DEVI AHILYA VISHWAVIDYALAYA, INDORE

1. Name of the Department
   Institute of Engineering and Technology, Devi Ahilya Vishwavidyalaya, Indore
   Faculty of Engineering
2. Year of establishment 1996

A.1 Academic programmes offered by the department at present, under the following categories and Sanctions Pertaining to each of the Courses.

Programmes	Number	Course/Subjects
UG	06	1. B.E. (Mechanical Engineering) 2. B.E. (Computer Science and Engineering) 3. B.E. (Electronics & Instrumentation Engineering) 4. B.E. (Information Technology Engg) 5. B.E. (Electronics & Telecommunication Engineering) 6. B.E. (Civil Engineering)
	02	**B.E. Programs (Part-Time)** 1. B.E. (Mechanical Engineering) 2. B.E. (Electronics & Telecommunication Engineering)
PG	06	**M.E. Programs (Full-time)** IET is presently offering **Full Time 2 Year** ME Programmes in the following six branches & specialization as given below: 1. Computer Engineering with specialization in Software Engineering 2. Information Technology with specialization in Information Security 3. Electronics engineering with specialization in Digital Instrumentation 4. Electronics engineering with specialization in Digital Communication

Programmes	Number	Course/Subjects
		5. Industrial Engineering & Management 6. Mechanical Engineering with specialization in Thermal & Design Engineering **M.E. Programs (Part-time)** 1. Computer Engineering with specialization in Software Engineering 2. Information Technology with specialization in Information Security 3. Electronics engineering with specialization in Digital Instrumentation 4. Electronics engineering with specialization in Digital Communication 5. Industrial Engineering & Management 6. Mechanical Engineering with specialization in Design & Thermal Engineering **M.Sc. Programme:Full Time 2 Year** Applied Mathematics with specialization in Computing & Informatics
	06 01	
Integrated	-	-

Programmes	Number	Course/Subjects
Masters		
M.Phil.	-	-
Ph.D.	06	**Doctoral Program:** 1. Computer Engineering 2. Electronics & Telecommunication Engineering 3. Mechanical Engineering 4. Applied Mathematics 5. Applied Chemistry 6. Applied Physics
Integrated Ph.D.	-	-
Certificate	-	-
Diploma	-	-
PG Diploma	-	-
Any other (please specify)	-	-
Total	27	

A.1.1 Details approval/recognition and recommendations issued by the statutory body (for example, (UGC, AICTE, NCTE, PCI, MCI, DCI) governing the programme in case of Professional Programmes letters for the first time and Last Academic Year recognitions

File No. A.1.1

If the department offers Distance Education Programmes (DEP) then

Number of programmes offered. Nil

Name of Each Programme NA

Letters for approvals by the Distance Education Council. NA

A.2 Copy of Ordinances related to the courses in the department

File No. A.2

A.3 Number of working days during the last academic year. 295

Number of teaching days during the past four academic years.

('Teaching day 180 days 180 clas 180 enga 180 mination days are not to be included)

A.4 Number of positions in the Department, their appointment letters, joining reports and sanctions of each

Positions	**Teaching faculty**			**Non-teaching staff**	**Technical staff**
	Professor	Associate Professor	Assistant Professor		
Sanctioned by the UGC / University / State Government	11	21	64	-	-
Recruited	04	10	36		
Yet to recruit	07	11	29		
Number of persons working on Temporary full time (contract)	-	-	21	69	

A.4.1 Qualifications of the teaching staff

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.							
Ph.D.	03	01	05	01	09	03	22
M.Phil.							
PG			02	03*	15	05	25
UG					01	03	04
*One Assot. Prof. on deputation from other Deptt.							
Temporary full time teachers							
Ph.D.	-	-	-	-	-	02	02
M.Phil.							
PG					10	10	20
UG					02		02
Part-time teachers (Courses Visiting Faculty)							
Ph.D.					02		02
M.Phil.							
PG					35	19	54
Teaching Asst.					72	55	127

Emeritus, Adjunct and Visiting Professors and their sanctions.

	Emeritus	Adjunct	Visiting
Number	-	-	-

Planned in 2013-14

Semester-wise Record of Courses Visiting Faculty and their Sanctions

File No. A.4.1

A.6 Copies of Latest Biodata of Faculty in positions in the Department

File No. A.6

A.7 1. Copies of Yearly Performa Based Assessment Records of Faculty in positions in the Department

File No. A.7

2. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

	Sanctioned	Filled
Professor	**11**	**04**
Associate Professors	21	10
Asst. Professors	64	35
TOTAL	96	49

3. Faculty profile with name, qualification, designation and specialization (D.Sc./D.Litt./ Ph.D./M.Phil., etc.)

Surname	First Name	Middle Name	Qualification	Exact Designation	Areas of Specialization	Teaching Experience in Years	No. of Doctorate Students Guided
PRAJAPATI	GEND	LAL	ME Ph.D	READER	MACHINE LEARNING	12	
SHARMA	MEENA		MTec. PhD)	READER	SOFTWARE ENGINEERING	12	
JAIN	ASHISH	Kumar	ME	READER	NETWORK SECURITY	11	
SONI	JITENDRA		BE	LECTURER	INFORMATION SECURITY	3	
AGRAWAL	ARPIT		ME	LECTURER	SOFTWARE ENGG	4	
DUTTA	MALA		ME	LECTURER	ELECTRICAL ENGINEERING	9	
KARANKAR	NILIMA		ME	LECTURER	IT	4	
MITTAL	AMIT		ME	LECTURER	COMPUTER ENGG.	8	
GEHLOD	LALIT		ME	LECTURER	OPERATING SYSTEM	9	
HAWELIYA	JYOTI		BE	LECTURER	COMPILER DESIGN	4	
MAKWANA	HEMANT		M. E. (COMP. ENGI.)	READER	COMPUTER GRAPHICS	10	
TOKEKAR	VRINDA		ME Ph.D	PROFESSOR	COMP.NETWORK, INFO.SECURITY	27	
BANSAL	PRATOSH		M TECH Ph.D	READER	KNOWLEDGE MANAGEMENT	11	
NIGAM	BHAWNA		M. E. (COMP. ENGG.)	LECTURER	DATABASE MGMT SYSTEM	6	
KARMA	PRAVIN		M.E. (COMP. ENGG.)	LECTURER	COMPUTER NETWORKS	9	
PATIDAR	CHANDRA	Prakash	M.E.	LECTURER	CSE	5	
RAIKWAL	JAGDISH	Singh	M.TECH	LECTURER	WEB MINING	3	

TOKEKAR	SANJIV		ME Ph.D	PROFESSOR	C. N./MICRO CONTRO/ MODELING	26	5
SINDAL	RAVI		MTECH Ph.D	READER	INSTRUMENTATION	10	
NEEMA	VAIBHAV		MTECH Ph.D	LECTURER	VLSI DESIGN	10	
BHATT	UMA	Rathore	MTECH	LECTURER	OPTICAL COMMUNICATION	8	
JANGALWA	MADHVI		M.E.	LECTURER	DIGITAL TECH. AND INSTRU.	11	
DAHAT	PRIYADARSHI ASHOK		M.E	LECTURER	DIGITAL COMMUNICATION	9	
SINGH	PRAVEEN		ME	LECTURER	INDUSTRIAL ENGINEERING AND MAN	3	
UPADHYAY	RAKSHA		MTECH	READER	DIGITAL COMMINICATION	13	
NITNAWARE	DHIRAJ		MTECH Ph.D	LECTURER	NETWORKING	7	
CHOUHAN	SEEMA		BE	LECTURER	ELECTRONICS & TELECOMMUNICATIO	4	
SHAH	AMBIKA	Prasad	BE	LECTURER Cont.	ELECTRONICS & TELECOMMUNICATIO	2	
GUPTA	RACHANA		M.SC. Ph.D	LECTURER Cont.	NANO SCALED THIN FILMS AND MUL	3	
JAIN	HARSH	Harsh	MBA (MS)	LECTURER Cont.	FINANCE	1	
SINGH	RUCHI		MSC Ph.D	LECTURER Cont.	COMMUNICATION SKILL	12	
SINGH	JITENDRA		MSC	LECTURER Cont.	ORGANIC CHEMISTRY	7	
TIWARI	ASHESH		ME Ph.D	READER	TRIBOLOGY AND DESIGN	14	5
SOHANI	NAGENDRA		ME (IEM) Ph.D	READER	INDUSTRIAL ENGG. & MANAGEMENT	18	
MAHESHWARI	GOVIND		M.TECH Ph.D	LECTURER	THERMAL ENGINEERING	11	
VERMA	DEVENDRA		M.E.(IEM)	LECTURER	INDUSTRIAL ENGG. &	10	

			Ph.D		MANAGEMENT		
KARMA	VIJAY		ME	LECTURER	COMP. INTEGRATED MANUFACTUR	9	
TORGAL	SUWARNA	Basavaraj	ME Ph.D	LECTURER	DESIGN	8	
CHAUDHARY	SHARAD		ME Ph.D	LECTURER	THERMAL ENGINEERING	12	
GUPTA	AMIT		M.E.	LECTURER	COMP.INTEGRATED MANUFACTUR	5	
LODWAL	AKHILESH		M. E.	LECTURER	TRIBOLOGY AND MAINTANENCE ENGI	5	
SHAH	IBRAHIM	Hussain	M.TECH.	LECTURER	I.C. ENGINE, AUTOMOBILE ENGG.	16	
BERGALEY	AJEET		M.E.	LECTURER Cont.	COMP.INTEGRATED MANUFACTUR	9	
KANSAL	SANTOSH	Kumar	BE, ME	LECTURER Cont.	THERMODYNAMICS	2	
VERMA	AJAY		M.E. Ph.D	PROFESSOR	INSTR. & CONTROL	20	
BANDE	SHIVANGI		M.E.	READER	COMPUTER SCIENCE	12	
SINGH	PRATIBHA		M.E.	LECTURER	IMAGE PROCESSING	11	
KHILJI	SHAHID		BE	LECTURER	ELECT. AND INSTR.	17	
JHA	AMIT	Kumar	B.Tech	LECTURER Cont.	E&I	2	
DISAWAL	REENA	Sunil	M. E.	LECTURER Cont.	DATABASE MGMT SYSTEM	7	
SHARMA	VINOD		BE	LECTURER Cont.	MICROPROCESSOR	2	
MANDLOI	DHEERAJ		MSC Ph.D	LECTURER	CHEMISTRY	12	
SHARAN	AARTI		M.A, M.PHIL.	LECTURER Cont.	COMMUNICATION SKILL	3	
PRAKASH	SHASHI	Gourishankar	MTECH Ph.D	PROFESSOR	OPTICAL COMMUN.	19	1

KAPOOR	VIVEK		MTECH,	LECTURER	CSE	10	
AZIZ	SUFIA		M.SC. Ph.D	LECTURER	PURE MATHEMATICS	9	
PATHAK	ROHIT		M.SC. Ph.D	LECTURER	PURE MATHEMATICS	9	
CHOUCHAN	CHANDRA SHEKHAR		M.SC.	LECTURER	PURE MATHEMATICS	3	
JESWANI	MAMTA		M.SC.	LECTURER	APPLIED MATHS.	4	
JAIN	VAIBHAV		MTECH	LECTURER	CSE	9	
SETH	ANITA		M.E. Ph.D	LECTURER	ELECTRONICS	7	
NARANG	RAVINDRA	KAUR	ME	LECTURER Cont.	CSE		
BHAGORIA	SWATI		ME	LECTURER Cont.	CSE		
PATHAK	SHAILENDRA	KUMAR	ME	LECTURER Cont.	CSE		
VYAS	UPAMA		ME	LECTURER Cont.	CSE		
PAWAIYA	MANOJ		ME	LECTURER Cont.	IT		
UIKEY	REJESHWARI		ME	LECTURER Cont.	IT		
BATAHM	DEEPAK		ME	LECTURER Cont.	E& I		
MOGHE	SNEHA		ME	LECTURER Cont.	E&Tc		
RAIKWAR	PUSHPA		ME	LECTURER Cont.	E &TC		
SONI	JYOTI		ME	LECTURER Cont.	MECHANICAL		
SONDHIYA	OM PRAKASH		ME	LECTURER Cont.	MECHANICAL		
KARMA	SACHIN		ME	LECTURER	CSE		

				Cont.			

Average experience 7.5 yrs

3. List of senior Visiting Fellows, faculty, adjunct faculty, emeritus professors -
   - Prof. Tapan Mukharji
   - Dr. R. C. Dube (Retired Scientist from CEERI Pilani)
4. Percentage of classes taken by temporary faculty – programme-wise information each semester wise information 31%

   Percentage of classes taken by visiting faculty – programme-wise each semester wise information
5. Programme-wise Student Teacher Ratio 35:1
6. Number of academic support staff (technical) and administrative staff: sanctioned and filled NIL

   (All 69 administrative staff & lab staf.f are working on full time temporary contract basis. No posts are available.)

A7.5 Programme-wise Student Teacher Ratio 19:1

A.8 Students enrolled in the department during the current academic year, with the following details:

Students	UG	PG	Integrated Masters	M.Phil.	Ph.D.	D.Litt./ D.Sc.
	*M *F	*M *F	*M *F	*M *F	*M *F	*M *F
From the state where the university is located	1370 (M) 650 (F)	268 (M) 91 (F)	-	-	45(M) 32 (F)	-
From other states of India	70 (M) 30 (F)	Nil	-	-	1(M) 2(F)	-
NRI students	-	-	-	-	-	-
Foreign students	-	-	-	-	-	-
Total	1440 (M) 680 (F)	268(M) 91(F)	-	-	46(M) 34(F)	-
Grand total	2120	359			80	

Externally registered students? No

Yes No ☐ ☐

If yes, how many students avail of this provision annually?

A.7 Calculation of 'Unit cost' of education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) Including the salary component = Rs.54,340.00

(b) Excluding the salary component = Rs.29,119.00

A.8 A. Faculty recharging strategies

Faculties are motivated for Refresher, Orientation, higher studies and participation in tutorials, short term programs and FDP.

	Refresher	Orientation	Workshop
2009-10		03	29
2010-11		02	15
2011-12	02	10	38
2012-13	04	08	41

B. Number and list of faculty with course details of faculty development programmes, academic staff college programs or other faculty recharge programs

File No. A.8

A.9 Student projects

- percentage of students who have done in-house projects including inter-departmental projects 97%
- percentage of students doing projects in collaboration with other universities / industry / institute 03%

A.10 Awards / recognitions received at the national and international level by

- Faculty
- Doctoral / post doctoral fellows
- Students NA

A.11 Record of each of Seminar/ Conference/Workshop organized and the source of

funding (national / international) with details of outstanding participants, if any.

File No. A.11

A.12 Write up of Code of ethics for research followed by the departments

1. IEEE code of ethics for Students and faculties.
2. Code of ethics for corporate members of the Institute of Engineers India
3. Code of conduct followed by members of Computer Society of India.

Besides these following is the ethical principles to be followed:

Honesty

Strive for honesty in all scientific communications. Honestly report data, results, methods and procedures, and publication status. Do not fabricate, falsify, or misrepresent data. Do not deceive colleagues, granting agencies, or the public.

Objectivity

Strive to avoid bias in experimental design, data analysis, data interpretation, peer review, personnel decisions, grant writing, expert testimony, and other aspects of research where objectivity is expected or required. Avoid or minimize bias or self-deception. Disclose personal or financial interests that may affect research.

Integrity

Keep your promises and agreements; act with sincerity; strive for consistency of thought and action.

Carefulness

Avoid careless errors and negligence; carefully and critically examine your own work and the work of your peers. Keep good records of research activities, such as data collection, research design, and correspondence with agencies or journals.

Openness

Share data, results, ideas, tools, resources. Be open to criticism and new ideas.

Respect for Intellectual Property

Honor patents, copyrights, and other forms of intellectual property. Do not use unpublished data, methods, or results without permission. Give credit where credit is due. Give proper acknowledgement or credit for all contributions to research. Never plagiarize.

Confidentiality

Protect confidential communications, such as papers or grants submitted for publication, personnel records, trade or military secrets, and patient records.

Responsible Publication

Publish in order to advance research and scholarship, not to advance just your own career. Avoid wasteful and duplicative publication.

Responsible Mentoring

Help to educate, mentor, and advise students. Promote their welfare and allow them to make their own decisions.

Respect for colleagues

Respect your colleagues and treat them fairly.

Social Responsibility

Strive to promote social good and prevent or mitigate social harms through research, public education, and advocacy.

Non-Discrimination

Avoid discrimination against colleagues or students on the basis of sex, race, ethnicity, or other factors that are not related to their scientific competence and integrity.

Competence

Maintain and improve your own professional competence and expertise through lifelong education and learning; take steps to promote competence in science as a whole.

Legality

Know and obey relevant laws and institutional and governmental policies.

Animal Care

Show proper respect and care for animals when using them in research. Do not conduct unnecessary or poorly designed animal experiments.

Human Subjects Protection

When conducting research on human subjects, minimize harms and risks and maximize benefits; respect human dignity, privacy, and autonomy; take special precautions with vulnerable populations; and strive to distribute the benefits and burdens of research fairly.

