



**Dr. M.G.R.**  
**EDUCATIONAL AND RESEARCH INSTITUTE**  
**UNIVERSITY**

(Declared u/s Sec. 3 of the UGC Act 1956)

**Internal Quality Assurance Cell**  
**(IQAC)**  
**Annual Quality Assurance Report**  
**(AQAR)**  
**2013-14**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

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

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

### Part – A

#### I. Details of the Institution

1.1 Name of the Institution	Dr.M.G.R Educational and Research Institute, (Deemed University u/s 3 of the UGC Act 1956)
1.2 Address Line 1	NH-4 Periyar EVR High Road
Address Line 2	Maduravoyal
City/Town	Chennai
State	Tamil Nadu
Pin Code	600 095
Institution e-mail address	vc@drmgrdu.ac.in
Contact Nos.	044-23782176 / 23782085
Name of the Head of the Institution:	VICE CHANCELLOR, Dr.K..Meer Mustafa Hussain
Tel. No. with STD Code:	044 - 23782186

Mobile:

0-9884804999

Name of the IQAC Co-ordinator:

Dr.K.Senthilkumar

Mobile:

0-9500077055

IQAC e-mail address:

iqac@drmgrdu.ac.in

1.3 NAAC Track ID (For ex. MHC0GN 18879)

TNUNGN10128

1.4 NAAC Executive Committee No. & Date:

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

EC/41/98 dated 10-02-2007

1.5 Website address:

<http://www.drmgrdu.ac.in>

Web-link of the AQAR:

<http://www.drmgrdu.ac.in/naac>

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

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	B+	-	2007	5 years
2	2 <sup>nd</sup> Cycle				
3	3 <sup>rd</sup> Cycle				
4	4 <sup>th</sup> Cycle				

1.7 Date of Establishment of IQAC:

15-02-2007

## 1.8 AQAR for the year

2013-14

1.9 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 – 20-07-2008
- ii. AQAR- 20-08-2010
- iii. AQAR – 2013-14

## 1.10 Institutional Status

University                      State  Central  Deemed  Private

Affiliated College              Yes  No

Constituent College            Yes  No

Autonomous college of UGC    Yes  No

Regulatory Agency approved Institution    Yes  No

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution    Co-education                       Men                       Women

                                  Urban                       Rural                       Tribal

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

                                  Grant-in-aid + Self Financing                       Totally Self-financing

## 1.11 Type of Faculty/Programme

Arts     Science     Commerce     Law     PEI (Phys Edu)

TEI (Edu)     Engineering     Health Science     Management

Others (Specify)

1.12 Name of the Affiliating University (*for the Colleges*)

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

Autonomy by State/Central Govt. / University

University with Potential for Excellence

UGC-CPE

DST Star Scheme

UGC-CE

UGC-Special Assistance Programme

DST-FIST

UGC-Innovative PG programmes

Any other (*Specify*)

UGC-COP Programmes

## **2. IQAC Composition and Activities - 2013-2014**

2.1 No. of Teachers	08
2.2 No. of Administrative/Technical staff	14
2.3 No. of students	02
2.4 No. of Management representatives	01
2.5 No. of Alumni	02
2.6 No. of any other stakeholder and Community representatives	02
2.7 No. of Employers/ Industrialists	02
2.8 No. of other External Experts	02
2.9 Total No. of members	33
2.10 No. of IQAC meetings held	04

2.11 No. of meetings with various stakeholders: No.  Faculty   
Non-Teaching Staff  Students  Alumni  Others

2.12 Has IQAC received any funding from UGC during the year? Yes  No   
If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

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

Total Nos.  International  National  State  Institution Level

(ii) Themes

Vision 10MW was started to create energy awareness  
Soft skill improvement  
Preparing for the Corporate World

2.14 Significant Activities and contributions made by IQAC

- Innovations in teaching and learning process
- Avoiding large scale indiscipline and strikes of students with quick redressed of their grievances
- Advance Computing Science International Journal of Computational Intelligence (ACSIJCI) to bridge the research community and technology developers.
- Library reading hours increased to cultivate the habit of reading

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
To encourage the students to approach a topic at higher level of thinking.	Introduced Bloom level Taxonomy
To raise the curiosity of student in a particular topic - encourage the student the obvious and to increase the interaction in the class.	Learner centred activity established
To make the student to select the courses of their choice and help them to go beyond disciplinary studies.	CBCS system introduced

\* Attach the Academic Calendar of the year as Annexure.

