

Annual Quality Assurance Report (AQAR) (2013-14)



**Submitted to
National Assessment and Accreditation Council
Bangalore, India**

**IMS Engineering College, Ghaziabad
P.O. Adhyatmik Nagar, Ghaziabad. -201009
(Affiliated to Uttar Pradesh Technical University, Lucknow, U.P.)**

The Annual Quality Assurance Report (AQAR) of the IQAC

Part – A

1. Details of the Institution

1.1 Name of the Institution

IMS Engineering College

1.2 Address Line 1

NH-24, Adhyatmik Nagar

Address Line 2

Ghaziabad

City/Town

Ghaziabad

State

Uttar Pradesh

Pin Code

201009

Institution e-mail address

director@imsec.ac.in

Contact Nos.

0120-3013800

Name of the Head of the Institution:

Prof. (Dr.) S. P. Pandey

Tel. No. with STD Code:

01203013802

Mobile:

9810809229

Name of the IQAC Co-ordinator:

Mobile:

IQAC e-mail address:

1.3 NAAC Track ID (For ex. MHC0GN 18879)

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)

1.5 Website address:

Web-link of the AQAR:

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	B	2.80	2009	5

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

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

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 _____(DD/MM/YYYY)4
- ii. AQAR _____(DD/MM/YYYY)
- iii. AQAR _____(18/09/2012)
- iv. AQAR _____ (05/09/2013)
- v.

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*)

U.P. Technical University,
Lucknow

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

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

2.1 No. of Teachers

2.2 No. of Administrative/Technical staff

2.3 No. of students

2.4 No. of Management representatives

2.5 No. of Alumni

2.6 No. of any other stakeholder and
community representatives

2.7 No. of Employers/ Industrialists

2.8 No. of other External Experts

2.9 Total No. of members

2.10 No. of IQAC meetings held

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

Best Practices for Institutional development from Private Technical Institutions Perspective by Dr. Avichal Raj Kapur, Former Director AICTE, CEO & Director (Quality Assurance) Meghe Group of Institutions, Nagpur

2.14 Significant Activities and contributions made by IQAC

Regular Interaction with class representatives and class coordinators of each and every department for maintaining and sustaining quality education as directed by IQAC

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Plan of Action	Achievements
1) Motivate the faculties for the submission of research proposal funding agencies	No. of research proposal are submitted to AICTE for financial assistance in this session (2013-14) - 07
2) Encourage faculties to apply and Organize workshops/seminars/conferences in national and international levels	No. of workshops/seminars/conferences in national and international levels organized International -01 National – 02 Workshops – 02 FDP/camps -08 FDP proposal Submitted -02
3) Increase the students placement Activities	Total no. of placement - 313
4) Create awareness among students about Entrepreneurship through Entrepreneurship development Programmes	Organizes a Entrepreneurship awareness camp to the students funded under DST-NIMAT project from EDI, Ahamdabad

* Attach the Academic Calendar of the year as Annexure.

2.15 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body (IQAC Cell)

Provide the details of the action taken

After careful investigation of AQAR, the IQAC advised to rectify all the shortcomings in the forthcoming academic year.

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	01	N.A.	ALL	N.A.
PG	03			
UG	06			
PG Diploma	-			
Advanced Diploma	-			
Diploma	-			
Certificate	-			
Others	-			
Total	10			
Interdisciplinary				
Innovative				

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options – As per the University circular.
 (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	UG – 06, PG - 03
Trimester	-
Annual	-

- 1.3 Feedback from stakeholders* Alumni Parents Employers Students
 (*On all aspects*)

Mode of feedback : Online Manual Co-operating schools (for PEI)

**Please provide an analysis of the feedback in the Annexure*

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

AS PER THE UNIVERSITY NORMS

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

CIVIL ENGINEERING DEPARTMENT

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	214	185	18	11	--

2.2 No. of permanent faculty with Ph.D. 34

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
	41		5		5		5		56	

2.4 No. of Guest and Visiting faculty and Temporary faculty -- -- --

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	48	39	24
Presented papers	50	7	0
Resource Persons	1	2	0

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

- i. Continuous evaluation methods followed with the use of IT gazettes during teaching and learning.
- ii. Use of interactive leaning and problem solving methodologies.
- iii. Use of e-learning resources.
- iv. Creation of learning environment in classes which induces critical thinking, creativity and scientific temper.
- v. Project and field experiences are compulsory part of courses.
- vi. Recognition to innovative and creative contributions of faculty and students.
- vii. Sharing the experiences of experts in the form of guest lecture and practical demonstrations.