A.12 Student profile course-wise:

Name of the Course (refer to question no. 4)	**Applications received**	**Selected** Male Female	**Pass percentage** Male Female
BE (Based on MPPET)	Student appeared approx 1.2 lacs	360 180 Closing MPPET rank 2000.	NA
ME (Based on GATE)	1042	117 41	NA
Ph.D.	326	26M - 12F	61.96%

File No.A.12

A.13 Diversity of students

Name of the Course	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries

Name of the Course	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
BE	NA			
ME	7.55%	82.39%	10.06%	Nil
Ph.D.	34%	63%	3%	Nil

File No. A.13

A.14 Record of how many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

Student performance

	2012-13	2011-12	2010-11	2008-09
GATE	269	59	74	30
CAT	164	09	05	30
GRE	21		06	10

Service Selection Board: 22

- GATE ranks of IET students in 2011-12
- Surbhi Punjabi (AIR rank 4)
- Anup Kumar Sah (AIR rank 9)
- Diksha Makhija (AIR rank 13)
- GATE rank of IET students in 2012-13
- Surbhi Akotia (All India Rank 16th Position

File No. A.14

A.15 Record of Student progression

Student progression	Percentage against enrolled					
UG to PG	2008	2009	2010	2011	2012	2013
	17	25	35	36	25	38
PG to M.Phil.	-					
PG to Ph.D.	NA					
Ph.D. to Post-Doctoral	-					
Employed • Campus selection • Other than campus recruitment	 70% 25%					
Entrepreneurs	0.5%					

File No. A.15

A.16 Record of Diversity of staff

Percentage of faculty who are graduates	
of the same university	36.36
from other universities within the State	39.40
from universities from other States	24.24
from universities outside the country	Nil

A.17 Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the last four years

Ph.D. : 14

A.18 Present details of infrastructural facilities in the department with regard to

	A Block	**B Block**	**D Block**	**E Block**	**M Block**	**Total**
Class Rooms	4	6	5	8	4	27
Labs	7	6	7	4	1	25
Built-up Area (sq.m.)	1863.2	2106.3	2106.3	3585.7	2506	12167.5

- IT Block Central Workshop (13 rooms with multi-media projectors)
- Built-up area: 855 sqm
- Built-up area: 4720 sqm
- 300 seated fully air conditioned auditorium developed
- Girls Common Room in each block

a) Library

Library Area (Carpet Area) 387.22 sq Mtrs

b) Internet facilities for staff and students

- The infrastructure with advanced technology is being developed (625 Computers)
- Selected Class rooms and laboratories facilitated with 22 multimedia projectors
- Internet connectivity in each block including boy's hostel of 1 Gbps Internet access through DAVV Campus network on 24 X 7 basis provided by National Knowledge Network (NKN)
- IET DAVV has also taken 2 Mbps broadband connection from BSNL. Two Boys hostels are having internal Wi-Fi connectivity.
- All faculty rooms are facilitated with Internet connectivity
- One Number Virtual class room
- All sections of Administrative Office are using computers and printers
- Using Customized developed software for Admissions, Accounts , exam and result processing since year 2000

c) Total number of class rooms 24 Nos and 80 sqm each approx
d) Class rooms with ICT facility 22 Nos
e) Students' laboratories

- **The infrastructure with advanced technology is being developed and well equipped Laboratories**

	A Block	B Block	D Block	E Block	M Block	Total
Class Rooms	**4**	**6**	**5**	**8**	**4**	**27**
Labs	**7**	**6**	**7**	**4**	**1**	**25**
Built-up Area (sqm)	**1863.2**	**2106.3**	**2106.3**	**3585.7**	**2506**	**12167.5**

- Central Workshop
- Built-up area: 855 sqm
- IT Block
- Built-up area: 4720 sqm
- 300 seated fully air conditioned auditorium developed
- Software for virtual laboratories being down loaded for installation in the laboratories

f) Research laboratories

	Software	Amount Invested in Rs
1	Qualnet (Computer Network Simulation Software)	582400/
2	MATLAB	249523/
3	ProE (pro engineer)	780000/
4	Inventor	23860/
5	CollabCad (machine design)	
6	MATHCAD	78000/

- Solid state laser diode (20mW): Red

- Solid state laser diode (9 mW): Green
- Helium Neon Laser (11mW): Red
- Honey comb optical benches
  (i) 8' x 6' (ii) 6' x6'
- CCD camera, Frame grabber cards, Optical components such as beam splitter, lenses, prisms, Neutral density filters, mirrors, cube corner prisms, precision translation stages etc.
- Technology has been developed in-house for direct phase measurement using phase shifting technique and Fourier Transform Method. These techniques have been used for automated measurement of temperature, displacement, slope, focal length etc. Several techniques for testing degree of collimation of laser beam have been developed.

A.19 List of doctoral, post-doctoral students and Research Associates

a) from the host university (Available in IET Office)

b) from other universities (Available in IET Office)

File No. A.19.1

A.19 Records of financial assistance and Number of post graduate students getting financial assistance from the AICTE.

Year	No of Students
2008-09	15
2009-10	14
2010-11	21
2011-12	54
2012-13	62

- Financial assistance provided to SC, ST, OBC, PH

	SC		ST		OBC		Students benifited through other schemes
	No. of Students	Amount	No. of Students	Amount	No. of Students	Amount	
2008-09	169	62,90,716	125	41,14,203	85	40,69,725	1.Bank Employee Sch. 2.Handicaped Sch. 3.Minority Sch 4. Gaon Ki Beti Sch. 5.Single Daughter Sch.
2009-10	203	24,13,467	201	23,11,822	125	59,12,760	
2010-11	133	8,92,070	128	93,57,55	144	41,95,945	
2011-12	173	64,10,649	146	15,13,485	182	53,26,225	

•	• No. of Students	• Amount

• 2009-10	• 534	• 2.12 Crores
• 2010-11	• 561	• 1.40 Crores
• 2011-12	• 511	• 1.76 Crores

- Provision of Fee waver scheme for economically weaker - Meritorious students
- Other scholarships from Govt. departments like Minority scholarship Railway, BSNL, Banks etc

A.20 Methodology of need assessment exercise undertaken before the development of new programme(s) -

Suggestions of experts are assessed by Departmental Committee with consideration of viability of the programme in the absence of any Government grant.

A.21 Records of feedback from File No. A.21

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Student feedback system

Students feedback is taken at the end of every semester for all the subjects and for all concerned faculty members. A students teachers meeting for discussing their problems regarding teaching and research during the semester to resolve the problems. The design of the questionnaire is as prescribed by NAAC.

Analysis

The committee of the Institute analyzes the feedback form statistically giving

due weight to each quality related parameter. Scores obtained by each teacher for each course that he/she taught is conveyed in confidentiality to him/her.

c. alumni and employers on the programmes offered and how does the department utilize the feedback?
d. Feedbacks taken by e-mail or during their visit to the campus and the Curriculam committee of the department examines

A.22 List the distinguished alumni of the department (maximum 10)

S.No.	Name	Name of Company	Designation
1	Krati Dhoot	TITAN	Manager Commercials
2	Anirud Yadav	Inductis -	EXL Decision

			Analytics Manager
3	Husain Tankiwala	3M	Product Manager
4	Saurabh Sahni	Yahoo	Sr. Product Manager
5	Anirvaan Dutta Gupta	Procter & Gamble	Associate Manager
6	Mahip Vyas mig33	Mig 33	Country Manager & Director
7	Abhishek Sogani	FREECU LTR	Director - Technology
8	Rohitashva Singh Tomar	Yebhi.com	Deputy General Manager

A.23 Details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

Workshop Details: 6th October 2012

Date	6th October 2012 (one day)
Title	Biometric systems and Software project management
Organizing By (College/dep Name)	Computer Engineering –IET DAVV
No of participants	All BE students, ME students ,Faculty

Speaker Details :

	Name	Organization	Designation
1.	Ms. Arti Agrawal	Anaxee Technologies Pvt.Ltd.	Director
2.	Mr.Vinod Raghunath Sathe	ClearTrail Pvt Ltd	Sr.Manager

About Workshop :

Workshop covered Basics of Biometrics and software project development, for students interested in learning more about this niche area. It included what, why and components of a Biometric' System and also how the Project specification and development with the academic curriculum is done and what are the reasons of Project development. It also helped students to plan final year projects building application based on / around Biometrics and SPM

Mr.Vinod Sathe explained about the importance of software projects in the course curriculum. The choice of different types of projects in different subjects was also explained. Working as a team members, working on different areas in the software development life cycle was elaborated. It was an interactive session with students where Mr. Vinod Sathe explained the importance of experience, time, size and complexity of the project.

Main outcome of learning Events -

1. Insight full gain regarding proposed topics
2. Applications of the topics Biometrics and software project management examples.

Workshop Details: 16 march 2013

Date	16 march 2013(one day)
Title	Expert talk on Information Retrieval and Semantic Analysis
Organizing By (College/dep Name)	Computer Engineering –IET DAVV
No of participants	All BE students, ME students ,Faculty

Speaker Details :

	Name	Organization	Designation
1.	Dr.Suresh Jain	S.D. Bansal college of Engg	Director
2.	Mr. Apoorv Sharma	Opera Systems, Noida, New Delhi	Sr. Analytics Specialis

About Workshop :

The workshop comprises of two expert talks, group discussion and case study. The expert lecture on Information Retrieval is delivered by Dr. Suresh Jain, Director S.D. Bansal College of Engineering, Indore and this followed by an expert talk on Sentiment Analysis by Mr. Apoorv Sharma, Senior Analytics Specialist, Opera Systems, Noida, New Delhi, followed by a session of case study, questions and answers The workshop is aimed to provide depth detail about information retrieval and sentiment analysis with respect to concepts,technologies and innovative ideas.

Dr. Suresh jain gave expert talk on his special interest on information retrieval the lecture begin with the introduction of information retrieval with an emphasis on the reasoning behind its development.

Mr Apporv Sharma gave a expert talk on sentiment analysis initiate with the basic concepts of machine learning and parsing and focused on different classification models and discuss useful applications include sentiment detection and classification on social networking sites

Main outcome of learning Events :- This workshop met to discuss long range challenges and opportunities the main focus was on innovative ideas and challenges areas looking at the areas the main attention was largely on “tasks” or issues on information retrieval that requires research to be adapted to new domains or new modes of interaction. The goal here is to compare and contrast the differing evaluation philosphes in their areas.

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Date	6/04/2013 (one day)
Title	Expert talk on Cyber Security
Organizing By (College/dep Name)	Computer Engineering –IET DAVV
No of participants	All BE students, ME students ,Faculty

Workshop Details: 4 April 2013

Speaker Details :

Name	Organization	Designation
Dr. Narendra Choudhary	IIT,Indore	Professor

About Workshop :

The aim of this workshop seminar was to provide basic principles of cyber security, sharing of information, ideas and how education needs to be improved regarding data integrity assurances and security issues in the research environment. The workshop had subtle touch of data security. The bottom line of lecture was to provide security awareness and the best practices on security in real life applications.

Session I:- This workshop, held in memory of Late Dr. Chandwani sir, bringing together all members of IET DAVV. At the beginning of the session, a brief remembrance session has been address by Director Dr. S.V Tokekar and followed by Dr. Narendra Choudhary Dean academic of IIT Indore.

Session II:- Dr. Narendra Choudhary covered an overview of cyber security in his presentation he shared some of his experiences and discussions of experimental methodology and how to strengthen cyber security. After that he detailed the real life incident and risk of secure data sharing on vulnerability and addressed some of the ideas including evaluation and specification of data security.

Main outcome of learning Events:- The main focus was to speculate on the challenges, technological gaps, necessary research directions related to cyber security and also indentified number of challenges that need to be addressed to increase the over-all levels of cyber security.

Workshop Details: 29 september 2011

Workshop Coordinator	Dr. Vrinda Tokekar, HOD, IT Department Mr Hemant Makhwana, Reader Information Technology Mr. Praveen Karma, Assistant Professor, Information Technology
Title	Introduction to Research Methodologies
Organizing By (College/dep Name)	Information Technology –IET DAVV
Date	29/09/2011 – 01/10/2011(four day)
Title	Application Approach to Data Structure
Organizing By (College/dep Name)	Information Technology –IET DAVV
No of participants	18

Speaker Details :

Name	Organization	Designation
1. Dr. Narendra Choudhary	IIT,Indore	Professor
2. Prof. A. K. Pujari	Sambhalpur University,Orissa	Vice Chanseller
3. Prof. Suresh Jain	S.D Bansal College of Eng.,Indore	Director

About Workshop :

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Main outcome of learning Events:-

Photographs:

Workshop Details: 25 June 2012

Speaker Details :

	Name	Organization	Designation
1.	Prof. Shreepad Karmalkar	IIT Madras	Professor
2.	Prof. Uday Gaitonde	IIT Bombay	Professor
3.	Prof. Sahana Murthy	IIT Bombay	Professor
4.	Prof Santosh Noronha	IIT Bombay	Professor

About Workshop :

Research Methodologies is being recommended by AICTE to be a compulsory core subject for all ME/M.Tech programmes in the country. The syllabus is currently being drafted by a committee at AICTE. It is therefore important, that a large number of teachers should be able to teach this subject, or at least be fully conversant with the basic concepts.

This course provides an introduction to research for scientists and engineers. The goal of the course is to take a researcher through the various aspects and steps of a research project. Topics covered in the course are classified into the following main categories:

Productive Thinking Skills

Scientific Method and Experimentation Skills

Communication Skills - Written and Oral

Management of research - time management, stress management, professional ethics

Main outcome of learning Events:-

The course will consist of lectures and several interactive sessions. There will be tutorials and practical sessions wherein participants will get an opportunity to apply the research methodologies and skills discussed, to address research problems. Participants will work on several exercises individually and in teams.

Date	10/11/2012 – 11/11/2012(Two days)
Title	Aakash for Education
Organizing By (College/dep Name)	Information Technology –IET DAVV

Workshop Details: 10 November June 2012

Speaker Details :

	Name	Organization	Designation
1.	Prof. Deepak B. Phatak	IIT Bombay	Professor
2.	Prof. Uday Gaitonde	IIT Bombay	Professor
3.	Prof. Kannan Moudagalya	IIT Bombay	Professor

About Workshop :

It is now well established that the quality of education can be improved considerably by proper use of Information and Communication Technologies (ICT), to supplement the conventional mode of education. Aakash tablets were launched by MHRD in October 2011. These are Low Cost Access cum- computing Devices.

Under this project, IIT Bombay plans to deploy the Aakash tablets in select engineering institutions in India, with two objectives. The first is to test and enhance the effectiveness of these tablets for use in class rooms. The second is development of new educational applications

and contents on Aakash, largely through final year Research and Development projects done by BE/ME students at these Institutes.

The objective of this workshop is to introduce the tablet computers in general, and Aakash tablets in particular, to the participating faculty. The emphasis will be on using applications specially developed for Aakash at IIT Bombay, for effective use of these tablets in the educational process. Following topics will be covered in the workshop

Main outcome of learning Events:-

- Introduction to tablet computers and Aakash.
- Applications available on Android platform
- Special educational applications:
- Clicker software for conducting tests.
- Proximity application to develop interactive lessons
- Programming environment on Aakash(C, C++, Python)
- Engineering application - Robot Control

Workshop Details: 23-24 February 2013 & 2-3 March 2013

Date	21/05/2013 & 31/05/2013(Two weeks)
Title	ISTE Workshop on DBMS
Organizing By (College/dep Name)	Information Technology –IET DAVV
No of participants	30

Date	23/02/2013 – 24/02/2013 & 2/03/2013-3/03/2013 (Four days)
Title	Aakash Android Application Programming workshop for students
Organizing By (College/dep Name)	Information Technology –IET DAVV

Speaker Details : Team Aakash from IIT Bombay

About Workshop :

. Through this workshop, IIT Bombay plans to train participants on android application programming for Aakash tablets with two objectives. The first is to test and enhance the effectiveness of these tablets for use in classrooms. The second is development of new open source educational applications and contents for Aakash, largely through final year Research and Development projects done by BE/MCA/ME students at these Institutes.

Main outcome of learning Events:-

Following topics are covered in the workshop:

- Android Apps Programming:
- Getting Started with Android.
- Setting up Eclipse for Android Software Development.
- Android Building Blocks.
- Layouts and UI Control.
- Android Application Resources.
- Introduction to Animation and Graphics.
- Data Storage.
- Web Application Development.
- Publishing your Application.

Workshop Details: 21 may – 31 may 2013

Speaker Details :

	Name	Organization	Designation
1.	Prof. S. Sudarshan	IIT, Bombay	Professor

About Workshop :

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An important initiative has been taken by IIT Bombay to work with Engineering Colleges in the country, to enhance the teaching skills of our faculty colleagues in core Engineering and Science Subjects. Under this project called "Empowerment of Students & Teachers through Synchronous & Asynchronous Instruction,"

This workshop provide following -

- Overview of data management systems. Relational model and query languages (relational algebra and calculus, SQL). Database design using the ER Model, ER Diagrams, UML Class Diagrams. Relational database design and normalization. Integrity and Security. Design and development of Web based information systems.
- Overview of storage structures, indexing. query processing and optimization, and transaction processing.
- A brief introduction to decision support and data analysis, data warehousing and data mining and Information Retrieval.
- Querying Big Data using Hadoop.

Title	:	Software Training for SAE BAJA
Workshop Coordinator	:	Mr. Ibrahim Hussain ,Mr. Amit Gupta
Date	:	8 July 2011- 10 July 2011
Organizing department name	:	Mechanical Engineering Dept.

No of participants	:	114(27 Colleges from all over India)(List Attached)
No of Speakers	:	04
Photograph of Workshop	:	Not Available

Speaker Details:

Name	College	Designation
Mr. Atil Vidharti	Dassaut Systems,Banglore	
Mr Rajiv Aramdaka	Dassaut Systems,Banglore	
Mr. Shir Prakash	PTC ,Banglore	
Mr. Pradeepak	CSM,Banglore	

- Experts/ eminent scholars from different field invited to deliver lectures for students
- One day expert talk on Software Requirement Engineering organised by CSI Indore chapter on 27 June 2011. Expert were
- Prof. Gopalsamy Ramesh
- Prof. T.V. Gopal
- Dr. Anil Rawat
- Expert lecture On "Symbolic Data Object" by Dr. P. Nagabhushan , Professor from University of Mysore on 11th Nov.2011
- Expert lecture On Empowerment of women through ICT on 8th Dec.2011.by Prof. A.K. Nayak
- Expert lecture On topic "Parallelization & Vectorisation of Programmes" by Dr. Supratim Biswas , Professor Deptt. of Computer Engg. IIT Bombay, on 14 July 2011

- Two days National seminar in collaboration with Institution of Engineers India on "Design & Analysis of Mechanical Systems using Optimization Techniques" 0n 14-15 October 2011
- National workshop on Next Generation Networks 27th -28th Jan,2011
- STTP on Application approach to Data Structure on 29th Sep.- 01st Oct 2011.
- University organized lectures on Fostering Excellence in Research (2012-13
- **Mahamana Pt. Madan Mohan Malviyaji Smriti Rashtriya Vyakhyaanmala Karyakram "Vision of Mahamana Pt. Madan Mohan Malviyaaji for Engineering Education in India" was**

organized at IET-DAVV Indore on 04/01/2013 as part of the celebrations commemorating the 150th Birth Year of Mahamana Pt. Madan Mohan Malviyaji.