2.16 Whether the AQAR was placed in statutory body    Yes     No   
Management     Syndicate     Any other body

Provide the details of the action taken : The Plan of Action by IQAC approved in the academic council have been implemented



**Part-B**  
**CRITERION – 1 to 7**  
**AQAR - 2013-14**

**Criterion – 1**

**1. Curricular Aspects**

1.1 Details about Academic Programmers

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	01		01	
PG	25		25	
UG	12		12	
PG Diploma				
Advanced Diploma				
Diploma				
Certificate				
Others				
Total	38		38	
Interdisciplinary				
Innovative				

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

(ii) Pattern of programmers:

Pattern	Number of programmes
Semester	34
Trimester	
Annual	04

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*

## Analysis of the feedback in the Annexure-II

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

YES, Salient aspects:

- Number of Lab credit has been increased so that more practical knowledge would be gained by the students. Stream based Electives are introduced in par with the Industry.
- Entrepreneurship development Course introduced to meet out the motto.
- Latest Technology oriented courses like Information storage management are introduced.
- Engineering Graphics syllabus modified with CAD inputs and BIS standards
- Disaster management and visual programming are included under elective
- Introduced new courses like BCA ,BCA(Animation & Multimedia)
- In Management studies Business Environment was introduced
- Industrial training examination shifted to VII semester enabling the students to undergo training at the end of VI semester (summer vacation period)
- Engineering Graphics syllabus modified with CAD inputs and BIS standards.

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

- Centre For Electronics Automation And Industrial Research (CEAIR)
- Oracle Work Force Development programme
- CENTRE OF EXCELLENCE FOR ADSERIN - Advanced Structural Engineering Research Institute
- Microsoft Edvantage Partner
- Centre of Excellence in cloud computing for disable Humanities in collaboration with NIEPMD, Govt of India, Chennai

## Criterion – II

### 2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
805	430	107	166	102

2.2 No. of permanent faculty with Ph.D.

132

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
18		01	01	01		08		28	01

2.4 No. of Guest and Visiting faculty and Temporary faculty

Guest Faculty	Visiting Faculty	Temporary Faculty
12	10	-

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	83	148	06
Presented papers	31	67	06
Resource Persons	20	20	8

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

One of the most important activities of the University is continuous assessment of the Learning practices.

There is a need to assess students' learning, so as to judge the standard of the present curriculum for its suitability. So in order to impart quality education, Innovative curriculum Development Cell (ICDC), consisting of experienced senior Faculty members, was formed.

#### Objectives of the Innovative Curriculum Development Cell (ICDC)

1. To continuously assess the present curriculum and syllabus for its suitability with reference to the technological changes that are taking place around us by conducting periodical meeting
2. Review of learning practices and to suggest practical based and knowledge based curriculum

#### Content Delivery Methods:

The Faculty members are trained by Mission 10X to deliver the course content effectively and we also involve the students to make models and then ask them to frame challenging questions and find answers there by the students improve their knowledge. In addition to this there are various other content delivery methods which are listed below.

- M1: Class room Lecture with discussions.
- M2: Practical oriented Teaching like Industrial Visit, laboratory etc.
- M3: Assignment
- M4: Presentation
- M5: Group Discussion
- M6: Classroom Quiz
- M7: Brainstorming

#### Learning Resources Sharing

The students are provide with various National & International educational websites of Electrical Engineering such as

- NPTEL <http://nptel.iitk.ac.in>
- Stanford Engineering Everywhere (SEE) <http://see.stanford.edu/>

Prime teaching model Topic RCS - Reciprocal Category System which involves the following process

- Informal introduction of the topic
- Accepting ideas of students,
- Amplifying the ideas by questions, comments and contributions from other students,
- Eliciting questions from the students,

- Responding with answers,
- Providing theoretical information and expert opinions on the topic,
- Giving assignments on the topic,
- Correcting the response
- Motivating for improvement

Other complimentary techniques

- Role plays
- Debates
- Group discussion
- Group work
- Pair work
- Individual work
- Drama as a teaching technique
- Extempore speeches on current affairs
- Simulated experience on presentation, public speaking, organizing meetings etc

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

180
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2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy and Online Multiple Choice Questions)

- Multi media learning process
- mind mapping,
- simulation,
- MNEMONICS,
- E-Learning

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

Curriculum Restructuring	Revision	Members of Board of Study
131	80	209(Internal and External)

2.10 Average percentage of attendance of students

75%
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2.11 Course / Programme wise distribution of pass percentage:

Faculty E&T	Title of the Programme	Total no. of students appeared	Division					
			Distinction %	I %	II %	III %	Pass %	
CSE	UG	69	18	82	-	-	72.46	
	PG	CSE	26	48	52	-	-	96.15
		CSN	5	60	40	-	-	100
		ISCF	8	75	25	-	-	100
IT	UG	18	-	100	-	-	77.77	
E & I	UG	33	4.34	95.65	-	-	69.69	
ECE	UG	183	13.86	86.13	-	-	74.86	
	PG	AE	5	25	75	-	-	80
		COM.SY S	2	50	50	-	-	100
		VLSI	10	66.66	33.33	-	-	60
EEE	UG	224	12.28	87.71	-	-	76.33	
	PG	PED	3	33.33	66.66	-	-	100
		POWER SYS	4	50	50	-	-	50
MECH	UG	515	12.69	87.30	-	-	73.39	
	PG	DE	1	-	100	-	-	100
		EE	2	50	50	-	-	100
CIVIL	UG	205	9.09	90.90	-	-	69.75	
	PG	CONST.E NGG &MGT	5	80	20	-	-	100
		ENV	3	33.33	66.66	-	-	100
		STRUC.E NGG	2	100	-	-	-	100
BT	UG	28	28.57	71.42	-	-	75	
	PG	IBT	5	25	75	-	-	80
		MBT	5	80	20	-	-	100
CHEM	UG	19	-	100	-	-	63.15	
	PG	3	-	-	-	-	0	
HMCT	UG	31--	11.11	74.04	14.81	-	87.09	
	DIPLOMA	10	-	100	-	-	70	
DENTAL	UG	70	-	-	-	-	98.57	
	PG	14	-	-	-	-	100	
BPT	UG	22	-	-	-	-	100	
BPT	UG	2	-	-	-	-	100	

	PG	4	-	-	-	-	100
MBA	PG	114	18.36	80.61		-	85.96
MCA	PG	47	31.57	68.42	-	-	80.85
ARCH	PG	4	-	-	-	-	100

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

- Assessing the quality parameters of higher education by alumni survey and academic experts.
- IQAC helps in maintaining a good quality in teaching and learning process.
- If there is inadequacy in teaching and learning process, IQAC monitors the same and helps in maintaining the quality and improving the same.
- The continuous assessment tests makes manifest the academic improvement of these students through close monitoring and special coaching.
- Slow learners are identified and extra coaching given after college hours. They are permitted to write pre-exam before they take on their semester exams. It has been observed that by being flexible in teaching and close monitoring, the students gain confidence and improve academically.
- Fluency development programs and extra coaching in difficult subjects helps them to improve considerably.

### 2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	53
UGC – Faculty Improvement Programme	13
HRD programmes	05
Orientation programmes	105
Faculty exchange programme	50
Staff training conducted by the university	50
Staff training conducted by other institutions	19
Summer / Winter schools, Workshops, etc.	155
Others	10

#### 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	76	-	02	02
Technical Staff	450	-	06	08



### **Criterion – 3**

### **3. Research, Consultancy and Extension**

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

- The IQAC of the institution encourages the staff members to undertake major and minor research projects
- Staff are encouraged to publish research based papers and pursue doctoral programmes.
- IQAC cell conducts regular meeting to motivate the faculties in research.
- IQAC suggested to create new centre of excellences for various domains.

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	1	2	2	-
Outlay in Rs. Lakhs	40000	25.4Lakhs	25.4Lakhs	-

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	40	40	-
Outlay in Rs. Lakhs	-	-	400000	-

#### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	1235	75	200
Non-Peer Review Journals	910	125	-
e-Journals	1235	75	-
Conference proceedings	1120	250	25

#### 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 organizations.

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	2013-14	DBT	33.1Lakhs	33.1Lakhs
Minor Projects	-			
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College				
Students research projects <i>(other than compulsory by the University)</i>				
Any other(Specify)				
<b>Total</b>	<b>2013-14</b>	<b>DBT</b>	<b>33.1Lakhs</b>	<b>33.1Lakhs</b>

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

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

Rs. 5243125

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	04	19			1
Sponsoring agencies		NCICT15- CSI, ICI, FSO, POTHYS, SAI INTERIORS, ROYAL SPLENDORS, PPTT SELF NIEPMD, GOVT OF INDIA		01	

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

13

3.13 No. of collaborations

International

06

National

39

Any other

45

3.14 No. of linkages created during this year

02

3.15 Total budget for research for current year in lakhs :

From Funding agency

11.03lakhs

From Management of University/College

400 lakhs

Total

411.03lakh

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	01
	Granted	-
International	Applied	-
	Granted	-
Commercialised	Applied	-
	Granted	-

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

Total	International	National	State	University	Dist	College
101	17	08		76	-	-

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

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

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

JRF       SRF       Project Fellows       Any other

3.21 No. of students Participated in NSS events:

University level       State level   
 National level       International level

3.22 No. Of students participated in NCC events:

University level       State level   
 National level       International level

3.23 No. Of Awards won in NSS:

University level  State level   
National level  International level

3.24 No. of Awards won in NCC

University level  State level   
National level  International level

3.25 No. of Extension activities organized

University forum  College forum   
NCC  NSS  Any other

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

- Teachers day celebration
- Thirukkural Week
- Clean Chennai
- Excel Training Program for Non-teaching Educational Guidance
- Computer and Internet literacy program for university Bus Drivers
- Blood Donation Camp
- Dental Camp
- Tree Plantation
- Energy Conservation and Energy Audit
- Road Safety Management
- Awareness Programmes in remote villages, Literacy Programmes
- Health awareness Programmes conducted in the Hospital by students.

## **Criterion – 4**

### **4. Infrastructure and Learning Resources**

#### 4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	48,139sq.mt	-	Management	48,139sq.mt
Class rooms	173	07	Management	16,933Sq.Mt
Laboratories	120	04	Management	20,108 Sq.Mt
Seminar Halls	07	01	Management	8,669 Sq.Mt
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.	Rs 38,75,000	-	Management	Rs 38,75,000
Value of the equipment purchased during the year (Rs. in Lakhs)	Rs 250000	Rs 50000	Management	Rs 30,00,000
Others(Canteen-Mess-Gym-Student Common Room-Library -Hostel Etc)	52,450Sq Mt		Management	52,450Sq Mt

#### 4.2 Computerization of administration and library

- Various department libraries are computerized and automated.
- Test marks of students computerised
- Library, Office are well equipped with Computers with Internet Facility
- Research Candidates, Students and Faculties provided with grid computing facility
- Paper less documentation through e-mails and e-books are provided for the students

#### 4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	36010	7025417	299	224318	36309	7249735
Reference Books	12350	7410000	88	52800	12438	7462800
e-Books						
Journals	111	810517	10	118346	121	928863
e-Journals	111	810517	10	118346	121	928863
Digital Database						
CD & Video	700				700	
Others (specify)						

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1109	111	46 Mbps	22	01	23	18	-
Added	100	2	-	02	0	0	0	
Total	1209	113	1	24	01	23	18	-

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

- LabVIEW/MEMS/Pspice/Modern Tool usage
- PSCAD Training
- Advanced AutoCAD Program training
- Google apps, NIC E-GOVERNANCE, workshop conducted
- Computer/ Internet access is available at campus.
- Internet access is provided to the students from 8.00 am to 8.00 pm in the library.
- IDS Software training for catering students.

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

i) ICT	198.48
ii) Campus Infrastructure and facilities	717.94
iii) Equipments	62.22
iv) Others	98.88
<b>Total:</b>	<b>1077.52</b>

## Criterion – 5

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- A comprehensive counselling program is an integral component of academic mission. IQAC focuses on academic, career, and social/emotional curriculum that is delivered through classroom, small group, and individual consultation.
- IQAC arranges the feedback response from the students which ensures internalization of the quality culture.
- IQAC provides helps to conduct technology improvement and Placement guidance
- Students supports services were designed better under the IQAC
- Skill development Program (Spoken English, Computer literacy, etc.)

#### 1.2 Efforts made by the institution for tracking the progression

- Evaluation of students by chefs and other professionals from the hospitality industry during end semester practical exams.
- Regular feedback from student
- Faculty involvement through counseling system.
- Various committees are activated for monitoring of progress.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
1557	172	34	-

(b) No. of students outside the state 1547

(c) No. of international students 13

No	%	Men	No	%	Women
1338	75.9		425	24.1	

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
<b>560</b>	<b>155</b>	<b>30</b>	<b>865</b>	06	1616	488	159	41	1069	06	1763



Demand ratio

Dropout % 0.98

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

- Employability and higher studies Seminars are arranged
- Internship in the final year for the eligible students
- Seminar conducted for GATE exam
- Special training for the placemen
- Soft skill programs classes arranged.
- GRE, TOFEL, IELTS. Coaching classes arranged.

No. of students beneficiaries

593

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

NET	-	SET/SLET	-	GATE	21	CAT	02
IAS/IPS etc	--	State PSC	-	UPSC	-	Others	40

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

- Counselling as well as discussion takes place in the HOD office, Dean Office or with the individual faculty in their respective cabins.
- In case of discussion with a huge number of students, it is done in classrooms or in the NI LABVIEW academy.
- Smart classroom is available to conduct seminars, project presentations, workshop with hands on training and class committee meetings.
- Some of the staff rooms are provided with white boards to clarify the students doubts.
- The class coordinators and mentors counsel the students individually during lunch hour.
- The students are nurtured for research projects.

No. of students benefitted

1326

### 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
58	700	639	34

### 5.8 Details of gender sensitization programmes

- Engineering has no gender bias in today scenario.
- Workshop conducted for female students about medical awareness
- A programme on Women empowerment and awarding women achievers program conducted.
- Medical camp for women

## 5.9 Students Activities

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

State/ University level  National level  International level

No. of students participated in cultural events

State/ University level  National level  International level

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

Sports: State/ University level  National level  International level

Cultural: State/ University level  National level  International level

## 5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	202	Rs 31496800
Financial support from government	250	Rs.2343940
Financial support from other sources	-	-
Number of students who received International/ National recognitions	-	-

## 5.11 Student organized / initiatives

Fairs	: State/ University level	<input type="text" value="1"/>	National level	<input type="text" value="-"/>	International level	<input type="text" value="-"/>
Exhibition:	State/ University level	<input type="text" value="3"/>	National level	<input type="text" value="1"/>	International level	<input type="text" value="-"/>

5.12 No. of social initiatives undertaken by the students

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

- There are a number of redressal mechanisms and bodies for look at complaints,
- Administrative issues –Vice Chancellor and Registrar
- Examination issues –Controller of Examination.
- Transport issues –Transport incharge
- Faculties – Heads, Deans, Dean E&T, Deputy Registrars, and Registrar
- Committees related to functional areas
- Students' issues – Class in charges /Head of the Department
- Ragging –Chief Administrative Officer /Head of the Department

Through Class Committees students offer feedback/suggestions about academics, infrastructure and any issues related to syllabus, internal assessments, basic facilities, teaching methods etc. Individual feedback on faculty is also collected from the students to improve the teaching –learning process. This feedback is communicated to faculty members by the Head of

Department and counseling done accordingly. Through Mentor- Mentee process also faculty collect feedback from the students.

## **Criterion – 6**

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

6.1 State the Vision and Mission of the institution.

#### **OUR VISION**

To provide for Contemporary Knowledge Delivery of Global Standards, excellence in Knowledge creation in Emerging Areas and Mutually Rewarding University -Societal Interaction

#### ***OUR MISSION***

Our Mission is to make the Institution as a Resource Centre for Higher Level Teaching . Learning Process, in the fields of Engineering, Dental Surgery, Medicine, Allied Health Sciences, Humanities & Sciences, Architecture, Management & Education, so as to impart relevant training and education to the youth to make them technically qualified, practically competent and skilled human resources, to suit the needs and demands of the modern industries, business or research and development organizations, besides promoting ethical values and encouraging creative ideas among the younger generation and thereby to develop their entrepreneurial skills which will ultimately benefit the Society and Nation. ***"Our Students are to be Job Creators and not Job Seekers"***

#### ***OUR QUALITY POLICY***

We strive to make our University as a Centre of Excellence for Quality Education and Research in the fields of Engineering and Technology, Dentistry, Medicine & Allied Health Sciences, Architecture, Science & Humanities. We aim to impart technological competence and inculcate dignity, discipline and humaneness to all our students.

To promote the mission of the University we provide quality education, training, research and consultancy, so as to enhance employability and entrepreneurial skills of its students. Effective interface with industry and other institutions within and outside the country is the cornerstone of the approach. We intend to provide and develop the capabilities of the students by raising their level of competence and intellect to face various challenges in the global environment. Through research oriented continuous quality education in convergence with knowledge, skills and values we try to empower students to meet global standards in entrepreneurship. We strive to develop citizens with knowledge, skill and character leading to entrepreneurship development, economic transformation and National development.

The Mission statement is duly propagated through display boards as well as information brochures for awareness of the various stakeholders and to serve as reminder to students and employees of the University. With the unique pedagogy of teaching, a blend of creativity and analytical problem-solving skills, the focus of all programs is to develop holistic human beings who internalize a synthesis of conventional and modern scientific, management, and entrepreneurial thinking and who can comfortably adapt to changing business requirements

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

- Yes. Our University departments are equipped with a cloud service for information management. General practice is to use automated system where ever possible.
- The Vice Chancellor has taken keen interest in developing MIS for the academic administration of the University which takes care of all the activities right from admission/ registration to the declaration of results. The Vice Chancellor personally monitors the status of activities through this web based MIS and issue necessary instructions to the Heads of the Departments and concerned officers.

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

### **6.3.1 Curriculum Development**

The curriculum has been designed keeping in mind the need of the ever growing and expanding industry. Therefore the syllabus is designed taking into consideration

- Inputs from industry
- advice from experts
- experiences of the past
- latest trends in the industry

The syllabus is drafted by faculty members combined with experts in the industry and benchmarking the best institutions across the world.

The curriculum undergoes a constant change as and when the need arises, such as latest trends in the industry, removing obsolete programs and meeting ever growing challenges in the industry.

The department follows the guidelines of the UGC for developing and restructuring the curriculum. The Board of Studies meets twice a year to update the syllabus according to the needs of the industry.

The department is in constant touch with the experts in the field whose inputs shape the contents of the syllabus. The syllabus has been circulated to various leading training and HR managers, F&B managers and Chefs who have revised and supported the change

### **6.3.2 Teaching and Learning**

The University strategizes to achieve excellence in teaching and learning by adopting the best practices such as convergent and divergent techniques being followed by the University to suit local needs. It continuously updates its curricula and reinvents pedagogic methods to suit the need of the students. We have Student feedback, Alumni interaction, Industry interaction and feedback on syllabi during guest lectures, IVs, project internships, Seminars, Conferences etc., Class Committee Meetings, Board of Studies and Academic Council to deliberate on matters related to academics. All this feedback and meetings are well documented.

### **6.3.3 Examination and Evaluation**

The University has put several mechanisms in place to ensure that the examination system is foolproof. A Manual has been prepared for this purpose which defines the roles and responsibilities of all the stakeholders, protocols and procedures to be followed, and steps to be taken at all levels in the conduct of the examinations. All the Forms / Proformae being used in the examination process has been drawn out meticulously in standardized formats.

Measures to curb malpractices have also been listed together with the penalty and punishment. Answer sheets with Bar code and OMR based cover page has helped in transferring data to computers besides eliminating manual data entry operation. Random Dummy Numbers are generated for the answer scripts before being sent for valuation, to ensure absolute confidentiality.

The University Examinations, both for UG and PG courses, have equal Internal and External components. Central Valuation system is carried out for completing the valuation work quickly and publishing the results early.

### **6.3.4 Research and Development**

The faculty members are encouraged to publish Research papers in SCOPUS rated Journals by giving financial assistance. Faculty members are granted concession in Research Fees when they register for Ph.D. Degree, given incentives to participate and present papers in seminars and conferences. Interdisciplinary Research involving, Biotechnology, Pharmaceutical Chemistry,

Biochemistry and Veterinary Science. Mathematics and Computer Science have been carried out. The University checks plagiarism in Thesis and Three Thesis have been rejected for plagiarism.

The faculty has established a research committee, ethics committee to cater to the needs of ethics in research. The University carries out multi disciplinary and inter disciplinary projects among various departments and universities.

The institution facilitates its faculty to undertake research by providing research funds. All the departments have laboratory equipment, research journals and research incentives made available to the faculty. The University promotes a research culture by providing teaching work load remission and opportunities for attending conferences. The University has drafted a policy, procedure, and practice in key areas for research performance monitoring. Ten workshops and five conferences are conducted every year. Workshops on research methodology sensitization programs have been conducted by the institution to promote a research culture on campus. The University has introduced research fellowships and Senior Scientist positions for doing Research. The Faculty is granted leave to pursue Research in other advanced centers also. The University has also received support from industry for some drug discovery research

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

Departments have taken initiative to establish Centre of Excellence in the upcoming domains. Very recently a budget for Rs.3 crores has been granted to augment the infrastructure. Faculties are encouraged to participate in workshops, seminars and conferences to update their knowledge. Experts from industries are invited to conduct Faculty Improvement Programs through Academic Staff College. Various MOU.s have been signed with leading industries. All the stake holders are connected through the Cloud-based University Information Management System. This facility is for research activities. A

separate digital library is available where International journals such as IEEE, IET, Elsevier, ASME, ASCE, and Science Direct are available. E-books from McGraw Hill have been subscribed. NPTEL on line course material is also available. Residential facilities are available with internet facility for Research Scholars. Specialized Research Centre, C-DAC, GARUDA, Grid, Super Computing Connectivity is available in our University – *High Performance Computing Facility*: HPC is a key component in many applications: designing vehicles and airplanes; designing high-rise buildings and bridges; discovery of drugs; discovery and extraction of new energy sources like oil and natural gas; weather forecasting; and many more.

#### **6.3.6 Human Resource Management**

Response to the needs of the Community: We train the students to handle socially relevant projects which benefits user community in terms of developing methodology to repair and rehabilitate distressed structures and buildings of the community as it has become a wide spread problem faced by the community. Further, the students are trained to address the problem & caused by the natural calamities such as Tsunamis, Cyclones, Earthquakes, etc.

Extension and awareness programmes: At present the developmental and industrial activities in and around the city is causing much degradation to the environment in terms of air pollution, water pollution and noise pollution. In order to ameliorate the situation and create awareness among the public organization of camps in the locality has been contemplated with the participation of the students.

Diversity and Flexibility of Curriculum, Credit based curriculum, Tutorials, Special classes for weak students.

Redesign Courses (relevant to regional and national needs), Courses designed are approved by the Board of Studies and later by Academic council.

### **6.3.7 Faculty and Staff recruitment**

The candidates are selected for appointment based on their merit and passion for this teaching profession.

Based on the rules and regulations and directions given by the Government and UGC, the recruitment of the faculty and non-teaching staff is followed strictly.

A minimum of 3 Architects/ Academicians and 3 management will be present during recruitment

Faculty and staff recruitment are Centralized.

Based on the rules and regulations and directions given by the Government and UGC, the recruitment of the faculty and non-teaching staff is followed strictly

### **6.3.8 Industry Interaction / Collaboration**

- Encouraging engineers and management experts from industry to visit our Institution to deliver lectures.
- Participation of experts from industry in curriculum development.
- Arranging visits of staff members to various industry
- Professional consultancy by the faculty to industries.
- Human resource development programs by the faculty for practising engineers and management



- Collaborative degree programs. B.Tech. MBA/MCA and M.Tech. Projects / dissertation work in industries under joint guidance of the faculty and experts from industry.
- Short-term assignment to faculty members in industries.
- Visiting faculty/Professors from industries.
- Scholarships/fellowships instituted by industries at the Institute for students.
- Practical training of students in industries.
- Industrial testing by faculty & technicians at site or in laboratory.
- Joint research programs and field studies by faculty and people from industries.
- Visits of faculty to industry for study and discussions or delivering lectures on subjects of mutual interest.
- Visits of industry executives and practising engineers to the Institute for seeing research work in laboratories, discussions and delivering lectures on industrial practices, trends and experiences. Memoranda of Understanding between the Institute and industries to bring the two sides emotionally and strategically closer.

### 6.3.9 Admission of Students

- Students are admitted through common Entrance Examination.
- Lateral entry admission in 2<sup>nd</sup> Year B.Tech for Diploma Students
- Common Entrance Exam and oral Presentation for Ph.D Admission.
- Entrance exam is conducted, eligibility Criteria for PG Students is any UG course with maths

### 6.4 Welfare schemes for

Teaching	<ul style="list-style-type: none"> <li>➤ Group Insurance</li> <li>➤ Free Medical Consultancy</li> </ul>
Non teaching	PF, Health Insurance Free Medical Consultancy
Students	Transport facility Health Insurance

### 6.5 Total corpus fund generated

5 crore

### 6.6 Whether annual financial audit has been done



Yes



No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	ISO	Yes	Dept Wise

				Audit
Administrative	Yes	ISO	Yes	Management Audit

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

For UG Programme      Yes          No   

For PG Programme      Yes          No   

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

This Office has the facilities for central valuation, Store room, Computers, Database Server and Printing/Photocopying facilities within it. Relative grading is introduced to remove the variations in valuations. Exam time table, seating arrangement are computerized.

Learning evaluation is done with two continuous assessment tests, model exam following by term end semester exams. The questions are framed as per Blooms Taxonomy levels and are mapped with the course outcomes. The evaluation process is transparent where answer scripts of CAT and model exam and assignment are returned back to the students paving way for improvement.

Measures to curb malpractices have also been listed together with the penalty and punishment. Answer sheets with Bar code and OMR based cover page has helped in transferring data to computers besides eliminating manual data entry operation. Random Dummy Numbers are generated for the answer scripts before being sent for valuation, to ensure absolute confidentiality.

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

- Organizing Guest Lectures
- Deciding on the conduct of short term/augmentation courses for students, like, CCNA,
- Decide on Seminars, Workshops and Conferences both National & International
- Modifying the syllabi being a member of the Board of Studies

- Members of various committees like the Board of Management, Academic Council, Boards of Studies, etc.
- Member of Student Disciplinary Committees, Anti Ragging, Sexual Harassment Committees
- Departmental stock verification
- DB2, DOTNET, Microsoft Programs, Lab view programs and any other Industry centric training programs etc

#### **6.10 Activities and support from the Alumni Association**

Alumni are considered as stakeholders and their feedback is used for curriculum improvement and teaching learning process. Alumni play a major role in giving practical tips to the current students by which our students will be motivated to choose their career accordingly.

Alumni from IGCAR supporting for training students based on nuclear research programmes

#### **6.12 Activities and support from the Parent – Teacher Association**

The University has Class Committees in all departments. These Class Committees have students and staff as members and they meet thrice in a Semester for obtaining feedback and deliberating on all aspects related to academic and non-academic affairs, infrastructure, grievances, and improvement. All issues are discussed at length and the minutes of the meetings scrupulously filed. Introduction of value added courses, up-gradation and modification of curriculum, changes in teaching pedagogy, infrastructure related changes, all have been initiated after interacting with students, alumni, industry and other academicians.

Industry feedback helps to improve our shortcomings. Many recruiters visit our campus during campus placement. Based on the feedbacks received, special training is given to all the students to improve their hardcore skills, soft skills and leadership skills. There is a significant improvement in number of companies visiting the campus. Alumni feedback received during Alumni Meet and on other occasions, helps us to improve working knowledge about companies and identifying areas for skill development. Alumni mentor our students to give an update about industry and help the students getting internships and placement.

#### **6.13 Development programmer for support staff**

Training has been conducted for non-teaching staff to provide opportunities for updating their professional skills in departments such as IT, Library, and Administration

(including training on software, document writing, etc.). The Academic Staff College conducts periodical training programs for staff.

A number of MoUs have been signed with Government and other industries in order to facilitate faculty exchanges. Faculty members are given on-duty for various professional development programs and encouraged to go for consulting assignments and higher studies.

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

This is because our University has taken all steps to make the environment look green and natural. Our University is well gardened and is maintained with adequate plants and trees. Students in the campus will never feel that they are in some cement structures, rather they feel the greeneries and it contributes towards a good learning environment.

The University has adopted various measures to maintain the greeneries of the campus and it has been observed that it creates a positive impact on the beholder and helps in developing an environment-friendly attitude amongst everyone. The University conducts a Green Audit of its campus and facilities.

## **Criterion – 7**

### **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.

- Enhanced Log Book for theory and lab provided.
  - Regular class committee meeting.
  - Suggestion Box provided.
  - Industrial visits
  - Augmentation Programmes and courses.
  - Incubation centre supported by MSME
  - Encouragement & support the students for appearing and doing well in competitive exams like GATE, GRE, GMAT, CAT etc. for higher studies
  - Financial rewards for University rank holders and class toppers in the institute
  - Frequent annual project contests and competitions at University level to encourage the students
- The University has adopted new teaching methods to make learning easier Micro teaching with Audio Visual Aids

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

The University has anti-ragging Committee. The Committee consists of faculty and Students from different departments to prevent and register cases of ragging in University headed by a senior professor by close monitoring and intensive surveillance of the campus, class rooms, buses, hostel & cafeteria by the anti- ragging committee, instances of ragging have been prevented before they took place. Further, anti-ragging Squads are also constituted at department level, to monitor day to day tendency. Anti-Ragging undertaking form will be filled up by the parents and the students at the time of admission in the University.

Women protection cell which will look after the concerns of women faculty and students. The Cell will interact with women student representatives frequently to identify any of sexual harassment incidents that may occur. Until now there were no such incidents that were needed to be handled. If any such minor incidents are identified by the Cell, then there will be disciplinary action against the offenders who violated the decency. The Women protection Cell deals such cases very confidentially to preserve the self-respect of women students.

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

The various levels of students at the economical, intellectual level and disturbing family background create psychological problems for some students. The objective of this practice is to help students to identify, analyze and overcome their problem through professional counseling so that the students successfully complete the course and get placed.

Provision is made for every student to meet the clinical psychologist during the working hours and in crisis situations on referral by faculty members even after working hours. Informed consent is taken from all the students before the commencement of counselling session.

Students who have had counselling have undergone transformation in their attitude and have been instilled with a sense of psychological well-being

### **7.4 Contribution to environmental awareness / protection**

The University has installed solar panels in the ACS Medical College and in some campuses. University also has installed wind mills in two places of our main campus, and through that we are in a position to tap the wind energy to some extent. Our students designed and fabricated a solar power operated digital display board. Various activities highlighting the importance of Renewable Energy had been conducted like Conferences, Seminars, Research works leading to energy conservation, bio-diesel as fuel for engines to reduce emission.

Rain water harvesting system is completely installed in the University and Hostel campus. Soak pits are provided in all buildings of the University /Hostels. University practices waste water management system effectively, to keep the campus clean, hygienic and free from any sort of pollution. Every building in the campus is surrounded by trees and lawns. Different plants and trees decorate the campus and the campus looks beautiful.

Soak pits are built separately for discharging waste water from Chemistry and Biotech laboratories. Water based chemical reactions are carried out minimizing hazardous solvent chemical usage. Polythene bags and other non-decomposable are separated and sold to vendors before disposing the organic wastes. Waste and effluent water from college as well as hostel is treated and treated water is used for gardening. To create awareness among the public, our Prime Minister's pet project —Swachh Bharat had been initiated and our University students were involved in cleaning The Central Railway Station, Chennai to create awareness amongst the public.

The University is on a five-year cycle of changing computers with many of the newer ones entering the general computer laboratories and power users about every two or three years. The older computers are removed and reused in and other administrative offices. Sometime computers, printers and other equipments are donated to charitable organizations, if they are in good working condition. The computers that are out of commission are cannibalized for parts and then finally the ones left over are put up for sale by the Purchase Office. A future audit will explore the purchases for academics to see how much thought was given into buying recycled or sustainable equipment and supplies from eco-friendly companies.

#### 7.5 Whether environmental audit was conducted?

Yes  No

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

- Faculty retention rate is almost 100%.
- . Innovative curriculum and course programmes
- Centre of excellences and augmentation courses supported by industry State of Art Technology and infrastructure
- United Team Of Smart Working Faculty
- A team of committed, hardworking and skillful teaching and non-teaching faculty.
- Projects are Industry oriented.
- Projects based on renewable energy (Solution for Energy Crisis).
- Research activities - Publications by Students and Faculty.
- Projects connected with publication.
- Students are encouraged to do real time projects.

- Apart from Syllabus - advanced topics are taught.
- Motivation awards.

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

- Faculty exchange programs are in pipeline.
- International projects to be applied.
- funded Research Projects
- Students exchange program.
- Patents
- Entry in International Project competition.
  
- Experienced, dedicated and committed staff who provide not only in-depth theoretical knowledge but also practical knowledge which is imperative for this industry.
  
- Good curriculum with choice of 11 specializations
- Better internships for students, more corporate projects, soft skills training to be made more effective so as to improve communication skills, and improvement in placement performance
- More of funded research and publication in top level journals
- More linkage with industry required
- Syllabus modification as per the current industry requirements
- Industry – Academia interface: MOUs, IVs, Seminars, Conferences, Board of Studies, Guest Lectures, Projects & Internships

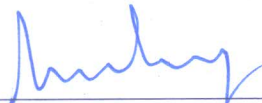


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Name



Signature of the Coordinator, IQAC

Name

Dr. K. Meera Prustaja Hussain



Signature of the Chairperson, IQAC