2.7 Total No. of actual teaching days during this academic year 145

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

i. Class Test has been conducted for each subject by subject teacher
 ii. All Internal Assessment Tests have been conducted as per University Question Pattern

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

04

- 2.10 Average percentage of attendance of students

Above - 75%

- 2.11 Course/Programme wise distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
1ST Year						
B.TECH-CS	166	15	90	51		93.98
B.TECH-EC	128	14	83	25		95.31
B.TECH-ME	181	30	92	38		88.4
B.TECH-EN	130	7	64	52		94.62
B.TECH-IT	34	3	18	11		94.12
B.TECH-BT	50	5	19	17		82
MBA	45	3	30	12		100
2ND Year		Distinction %	I %	II %	III %	Pass %
B.TECH-CS	179	12	96	67		97.77
B.TECH-EC	175	9	111	51		97.71
B.TECH-ME	199	12	102	75		94.97
B.TECH-EN	157	9	90	56		98.73
B.TECH-IT	53	3	35	14		98.11
B.TECH-BT	54	9	41	4		100
MBA	53	1	35	17		100
MCA	52	11	38	3		100
3RD Year		Distinction %	I %	II %	III %	Pass %
B.TECH-CS	184	37	121	24		98.91
B.TECH-EC	180	27	123	27		98.33
B.TECH-ME	188	22	141	25		100
B.TECH-EN	118	19	80	16		97.46
B.TECH-IT	50	7	41	2		100
B.TECH-BT	50	13	31	6		100
4TH Year		Distinction %	I %	II %	III %	Pass %

B.TECH-CS	172	34	100	37		99.42
B.TECH-EC	120	14	90	15		99.17
B.TECH-ME	64	10	44	9		98.44
B.TECH-EN	58	15	33	10		100
B.TECH-IT	48	11	35	2		100
B.TECH-BT	55	22	31	2		100

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

- i. Dean Academic conducted regular follow up meeting with HODs and Class/semester Coordinator for timely and proper completion of teaching and other academic work.
- ii. Regular feedback is taken from the students in CR meetings regarding the progress of syllabus & any other problems of students and is rectified.
- ii. Improvement in teaching and learning processes are monitored by academic committee.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	--
UGC – Faculty Improvement Programme	--
HRD programmes	--
Orientation programmes	02
Faculty exchange programme	--
Staff training conducted by the university	01
Staff training conducted by other institutions	--
Summer / Winter schools, Workshops, etc.	02
Others (FDP/Awareness camp etc)	08

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	53	--	10	
Technical Staff	40	--	9	

Criterion – III

3. Research, Consultancy and Extension

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

- i. Faculties are encouraged by providing weightage in appraisal system for research papers publications in Journals
- ii. Faculties are encouraged to submit research projects to various funding agencies like AICTE, DBT, DST, etc.
- iii. Addressing various research schemes through Research and Development Section
- iv. Persuading to make provision of seed funding to activities like conferences, seminars, workshops, FDP, etc.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	--	--	--	7
Outlay in Rs. Lakhs				98.22 Lakhs (Approx)

3.3 Details regarding minor projects

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

3.4 Details on research publications

	International	National	Others
Peer Review Journals	51	3	-
Non-Peer Review Journals	19	-	-
e-Journals	-	-	-
Conference proceedings	25	5	-

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

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

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	--	--	--	--
Minor Projects	--	--	--	--
Interdisciplinary Projects	--	--	--	--
Industry sponsored (for training)	Feb, 14	Multisoft Pvt. & HCL Learning Pvt. (CS & IT Dept.)	30800*2	61,600
Projects sponsored by the University/ College	2013-14	College (ME) ISRO and GDA (CS)	12000	12,000
Students research projects (other than compulsory by the University)	--	--	--	--
Any other(Specify)				
Total				73,600

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 - NA

UGC-SAP CAS DST-FIST

DPE DBT Scheme/funds

3.9 For colleges Autonomy CPE DBT Star Scheme

INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	01	02	00	00	00
Sponsoring agencies	CETPA Infotech Pvt. Sofcon Montage Service Pvt. Ltd Microsoft ATA Ayushi Printer	College funded			

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

3.13 No. of collaborations International National Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs :

From Funding agency From Management of University/College

Total

3.16 No. of patents received this year

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

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

Total	International	National	State	University	Dist	College
01	01	00	00	00	00	00

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) -NA

JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events: NA

University level State level
National level International level

3.22 No. of students participated in NCC events: NA

University level State level
National level International level

3.23 No. of Awards won in NSS: NA

University level State level
National level International level

3.24 No. of Awards won in NCC: NA

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

- Blood Donation Camp in collaboration with Rotary Blood Bank, Noida on 22nd November 2013.