- The event was presided by Hon. Vice-Chancellor of DAVV Indore Prof. D.P.Singh. The Guest of Honor of the event was Prof. Devendra Pratap Singh of Banaras Hindu Vishwavidyalaya.

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- ***Poster exhibition on the life and works of swami Vivekananda at M-Block IET-DAVV.***
- In reference to the University Circular No. Prasha/Vividh/2012/1742 dated 17thSept.2012 and UGC letter F.No.UGC/CRO/Estt./12 dated 08/08/2012.)and as part of the nation wide celebrations of the 150th Birth Anniversary of Swami Vivekanada on 12th January 2013, an exhibition on the Life and Works of Swami Vivekanada was organized on **03 October, 2012** from 10:00AM-05:00PM in M-Block. A documentary film on the life of Swamiji was also exhibited from 03:00PM-05:00PM in Dr. Manohar Chandwani Memorial Hall, M-Block. The faculties, students and staff of IET-DAVV visited the exhibition and also watched the inspiring documentary film on Swami Vivekananda.
- ***Volunteering work was undertaken by the NSS Volunteers for the (1) Exhibition of the Documentary Film on the life of Swami Vivekananda (Vivekananda by Vivekananda produced by Sri Ramkrishna Math Chennai) (2) Ramkrishna Mission Math Literature and Poster Exhibition on the Life and Works of Swami Vivekananda. More than 250 persons including the students, staff members and faculty members participated in the above stated events and benefitted from them.***
- Vivekanand 150th Birth Anniversary lecture
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A.24 Record and List of the teaching methods adopted by the faculty for different programmes.

* Black board teaching : Each class room equipped with black board and white board
* LCD Projector : 22 class rooms are equipped with LCD projectors
* Seminars
* Workshops
* Tutorials
* Practical Laboratories : well equipped laboratories in the respective departments
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* Industrial Visits
* Expert Lectures by eminent faculties

File No A.24

A.25 Record of Monitoring by the department ensure that programme objectives are constantly met and learning outcomes are monitored

1 Departmental meetings for reviewing progress
2 Student feedback analysis

Semester Results and placement each ear are monitored . The leaving outcome and evaluates whether programme objectives are met.

File No. A.25

A.26 Details and Highlight of the participation of students and faculty in extension activities in the department.

Students are associated with 'NSS' and the club 'Engineers without borders' through which they are actively participating in blood donation activity Voter awareness programmes, Pulse Polio Immunization pragramme, etcs

- Engineers Without Border (EWB) of IET design & installed water purification plant at school in Ralamandal in September'2012.

- Collection camp: Was Organised within the premises of IET-DAVV , in the mid of July to collect the cloths, stationary, and other entity to help other Needy people . It was 96 collection made by the Students And the Donation were given to the Jeevan-Shala and child Line organisations.

- Plantation: A Day Long Plantation event Held within the premises of IET-DAVV And Cleaning thrash All Along college within the same day was organised During September month. Around 50 plants were Sowed At this event by 23 group members

- Blood Donation Event: A donation drive with help of M.Y Hospital ,Indore was Organised within the college during this February . It was 79 Donations that were made .

- Woman's Day Celebration : It was celebrated with full joy At Mahesh jyoti kalyan blind School . A Seminar cum motivational speech was organised for the Student And Cakes refreshment were given to the blind student their. The school has around 100 odd student.

- IET-Success Stories: 14th March 2013, A Seminar Cum Alumni Meet for Student to give them a vibe direction in their career orientation and a focus on current placement scenario. The Number of Students who attended the seminar was 150 and 6 final year students that had given the seminar.
- **Participation, after selection, of the NSS Unit IET DAVV volunteer Mr. Utkarsh Garhwal in the 10 days National Level Camp for Tracking and other Adventure Activities** at Solan Nala, Manali District Himachal Pradesh during 13-23th June 2012.

- **Participation** of Programme Officer along with 06 NSS Volunteers in the **Paryavaran Sanrakshan Jan-Jagaran Rally** on the occasion of **World Environment Day on 5thJune 2012** organised by NSS DAVV Indore in association with Vigyaan Bharti and M.P. Pollution Control Board, Indore.

- **SADBHAAVNA DIWAS PLEDGE** organized at IET-DAVV Campus on 22ndAugust 2013.Approximately **413** students took the pledge to foster communal harmony.

- Nutritional Week activities (from 1st-7thSeptember 2012) **Poshan Aahaar Saptah Jaagarukta Abhiyaan for the infants and mothers** in an attempt to reduce the infant mortality rates. The NSS Volunteers visited the **Chacha Nehru Bal Hospital, M.Y. Hospital** and **the nearby areas** and provided the guidelines on infant and young child feeding to the parents and also explained the various health and nutrition related issues.

- Participation of Programme Officer along with the 54 NSS volunteers in the **VISHWA CHICAGO DIWAS PROGRAMME** organized at DAVV Auditorium on 11th September 2012.

- NSS Volunteers conducted **a survey on the educational status of the lower income group children** in the IET-Campus and the nearby areas on 16th September 2012.

- Participation of Programme Officer along with 21 NSS volunteers in the **Inauguration ceremony of the Faculty/Teaching Block of the School of Commerce DAVV** held at DAVV Auditorium on 23/09/2012.The chief guest of the event which Honorable Governor of M.P.

- Organized a **Pledge to Follow the Traffic Rules** on The National Service Scheme Day 24/09/2012. Approximately **400** students took the pledge to follow the traffic rules.

- Volunteering work was undertaken by the NSS Volunteers for the **(1) Exhibition of the Documentory Film on the life of Swami Vivekananda (Vivekananda by Vivekananda produced by Sri Ramkrishna Math Chennai) on 03/10/2012 at Dr. M Chandwani Memorial Hall at IET-DAVV Indore. (2) Ramkrishna Mission Math Literature and Poster Exhibition on the Life and Works of Swami Vivekananda at IET-DAVV Indore.** More than **250** students watched the film & the exhibition and benefitted from them.

- Participation of Programme Officer along with 25 NSS Volunteers in the **One day Orientation Programme for the volunteers and the NSS Programme Officers** on 12/10/2012 at DAVV Auditorium Khandwa Road Indore.

- **Participation, after selection, of the NSS Unit IET DAVV volunteer Mr. Utkarsh Garhwal in the 10 days Pre Republic Day Parade Camp at Ranchi** during 05-14th October 2012.

- Conducted Yoga Sessions for the benefit of IET-DAVV students on 14th-21thOctober 2012 at IET-DAVV. Approximately 20 students participated in the above said activity.

- Participation of Programme Officer along with volunteers in the celebrations related to the 150th Birth Year of the Mahamana Pt. Madan Mohan Malviyaji on

24/12/2012 organised at IMS DAVV Auditorium. IGP Dr. Anuradha Shankar Singh was the chief guest of the event.

- Participation of Programme Officer along with Volunteers in the Mahamana Pt. Madan Mohan Malviyaji Smriti Rashtriya Vyakhyaanmala Karyakram "Vision of Mahamana Pt. Madan Mohan Malviyaaji for Engineering Education in India organized at IET-DAVV Indore on 04/01/2013.Volunteering work was performed by 25 NSS Volunteers.

- Participation of Programme Officer along with Volunteers in the National Youth Day Celebration Programme on 12/01/2013 at IMS-DAVV Auditorium,Indore. The event was presided by the Honourable Vice-Chancellor of Devi Ahilya University, Indore Prof. D.P.Singhji and Respected Dr. J.S.Rajputji was the Guest of Honour. Approximately 50 NSS Volunteers from IET-DAVV participated in the event who also organized an exhibition on the life and works of Swami Vivekananda.

- NSS Unit conducted the Shramdaan Activity on the occasion of Vasant Panchami on 14/02/2013 wherein the cleaning of the Hostel Area and Teaching Blocks was done. The cleaning work involved was the removal of weeds, plastic and other wastes from various sites. Approximately 51 persons including the NSS Programme Officer and Volunteers were involved in the above said activity.

- Participation of 03 NSS Volunteers of IET-DAVV in the District level NSS Camp organized at Rangwasa, Rau Indore from 27/02/2013-05/03/2013.

A.27 Details of "beyond syllabus scholarly activities" of the department.

Students organized and participate different technical events through different student chapters working in Institute. Following Student chapters are working in Institute:

1 Society of Automotive Engineers
2 Indian Society of Heating refrigerating and Air Conditioning Engineers.
3 Computer Society of India
4 IEEE student chapter
5 Institution of Engineers, India, Students Chapter

File No. A-27

A.28 Information about programme/ department accreditation/grading by other agencies? If yes, give details.

NA

A.29 Write up of highlight the contributions of the department in generating new knowledge, basic or applied.

Since establishment in 1996, Institute produce hundreds of engineers , PG engineers and Doctoral Engineers in highly academic environment and they are serving the Nation. This has been achieved despine no Government support. The research areas are

following in which number of publications are done in last for years

- Mechanical Engineering.:
  - Lean Manufacturing, Condition Monitoring and Fault Analysis, Supply Chain Management, Vibration & Noise Control, Fracture Mechanics, Knowledge Management, Finite Time Thermodynamics, Exergy Analysis, Vapor Absorption Analysis, Logistic Models, Machine Design , QFD, Service quality,
- Electronics Engineering:
  - Mobile Communication, VLSI, Soft Computing Techniques, Digital Signal Processing, Wireless Sensor Network, Photonics Communication and Instrumentation
- Computer Engineering.:
  - Computer Communications and Networks, QoS, Wireless and Mobile Computing, Network Security, Network Performance Evaluation, Artificial Intelligence, Machine Learning, Formal Language Learning, Automata Theory, Soft Computing and NLP, Distributed Computing, Software Computing, Software Quality Optimisation, Fuzzy Systems, Parallel Computing; Aspect-Oriented Programming. Automatic and Social Computing, Multimedia and Visual Software Engineering.

Department emphasize on the overall development of the students. This is achieved through the generating new/applied knowledge by encouraging students for the Idea generation and realization through organizing deferent events/ technical festivals and to understand real life problems industrial visits and expert lectures from industries and praticeners have been organized. They have been motivated to undertake research projects/ live projects.

A.30 Write up of Future plans of the department.

Future Infrastructure development Plan

S.No.	Item Description	Area (sq. m.)
1	Library extension	2830
2	Civil Engineering department	4720
3	Mechanical Engineering Block extension	2732
4	Boys Hostel (remaining part 200 of 300 seated boys hostel	4078
5	Additional Girls Hostel (200 seated)	6055
6	Cafeteria	125
7	3BHK (1 Block of 8 units)	920
8	Open air theatre	800
9	Outer development(Horticulture, Internal Roads path, Sewer, Water Drain and Leveling)	182127

1. New Library Building
2. Extension of Mechanical Workshop
3. Digital Library with latest Journals
4. Industrial Consultancy
5. High Tech classrooms
6. Modern Laboratories
7. Curriculum update with modern syllabus content
8. Long term academic projects at UG level
9. Research projects at Master's level
10. eLearning Technology Adoption

A.31 Record of any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths:

1. Status of being a University Teaching Department adhere to regulations and ordinances and full Academic Autonomy. The Institute has flexibility to change curricula as per on-going Industry trends.
2. The Institute has dedicated Faculties and staff and follows strict time schedule and academic calendar (Examination, Registration Vacation etc. 30th April is the last date of exam)
3. Being a University Teaching Departments the Institute enjoy support from others sister University Teaching Departments in terms of faculties, facilities and others resources required.
4. The Institute is connected to IT Center through campus wide networking and accessing 1 Gbps leased line for Internet. Institute has 2 MBPS Broadband Connection also. Internet facility is available round the clock. Virtual class room created in June 2012
5. Every teacher is given opportunity for pursuing higher degree (ME / Ph.D.) and Faculty development programmes, Quality Improvement Programs and allow to pursue PhD From Institute of Repute (IIT)

Weakness:

1. Total Dependence on students fee and No grants, despite University Teaching Department of the University and University/ State taking -% share for administrator expenses.
2. Scarcity of resources due to implementation of VI pay recommendations at the Institute.
3. Procedural dependency/ difficulty in following the on Government norms for Faculty, Administrative\ Non Teaching Staff position despite self-financed.
4. Presently no permanent post for Administrative\ Non Teaching Staff. (till date all Administrative\ Non Teaching Staff is on contract/ Daily wages basis).
5. Procedural delays in process of recruitment and procurement.

A.32 Write up of efforts for Quality Sustenance and Assurance in the department.

Quality first and delight stakeholders though offering best academic environment is Institute Moto. This enables us to stablish as the one of the best Engineering Institute in the central India within a period of 4-5 years after stablishment. We are sustaining our reputation and position

through our continous efforts through quality education. This efforts reflects through placements achievements and quality of research produced from our Institute. This is possible only through providing motivated environment to faculty members and giving opportunity for higher learning and research.

CRITERION I: Curriculum Design and Development

1.1.1 Academic Year of Revision, Curriculum of Each Course, Objective and Course plans of each paper taught in the course

Whether uploaded on website

Yes

Yes No ☐ ☐

Web link:- www.iet.dauniv.ac.in

1.1.1.A Eligibility for admission to each course

Sr No	Course	Eligibility
1	B.E.	45% in 12th (PCM) { State Government Norms}
2	M.E.	55% in B.E. in relevant branch(AICTE Norms)
3.	PhD	55% (UGC PhD Regulation 2009 and University Ordinance)

1.1.1.B Whether reflects Vision and mission reflection Yes

Yes ☐ ☐

1.1.1C Write on reflection of vision and mission

VISION:

Remaining at Forefront of Engineering Education, strives ceaselessly to shape the young enthusiasts into technical professionals and professional communicators through rigorous process of knowledge and technology acquisitions leading to expertise , and offers human resources in technology with national focus

MISSION:

- Creating an enthusiastic and synergetic environment for the developing the youth into integrated and well-rounded personalities to meet the challenges of technological competitiveness
- Nurturing intellectual, ethical, social and national values

- Updating technical and professional know-how and sharing it with others creatively in an effort to realize Technology Vision of India
- Instilling pride in India's cultural heritage and commitment to serve the country under all circumstances

1.1.2 Details of process followed in last revision of Curriculum

A. Need Assessment

YES

B. Faculty involved in curriculum design (List of members)

Members of Board of Studies

C. Records of Departmental Committees/Board approvals of the designed curriculum

D. Records of External Experts Opinion of the designed curriculum yes

E. Records of External Experts Feedback of the designed curriculum yes

F. Records of Student Feedback opinion on the existing curriculum yes

G. Records of Syllabi of National tests, Eligibility Tests and Examinations for example, GATE, NET, Service Commissions, National Councils, for the each curriculum, if any,

File No. 1.1.2 A-G

1.1.3 Detailed write up out each course in reference to

* Employability:

Syllabus has been designed as per the present need of the Industries which gives benefit to the students in supporting to their placement. Placement record of last 05 years shows 100% employability

* Innovation:

Use of Internet and Web resources in teaching and research in each course and ICT based teaching learning programme.

* Research :

The PG students of the Institute have been encouraged to undertake research projects. It is compulsory to published at least one research paper in reputed Journal.

1.1.4 Records of UGC/AICTE/National Council, Regulating bodies Guidelines for the development and restructuring the curriculum, if any, File No.1.1.4

Department Faculty members, if any, involved in leading any curricular reform which has created a national impact? No

1.1.5 A. Record of Interactions, Opinions and Feedbacks for the designed curriculum with External Research Bodies File No. 1.1.5A

B. Records of Interactions, Opinions and Feedbacks for the designed curriculum with Industrial Experts, particularly in case of Professional Courses File No. 1.1.5B

C. Records of Interactions, Opinions and Feedbacks for the designed curriculum with Stake Holders, such as eminent personalities, Visitors to the departments, parents File No. 1.1.5C

D. Records of Alumni opinion on the existing curriculum (may be taken in an Alumni Register) File No. 1.1.5D

1.1.6 List of Department Courses which are also introduced in University affiliated colleges also. List of colleges who introduced those courses NIL

1.1.6 Details of additional skill-oriented programmes designed for the colleges, Employees, Faculty relevant to regional needs

Computer Training and Accounts Maintenance training given to non teaching staff.

1.2 Academic Flexibility

1.2.1 List of Courses taught in Department on campus

* Overseas programmes offered on campus NIL
* Programmes available for colleges to choose from NIL

1.2.2 Records on the following provisions with reference to academic flexibility

A. List of Core/ Elective options File No. 1.2.2.A
B. List of Enrichment courses NO
C. List of Courses offered in modular form NO
D. List of courses/papers with Credit accumulation & transfer facility

1. Credit for PhD Course in Research Methodology and Computer Applicaion
2. Planned for some other courses in 2013-14

D. Details of Lateral and vertical mobility within and across programmes, courses and disciplines

Lateral entry in BE II Year for Diploma from polytechnic

File No. 1.2.2 A-E

1.2.3 Records of International students NIL

1.2.4 Records of Courses developed targeting international students, if any NIL

1.2.5 Record of dual degree and twinning programmes NIL

1.2.6 A. List of students, Admission Process, Fee structure of each programme

File No. 1.2.6

B. Record of Teacher qualification and salary parity and differences (if any) at par with the aided programmes

1. Parity in the case of salary by UGC Scale ,

2. Gratuity and Earned Leave encashment benefits are not given.

3. CPF not credited as per norms

1.2.7 Operational details of distance Education Course in the department (if applicable)

NIL

1.2.8 Details of Choice Based Credit System (CBCS) NIL

1.2.9 Records of Departmental Academic Calendars of each semester

FileNo. 1.2.9

1.2.10 Records of Inter-disciplinary programmes, Name of interdisciplinary program and details of students undertaken those programmes.

ME in Industrial Engineering and Management with intake of 18 students.

FileNo. 1.2.10

1.3 Curriculum Enrichment

1.3.1 A. Record of academic years in which each of the courses was revised

2006-2009 (First batch with revised curriculum was passed in 2010)

B. Records of review, up-gradation,

C. Records of social relevancy,

Coursesof Engineering are required in each Nation for fostering technical competencies . All courses fullfil social needs.

D. Records of job orientation

Year	2012-13	2011-12	2010-11	2009-10	2008-09	2007-08
Companies visited	24	29	25	22	17	11
No. recruitment offers	460	441	324	264	269	264
No. of students placed.	322	295	275	230	256	246
Average annual package in year has been 4.0 lac per anum						
Highest package in 2011-12 has been 9.15 lac per anum **Highest Package in 2012-13 has been 11.00 lac per annum**						

E. Records of knowledge intensive nature of each course

All courses are knowledge intensive ehich enables students for ready for placement in companies and step further for the research or higher qualification.

F. Records of meeting the emerging need of students

Course has been designed as per the emerging needs of the Industries which ultimately increase the employability . which enhance reputation of the institute in the state and the Nation. That is the reason students give their first/ second preference for their engineering course to Institute.

G. Records of meeting the emerging need of stakeholders

Stake holders need engineers with intensive knowledge which is fulfilled by the Institute by producing Engineers I different brances of engineering and different academic level (UG, PG, PhD)

File no. 1.3.1

1.3.2 Details of the last four years during which how many new programmes at UG and PG levels were introduced NA

* Inter-disciplinary
* programmes in emerging areas

1.3.3 A. Details of strategies adopted for the revision of the existing programmes

B. Percentage of courses underwent a syllabus revision in last four years

100% syllabus undervent revision

1.3.4 A. Details of Value-added courses offered NA

B. Details of these courses access to students NA

1.3.5 Details of higher order skill development programmes in consonance with the national requirements (for example, innovative M. Tech. /M.E. courses, CCNA, CCSP, ….)

NA

1.4 Feedback System

1.4.1 A. Copy of Feedback form to obtain feedback from students/student class representatives regarding the curriculum YES B. Details of action and use of on feedback from students YES

File No. 1.4.1

1.4.2 A. Method used for eliciting feedback on the curriculum from national and international faculty e-mail and personal interaction

B. Conducting webinars : Planned in 2013-14

C. Curriculum development Workshops : Planned in 2013-14

D. Curriculum development online discussions: Planned in 2013-14

E. Impact of Workshop and discussions

1.4.3 Specify the mechanism through which affiliated institutions give feedback on curriculum enrichment and the extent to which it is made use of.

Curriculam needs to be based on AICTE guideline and syllabi of National level Examinations (GATE and IES)

1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the Department in ensuring the effective development of the curricula?

NA

1.4.5 Any other information regarding Curricular Aspects which the UTD would like to include.

NA

2.1 Student Enrolment and Profile

2.1.1 Copy of Advertisements and website info for ensuring publicity and transparency in the admission process

File No. 2.1.1

2.1.2 A. Write up details of the process of admission put in place by the department

Institute runs engineering courses for UG, PG and PhD in different branches of engineering. The admission process for UG courses is based on through the Pre Engineering Entrance test conducted by the Directorate of Technical Education. The admission process for PG courses is based on the AICTE guidelines and for the PhD course University guidelines as per UGC norms have been followed.

. B. List of the criteria for admission: (*e.g.*: (i) merit, (ii) merit with entrance test, (iii) merit, entrance test and interview, (iv) common entrance test conducted by state agencies and national agencies (v) other criteria followed

File No. 2.1.2

2.1.3 Details of admission process in the affiliated colleges if department is monitoring the same.

No

2.1.4 Student profile analysis

Year	2013	2012	2011	2010	2009	2008
Opening Rank	271	58	319	419	353	170
Closing Rank	1599	1619	2390	2171	1465	904

Course	Merit Ranke/ Marks in PET	
	Min	Max
Mechanical Engineering	271	714
Computer Engineering	303	789
Electronics & Telecom. Engg.	646	1396
Electronics & Instrumentation	1047	1599
Information Technology	827	1522
Civil Engineering	717	1083

2.1.5 Strategies adopted to increase/improve access for students belonging to the following categories:

* SC/ST
* OBC
* Women
* Persons with varied disabilities
* Economically weaker sections
* Outstanding achievers in sports and other extracurricular activities

State offers scholarships to SC/ST/OBC students.

2.1.6 Number of students admitted in department in the last four academic years:

Categories	2012-13		2011-12		2010-11		2009-10		2008-09	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
SC	56	21	53	20	52	22	55	21	34	13
ST	51	22	52	21	53	20	50	22	33	11
OBC	60	21	60	23	62	20	61	21	35	08
General	227	110	229	110	227	112	225	112	155	62
Total	394	174								

2.1.7 A. Record of demand ratio for the various programmes of the university departments Courses offered by Institute are high in demand in state.

B. If yes then highlight the significant trends explaining the reasons for increase/decrease.

Programmes	Number of applications	Number of students admitted	Demand Ratio
UG	1,05,000	540	194:1
PG	1042	158	6.6:1
Integrated Masters			
M.Phil.			
Ph.D.	326	38	8.6:1
Integrated Ph.D.			
Certificate			
Diploma			
PG Diploma			

Programmes	Number of applications	Number of students admitted	Demand Ratio
Any other (please specify)			

2.1.8 A. Record of any programme discontinued/staggered in the last four years?

B. If yes, write-up of the reasons. NO

2.1.9 Record of Admissions

2.1.9 Record of Admissions 2013-14

Course	Merit Ranke/ Marks in PET	
	Min	Max
Mechanical Engineering	271	714
Computer Engineering	303	789
Electronics & Telecom. Engg.	646	1396
Electronics & Instrumentation	1047	1599
Information Technology	827	1522
Civil Engineering	717	1083

PASS PERCENTAGE DURING LAST 4 YEARS **(CALCULATION BASED ON THEIR FIRST SEMESTER RESULT)**

SNO.	COURSE	YEAR	SANCTIONED INTAKE (FT+PT)	STUDENTS ADMITTED	STUDENTS PASSED OUT IN FIRST ATTEMPT	% OF STUDENTS PASSES IN FIRST ATTEMPT	no.OF STUDENTS PASSING OUT WITH DISTINCTION	% OF STUDENTS PASSING WITH DISTINCTION	no. OF STUDENTS PASSING WITH FIRST DIVISION	% OF STUDENTS PASSING WITH FIRST DIVISION	no. OF STUDENTS PASSING WITH SECOND DIVISION	% OF STUDENTS PASSING WITH SECOND DIVISION
1	M.E. COMPUTER ENGG. (with spln in software engg.)	2009-10	18+5 = 23	17+5=22	11+5=16	73%	5+1	27%	6+4	45%	0	0%
		2010-11	18+10 = 28	19+10=29	18+9=27	93%	6+9	52%	11+0	38%	1+0	3%
		2011-12	18+10 = 28	19+10=29	18+10=28	97%	7+7	48%	11+2	46%	0+1	3%
2	M.E. Indust. Engg. & Mgmt.	2009-10	18+5 = 23	10+5=15	10+5=15	100%	3+1	27%	7+4	73%	0	0%
		2010-11	18+10 = 28	6+10=16	6+9=15	94%	2+1	19%	4+7	69%	0+1	6%
		2011-12	18+10 = 28	14+10=24	14+5=19	79%	4+4	33%	9+1	42%	1+0	4%
3	M.E. (Electronics with spln in Digital Instrumentation)	2009-10	18+5 = 23	14+5=19	10+4=14	74%	0+1	5%	9+3	63%	1+0	5%
		2010-11	18+10 = 28	17+10=27	15+7=22	81%	1+1	7%	13+5	67%	1+1	7%
		2011-12	18+10 = 28	16+9=25	13+4=17	68%	7+0	28%	6+4	40%	0+0	0%

4	M.E. Information Security	2009-10	18+5 = 23	17+4=21	15+2=17	81%	7+1	38%	8+1	43%	0	0%
		2010-11	18+10 = 28	17+12=29	17+11=28	97%	5+1	21%	10+10	69%	2	7%
		2011-12	18+10 = 28	18+10=28	14+10=24	86%	4+5	32%	9+5	50%	1+0	4%
5	M.E. (Electronics with spln in Digital Communicatio n)	2009-10	18+5 = 23	17+5=22	15+2=17	77%	3+0	14%	8+2	45%	4+0	18%
		2010-11	18+10 = 28	18+10=28	9+4=13	46%	2+0	7%	6+3	32%	1+1	7%
		2011-12	18+10 = 28	19+10=29	17+10=27	93%	5+0	17%	12+7	66%	0+3	10%
6	M.E. Design & Thermal Engg.	2009-10	18+5 = 23	12+5=17	12+5=17	100%	7+5	71%	5+0	29%	0+0	0%
		2010-11	18+10 = 28	11+14=25	9+13=22	88%	5+8	52%	4+5	36%	0+0	0%
		2011-12	18+10 = 28	15+10=25	13+8=21	84%	4+5	36%	8+3	44%	1+0	4%
7	B.E. Mechanical Engg.	2009-10	60	60	48	80%	7	12%	32	53%	9	15%
		2010-11	60	60	53	88%	13	22%	27	45%	13	22%
		2011-12	60	60	45	75%	2	3%	27	45%	16	27%
		2012-13	60	60	59	98%	15	25%	28	47%	16	27%
8	B.E. Computer Engg.	2009-10	120	120	88	73%	25	21%	49	41%	14	12%
		2010-11	120	120	111	93%	43	36%	49	41%	19	16%
		2011-12	120	120	97	81%	31	26%	51	43%	15	13%
		2012-13	120	120	116	97%	26	22%	74	62%	16	13%
9	B.E. Electronics & Inst. Engg.	2009-10	60	60	38	63%	10	17%	21	35%	7	12%
		2010-11	60	60	49	82%	9	15%	16	27%	24	40%
		2011-12	60	60	43	72%	9	15%	24	40%	10	17%
		2012-13	60	60	42	70%	9	15%	25	42%	8	13%
10	B.E. Electronics & Telecommuni cation Engg.	2009-10	120	120	93	78%	22	18%	46	38%	25	21%
		2010-11	120	120	105	88%	22	18%	55	46%	28	23%
		2011-12	120	120	89	74%	25	21%	42	35%	22	18%
		2012-13	120	120	106	88%	27	23%	48	40%	31	26%
11	B.E. Information Technology	2009-10	120	120	90	75%	43	36%	32	27%	15	13%
		2010-11	120	120	113	94%	39	33%	58	48%	16	13%
		2011-12	120	120	101	84%	35	29%	48	40%	18	15%
		2012-13	120	120	103	86%	35	29%	54	45%	14	12%

12	B.E. Civil Engg.	2009-10	60	60	47	78%	10	17%	28	47%	9	15%
		2010-11	60	60	53	88%	13	22%	31	52%	9	15%
		2011-12	60	60	51	85%	7	12%	28	47%	16	27%
		2012-13	60	60	55	92%	17	28%	30	50%	8	13%

Total

2.2 Catering to Diverse Needs of Students

2.2.1 A. Record of organization of orientation/ induction programme for freshers YES

B. Details such as the duration, issues covered, experts involved and mechanism for using the feedback in subsequent years. YES , File No 2.2.1

2.2.2 A. Record of analysis of the "differential requirements of the student population" after admission and before the commencement of classes

B. Record of key issues identified and addressed

File No 2.2.2

2.2.3 A. Record of bridge/remedial/ add-on courses B. Time table and details of the courses offered in the department-wise for all courses
File No. 2.2.3

-

2.2.4 A. Record of the academic growth of students from disadvantaged sections of society, economically disadvantaged, physically handicapped, slow learners, etc

File No. 2.2.4

B. Main findings?

2.2.5 Record of identification and responses to the learning needs of advanced learners

File No 2.2.5

2.3 Teaching-Learning Process

2.3.1 Records of Plan and organisation of the teaching, learning and evaluation schedules (teaching plan, evaluation schedules and methods, etc.) File No. 2.3.1

2.3.2 A. Record and website info of providing course outlines and course schedules prior to the commencement of the academic session

B. Methods used for effective implementation File No. 2.3.2

2.3.3 A. Record of difficulties in completing the curriculum within the stipulated time frame and calendar NO

B. Write up of the challenges encountered and the departmental measures to overcome these. NO

2.3.4 A. Record of student-centric learning activities

B. List of participatory learning activities which are adopted by the faculty that contributes to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.

File No 2.3.4

2.3.5 List, record with photographs of activities such as invited experts/people of eminence to deliver lectures and/or organize seminars for students

File No 2.3.5

2.3.6 Record of Encouragement to blended learning by using e-learning resources

File No 2.3.6

2.3.7 Record of facilities such as virtual laboratories, e-learning, open educational resources and mobile education used by the faculty for effective teaching File No 2.3.7

2.3.8 Record of activities of designated group among the faculty to monitor the trends and issues regarding developments in Open Source Community and integrate its benefits in the university's educational processes File File No 2.3.8

2.3.9 Record of steps taken to convert traditional classrooms into 24x7 learning places

22 class rooms has LCD Projectors computers and with wi-fi access.

File No 2.3.9

2.3.10 A. Record of actions taken to avail the services of counsellors/mentors/advisors for each class or group of students for academic, personal and psycho-social guidance

Mentors allotted for each group of students to take care academic , social and career needs of the students.

B. Details of the process and the number of students who have benefitted.

File No 2.3.10

2.3.11 A. Record of innovative teaching approaches/methods/practices adopted/put to use by the faculty during the last four years?

B. Write up of improvement in learning by innovative methods

C. Record of recognition to the faculty due recognition for innovation in teaching

File No 2.3.11

2.3.12 Record of actions for creating e a culture of instilling and nurturing creativity and scientific temper among the learners

File No 2.3.12

2.3.13 A. Record of student projects (if mandatory in each of the learning programme)

170 YES

B. Number of projects executed within the university 170 File No.2.3,13A-B

C. Names of external institutions associated with the University for Student Project Work

1. RRCAT
2. Eicher Motors
3. Mahindra Two Wheelrs etc

D. Role of faculty in facilitating such projects YES

File No 2.3.13C

2.3.14 A. Record of shortfall in qualified faculty to meet the requirements of the curriculum

YES

Only

B. Record of actions for shortfall supplementation YES

Visiting faculties invited to deliver lectures. File No. 2.3.14

2.3.15 Number of percentage of faculty enabled to prepare computer-aided teaching/ learning materials 80%

2.3.16 A. Record of Student feedback for evaluation of teachers by the students YES

B. Record of Alumni feedback for evaluation of teachers by the students NA

C. Methods used and Impact of the evaluation feedback used to improve the quality of the teaching-learning process File No. 2.3.16

2.4 Teacher Quality

2.4.1 Record of how the plan and management of human resources was done to meet the changing requirements of the curriculum File No. 2.4.1

2.4.3 Diversity in its faculty recruitment

Department / School	% of faculty from the same university	% of faculty from other universities within the State	% of faculty from universities outside the State	% of faculty from other countries
IET	36.36	39.4	24.24	0

2.4.4 A. List of qualified faculty appointed for new programmes/emerging areas of study (Bio-technology, Bio-informatics, Material Science, Nanotechnology, Comparative Media Studies, Information Technology, Diaspora Studies, Forensic Computing, Educational Leadership, etc.)? NIL

B. Number of faculty members appointed to teach new programmes during the last four years file No. 2.4.4

2.4.5 List of academic recharge and rejuvenation of teachers YES

A. List of faculty availed and provided research grants by the University

B. List of faculty availed and on study leave

1. Mr Nitin Seth
2. Mr. Suresh Jain
3. Ms Vrinda Tokekar
4. Mr. Nagendra Sohani
5. Mr. Vaibhav Jain
6. Mr. P.D Ashok

C. List of faculty nominated to national/international conferences/seminars, in-service training, organizing national/international conferences etc.

2.4.7 List of faculty received awards / recognitions for excellence in teaching at the state, national and international level during the last four years NO

2.4.8 List of faculty underwent staff development programmes during the last four years (add any other programme if necessary)? YES

	Refresher	Orientation	Workshop
2009-10		03	29
2010-11		02	15
2011-12	02	10	38
2012-13	04	08	41

File No. 2..4.8

2.4.9 Percentage of the faculty have YES

* been invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies = 8.0%
* participated in external Workshops / Seminars / Conferences recognized by national/

international professional bodies = 80 %

* presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies = 75%
* teaching experience in other universities / national institutions and other institutions = 00%
* industrial engagement = 00 %
* international experience in teaching = 00%

2.4.10 List and details of organization of academic development programmes (*e.g.*: curriculum development, teaching-learning methods, examination reforms, content / knowledge management, etc.) for its faculty aimed at enriching the teaching-learning process File No. 2..4.10

2.4.11 A. List of faculty encouraged

* Mobility of faculty between universities for teaching YES
* Faculty exchange programmes with national and international bodies

B. Record of schemes helping in enriching the quality of the faculty by such mobility and faculty exchanges

File No. 2..4.11

2.5 Evaluation Process and Reforms

2.5.3 A. Record of time taken by the department for declaration of examination results each semester File No. 2.5.3 A-B

- Final year Results declared within ten days after completion of exam
- Final year result declared before 15th of May every year

B. Record of means adopted for the mode / media adopted for the publication of examination results (Website, SMS, email, etc.). YES

Results published on institute website and through notice display system.

2.5.4 A. Record of ensuring transparency in the evaluation process YES

Evaluation conducted at central valuation centre.

- Continuous evaluation system is adopted for each subject
  - Three term tests
  - Continuous evaluation of Lab assignments
  - Main theory exam and External practical examination

- Centralized Evaluation System adopted since 2002
- Revaluation and Review system followed

B. Measures taken to ensure confidentiality YES

Roll Numbers in the answer copies hide during ecvaluation.

C. Record of the Pre-examination processes – Examination Time table generation, student list generation, Invigilators, Attendance sheet, YES

D. Results of students course wise and its analysis YES

File No. 2..5.4

2.6. Student Performance and Learning Outcomes

2.6.1 A. Write up of articulation of its Graduate Attributes of the department NO

Objectives & Outcomes of Mechanical Engineering Course at IET-DAVV, Indore (Under Graduate Course)(B.E.)

Mechanical Engineers apply the principles of mechanics and energy to the design of machines and devices. They must be able to control mechanical systems and usually work with other professionals in designing these systems. Automobiles, engines, heating and air-conditioning system, gas and steam turbines, air and space vehicles, trains, ships, servomechanisms, transmission mechanisms, machine tools, material handling systems, elevators and escalators, and robots used in industry are a few of the systems and devices requiring mechanical engineering knowledge.

The Department of Mechanical Engineering offers dynamic educational programs and a faculty poised to deliver quality engineering education. The department also offers studies leading to the Bachelor of Engineering in Mechanical Engineering, Master of Engineering and the Ph.D.

Educational Objectives

I. Graduates will have careers in mechanical engineering related fields and professions.
II. Graduates will continue career planning and engage in professional development through continuing education including: workshops, obtaining professional registration and certificates, participating in conference activities, and graduate studies.
III. Graduates will use their analytical, teamwork, leadership and communication skills to effectively participate in the development of products and finding solutions to problems]sought by local and/or the global community.

Student Outcomes

Graduates of the Mechanical Engineering Program have:

a) an ability to apply knowledge of mathematics, science, and engineering

b) an ability to design and conduct experiments, as well as to analyze and interpret data

c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability

d) an ability to function on multidisciplinary teams

e) an ability to identify, formulate, and solve engineering problems

f) an understanding of professional and ethical responsibility

g) an ability to communicate effectively

h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context

i) a recognition of the need for, and an ability to engage in life-long learning

j) a knowledge of contemporary issues

k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

Objectives & Outcomes of Mechanical Engineering Course at IET-DAVV, Indore (Post Graduate Course)(M.E.) (Specialization in Design & Thermal Engineering)

COURSE OBJECTIVES

Apply scientific and engineering principles to analyze and design aspects of engineering systems that relate to conduction, convection and radiation heat transfer; use appropriate analytical and computational tools to investigate conduction, convection ,radiation heat transfer, Tribology, Vibrations, CAD/CAM; are both competent and confident in interpreting results of investigations related to heat transfer and Design Engineering , recognize the broad technological and historical context of where Thermal Engineering & Design Engineering is important.

DESIRED COURSE OUTCOMES

Ability to apply knowledge of Thermal Engineering & Design Engineering to solve Engineering problems; ability to design, analyze, and interpret data; ability to identify, formulate, and solve related problems; recognition of the importance of Thermal Engineering & Design Engineering historically as well as in contemporary engineering systems.

Objectives & Outcomes of Mechanical Engineering Course at IET-DAVV, Indore (Post Graduate Course)(M.E.) (Specialization in Industrial Engineering & Management)(IEM)

Course Objectives:

The Industrial and Management Engineering focuses on the engineering and management of production and service systems, which include discrete manufacturing, process industry, banking and investment, and the public sector. Industrial engineers design, operate, and manage these systems for the purpose of improving efficiency, quality, productivity, and safety at minimum cost, while protecting people, property, and the environment.

Course Outcomes:

Due to their unique educational background, which consists of both engineering and management sciences, industrial engineers have the capability to make significant contributions to different organizations by performing a wide range of activities and tasks. IEM is considered as the most people-oriented discipline among various engineering disciplines. With strong background in operational analysis, Industrial engineers have the ability to manage complex projects and systems. The IEM program focuses on such areas as quality engineering and management, economical engineering decision support system, productivity and supply chain management, and ergonomics and safety.

Objectives & Outcomes of Computer Engineering Course at IET-DAVV, Indore (Under Graduate Course)(B.E.)

Computer engineers have to work with software, hardware or applications and system development. They have to keep the quality factors of such as performance, load sharing, reliability, usability, dependability in computers. The expectations from a computer engineer are developing full-fledged product solutions. This involves imagining, conceptualizing, developing and designing new solutions for systems based on the needs of the end user, testing and troubleshooting various aspects such as hardware, software programs and networking systems. Computer engineers may also be involved in the development of system support, systems documentation, hardware support and consulting position.

The Department of Computer Engineering, offers the B.E. (Computer Engineering), M.E (Computer Engineering), PhDs programs. The B.E. program is designed to give students a methodical undergraduate education grounded in the principles and applications of computer engineering. The program also develops the ability of the student to solve computer engineering

problems. The curriculum prepares the students for competent, responsible, and rewarding careers in the computer engineering profession. The department prepares students for successful completion of a graduate degree, prepares the students for the M.E. (Computer Engineering) and PhD programs.

Educational Objectives

1. Development of multifaceted qualities like support, leadership and being a knowledge worker in multidisciplinary teams to improve the productivity.
2. To recognize needs of the society and understand the constraints for the delivery of solutions. To help in their professional endeavours, and practice their profession with high regard to legal and ethical responsibilities.
3. To engage in life-long learning, such as graduate study, to remain current in their profession and be leaders in our technological society.

Student Outcomes

Students in the Computer Engineering program should, at the time of their graduation, be in possession of:

a. an ability to apply knowledge of mathematics, probability & statistics, computer science, and engineering as it applies to the fields of computer software and hardware,
b. an ability to design and conduct experiments, as well as to organize, analyze, and interpret data,
c. an ability to design and construct a hardware and software system, component, or process to meet desired needs, within realistic constraints such as economic, environmental, social, political, ethical, health & safety, manufacturability, and sustainability,
d. an ability to function on multidisciplinary teams,
e. an ability to identify, formulate, and solve hardware and software problems using sound computer engineering principles,
f. an understanding of professional, legal, and ethical issues and responsibilities as it pertains to computer engineering,
g. an ability to effectively communicate technical information in speech, presentation, and in writing,
h. the broad education necessary to understand the impact of computing in a global, economic, environmental, and societal context,
i. a recognition of the need for an ability to engage in lifelong learning,
j. a knowledge of contemporary issues, and
k. an ability to use the techniques, skills, and modern hardware and software tools necessary for computer engineering practice.

Objectives & Outcomes of Computer Engineering Course at IET-DAVV, Indore (Post Graduate Course)(M.E.) (Specialization in Software Engineering)

Course Objectives

Students learn the concepts of software engineering and focus on principles of systems analysis, design, implementation and testing. The course focuses on the various aspects of cost-effective software development of high-quality software. The course also has lab assignments, exposure to case studies and projects to improve their practical skills. Subject such as, Advanced Computer Architecture, Computer Networks and Software Constructions are based on the modern and recent development in the internal workings of the computer systems, designing and implementing a computer network and develop programming and coding skills. The subjects like object oriented analysis, object oriented design and software construction help the students to analyse, design and develop a software system. These skills are necessary to plan and conduct complex systems development projects to meet customer needs and integrate software solutions into an evolving business environment.

COURSE OUTCOMES

The development of professional skills, and ethics in students. The course provides conceptual frameworks, methods, technologies and hands-on experience necessary for software development. All this forms a basis for a career in the software industry. Students also acquire specialised knowledge of specific topics, particularly in the area of software development and database systems, and networking. After completion of the course on M.E (Software Engineering) a students should be able to solve specific problems alone or in teams, manage a project from beginning to end, work independently as well as in teams, define, formulate and analyse a problem.

B.E. (Information Technology)

To prepare students to apply their knowledge and multifaceted skills to be employed and excel in IT professional careers and/or to continue their education in IT and/or related post graduate programmes.

Program Objective 1

To provide students, knowledge in mathematical, scientific and basic engineering fundamentals necessary to formulate, analyze and solve hardware/software engineering problems and/or also to pursue advanced study or research.

Program Objective 2

To train students with good **breadth** of knowledge in core areas of Information Technology and related engineering so as to comprehend engineering trade-offs, analyse, design, and synthesize data and technical concepts to create novel products and solutions for the real life problems.

Program Objective 3

To inculcate in students to maintain high professionalism and ethical standards, effective oral and written communication skills, to work as part of teams on multidisciplinary projects and diverse professional environments, and relate engineering issues to the society, global economy and to emerging technologies.

Program Objective 4

To provide our graduates with learning environment awareness of the life-long learning needed for a successful professional career and to introduce them to written ethical codes and guidelines, perform excellence, leadership and demonstrate good citizenship.

To Inculcate:

Learning Outcomes

1.An ability to apply knowledge of mathematics, including discrete mathematics, probability, Statistics, Science, Computer Science and Engineering, ElectronicsEngineering and Electrical Engineering as it applies to computer hardware and software.

2.An ability to design and conduct experiments, as well as to organize, analyze and interpret data to produce meaningful conclusions and recommendations.

3.An ability to design hardware and software systems, components, or processes to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability.

4.An ability to work individually or as a member with responsibility to function on multi-disciplinary teams with improved interpersonal relationship skills.

5.An ability to identify, define, formulate, and solve hardware and software computing problems, accounting for the interaction between hardware and software.

An understanding of professional, legal, and ethical issues and responsibilities.

6.An ability to communicate effectively in speech and in writing, including documentation of hardware and software systems.

7. An ability to show the understanding of impact of engineering solutions in a global on the society, economic, environmental.

8. Learning skills so to acquire new knowledge in the computing discipline and to be engaged in life-long learning. Also to learn and apply knowledge of contemporary issues in the social sciences and the humanities using computational tools.

9.An ability to use the techniques, skills, and modern engineering tools necessary for electronics based (mainly computer)engineering practice.

10.An ability to apply engineering and management skills, knowledge and techniques to estimate time and resources needed to complete anIT Solution Project.

11.An ability to recognize the importance of professional development by pursuing postgraduate studies or face competitive examinations that offer challenging and rewarding careers in computing.

(i) Advanced knowledge in:

Database Management, Artificial Intelligence, Information Security, MIS and ERP, Advanced Computer Architecture, Soft Computing,Software Testing, Software Engineering, Object Oriented Analysis and Design, Parallel Processing, and Cloud Computing.

(ii) Ability for employment in:

- Software Companies as Software Developer, System Engineer, System Manager, System Analyst,Software Tester etc.
- Consulting Firms in domain like ERP, Information Security, Data Analysis and Cloud Computing.
- IT Officers in various Govt and Semi-Govt Organizations, Armed Forces, Banks and Insurance Companies.
- Higher education as teacher, and Scientist in Research Organization.

(iii) Ability for Higher Education and Research in the areas of (but not limited to)

Soft Computing,Robotics,Data Mining and Warehousing, Cloud Computing,Management Information System,Knowledge Discovery, Security Algorithm Designing, Graphics and Animation, System Engineering, Modelling, Simulation, System Dynamics and Project Management.

B.E.(Civil Engineering)

Objectives

Civil engineering program is to provide students with a broad and thorough education in civil engineering fundamentals, applications, and design that prepares them for the practice of civil engineering at the professional level with the confidence and skills necessary to meet the technical and social challenges of the future. The program provides a broad and thorough education in mathematics, physics, chemistry, engineering mechanics, and civil engineering, coupled with application of modern engineering tools. Graduates will attain the skills for entry level civil engineering positions leading to professional engineering registration, and will have a solid undergraduate foundation in general civil engineering principles, enabling continued education at advanced levels.

Civil Engineering Program is committed to prepare students for:

1.Become competent and engaged engineering professionals, applying their technical and managerial skills in the planning, design, construction, operation or maintenance of the built environment and global infrastructure, and utilizing their skills to analyse and design systems, specify project methods and materials, perform cost estimates and analyses, and manage technical activities in support of civil engineering projects.

2. Initiated an active program of life-long learning, including studies leading to professional licensure or an advanced degree in engineering that provides for continued development of their technical abilities and management skills, and attainment of professional expertise.

3. Developed their communication skills in oral, written, visual and graphic modes when working as team members or leaders, so they can actively participate in their communities and their profession.

4. Established an understanding of professionalism, ethics, quality performance, public policy, safety, and sustainability that allows them to be professional leaders and contributors to society when solving engineering problems and producing civil engineering solutions.

Learning Outcomes

Inculcate Fundamental knowledge:

1.To apply knowledge of mathematics, science, and engineering to solve civil engineering problems and design civil engineering projects.

2.To design and conduct experiments, as well as to analyse and interpret data.

3.To design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

4.To function on multidisciplinary teams and improved interpersonal communication skills. To develop an ability to communicate effectively.

5. To get the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.

6. To use the techniques, skills, and modern engineering tools necessary for engineering practice.

Advanced knowledge in:

1.Mathematics through differential equations, calculus-based physics, chemistry, and at least one additional area of science.

2. Key technical areas appropriate to civil engineering, including but not limited to Structural, Geotechnical, Transportation, Environmental and Water Resources Engineering.

3. Management, business, public policy and leadership, man power handling, vendor negotiation, instruments handling and professional liaison.

Learning Outcomes

Ability for employment in/as

Real estate industry and focus on infrastructure development,Architecting as well as construction and Engineering services firms.

Transportation and Aviation fields, Railways, Highway Authorities, Govt Departments like Public Works, Electricity Boards and RES. Armed Forces.

Market researcher, technology analyst, and futurist.

Higher education as teacher and as Scientist in Research Organizations.
Independent Consultant.

Ability for higher education and research in the areas of

Construction Engineering & Management, Environmental Engineering & Science, Geotechnical,Materials,Structural, Transportation,Water Resources, Mining, Petroleum etc.

Programme Objectives and Learning Outcomes:

B.E. (Information Technology)

To prepare students to apply their knowledge and multifaceted skills to be employed and excel in IT professional careers and/or to continue their education in IT and/or related post graduate programmes.

Program Objective 1

To provide students, knowledge in mathematical, scientific and basic engineering fundamentals necessary to formulate, analyze and solve hardware/software engineering problems and/or also to pursue advanced study or research.

Program Objective 2

To train students with good **breadth** of knowledge in core areas of Information Technology and related engineering so as to comprehend engineering trade-offs, analyse, design, and synthesize data and technical concepts to create novel products and solutions for the real life problems.

Program Objective 3

To inculcate in students to maintain high professionalism and ethical standards, effective oral and written communication skills, to work as part of teams on multidisciplinary projects and diverse professional environments, and relate engineering issues to the society, global economy and to emerging technologies.

Program Objective 4

To provide our graduates with learning environment awareness of the life-long learning needed for a successful professional career and to introduce them to written ethical codes and guidelines, perform excellence, leadership and demonstrate good citizenship.

To Inculcate:

Learning Outcomes

1.An ability to apply knowledge of mathematics, including discrete mathematics, probability, Statistics, Science, Computer Science and Engineering, ElectronicsEngineering and Electrical Engineering as it applies to computer hardware and software.

2.An ability to design and conduct experiments, as well as to organize, analyze and interpret data to produce meaningful conclusions and recommendations.

3.An ability to design hardware and software systems, components, or processes to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability.

4.An ability to work individually or as a member with responsibility to function on multi-disciplinary teams with improved interpersonal relationship skills.

5.An ability to identify, define, formulate, and solve hardware and software computing problems, accounting for the interaction between hardware and software.

An understanding of professional, legal, and ethical issues and responsibilities.

6.An ability to communicate effectively in speech and in writing, including documentation of hardware and software systems.

7. An ability to show the understanding of impact of engineering solutions in a global on the society, economic, environmental.

8. Learning skills so to acquire new knowledge in the computing discipline and to be engaged in life-long learning. Also to learn and apply knowledge of contemporary issues in the social sciences and the humanities using computational tools.

9.An ability to use the techniques, skills, and modern engineering tools necessary for electronics based (mainly computer)engineering practice.

10.An ability to apply engineering and management skills, knowledge and techniques to estimate time and resources needed to complete anIT Solution Project.

11.An ability to recognize the importance of professional development by pursuing postgraduate studies or face competitive examinations that offer challenging and rewarding careers in computing.

(iv) Advanced knowledge in:

Database Management, Artificial Intelligence, Information Security, MIS and ERP, Advanced Computer Architecture, Soft Computing,Software Testing, Software Engineering, Object Oriented Analysis and Design, Parallel Processing, and Cloud Computing.

(v) Ability for employment in:

- Software Companies as Software Developer, System Engineer, System Manager, System Analyst,Software Tester etc.
- Consulting Firms in domain like ERP, Information Security, Data Analysis and Cloud Computing.
- IT Officers in various Govt and Semi-Govt Organizations, Armed Forces, Banks and Insurance Companies.
- Higher education as teacher, and Scientist in Research Organization.

(vi) Ability for Higher Education and Research in the areas of (but not limited to)

Soft Computing,Robotics,Data Mining and Warehousing, Cloud Computing,Management Information System,Knowledge Discovery, Security Algorithm Designing, Graphics and Animation, System Engineering, Modelling, Simulation, System Dynamics and Project Management.

BE (Electronics & Instrumentation)

Course Objectives:

1. To teach fundamentals necessary for formulating, solving and analysing the problems of importance in domains of Engineering & Technology

2. To develop and groom students for having expertise in the areas of Electronics, Instrumentation, Control and related fields.

3. To guide and motivate students for innovation, entrepreneurship and capability development for providing simple solutions to the industrial and societal problems.

4. To groom students for possessing good communication and interpersonal skill and be a leader in their area of expertise

5. To inculcate values in students for taking up developmental projects/assignments of importance to society, industry and the nation.

Course Outcomes:

1. Generation of motivated workforce capable of designing, operating and maintaining process plants and other electronic industrial units.

2. Creation of manpower willing to take challenging assignments, innovate, and provide solutions to the problems of industry and Country.

3. Manpower development having awareness regarding professional, social and ethical responsibilities

4. The Institute shall act as a regional centre for generation and dissemination of knowledge pool in the area of Instrumentation Technology

ME (Digital Instrumentation)

Course Objectives:

1. To undertake knowledge and skill up-gradation of graduate students in the specialised area of digital Instrumentation.
2. Human resource development in the area of process design, instrumentation and automation to cater to the local and global needs.
3. To train students for undertaking advanced research and developmental activities in the area of instrumentation.
4. Enrichment of knowledge and expertise

Course Outcomes:

1. Generation of specialized manpower capable of providing indigenous solutions to the problems being faced by industrial units of the region and outside.

2. Manpower development with effective communication skills for teaching the graduate students and training manpower.

3. Highly skilled manpower development for undertaking research and development in the area of Instrumentation.

BE (Electronics & Communication)

Course Objectives:

1. To teach the basics of science, mathematics and engineering practice as necessary for the use in the study of the subject of Electronics and communication.

2. To inculcate culture of innovation and synthesis of systems and processes for solving the issues related with Electronics design and communication strategies

3. To train and equip students with the latest of software tools and hardware configurations so that they are amongst the best in academia.

4. To train and equip students with effective communication skills for global as well as local needs.

5. To equip students with the necessary professional and ethical traits so that they earn a respectable and equitable position in the Society

Course Outcomes:

1. Generation of manpower with the ability to design, develop and test circuits and systems related to analog/digital/mixed signal based electronics, and telecommunication engineering.

2. Generation and dissemination of knowledge and expertise among peers through Conferences, symposia etc., leading to the creation of knowledge pool in the area at the Institute.

3. Manpower development with good communication skills and potential to undergo for higher studies in Institutes of repute in India and abroad.

4. Generation of human resource with requisite technical and professional competence to earn job opportunities in leading organisations.

ME (Digital Communication)

Course Objectives:

1. Indigenous technology development and skill up-gradation in the area of electronics design and communication technology.
2. Human resource development capable of solving complex problems in the area of Electronics and communication system.
3. To imbibe virtues of experimentation, product development, and devising innovative strategies in the area Communication Technology.
4. Enrichment of knowledge and expertise

Course Outcomes:

1. Generation of specialized manpower capable of providing indigenous solutions to the problems being faced by industrial units of the region and outside.

2. Manpower development with effective communication skills for teaching the graduate students and training manpower.

3. Skilled manpower development for undertaking research and development in the area of Electronics and communication technology.

4. Undertaking training programs for industry; arranging conferences and symposiums for dissemination

Objectives & Outcomes of M.Sc. (Applied Mathematics) with specialization in Computing and Informatics (under Faculty of Engineering) Course at IET-DAVV, Indore (Graduate Course)

In the last decade, there has been an unprecedented growth in areas of Information Science, Communication and Computing. Because of this fast growth, several abstract and core areas seem to be loosing out on their due importance. On the other hand, there lie several newer challenges, which require solutions out of these very concepts. There is requirement of synergy between different fields/ areas so that critical problems are offered innovative solutions. This has resulted in increased demand of the personnel in Industry who are well versed with abstract concepts in Mathematical Modeling & Simulation and are capable to apply them in area of Computer and Information Technology.

Keeping in mind the current and future needs of the industry and academia, M.Sc. (Applied Mathematics) Program was initiated by the Institute's Department of Applied Sciences (under Faculty of Engineering) in 2006. The program is specialized in the area of Computing and Informatics. The course structure has been so planned that the candidate after passing out shall not only be master of certain concepts and practices of Mathematical Modeling, but shall be able to interplay between Mathematics and Applications, specially in the field of Computing and Informatics.

A proportionate mix of theoretical and applied aspects of Mathematics with Computer Science and Information Technology is taught during the first three semesters. The theoretical study, supplemented with relevant laboratory work, enhances the problem solving skills. Dissertation work in the final semester provides a base of independent thinking through a major project assignment.

The Department of Applied Sciences also offers a Ph.D. program in Applied Mathematics.

Educational Objectives of the Course:

The objective of the course is:

- To develop basic skills of problem solving in an efficient and effective way.
- To explore Computer Science for promoting research and development.
- To develop manpower for problem solving at mathematical level and support Information Technologists.
- To provide placement opportunities to B.Sc./B.C.A. enthusiasts in the IT/Software sectors.
- To transform graduate enthusiasts to specialists.

Outcome of the Course:

After completing this course, the students:

- can pursue M.Phil. (Applied Mathematics/CS), M.Tech. (CS/ Future studies) and Ph.D. (Mathematics/ Applied Mathematics/ CS/ Future studies).
- can appear in GATE (Mathematics/CS), NET (Applied Mathematics/CS) and UGC CSIR fellowship exams too, required for eligibility of JRF/SRF/Lecturership.
- (Eligible candidates) are allowed to appear in the recruitment tests conducted by Giant companies such as TCS, Infosys and CSC, clearing after which they are placed in IT/Software sectors.

B. Record of facilitation of monitor the implementation and outcome

2.6.2 A. Record of learning outcomes for its academic programmes NO

B. Record of making students and staff are made aware of these

2.6.3 Write up of department teaching, learning and assessment strategies structured to facilitate the achievement of the intended learning outcomes NA

2.6.4 Record of collection and analysis of data on student learning outcomes and use it to overcome the barriers to learning NA

2.6.5 Write up of new technologies deployed by the department in enhancing student learning and evaluation and how does it seek to meet fresh/ future challenges. We have procured number of advance equipments and softwares in laboratories like Qualnet, MATLAB, ProE, Collab Cad, etc to enhance the research quality to meet global requirement. Classrooms are well equipped with multimedia projectors. We also provide assignments to students related to research articles published in International journals of repute to enhance learning of current research areas and to prepare them for future challenges.

2.6.6 Any other information regarding Teaching, Learning and Evaluation which the department would like to include**.**

N A

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

III.1 Year-wises Publications in the department: YES

Research Papers	2012-13	2011-12	2010-11	2008-09
Inter. Journal	37	39	29	10
Nat. Journal	20	12	08	04
Int. Conf.	07	30	21	14
Nat. Conf.	06	28	22	19
Total	72	109	80	47

III.2 Number of papers published in peer reviewed journals (national / international)
YES

Monographs
Chapters in Books
Edited Books
Books with ISBN with details of publishers
Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
Citation Index – range / average
SNIP
SJR
Impact Factor – range / average
h-index

III.3 List and Records and Details of patents and income generated NO

III.4 List and Record of Areas of consultancy and income generated NO

III.6 List and Record of Faculty selected nationally/internationally to visit other laboratories in India and abroad

Dr. Shashi Prakash YES

III.6 List and Record of Faculty serving in

National committees b) International committees c) Editorial Boards d) any other (please specify) NO

III.7 Research thrust area recognized by funding agencies for the department

III.8 Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies and grants received project-wise. NO

III.9 List and details of Inter-institutional collaborative projects and grants received NO

All India collaboration b) International

III.10 List and details of Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, etc.; total grants received.

NO

III.11 List and Details of Research facility / centre with

NO

- state recognition
- national recognition
- international recognition

III.12 List and details of Special research laboratories sponsored by / created by industry or corporate bodies NO

3.1 Promotion of Research YES

3.1.1 A. Composition of Departmental Research Committee, List of members and minutes of its meeting

B. Records of DRC regarding monitoring and addressing issues related to research

File No. 3.3.1

Computer Engineering	1	Dr (Mrs) V Tokekar(Comp)
	2	Dr Ajay Verma
	3	Dr Gend Lal Prajapati (Comp)
	4	Dr Shashiprakash(Comp)
	5	Dr Sanjiv Tokekar
	6	Mrs Meina Sharma(Comp)
Applied Physics	1	Dr A K Dutta(App Phy)
	2	Dr Pratima Sen(App Phy)
	3	Dr S Kumbhaj(App Phy)
	4	Dr Ajay Verma
	5	Dr Sanjiv Tokekar

Applied Mathematics	1	Dr A K Ganguly(App Maths)
	2	Dr U D Tapi(App Maths)
	3	Dr Ajay Verma
	4	Dr Sanjiv Tokekar
Applied Chemistry	1	Dr A V Bajaj(App Chem)
	2	Dr Ajay Verma(App Chem)
	3	Dr Nitin Sapre(App Chem)
	4	Dr Sanjiv Tokekar
Electronics and Telecomm	1	Dr Sanjiv Tokekar(E&TC)
	2	Dr Abhay Verma(E&TC)
	3	Dr Ajay Verma(E&TC)
	4	Dr Rajkamal(E&TC)
	5	Dr Shashiprakash(E&TC)
Mechanical Engineering	1	Dr Ajay Verma
	2	Dr Ashesh Tiwari(Mech)
	3	Dr Govind Maheshwari (Mech)
	4	Dr Nagendra Sohani(Mech)
	5	Dr Sanjiv Tokekar

C. Record of DRC recommendations which have been implemented and their impact.

PhD candidates selected for the course work.

3.1.2 Information of research centers in its affiliated / constituent colleges which are monitored by the DRC of the department NO

3.1.3 Details of the NO

* advanced funds for the sanctioned projects
* providing seed money
* Simplification of procedures related to sanctions / purchases to be made by the investigators
* Autonomy to the principal investigator/coordinator for utilizing overhead charges
* Timely release of grants
* Timely auditing
* Submitted utilization certificates to the funding authorities

Membership fee of international and national bodies reimbursed (50% -70%) and PhD guides are reimbursed Rs 650/ as internet chargeson residential phone.

3.1.4 Record of interdisciplinary research promoted NO

* with other departments /schools of the university and
* collaboration with national/international institutes/industries

3.1.5 Details of workshops/ training programmes/ sensitization programmes conducted by the department to promote a research culture on campus

Sr.	Conference/ Workshop /Seminar/Training	Date
1	"**Aakash Android Application Programming**" : An online workshop through virtual classroom conducted by IIT Bombay for Students on developing applications for Aakash Tablet device.	23rd - 24th Feb. 2013, 2nd -3rd March 2013
2	**"Research Methodology in Education Technology":** An online workshop through virtual classroom conducted by IIT Bombay for faculty	2nd Feb. and 9th Feb. 2013
3	**Training on network simulation software "Qualnet"** for PG students and faculty	4th February2013, 22nd March'2013(scheduled)
4	**"Aakash for Education"** An online ISTE workshop through virtual classroom conducted by IIT Bombay for faculty	09 -10 November 2012
5	"**Me and My Project**": A workshop for giving guidance to PG students undergoing projectwork.	15th September 2012
6	**"Introduction to Research Methodologies"** An online ISTE workshop through virtual classroom conducted by	25th June - 04th July 2012

	IIT Bombay under NMEICT for faculty	

Title	Manufacturing Excellence Program (MEP) Foundation Course
Workshop Coordinator	Dr. Ashish Tiwari
Date	23 June - 24 September '2008
Organizing department name	Mechanical Engineering Dept ,IET-DAVV
No of participants	17
No of Speakers	11
Photograph of Workshop	Attached

Workshop Details: 23 June -24 September '2008

Speaker Details:

All Faculty Members of Mechanical Engineering Department.

Particulars of Participants:

Hemant Deshputre Devarshu M. Dusane R.C.Kaushal

Rishikesh Karulkar Pramod H. Mathane Milind Tare

Prabir Kumar Nandi Lokendra S. Baghel Subash Chandra Muduli

Sharad Zope Chandra Bhan Yadav Ram Pratap Singh

Ajay Dhamdhere S. Muthusamy Manoj Sinha

Om Prakash Pawar Gajanan Enchalwar

Photograhps:-

Workshop Details: : 14-17 January 2009

Title	:	Collab CAD Software Workshop
Workshop Coordinator	:	Dr. Ashish Tiwari
Date	:	14-17 January 2009
Organizing department name	:	Mechanical Engineering Dept.
No of participants	:	12
No of Speakers	:	01(Mr. K.S.Nagesh)
Photograph of Workshop	:	Attached

Speaker Details:

Name	College	Designation
Mr. K.S.Nagesh,	National Informatic Centre, New Delhi	Technical Consultant,

Particulars of Participants:

Dr. Ashish Tiwari

Dr. Nagendra Sohani

Mr.Vijay Karma

Mrs. Suwarna Torgal

Mr.Ajit Bergaley

Mr.Sharad Choudhary

Mr.Santosh Kansal

Mr. Devndra Verma

Dr. Govind Maheshwari

Title	:	Software Training for SAE BAJA
Workshop Coordinator	:	Mr. Ibrahim Hussain ,Mr. Amit Gupta
Date	:	8 July 2011- 10 July 2011
Organizing department name	:	Mechanical Engineering Dept.
No of participants	:	114(27 Colleges from all over India)(List Attached)
No of Speakers	:	04
Photograph of Workshop	:	Not Available

Photographs:-

Workshop Details: 8 July 2011 – 10 July 2011

Speaker Details:

Name	College	Designation
Mr. Atil Vidharti	Dassaut Systems,Banglore	
Mr Rajiv Aramdaka	Dassaut Systems,Banglore	
Mr. Shir Prakash	PTC ,Banglore	
Mr. Pradeepak	CSM,Banglore	

Particulars of Participants:

All Faculty members of Mechanical Engineering Department.

3.1.6 A. Details of visits of researchers of eminence to visit the campus as adjunct professors

NO

B. Impact of such efforts on the research activities of the university

Sr.	Activity
1	Dr. Devendra Pratap Singh, Distinguished Professor at IIT-BHU delivered talk on **"Vision of Mahamana Madan Mohan Malviya for Engineering Education in India"** on 4th January'2013. The talk was chaired by Hon'ble Vice Chancellor of Devi Ahilya VishwaVidyalaya Dr. Dhirendra Pal Singh. It was attended by more than 350 persons.
2.	Dr. K.P. Singh, Professor emeritus at IIT-BHU delivered talk on **"Remote sencing and its applications"** on 6th January'2013
3	Dr. Manoj Singh Gour, Professor MNIT Jaipur delivered expert lecture on **"Network on Chip"** on 19th January 2013
4	Prof. Kehar Singh, Ex emeritus Professor of IIT-Delhi, delivered expert lecture on

	"Optical Cryptography" on 13th March 2013

Workshop Coordinator	Dr. Ashish Tiwari
Date	14-17 January 2009
Title	Collab CAD Software Workshop
Organizing department name	Mechanical Engineering Dept.
No of participants	12
No of Speakers	01(Mr. K.S.Nagesh)
Photograph of Workshop	Attached

Workshop Details:

Date 4th June -14th June , 2013

Title Two Week ISTE Workshop on Analog Electronics

Organizing By (College/dep Name) E&TC Engg Dept , Institute of Engineering and

Technology, DAVV, Indore

No of participants 22

Photographs of Workshop Attached

Date 15th Sep , 2012

Title Me and My Project

Organizing By (College/dep Name) E&TC Engg Dept , Institute of Engineering and

Technology, DAVV, Indore

No of participants 130

Photographs of Workshop Attached

3.1.7 A. Percentage of the total budget of the department which is earmarked for research

Year	2009-10	2010-11	2011-12	2012-13
%	0.07	0.08	0.13	0.6875

B. Details of heads of expenditure, financial allocation and actual utilization

Year	2009-10	2010-11	2011-12	2012-13
Provision (In Rs)	2,00,000	3,00,000	3,00,000	5,00,000
Expenditure (In Rs)	34,487	1,12,293	1,47,170	1,79,412

3.1.8 A. Details of University funded research and awarded Post Doctoral Fellowships/Research Associate ships NO

B. List of students registered with record of source of funding by the university and other sources NO

3.1.10 A. List and percentage of faculty which have utilized the sabbatical leave for pursuit of higher research in premier institutions within the country and abroad

01 % faculty

1. Dr. Nitin Seth
2.Mr. Vaibhav Jain
3 Dr. Shashi Prakash
4. Mr. P.D.Ashok

B. Record of the output of these scholars

3.1.11 A. Details with photographs of national and international conferences organized

Date	14-15 October 2011
Title	Design and Analysis of Mechanical System,Using optimization Techniques
Organizing Department Name	Mechanical Engineering Department,IET,DAVV,Indore
No of Participants	117 (List Attached)
Photograph of Workshop	Attached

Speaker Details

Name	College	Designation
Dr.S.V.Modak	IIT,New Delhi	Professor
Dr. Sahani	Teri University,New Delhi	Professor
Dr. M.L.Jain	SGSITS,Indore	Professor
Dr. K.Tripathi	SGSITS,Indore	Professor
Dr.R.C.Gupta	SGSITS,Indore	Professor

- Two days National seminar in collaboration with Institution of Engineers India on "Design & Analysis of Mechanical Systems using Optimization Techniques" 0n 14-15 October 2011
- **Workshop Details**:

Workshop Coordinator	Dr. Ashish Tiwari
Date	23 June - 24 September '2008
Title	Manufacturing Excellence Program (MEP) Foundation Course
Organizing department name	Mechanical Engineering Dept ,IET-DAVV
No of participants	17
No of Speakers	11
Photograph of Workshop	Attached

Speaker Details:

All Faculty Members of Mechanical Engineering Department.

Particulars of Participants:

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Rishikesh Karulkar Pramod H. Mathane Milind Tare

Prabir Kumar Nandi Lokendra S. Baghel Subash Chandra Muduli

Sharad Zope Chandra Bhan Yadav Ram Pratap Singh

Ajay Dhamdhere S. Muthusamy Manoj Sinha

Om Prakash Pawar Gajanan Enchalwar

Date	8 July 2011- 10 July 2011
Title	Software Training for SAE BAJA
Organizing department name	Mechanical Engineering Dept.
No of participants	114(27 Colleges from all over India)(List Attached)
No of Speakers	04
Photograph of Workshop	Not Available

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Speaker Details:

Name	College	Designation
Mr. Atil Vidharti	Dassaut Systems,Banglore	
Mr Rajiv Aramdaka	Dassaut Systems,Banglore	
Mr. Shir Prakash	PTC ,Banglore	
Mr. Pradeepak	CSM,Banglore	

Particulars of Participants:
All Faculty members of Mechanical Engineering Department.

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National workshop on Next Generation Networks 27th -28th Jan,2011

B. List highlighting the names of eminent scientists/scholars who participated in these events.

- Prof. Gopalsamy Ramesh
- Prof. T.V. Gopal
- Dr. Anil Rawat
- Dr. P. Nagabhushan , Professor from University of Mysore
- Prof. A.K. Nayak
- Dr. Supratim Biswas , Professor Deptt. of Computer Engg. IIT Bombay
- Dr D.P Kothari
- Dr R L Sahani
- Dr Pare, IIT Indore
- Dr Ritunesh, IIT Indore
- Dr S B Modak, IIT Delhi
- Dr Girish Thakar, SGSITS
- Dr R C Gupta

3.2 Resource Mobilization for Research

- Grant of Rs.10,54,860:00 for research project "Non destructive testing using phase shifted digital Stereography" for funding University Grants Commission (year: 2008-11)
- Grant of Rs. 14,91,600.00 for research project " Grating shearing interferometry for investigation in experimental mechanics using phase shifting techniques" for funding from Defence Research Development Organization, New Delhi, India (2007-09)
- Sponsorship of Rs 50,000:00 from M/S Eicher Motors Ltd for the BAHA Project.

3.2.1 Record of Financial provisions made in the university budget for supporting students'

research projects NO

3.2.2 A. Record of special efforts to encourage its faculty to file for patents

B. List of registered and accepted patents. NIL

3.2.3 Details of ongoing research projects of faculty:

	Year wise	Number	Name of the project	Name of the funding agency	Total grant received
A. University awarded projects					
Minor projects					
Major projects					
B. Other agencies - national and international (specify)					
Minor projects					
Major projects					

3.2.4 A. Record of projects sponsored by the industry/corporate houses NO

B. Details such as the name of the project, funding agency and grants received.

3.2.5 A. Details of Department recognition for their research activities by national / international agencies (UGC-SAP, CAS; Department with Potential for Excellence; DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and the quantum of assistance received

NIL

B. Record of any two significant outcomes or breakthroughs achieved by this recognition.

3.2.6List details of

a. research projects completed and grants received (funded by National/International agencies).

- Grant of Rs.10,54,860:00 for research project "Non destructive testing using phase shifted digital Stereography" for funding University Grants Commission (year: 2008-11)
- Grant of Rs. 14,91,600.00 for research project " Grating shearing interferometry for investigation in experimental mechanics using phase shifting techniques" for funding from Defence Research Development Organization, New Delhi, India (2007-09)

b. Inter-institutional collaborative projects and grants received

i) All India collaboration

ii) International

- Collaboration with RRCAT, Indore for carrying out Research in Engineering Subjects

- Collaboration with NIC, New Delhi for technology adoption (CollabCAD)

3.3 Research Facilities

3.3.1 A. Infrastructure in the department to facilitate research

	Software	**Amount in Rs.**
1	Qualnet (Computer Network Simulation Software)	5,82,400/
2	MATLAB	2,49,523/
3	ProE (pro engineer)	7,80,000/
4	Inventor	2,38,600/
5	CollabCad (machine design)	Provided by NIC
6	MATHCAD	78,000/

Facilities available in Photonics Laboratory

- Solid state laser diode (20mW): Red
- Solid state laser diode (9 mW): Green
- Helium Neon Laser (11mW): Red
- Honey comb optical benches
  (i) 8' x 6' (ii) 6' x6'
- CCD camera, Frame grabber cards, Optical components such as beam splitter, lenses, prisms, Neutral density filters, mirrors, cube corner prisms, precision translation stages etc.
- Technology has been developed in-house for direct phase measurement using phase shifting technique and Fourier Transform Method. These techniques have been used for automated measurement of temperature, displacement, slope, focal length etc. Several techniques for testing degree of collimation of laser beam have been developed.

B. Strategies have been evolved to meet the needs of researchers in emerging disciplines

Budgetary allocation have been provided for promoting research. Faculty members are encouraged to participate in conferences at national and international level. Eminent speakers are invited for lecturers in emerging areas. To motivate faculty to undertake research in recent field. Faculty have been reimburse some part of membership fees of International society. Ph.D. Supervisors are provided reimbursement of broadband facilities.

3.3.2 A. Information and Resources catering to the needs of researchers of the department

B. Details of the facility.

	Software
1	Qualnet (Computer Network Simulation Software)
2	MATLAB
3	ProE (pro engineer)
4	Inventor
5	CollabCad (machine design)

- Solid state laser diode (20mW): Red
- Solid state laser diode (9 mW): Green
- Helium Neon Laser (11mW): Red
- Honey comb optical benches

(i) 8' x 6' (ii) 6' x6'

- CCD camera, Frame grabber cards, Optical components such as beam splitter, lenses, prisms, Neutral density filters, mirrors, cube corner prisms, precision translation stages etc.
- Technology has been developed in-house for direct phase measurement using phase shifting technique and Fourier Transform Method. These techniques have been used for automated measurement of temperature, displacement, slope, focal length etc. Several techniques for testing degree of collimation of laser beam have been developed.

3.3.3 Record of University Science Instrumentation Centre (USIC) facilities been made available to research scholars NO

3.3.4 Record of provision of residential facilities (with computer and internet facilities) for research scholars, post-doctoral fellows, research associates, summer fellows of various academies and visiting scientists (national/international) Provision in Hostels. Wi-fi facility provided to scholars in hostels.

3.3.5 Details of Uses of the Facilities of IUC, CAT, NRCS, IIT Indore and other specialized Research Centers for research

Some ME Students are undertake their major project at RRCAT, Indore
Dr (Mrs) Rachana Gupta received research grant from IUC, Indore

3.4 Research Publications and Awards

3.4.1 Research journal published, if any, from the department(s)? If yes, indicate the composition of the editorial board, editorial policies and state whether it/they is/are listed in any international database. NO

3.4.2 Details of publications by the faculty:

* Number of papers published in peer reviewed journals (national / international)

Journals Publications

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Aziridines As Potential Antibacterial Agents", European Journal of Medicinal Chemistry, (Elsevier) xx 1-9, 2008.

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11. Rajavat A, Tokekar V, "Decision Driven Risk Measurement Model to Quantify Reengineering Risk in Stakeholder Perspective of Legacy System" Registered in IEEE Ninth International Conference on Wireless and Optical Communications Networks WOCN2012.

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National Conference

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2. Tokekar V, Ramani AK, Tokekar S, "Performance Studies of Multimedia Based Networks", National Conference on Architecturing Future IT Systems Oct .17-18 2008, Organized by SCSIT DAVV, Indore.

3. Neema V, Tokekar S, "Dynamic Voltage Scaling (DVS) for Designing of Low Power Microprocessor ",National Conference on Architecturing Future IT Systems Oct .17-18 2008, Organized by SCSIT DAVV, Indore.

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National Conference Publication July 2010 – June 2011

1. Singh R, Sohani N, " Effect of Supply chain Integration on Firm Performance" , Proceedings of National Conference on recent advances in manufacturing and technology, at Datta Meghe Institute of Management studies, Jan 10-11, 2011

2. Torgal S, "National Conference on Recent Advances in Mechanical Engineering (RAME-2011)" conduted at Noorul Islam Mechanical Engineering Society publications (NIMES) from 1-2 April 2011, titled "**Fatigue Analysis of Wind Turbine Structural Component** ".

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Maxcode Method" National Journal of Technology, Vol6, No.4, December 2010 of ISSN – 0973-1334

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5. Mandloi D, Pareek T, Khare D, "E-Waste: Generation and hazards", National Seminar on Chemistry at Govt. Madhav Science PG College at Ujjain during 4-5 March 2011.

6. Sharma P, Kumar A ,Singh J, "Synthesis and Docking studies of 6-(2,2-diphenylethenyl)-9-phenyl-2-thiol-9H-purine as p38 MAP Kinase Inhibitor" , 29th Indian Council of Chemists, 19-21 Dec. 2010, Panjab University, Chandigarh, Pg. 100, OO-13.

7. Sharma P, Kumar A ,Singh J, " A computational study of [2+2] cycloaddition: Staudinger reaction", 29th Annual Conference of the Indian Council of Chemists 19-21 Dec. 2010, Panjab University, Chandigarh, PO-11.

8. Sharma P, Kumar A, Singh J," Computational Investigations and Synthesis of 1-(4- Methoxyphenyl)-4-methyl-3-(phenylamino)azetidin-2-one 98th Conference of Indian Science Congress Association, SRM University, Chennai, 3-7 Jan (2011)

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10. Bhargav K, Bande S, "Performance Analysis of AODV and DSR routing Protocols in Adhoc Network Scenario", National Conference on Emerging Trends in Computing & Communication, NOV 19-20,2010,Medicapps institute of Technology & management, Indore

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12. Sen A, Jangalwa M, "Performance Analysis of CDMA 2000", National Conference on Emerging Trends in Computing & Communication, NOV 19-20,2010, Medicapps institute of Technology & management, Indore.

13. Tomar M, Singh P, "A Simpler Energy Density method for Off-line Signature Verification using Neural Network", two day national conference on "Convergence of Signal Processing, Communication and VLSI Design", August 2010

14. Neema V, "Ultra Low Power 1-Bit Full Adder for Bio-Medical / Battery Operated VLSI Circuit Designing" Presented in 26th Young Scientist Congress held in JNKVV, Jabalpur during 28th FEB- 1st MARCH -2011.

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5. Sharma J, Gupta AK, "Modeling and Static Analysis of a Steam Turbine Rotor by FEM", National Conference NCACTM-2011, November 4-5th, 2011, PP 61.

6. Sharma J, Gupta AK, “Lift and drag force Analysis on a Cylindrical body on Wind tunnel”, National Conference NCACTM-2011, November 4-5th, 2011, PP 60.

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11. Singh G, Verma DS, “Applying Quality Circle in Small Scale Indusrties” in National Conference on Advancement & Challenges in Technology & Management, organized by JDCT Indore, pp 59,(2011).

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13. Tege S, Verma DS, “Radio Frequency Identification (RFID) Technique: An Overview with Indian Context” in National Seminar on Design & Analysis of Mechanical Systems using Optimization Techniques, organized by IET DAVV, Indore, pp 61-64, (2011).

14. Rajavat A, Tokekar V, “A Comprehensive Model for Detection and Estimation of Software Reengineering Risk”, Proceedings of national Conference on Emerging research trends in computer science and engineering (NCERTCSE-2011), 18-19 Nov., SVCE Indore, India ,(2011).

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(NCERTCSE -11), Swami Vivekanand College of Engineering (SVCE) Indore , (2011).

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18. Bansal S, Sheth SS, Sindal R, Fatnani P, 20-21 April 2012, " Implementation of Soft core Processor on FPGA", *First National Conference on Recent Trends in Engineering and Sciences (NCRTES 2012) ,Indore, India*, pp 259-261.

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20. Joshi C, Pareek T, Mandloi D, "Green Energy: Different types and Commercial utility for Sustainable Development." National Multi Conference on Contemporary Global trends in Techonology and Management at Lakshmi Narain College of Technology, Indore , 18-20ug 2011.

21. Gupta A, Mandloi D, "Assessment of Air and Noise pollution in Diwali season." National Seminar on Recent Trends in Chemical and Biological Sciences at Govt. Holkar Science College , Indore , 13-15 Jan 2012.

National Conference Publication July 2012 – June 2013

1. Sharma J., Gupta A.K. "Harmonic Analysis of Steam Turbine Rotor by FEA". National Conference NCRTES-2012, April 20-21th, 2012, PP 71-75, ISBN 978-93-82062-27-1.

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4. Mandloi D, Vyas V, "Solid Waste Management in Indore: A Scientific Appraisal".Paper presented at National Conference on Emerging Trends in Research and Analysis for Sustainable Development, Sponsored by UGC and MPCOST Bhopal, Organized by Govt. Madhav Science PG College Ujjain, 27-28 Mar 2012.

5. Thakur V , Mandloi D, "NanoTechnology: An Expedient future in civil engineering"

National Seminar

National Seminar July 2011 – June 2012

1. Tiwari A, Jain S, 2011, "Studies on Solid Particle Erosion Behavior of Metal Matrix Composite: A Review" National Seminar on Design & Analysis of Mechanical Systems using Optimization Techniques organized by The Institution of Engineers(India)Indore Local Centre, Indore, 14-15 October 2011,pp 42-44.

2. Tiwari A, Gupta A, 2011, "Shape Optimization of Acoustic Reactive Muffler for Noise Reduction."National Seminar on Design & Analysis of Mechanical Systems using Optimization Techniques organized by The Institution of Engineers(India)Indore Local Centre, Indore, 14-15 October 2011,pp 53-56.

3. Tiwari A, Sharma J, 2011, "Performance Comparison of Back-propagation & Radial Basis Function Artificial Neural Network Models for Condition Monitoring of Reciprocating Air Compressor."National Seminar on Design & Analysis of Mechanical Systems using Optimization Techniques organized by The Institution of Engineers(India)Indore Local Centre, Indore, 14-15 October 2011,pp 70-73.

4. Gupta A , Mandloi D, "Assessment of Air and Noise pollution in Diwali season."Paper presented at National Seminar on Recent Trends in Chemical and Biological Sciences at Govt. Holkar Science College, Indore, 13-15 Jan 2012.

Book Publication

1. Ms Anita Seth Co-authored book titled, "Computer Fundamentals and C Programming", Cengage Publishing, 2011.; ISBN 978-81-315-1615-7

Research Papers	2012-13	2011-12	2010-11	2008-09

Inter. Journal	37	39	29	10
Nat. Journal	20	12	08	04
Int. Conf.	07	30	21	14
Nat. Conf.	06	28	22	19
Total	72	109	80	47

List of

* Monographs
* Chapters in Books
* Books edited
* Books with ISBN with details of publishers
* Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, EBSCO host, etc.)
* Citation Index – range / average
* SNIP
* SJR
* Impact Factor – range / average
* h-index

3.4.3 Details of

* faculty serving on the editorial boards of national and international journals

NA

* faculty serving as members of steering committees of international conferences recognized by reputed organizations / societies

3.4.4 Details of

* research awards received by the faculty and students NIL
* national and international recognition received by the faculty from reputed professional bodies and agencies

3.4.5 A. Number of successful M.Phil. and Ph.D. scholars guided per faculty during the last four years

- 27 PhD awarded in last four years
- REGISTERED Guides are 20

B. University participate in *Shodhganga* by depositing the Ph.D. theses with INFLIBNET for electronic dissemination through open access

3.4.6 A. Record of Promotion e interdisciplinary research NIL

B.Number of interdepartmental / interdisciplinary research projects undertaken

Number of researchers from different departments are doing there research in Institute as research centere and guided by faculties from different departments. Names are as followes:

1. Dr. Rajkamal, School of Computer Sc.
2. Dr. P. Kanoongo, School of Computer Sc.
3. Dr. Abhay Kumar, School of Elecx

C. Mention the number of departments involved in such endeavors

3.4.8 List of University instituted research awards to the faculty of the Department NIL

3.4.9 Details of incentives given to the faculty for receiving state, national and

international recognition for research contributions NIL

3.5 Consultancy

3.5.1 Important consultancies undertaken by the department during the last four years.

(1) An amount of Rs. 1.7 lacs per year generated from the consultancy services provided to M/S TCS, Mumbai in the year 2005-06, 2006-07, and 2007-08.
(2) An amount of Rs. 65000/- was generated from the consultancy services provided to MPLUN in year 2007.
(3) An amount of Rs. 2.56 lacs was generated from the training consultancy services provided to M/S EICHER Motors Ltd in the form of Manufacturing Excellence Programme of 3 months in the year 2008-09.
(4) An indigenous software COLLAB-CAD worth Rs. 6.0 lacs was free of cost provided by the National Informatics Centre , New Delhi to IET for the faculty and student s training in the area of CAD-CAM in year 2008-09. An MOU has been signed with NIC, MHRD to establish COLLAB-CAD centre at Mechanical Engineering of IET.

3.5.2 A. Department participation in university-industry cell

University Industry Partnership Meet" for strengthening linkage between Industry and University on 8th Feb 2013

B. If yes, what is its scope and range of activities

(i) To generate manpower well suited to the requirements of industry.
(ii) Curriculum development/upgradation based on inputs from the industries
(iii) To encourage industries for initiating developmental funds in the form of scholarships, awards, stipends, research fellowship to students etc.
(iv) To expose the students to actual field work and industrial environment using field visits, workshops, short term training programs etc.
(v) To enable the students for taking up internship/projects from industry
(vi) To provide continuing education with flexible schedules to people working in industry.
(vii) To engage experienced industry personnel as resource person in the University.
(viii) To encourage University faculty for taking up research and consultancy projects from industry.
(ix) Creation of collaborative labs/testing centers of mutual benefit at University/Industry.
(x) Joint research publications/patents
(xi) Use of specialized database/ laboratories of the University by the industry.
(xii) To encourage the industries for initiating Faculty development/training programs for better understanding of processes in industries.

3.5.3 Record of publicizing the expertise of the department for consultancy services

3.5 Extension Activities and Institutional Social Responsibility (ISR)

Social Service Activities Organized under EWB - IET

- **Engineers Without Border (EWB)** student chapter of IET designed & installed water purification system at school in Ralamandal in September'2012.

- **Collection camp** was organised in the IET premises on 12th July 2012 to collect the cloths, stationary, and other entities to help Needy people. Collected items were donations to Jeevan-Shala and Child Line organisations.

- **Plantation:** Plantation and thrash cleaning activity was held in the IET premises on 1st September 2012. Around 50 plants were sowed at this event by 23 group members.

- **Blood Donation Event:** A donation drive with help of M Y Hospital, Indore was successfully organised on 18th January 2013 in the IET premises. 79 students donated blood.

- **Woman's Day Celebration** was held at Mahesh Jyoti Kalyan Blind School on 8th March 2013. A Seminar cum motivational speech was organised for the Student and refreshment were given to 100 blind students.

- **IET-Success Stories:** 15th March 2013, A Seminar Cum Alumni Meet for Students to give them a vibe direction in their career orientation and a focus on current placement scenario.

NSS Unit of IET Activities and Achievements

i. **Participation, after selection, of the NSS Unit IET DAVV volunteer Mr. Utkarsh Garhwal in the 10 days National Level Camp for Tracking and other Adventure Activities** at Solan Nala, Manali District Himachal Pradesh during 13-23th June 2012.

ii. **Participation** of Programme Officer along with 06 NSS Volunteers in the **Paryavaran Sanrakshan Jan-Jagaran Rally** on the occasion of **World Environment Day on 5thJune 2012** organised by NSS DAVV Indore in association with Vigyaan Bharti and M.P. Pollution Control Board, Indore.

iii. **SADBHAAVNA DIWAS PLEDGE** organized at IET-DAVV Campus on 22ndAugust 2013.Approximately **413** students took the pledge to foster communal harmony.

iv. Nutritional Week activities (from 1st-7thSeptember 2012) **Poshan Aahaar Saptah Jaagarukta Abhiyaan for the infants and mothers** in an attempt to reduce the

infant mortality rates. The NSS Volunteers visited the **Chacha Nehru Bal Hospital, M.Y. Hospital** and **the nearby areas** and provided the guidelines on infant and young child feeding to the parents and also explained the various health and nutrition related issues.

v. Participation of Programme Officer along with the 54 NSS volunteers in the **VISHWA CHICAGO DIWAS PROGRAMME** organized at DAVV Auditorium on 11th September 2012.

vi. NSS Volunteers conducted **a survey on the educational status of the lower income group children** in the IET-Campus and the nearby areas on 16th September 2012.

vii. Organized a **Pledge to Follow the Traffic Rules** on The National Service Scheme Day 24/09/2012. Approximately **400** students took the pledge to follow the traffic rules.

viii. Participation of Programme Officer along with 25 NSS Volunteers in the **One day Orientation Programme for the volunteers and the NSS Programme Officers** on 12/10/2012 at DAVV Auditorium Khandwa Road Indore.

ix. **Participation, after selection, of the NSS Unit IET DAVV volunteer Mr. Utkarsh Garhwal in the 10 days Pre Republic Day Parade Camp at Ranchi** during 05-14th October 2012.

x. **Conducted Yoga Sessions for the benefit of IET-DAVV** students on 14th-21thOctober 2012 at IET-DAVV. Approximately 20 students participated in the above said activity.

xi. **Participation of 03 NSS Volunteers of IET-DAVV in the District level NSS** Camp organized at Rangwasa, Rau Indore from 27/02/2013-05/03/2013.

xii. IET provided residential and other facilities to NSS University level camp of 450 students. NSS camp was held on 13.03.2013 to 19.03.2013. 29 students of IET were core committee members.

National Service Scheme Unit, I.E.T., D.A.V.V., Indore

SUMMARY OF N.S.S. ACTIVITIES IN 2008-2009

S.No.	Dates	Activity	No of Participants	Venue
01	16-08-08	Tree Plantation	25	IET
02	05-09-08	Teacher's Day Celebration	20Vol	IET

03	21-09-08	Weed eradication and Campus premises cleaning activity.	45-50approx	IET Hostel
04	24-09-08	Voluntary Blood Donation Camp	25	Choithram Hospital,Indore
05	27-09-08	Garden Development	25	A-Block Mechanical Engg.
06	16-10-08	--------do----------	25	------do------
07	18-10-08	--------do----------	25	------do------
08	23-10-08	--------do----------	25	------do------
09	19-12-08	Tree plantation and Implanting of tree guards for protection of planted trees.	15	IET
10	20-12-08	Garden Development	21	A-Block Mechanical Engg
11	23-12-08	----------do----------	09	-----do------
12	09-01-09	----------do----------	16	-----do------
13	2-16 Jan'09	15 Day Yog Chetna Shivir	90approx.	IET
14	23-26 Jan'09	Development of Play Fields for cricket and Volleyball	20	IET
15	26 Jan'09	Republic Day Celebration	100approx	IET
16	13-19 Feb'09	Participation in 7 day University level Camp for leadership development.	03	Om-aanand Ashram, Pitru-Parvat Near Gommatgiri Indore
17	18-02-09	District LevelBloodDonationCamp in association with Model Blood Bank MGM Medical College Indore	85-90 approx.	IET
18	28-02-09	Participation in the	03	Ravindra Bhavan

		programme'Janmabhoomi Raksha Abhiyaan'organised by Department of Higher Education, Govt. of M.P.		Bhopal.
19	05-16 May2009	Participation of N.S.S.Volunteers of I.E.T in the adventure sports activities in Uttarkashi	02	Nehru Mountaineering Institute,Uttarkashi, (Uttarakhand)

NSS Achievements in Year 2010-2011.

1. Organized successfully Anti-Tobacco Campaign "Quit Tobacco" in Association with NAIDUNIA at IET DAVV on 24 January 2011.
2. Organized the Tree Plantation Activities at IET DAVV on 01/01/2011, 15/10/2011 and on 15/08/2010.
3. Organized Campus Development and Cleaning Activity (eradication of weeds and maintenance of play fields) at IET DAVV on 18th September 2010.
4. Participation in the Tobacco Control Programme Organised at School of Computer Science ,DAVV on 9/08/2010.
5. Organized the SADBHAVNA PLEDGE programme for the students at IET DAVV on 04/09/2010.

Engineers without Borders

Activities of 2011

1. Career Oriented Seminar

Venue : Hellen Care Blind School Navlakha

Date :26.1.2011

A career oriented seminar was organized for blind students where some blind scholars gave them a detailed information for career choices . A small cultural festival was also organized on republic day.

2. Blood donation Camp

Venue:Bombay Hospital

Date:16.1.2011

A blood donation camp was organized in collaboration with Rotract club at Bombay hospital. Around 80 students donated blood.

3. Collection Camp

Venue: IET DAVV Campus

Date: From 25.2.2011 to 26.2.2011

A collection camp with theme 'Donate everything except money ' where spare clothes, boys, toys, other stuffs were collected. This camp aimed at dispatching the collected material to the needy in slums and orphanages.

4. Teaching Programme

Venue: Hellen Care Blind School Navlakha

Date:January-March 2011

Students of class 7^{th} ,8^{th},9^{th} and specially Class 10^{th} were taught and prepared for their final exams . Class 10^{th} students were prepared for Board Exams.

Results rewarded hard work of students and all students passed some got distinctions.

5. Teaching Programme

Venue:Deaf and Dumb School Sindhi Colony

Date:Feburary-March 2011

Students of this school were provided education.

6. Teaching Program and Festival Celebration

Venue: "Aarambh" : Orphanage for street children

Children of this shelter home were taught Hindi reading and writing. EWB members also organized various fun loving activities with these children on festival days. There were around 25 children of age group 10-15 years.

7. Recording Books for Blind Students

This is regular activity where we would translate and record study materials of blind students. Some of this students are pursuing PHD from DAVV.

8. A field trip Visit to Zoo

Venue:Indore Zoo

Date:14.7.2011

Kids from deaf and dumb school were taken to Zoo.

NATIONAL SERVICE SCHEME

INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEVI AHILYA UNIVERSITY, INDORE

Following are the achievements of the NSS-IET DAVV UNIT during the Academic year July 2011-June 2012.

❖ *Registration of students with NSS IET DAVV Unit as volunteers for the session 2011-2012.*

❖ *Participation in the **District level NSS Programme Officers Meeting** Organized at Atal Bihari Vajpayee Govt. Arts and Commerce College, Indore on 25/08/2011.*

❖ Participation along with one volunteer Mr.Utkarsh Garhwal in the **Orientation Programme for NSS Programme Officers** organized by NSS DAVV Indore on 8-12-2011 at University Auditorium Taxila Parisar DAVV Indore.

❖ Organised the **Voter Awareness Programme** for the inclusion of names in the electoral list for the staff and students of IET DAVV during 12-16 January 2012.

❖ Organised the **Voluntary Blood Donation Camp** under the auspices of NSS Unit IET DAVV and NSS CELL DAVV Indore at IET DAVV on 20th January 2012. **120 UNITS OF BLOOD DONATED TO THE STATE OF ART MODEL BLOOD BANK, M.Y.HOSPITAL INDORE.**

❖ Organised **Awareness Activities celebrating the occasion of Voters Day** on 25th January 2012 at IET DAVV Indore.

❖ Attended the **Community capacity Building and Public Awareness Programme for Disaster Management**, organized at School of Computer Science DAVV on **17th February 2012**.NSS volunteers along with other students of IET also attended the Programme.

❖ Organised an **Awareness Programme on the Occasion of Pulse Polio Immunisation Day** on 19th February 2012 in the campus and nearby areas of IET DAVV Indore.

❖ Organised **Campus Cleaning and Development Activity** on 20th February 2012 at IET DAVV Indore.

❖ Organised **Play Fields Development Activity** at IET DAVV Indore during 27-29 February 2012.

❖ **Participation, after selection, of the NSS Unit IET DAVV volunteer Mr. Utkarsh Garhwal in the 7 days State Level NSS CAMP** at Dongra Gaon Mhow during 10-16th November 2011.

❖ **Participation, after selection, of the NSS Unit IET DAVV volunteer Mr. Utkarsh Garhwal in the National Youth Festival** at Manglore, Karnataka in January 2012.

❖ **Participation, after selection, of the NSS Unit IET DAVV volunteer Mr. Utkarsh Garhwal in the 10 days National Level Camp for Tracking and other Adventure Activities** at Solan Nala, Manali District Himachal Pradesh during 13-23th June 2012.

❖ **Participation along with NSS Volunteers in the Paryavaran Sanrakshan Jan-Jagaran Rally** on the occasion of World Environment Day on 5th June 2012 organised by NSS DAVV Indore in association with Vigyaan Bharti and M.P. Pollution Control Board, Indore.

3.6.1 A. Department records of sensitization of faculty and students on its Institutional Social Responsibilities

- Institute is sensitive about promoting social responsibilities and citizenship roles among the students faculty and community. Some of the efforts made by Institution in this direction are:

○ Organised Awareness Activities celebrating the occasion of Voters Day on 25th January 2012 at IET DAVV Indore.

○ Community capacity Building and Public Awareness Programme for Disaster Management, organized at School of Computer Science DAVV on 17th February 2012.NSS volunteers along with other students of IET also attended the Programme.

○ Organised an Awareness Programme on the Occasion of Pulse Polio Immunisation Day on 19th February 2012 in the campus and nearby areas of IET DAVV Indore.

- Organised Campus Cleaning and Development Activity on 20th February 2012 at IET DAVV Indore.

- Organised Play Fields Development Activity at IET DAVV Indore during 27-29 February 2012.

- Participation along with NSS Volunteers in the Paryavaran Sanrakshan Jan-Jagaran Rally on the occasion of World Environment Day on 5thJune 2012 organised by NSS DAVV Indore in association with Vigyaan Bharti and M.P. Pollution Control Board, Indore
- Celebration of world environment day for making awareness about the environment
- awareness programme for the pulse polio Immunisation
- Organise public awareness programme for disaster management.
- Blood donation camp is organized with the active participation of the students. This helps the emergency need of blood to the needy
- » The institute promotes social services through extension activities. The institute tries to inculcate in the students the qualities of politeness and humanity. Students learn the spirit of cooperation in social activities. They help the villagers, sick persons and elderly persons. They work for adult education too in villages.
- » Environmental awareness programmes like plantations, green day celebrations are also organized in the College. Sports activities inoculates various good human qualities such as discipline, respect sportsmanship etc.

B. List the social outreach programmes which have created an impact on students' campus experience during the last four years.

3.6.2 Promotion of neighborhood network and student engagement and holistic development of students and sustained community development?

Following are the inclusive practices of the institution to impart holistic developement: -

1. Equal opportunities are provided to all irrespective of caste, creed, state, religion and gender.

2. A conducive learning environment is maintained to promote learning.

3. Scholarships are provided to SC/ST/OBC students.

4. Differently abled students are helped in all the possible ways.

3.6.3 Record of participation of the students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International programmes

3.6.4 Records of tracking the students' involvement in various social movements / activities which promote citizenship roles

3.6.6 Write up of the values inculcated and skills learnt during extension activities.

The institute promotes social services through extension activities. The institute tries to inculcate in the students the qualities of politeness and humanity. Students learn the spirit of cooperation in social activities. They help the villagers, sick persons and elderly persons. Environmental awareness programmes like plantations, green day celebrations are also organized in the College. Sports activities inoculates various good human qualities such as discipline, respect sportsmanship etc.

3.6.7 Department community in its outreach activities

3.6.8 Details of awards received by the institution for extension activities and/contributions to social/community development during the last four years

3.7 Collaboration

A. MOU Copies and Record of collaboration with other agencies impacted the visibility, identity and diversity of activities on campus

MOU signed with RRCAT

Collaboration with NIC, Delhi for technology adoption (CollabCad)

B. Record of benefits academically and financially because of collaborations NA

3.7.2 Records of linkages resulted in

* Curriculum development
* Internship
* On-the-job training
* Faculty exchange and development
* Research
* Publication
* Consultancy
* Extension
* Student placement
* Any other (please specify)

3.7.3 A. Copy of MoUs with institutions of national/international importance/other universities/ industries/corporate houses etc. File no. 3.7.3

B. Record of enhanced the research and development activities NO

3.7.4 Have the university-industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities? NO

3.7.5 Any other information regarding Research, Consultancy and Extension, which the university would like to include. NO

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

- The infrastructure with advanced technology is being developed and well equipped Laboratories

	A Block	B Block	D Block	E Block	M Block	Total
Class Rooms	4	6	5	8	4	27
Labs	7	6	7	4	1	25
Built-up Area (sqm)	1863.2	2106.3	2106.3	3585.7	2506	12167.5

- Central Workshop
- Built-up area: 855 sqm
- IT Block
- Built-up area: 4720 sqm
- 300 -350 seated fully air conditioned auditorium developed
- Girls Common Room in each block

4.1.1 A. Details of Department physical infrastructure

B. Maintenance of Laboratories for its optimal utilization

C. Maintenance of Computers for its optimal utilization

D. Maintenance of UPSes, Power Supplies

- Computers

- Laboratory and office equipments

E. Maintenance of support services, sanitation, first aid boxes

- Annual maintenance contract for
- Water purifiers
- Fire extinguishers

F.

F. Maintenance of building, garden, indoor games structure

- Cleaning contract
- Campus security outsourced to Security agency.

File No. 4.1.1

1.1.2 Record of new initiatives for Infrastructure for promote a good teaching-learning environment- Internet, Wi-fi, Power Point Projectors, Video Equipment

- The infrastructure with advanced technology is being developed having 625 Computers
- Selected Class rooms and laboratories facilitated with 22 multimedia projectors
- Internet connectivity in each block
- All faculty rooms are facilitated with Internet connectivity
- Virtual class room
- Boys hostels are having 1 Gbps Internet access through DAVV Campus network on 24 X 7 basis
- All sections of Administrative Office are using computers and printers
- Using Customized developed software for Admissions, Accounts , exam and result processing since year 2000

1.1.3 Physical ambience for the faculty in terms of adequate research laboratories, computing facilities and allied services

- Good Physical ambience for the faculty. Well equipped laboratories for the research, each faculty is provided with latest computing facility , softwares and high speed internent connectivity.

4.1.4 List of Facilities like office room, common room and separate rest rooms for women students and staff

- A separate block of 2506 SqM area is constructed for Office purpose. Where Student section for UG and PG, Establishment, Accounts, Academics, Purchase, Dispatch, Store Exam, Result, Director Office, Administrative Officer, Central Valuation Hall, Conference room Each block has common room & separate rest rooms with necessary furniture for women students and staff.

1.1.4 List of the infrastructure facilities are disabled-friendly
Ramp to physical handicapped being constructed

Internet facility for blind at IT centere.

4.1.8 Departmental special facilities are available on campus to promote students' interest in sports and cultural events/activities

- A separate sport cell is established for providing sports facility to the students and students are availing centralized sports facilities at Physical Education Department. In addition Football, cricket volleyball ground, TT Badminton facility are being provided.
- Sports department organized annual sports meet for the students
- In addition centralize sports facility from the Department of Physical Education and Sport is available to students of the Institute.

Sports Activities in 2012-13

I. Organized Inter Departmental Sports events (IET Champions Trophy)

- **IET Sport's Meet** - Inter Branch Football League was organized from 10th -12th October 2012.
- **IET Sport's Meet** - Inter Branch sports games like Cricket, Volleyball, Table Tennis, Badminton, Chess etc. The event was organized from 4th - 8th Feb. 2013.
- **Electronics & Instrumentations** Branch has secured maximum 26 points & became the OVERALL CHAMPION of the institute.

II. Student Participation in Inter UTD sports events:

UTD Sports Association of DAVV organized the event from 28th February to 02 March 2013. All University departments participated 5 games i.e. Cricket, Volleyball, Table Tennis, Badminton, Chess. IET secured 1st position in Table Tennis, Volleyball and Chess. IET stood 2nd in Badminton and 3rd in Cricket. **IET was the OVERALL CHAMPION of UTD Sport's Meet for the year 2013.**

4.2 Library as a Learning Resource

4.2.1Details of departmental library facilities:

Advisory Committee consist of Director,Prof Incharge (Library),Head of Departments,Librarian and few students

4.2.2 Provide details of the departmental library:

* Total area of the library (in Sq. Mts.):Library Area (Carpet Area) 387.22 sq Mtrs

* Total seating capacity 25
* Working hours (on working days, on holidays, before examination, during examination, during vacation) 10 am – 9 pm on working days
* Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources) NA
* Clear and prominent display of floor plan NA
* Adequate sign boards; YES
* Fire alarm; NO
* Access to differently-abled users and NO
* Mode of access to collection Software

4.2.3Departmental library holdings:

a) Print (books, back volumes and theses)

Total books 31,867

No of Titles 6,015

b) Average number of books added during the last three years

Year	Expenditure (In Rs)	No. of Books purchased
2008-09	4,38,599.00	1,829
2009-10	9,50,450.00	2,362
2010-11	78,109.00	222
2011-12	5,65,883.00	1,042
2012-13	8,65,000.00	1628
Total	28,98,041.00	7083

c) Non Print (Audio Video, CDs, Downloaded Articles) Available

d) Electronic (e-books, e-journals) Available at Central Library

e) Special collections (e.g. text books, reference books, standards, patents)
text books, reference books are available

4.2.4 Records of tools the library deploys to provide access to the collection -

* OPAC

* Electronic Resource Management package for e-journals
a. Facility available through central library
* Federated searching tools to search articles in multiple databases
a. Facility available through central library

* Library Website
* In-house/remote access to e-publications Yes

4.2.5 Use of ICT deployed in the library

* Library automation
  - **Issue/Return of Books**
  - **Book Indent and Purchase**
  - **Book Acquisition and Barcoding**
  - **Verification of Books**
  - **Book Searching**
*
* Total number of computers for public access One
* Total numbers of printers for public access One
* Internet band width speed □ 2mbps □ 10 mbps □ 1 GB 2Gbps
* Institutional Repository NO
* Content management system for e-learning Yes
* Participation in resource sharing networks/consortia (like INFLIBNET) Yes

4.2.6 Details (per year) with regard to

* Ratio of library books to students enrolled 13.27:1
* Average number of books added during the last four years : 1313/year
* Assistance in searching Databases Available
* INFLIBNET/IUC facilities
* Average number of walk-ins-**6500**
* Average number of books issued/returned-**2000**
* Ratio of library books to students enrolled-**11.8**
* Average number of books added during the last four years-**6974**
* At Central Library

4.2.8 Annual departmental library budget and the amount spent for purchasing new books and journals. Rs 10,00,000.00

4.2.9 What initiatives has the university taken to make the library a 'happening

place' on campus?

4.2.10 What are the strategies used by the library to collect feedback from its users?

How is the feedback analysed and used for the improvement of the library

services?

- **In process**

4.2.11 List the efforts made towards the infrastructural development of the library in

the last four years.

- **Procurement of new book shelves**
- **Extension of i-Logic software for barcoding of books.**
- **Procurement of Magazine racks**
- **Procurement of Computer,Printer and UPS**
- **Extension of existing library in process**
- **Procurement of e-books in process**

4.3 IT Infrastructure

4.3.1 Details of Department IT and ICT Infrastructure

- The infrastructure with advanced technology is being developed having 625 Computers
- Selected Class rooms and laboratories facilitated with 22 multimedia projectors
- Internet connectivity in each block
- All faculty rooms are facilitated with Internet connectivity
- Virtual class room
- Boys hostels are having 1 Gbps Internet access through DAVV Campus network on 24 X 7 basis
- All sections of Administrative Office are using computers and printers
- Using Customized developed software for Admissions, