/ R&D organizations.
- (c) Increasing Student-teacher ratio
- (d) To provide Value Education to students

8. Plans of institution for next year

School will start two new M.B A and P. G. Diploma programmes in next year.

Name	Name	
Signature of the Coordinator, IQAC	Signature of the Chairperson, IQ	 'AC

Annexure I

Abbreviations:

CAS - Career Advanced Scheme

CAT - Common Admission Test

CBCS - Choice Based Credit System

CE - Centre for Excellence

COP - Career Oriented Programme

CPE - College with Potential for Excellence

DPE - Department with Potential for Excellence

GATE - Graduate Aptitude Test

NET - National Eligibility Test

PEI - Physical Education Institution

SAP - Special Assistance Programme

SF - Self Financing

SLET - State Level Eligibility Test

TEI - Teacher Education Institution

UPE - University with Potential Excellence

UPSC - Union Public Service Commission