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	10.45 Acre	--		10.45 Acre
Class rooms	70	--		70
Laboratories	86	--		86
Seminar Halls	09	--		09
No. of important equipments purchased (\geq 1-0 lakh) during the current year.				
Value of the equipment purchased during the year (Rs. in Lakhs)				
Others given bellow				
Installation of A/C in class rooms	-	36		36
Faculty cabins	28	27		55
Installation of A/C in faculty cabins	04	04		08

4.2 Computerization of administration and library

- i. Use of OPAC software in library.
- ii. Use of computers and data storage in all administration & library sections.
- iii. Use of ERP portal system for student attendance and assessment marks entry.
- iv. Use of Bio-metric finger print system for faculty attendance.
- v. Use of Tally software for account maintenance.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	57295		13105		70400	
Reference Books	5341					5341
e-Books	-	-	-	-	-	-
Journals	143					143
e-Journals	IEEE/ASCE/ASME/Science Direct/J-Gate					
Digital Database	Yes					
CD & Video					NPTEL	

					Video (45), CD – (1400)	
Others (specify)	DELNET membership					

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1013	16	32	1	1	25	120	25
Added	100	1	18	2	--	10	30	--
Total	1113	17	50	3	1	35	150	25

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

Seminar on Linux by Cepta Pvt. Ltd.

Seminar on C++11 by Mr Gunjan Kumar, Computer Scientist in Adobe, Noida

Seminar on Internet Security and Cyber crime by Mr. Swapan, Director Nettech Technology

Seminar on PhP by Mr Anurag, S/W Developer in Appin Technology

Seminar on Android by Mr. Shantu, Nettech Group

4.6 Amount spent on maintenance/ Lab consumables in lakhs :

i) ICT	33.41
ii) Campus Infrastructure and facilities	99.72 Lakh
iii) Equipments & Lab Consumables	5.56 Lakh
iv) Others	115.99 Lakhs
Total :	254.68

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

IQAC has contributed a lot in enhancing awareness about students support services and provides various supports to students.

- i. Training & placement assistance through Career Development Centre.
- ii. GATE coaching classes.
- iii. Common computer centre for surfing.
- iv. Provision of Hi-tech Gym.
- v. Health centre facility.
- vi. Grievance redressal committee.
- vii. by organizing seminars and workshops for students
- ix. Arrangement of Industrial Visit to enhance practical knowledge.

5.2 Efforts made by the institution for tracking the progression

Institute has devised various mechanisms to monitor the student progression regularly.

- i. Conduct career development programs for students.
- ii. Following transparent admission procedure
- iii. Highlighting achievements of students in College news letter.
- iv. Making college Bus facility available on industrial visits.
- v. Making parents meet and informing them on the progress of their children.
- vi. A Class coordinator is allocated for each class in each programme to monitor and counsel the students' progress in academic as well as extra-curricular activities

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
2927	304	04	--

(b) No. of students outside the state

Approx - 10%

(c) No. of international students NIL

Men	No	%	Women	No	%
	2404	76.6		734	23.4

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1917	337	3	723	--	2980	1934	298	2	904	--	3138

Demand ratio - 72.94%

Dropout % - 2.42%

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

- i. Technical aptitude test
- ii. Technical Seminar
- iii. Group Discussion
- iv. Aptitude classes for placement
- v. Conferences/seminars/workshops
- vi. Special Training Program on new Technology
- vii. Gate coaching classes
- viii. Career Development program

No. of students beneficiaries 1287

5.5 No. of students qualified in these examinations

NET S ET/SLET GATE 72 CAT

IAS/IPS etc State PSC UPSC Others 01

5.6 Details of student counselling and career guidance

- i. Student mentor system to counsel and guide the students
- ii. Technical orientation programme for I year students
- iii. Aptitude Training Programme to enhance the problem solving skills of students
- iv. GATE Coaching for student's higher studies
- v. Student Counselling on Ethics and Social Development
- vi. Organized National level Seminars and Conferences for students
- vii. PDP Classes to enhance the soft skills

No. of students benefitted

1647

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
12	345	141	172

5.8 Details of gender sensitization programmes

- i. Women cell is constituted in college
- ii. Director sir and Senior professors keeps sensitizing students about gender issues whenever they address the students.
- ii. Women's day is celebrated in the campus

5.9 Students Activities

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

State/ University level

71

National level

10

International level

00

No. of students participated in cultural events

State/ University level

32

National level

00

International level

00

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

Sports : State/ University level

34

National level

06

International level

00

Cultural: State/ University level

08

National level

00

International level

00

5.10 Scholarships and Financial Support

	Number of Students	Amount
Financial support from institution	34	TFW category

Financial support from government	811 (applied for scholarship)	Direct Transfer to student A/C
Financial support from other sources	00	00
Number of students who received International/ National recognitions	00	00

5.11 Student organised / initiatives

Fairs : State/ University level National level International level
College Level
Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: _____21_____

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

<p>Vision:</p> <ul style="list-style-type: none"> • To develop IMSEC as a Centre of Excellence in Technical and Management education. • To inculcate in its students qualities of leadership, professionalism, corporate understanding and executive competence. • To imbibe and enhance human values, ethics and morals in our students. • To transform student into globally competitive professionals. <p>Mission:</p> <p>The vision and mission of the college are available at the college website. These statements are communicated to stakeholders through Information Brochure and have also been displayed at Reception and in each Department and other prominent location of the college.</p>

6.2 Does the Institution has a management Information System

Yes. The institution has a management information system.

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

6.3.1 Curriculum Development

- Department of Computer Application has collaborated with Indian Institute of Remote Sensing to carry our capacity building program in GIS, GPS & Remote Sensing technology. Students undergo the outreach program of IIRS and work on several projects related to the technology.
- The Innovation & Entrepreneurship Development Centre (IEDC) of the college has collaborated with Microsoft IT Academy to train the students on Microsoft related software programs and its Global certification.
- In order to inculcate the spirit of innovation based Entrepreneurship among the student, an IEDC (innovation Entrepreneurship Development) has been formed which has conducted EAC in 2013-14 with the grant of EDII Ahmadabad (Under DST- NIMAT project).

Program name	Date	No of Participants	Collaborating / Funding Agency	No of Speakers
EAC (Entrepreneurship Awareness Camp)	29-31 March 2014	164 Students	EDII (Entrepreneurship Development Institute of India) Ahmedabad, Under DST-Nimat Project	8

6.3.2 Teaching and Learning

- i. Implementation of outcome based education.
- ii. ICT method of teaching is followed
- iii. Live-demos of working models using you tube
- iv. Academic research
- v. Guest lecturers
- vi. Case studies seminars
- vii. Discussion with groups
- viii. Field trips and lab lectures
- ix. Mentoring
- x. Tutorial teaching

6.3.3 Examination and Evaluation

- i. Evaluation of marks comprises of Internal marks from continuous assessment test and external marks scored in End Semester Examination.
- ii. Continuous Assessment Tests and End Semester Examinations are conducted by the office of the Controller of Examinations.
- iii. Both the marks in the continuous assessment and End Semester Examinations are considered while declaring the results.
- iv. Mentor system is introduced to evaluate the progress of the students throughout the programme
- vi. Automation of the examination cell to ensure timely declaration of results to keep the academic calendar on schedule.

6.3.4 Research and Development

Research has been considered as an important integral part of the academic endeavours in our College. Many Seminars and workshops are organized by the College to provide expert information on research methodology. The College promotes faculty participation in research by granting them leave, helping them in participation of faculty improvement programmes and arranging for books required by them. The Management of the institution has a policy of felicitating the faculty members acquiring Ph.D. degree. Infrastructure facilities like well equipped laboratory for student learning as well as for faculty research are made available. The equipments and consumables are purchased often, as and when required to strengthen research activities. The library is also well equipped with required titles and volumes of text books, e-journals, computer hardware and software for conducive learning. Students and faculty are sponsored for presentations in conferences hosted by other institutions both domestic and in abroad.

6.3.5 Library, ICT and physical infrastructure / instrumentation

- i. Every year Central library is added with new books and journals
- ii. Central library and department libraries are equipped with Air-conditioner
- iii. OPAC Software is provided for personal assistance to each and every user while accessing the library books
- iv. Library staff also guides the users in subsequent uses.
- v. Every department has individual LCD projector, system with internet connection

6.3.6 Human Resource Management

- i. In the institution, the process of assessing adequate human power requirements, staff recruiting, monitoring and planning professional development programmes for personnel development and seeking appropriate feedback responses are very good.
- ii. Recruitment of faculty and staff are based on the guidelines provided by UP Technical University and AICTE, New Delhi.
- iii. There are many staff welfare schemes namely EPF, Group insurance and policy.
- iv. ERP Biometric system is introduced for all the administrative modules of the institution
- v. Organizing Developmental training programme and workshops/seminars for enhancing the multi-skills of faculties
- vi. Effective appraisal system has been followed to assess the performance of faculties.

6.3.7 Faculty and Staff recruitment

- i. Releasing the advertisement in the Leading daily newspapers.
- ii. Scrutinizing of Application as per the college norms.
- iii. Conducting Interview in the presence of External Experts and University Nominees.
- iv. Selection of Candidates as per the norms of staff selection committee.

6.3.8 Industry Interaction / Collaboration

Interaction with industry was improved by organizing lectures from industrial experts, industrial visits and MOU signed with industries for research and training activities of students and faculty members. College has signed MOU with the corporate gaints like Vihaan Network, Technology System India Limited, CMAI-China, Institution of Engineers, UPNEDA, Hitech Machine Tools, Montege Services, HCL Technology, Multisoft and A2Z group, NCOF, IITR for students training, faculty development.

6.3.9 Admission of Students

The students are admitted according to the UP Technical University/ UP Government/ AICTE Norms.

6.4 Welfare schemes for

Teaching	Transport facilities Medical and Maternity Leave EPF Group Insurance
Non teaching	Transport facilities Medical and Maternity Leave EPF Group Insurance
Students	Transport facilities Group Insurance Student Chapters NSS

6.5 Total corpus fund generated

NIL

6.6 Whether annual financial audit has been done

Yes No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	NO		YES	Internal committee (ISO Committee)
Administrative	NO		NO	

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

For UG Programmes Yes No

For PG Programmes Yes No

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

Not Applicable

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

Not Applicable

6.11 Activities and support from the Alumni Association

Alumni meet is organized every year. Senior Alumni having companies conduct campus interviews and recruit the Students. The Alumni working in MNCs will make arrangements to interact our college with HR for our student recruitment. They also involve in activities like conducting training programmes, seminars and workshops.

6.12 Activities and support from the Parent – Teacher Association

Parents are called for meeting regarding student progress. Students progress and attendance records are send to parents twice in each semester. Suggestions are also received from the parents for the improvement of the institution according we try to implements them.

6.13 Development programmes for support staff

College organizes various developmental program for faculty and other support staff.

M/S Multisoft, Noida, have given training to 15 faculty members of CS, IT & MCA Department on Android Technologies.

ATS Infotech, New Delhi have given training to 25 faculty members of CS, IT & MCA department on Microsoft .NET program.

Tevatron Technology, Noida have given three days training to the faculty members of EC & EN department on Embedded System & VLSI design.

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

The College has an integrated rain water harvesting project along with STP. There is an extensive ongoing tree plantation programme. Keeping in view the environmental aspect the college has already set up “Center for Alternate & Renewable Energy (CARE)” Furthermore, Energy, Environment and Ecology are core subjects.

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.

i. For better career options the following programmes have been organized	
Soft skill	PDP Classes
Analytical skills	Aptitude Class
Core Subject and advanced knowledge (Industry oriented)	Microsoft IT Academy, Multisoft, HCL, Tevatron technology, CAD/ CAM, ProE, Hands on Training in Molecular Biology etc.
ii. Introduced value added courses iii. Comprehensive laboratory has been introduced to improve the communication skills of the rural based students iv. Coaching classes are conducted for students for various competitive examinations. v. Other than this college also organizes the summer trainings, workshops and guest lectures in various domains to the students by expert from industry and academia.	

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

Plan	Action
It is proposed to submit SSR for Re-Accreditation for college with higher grade	Proposal Submitted to NAAC for Re-accreditation
Organized at least one international level programme in a year	Each programme is insisted to organize a conference once in a years, This year CS and IT department organized an International Conference
Organized FDP and training to students and faculty	Organized training and FDP by Microsoft IT Academy, Multisoft, HCL, Tevatron technology, CAD/ CAM, ProE, Hands on Training in Molecular Biology etc.
To conduct classes for competitive exams	Aptitude Class and GATE classes are conducted for final year students and total 72 students qualified for GATE exam

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

- To enhance research potential in students and faculty members.
- Skill enhancement for improving student employability / for higher education.

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

7.4 Contribution to environmental awareness / protection

*** Energy conservation**

The college has been very conscious about the energy conservation For this the college has gradually moved on from normal light bulbs (least required wattage) to tube lights, slim lights, CFLs, LEDs and the college also replaced most of the CRT monitor from LCD monitors thus conserving energy to the extent required. College also promotes procurement and installation of efficient electrical systems to save electricity.

***Use of renewable energy :** A centre is established in the college as Centre for Alternate and Renewable Energy Resources. The aim of the centre is to develop the IMSEC as green campus with the help of alternative renewable energy resources.

*** Water harvesting:** A network of seven rain water harvesting system is built in the campus to ensure continuous recharging of ground water table.

*** Plantation :** Each block of the building and playgrounds are surrounded by large green lawns, and plants which maintain healthy and balanced environment. The Gardeners are taking care of the trees and plants in the college campus.

7.5 Whether environmental audit was conducted? Yes No

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

STRENGTHS

1. Gets 3rd Position for "**Excellent Academic Performance**" among all Engineering Colleges of National Capital Region (NCR) . The award has been given to the Director IMSEC by Sri Shivkant Ojha (Cabinet Minister of Technical Education, UP). The award ceremony was organized by Dialogue India in June 2014.
2. Ranked 12th Amongst "**Top Engineering Colleges of Excellence**" in India and Ranked 2nd in Uttar Pradesh by CSR-GHRDC Engineering College Survey 2014.
3. IMSEC bestowed with "**Excellence in Overall Performance**" Award jointly by AICTE & UP Govt. (**National UP Education Award 2013**).

4. Recipient of 3rd Position for Excellent Academic Performance among all Engineering Colleges of National Capital Region (NCR).
5. **IMSEC Ghaziabad is NAAC Accredited** for maintaining world class quality in Education & Infrastructure.
6. **IMSEC Ghaziabad is TCS Accredited for Placements & Project Activities.**
7. ISO 9001:2008 certified institute.
8. IMSEC has signed MOU with the corporate giants like Vihaan Network, Technology System India Limited, CMAI-China, Institution of Engineers, UPNREDA, Hitech Machine Tools, Montege Services and A2Z group, NCOF, IITR for students training, faculty development.
9. IMSEC has provided facilities of E-Resources learning for students & faculties through IEEE Xplore, WILEY online Library, McGraw Hill Access Library, Access Method for Science Direct, Access Methods for J-Gate, ASTM collection list, Springer Link, Access Methods for Nature.com, Proquest and NPTEL Video Lectures.
10. IMSEC publishes Vivechan International Journal of Research and IMS Today, an initiative towards the academic excellence.
11. The College, which is 12 years old, has secured a good image in the public. It is the most sought private engineering college in this region by the students and parents.
12. The college is ideally situated in a spacious lush green campus area of 10.47 acre, in the Industrial hub of Ghaziabad (NCR) equipped with all the latest facilities.
13. The institution has got excellent infrastructure for graduate and undergraduate programmes.
14. The college has 50 Mbps internet connectivity and a professionally designed website.
15. Learning resource centre with digital library.
16. Well-efficient Career Development Center (CDC).
17. National and international training programmes.
18. Academic alliance with "Oracle Corporation".
19. Center of Excellence centre in collaboration with the SAP Germany.
20. More than 90% of students graduate every year, on a consistent basis.
21. Our students consistently secure University ranks.
22. Additional topics, beyond syllabus are covered by the teachers.
23. College works for 6 days in a week, in a staggered manner, so that the students and faculty get an extra day for special coaching, research and other professional development activities.
24. The college recognizes and appreciates top academic performers in each class in the internal evaluation and University examinations.
25. Faculty exchange programmes with the industry are in vogue.
26. The faculty retention is excellent. They are been given full academic freedom.
27. Responsibilities and authorities are delegated to HODs and Deans, which have resulted in a transparent management.
28. College motivates faculty for PhD and Post-doctoral research.

29. College sponsors faculty and students for their overseas trips to present research papers in international conferences.
30. Incentives and rewards are given for research paper publications in national and international journals.
31. Many members of our faculty have been recognized as the Ph.D research guides by other UGC recognized University.
32. Personality and professional development of students are given importance in the students' Evaluation processes.
33. Students are good at organizational capabilities.
34. Students are actively counseled by the faculty advisors/Mentor. One faculty Mentor is nominated for every 20 students.
35. Students give feedback on teachers.
36. 24 hours medical care for the students in the campus is available in the College.
37. The college houses a Outdoor & indoor sports complex having gymnasium, TT, Basket ball etc.
38. Parents' are regularly informed about the performance of their wards twice in a semester and to take their feedback for corrective actions.
39. An active Entrepreneurship Development Cell is headed by a senior Professor to mould the students to become entrepreneurs.
40. Regular PDP sessions are conducted for the students by the trained professional.
41. Student Faculty ratio is maintain as per the AICTE/UPTU norms.

WEAKNESSES

1. Industry Institution Interaction needs to be strengthened further.
2. Faculties with industrial experience are less in number.
3. Communication skill of students needs to be improved.
4. Library to be expanded to cater to growing research needs.
5. The College is affiliated to the UP Technical University and hence has limitation in upgrading the curriculum as per the requirement of the Industry promptly.
6. Consultancy and extension activities need improvement.
7. No technology incubators to transfer the technology to industries.
8. CAT/GATE-qualified students are not joining confidently our UG/PG courses.
9. Focus for Research & Development, Consultancy, Trainings needs to be enhanced at institutional level through collaborations with the other organizations.
10. International academic tie-up's needs to be initiated at institutional level.

OPPORTUNITIES

1. Situated in Ghaziabad and near to New Delhi, where the multinational companies have set up their industries. Also, the area is a hub for the automobile, electronics and other industries.
2. The technology is developing at a rapid rate. Robotics, Mechanotronics including Nanotechnology, cloud computing, 3G in mobile communication ,Energy Management, Infrastructure Management are the recent technological advances to name a few.

3. The students have become more demanding. The students have a large potential, which can be honed.
4. The interdisciplinary research in niche areas is the need of the day, which gives opportunity in all areas.
5. As the faculty members are being paid as per the 6th pay commission, faculty retention is better.
6. Student exchange programmes with premier institutions in India and foreign universities are possible.
7. IMSEC Brand image may be fully exploited through all types of media formats on regular basis.
8. Creating more demand for B.Tech, M.Tech, MBA and MCA students with some industry oriented courses help in increasing the employability of the students.
9. Active Academic Tie up and collaboration with foreign universities for new generation courses.
10. Qualified B.Tech students should be given preference for admissions in PG Courses.

CHALLENGES

1. Changing Social and economical scenario leading to unpredictable future.
2. Coping with rapid changing in technology and the industrial requirements to improve the employability of the students are the biggest challenge for an Institution affiliated to a University.
3. Declining availability of quality faculty, doctorates as well as exposing the teaching faculty to the Industrial scenario and get them trained in an industry is another challenge.
4. Unpredictable and declining quality of students may exert pressure on the colleges.
5. Existing professional courses loosing demand in the market because of weak curriculum.
6. Rapid emergence of regional colleges, Private University stopping and restricting the choices of the students to move out of their region and towards Ghaziabad for education.
7. Competition within the local & regional Colleges leads to create wrong image for the good College's.
8. Lack of motivational policies implemented by the UGC/AICTE/University to protect the future of Private unaided educational institution.
9. Deteriorating industry growth which results in low placements opportunities for the students is affecting the image of the colleges.
10. Declining numbers of admission over the past few years is the biggest threats to face.

8. Plans of institution for next year

1. To establish Centre of Excellence in EC/EN/ME
2. In house Summer training (campus) through core companies of different branches
3. To have MOU with few International University from US/UK
4. To have Incubation Centre
5. To have MOU with Top Industries of core branch for students live project (HCL/IBM/Maruti/Yamaha)
6. To have Green campus for IMSEC funded by Ministry of New & Renewable Energy, New Delhi
7. To have consultancy on pollution aspect related to Kali River through UP Pollution Control Board, Lucknow
8. To have consultancy for Ambient air Quality Monitoring for Ghaziabad city through UP Pollution Control Board, Lucknow
9. To organize the international conference
10. To organize funded national seminars/workshops/FDPs for students and Faculties.
11. To conduct entrepreneurship awareness camp and workshops
12. To conduct industrial visits to each departments
13. To achieve higher placements as compared to previous years
14. To conduct classes for competitive exams in both semester in regular time table

Name: Dr. Narendra Kumar

Name: Prof (Dr. S.P. Pandey)

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC

TWO BEST PRACTICES

I Title of the Practice

To enhance research potential in students and faculty members.

Goal

The aim of this particular practice is to provide necessary infrastructure, human resources and motivation to nurture the research competencies among the students and faculty members.

The Context

The college offers UG and PG degree programme in various engineering departments. It is the responsibility of faculty members to inculcate effective learning methodology in their students to understand various engineering concepts. To accomplish this, they need to be creative and innovative in their approach to teaching / learning activities and should possess holistic idea about the subjects what they taught, which requires some level of research competencies in the teaching faculty members.

The Practice

The College level Innovation and Entrepreneurship Development Cell has been established. The college encourage the faculty members to visit the industry/ academia during vacation to learn the latest technology available which can be used to improve the research skill of faculty members. The college also encourages the faculty members to publish the research papers, attending national/ International conferences and to carry out consultancy work. The faculty members are encouraged by providing the financial support to those who publish and present the research articles in national/ International journals and conferences. They were also sponsored to attend the national/ International conferences in India/Abroad. MoUs have been signed between the College and various industries/academia to carry out the research and consultancy activities.

Evidence of Success

The Start of M.Tech courses in four departments (ME, CS, EC & BT). Faculty members are approved PhD Supervisors of Affiliated University. Faculty members are also members of BOS & RDC. Other than this Department of Biotechnology has been approved as PhD research Centre from our affiliating university, U.P.Technical University. The number of Ph.D./ degree holders in the institution has been increased considerably. The results of above said practice also increases the number of papers published by the faculty members.

Problems Encountered and Resources Required

The faculty members are finding it difficult to find the time to carry out independent research due to their academic commitment. Financial support from external funding agency is required; we are continuously trying to get financial assistance. The college submitted several research proposals to DBT, UGC, AICTE and MOEF for financial support.

II Title of the Practice

Skill enhancement for improving student employability / for higher education.

Goal

To provide industry and R&D oriented training, and other skill sets to students to make them globally competitive and employable in multinational industries or to pursue the higher studies in engineering.

The context

The employability is one of the biggest challenges for engineering education and institutions for graduating students. The primary reason for this is the lack of skill sets as per the need of industry, it may be due to complete disconnect between industry and academic institutions. The curriculum was also not designed as per the need of industry. So there is an eminent need to provide the skill sets (both technical as well as non technical skills) so that the students can meet the challenge.

The Practice

The college has taken corrective measure to meet the need for improving employability of students through setting up a separate Career Development Cell as well initiated various skill oriented programs in the campus so that students can easily be placed or can opt of higher studies. Some of the efforts made in this direction are briefly described here.

Industry Oriented Training Programs

The college has started many industry oriented training programs conducted by competent authorized organizations. These programs are conducted after working hours, weekends or in vacations and train the students to be suitable for industry requirement. The college has a Microsoft IT Academy for preparing students for Microsoft Certification, summer training by Tevatron, Multisoft and HCL. In-house summer training programs were also organized to enhance the technical skill sets by departments.

Personality Development Program

Communication and other soft skills are required for all round development of students. They play major role in improving the employability of students. College started the PDP classes for the students with regular course by trained PDP trainers for 3rd and 4th year students.

Aptitude & GATE Classes

College also started Aptitude and GATE classes in all the departments from 3rd year onward which help students to get selected in PSUs and other industries easily and also go for higher studies.

Evidence of Success

The initiatives and measures taken by the college helps students to upgrade their technical and non-technical skills improving the employability of students/ promotes to pursue the higher studies. The college placements have been steadily improving in terms of number of companies coming to campus, number of students employed as well as quality of placements. Other than this the number of GATE qualified students has increased and they opt for higher studies/ go for PSUs jobs.

Problem Encountered & Resources Required

The university curriculum is fixed for four years by the university and need to update regularly as per industry needs. Some of the students are not fulfilling the eligibility criteria of industry is required to develop the skill, so that they can overcome the deficiency and can get placed in other industry. Some of the students which are from Hindi medium require rigorous PDP training to improve the soft skill.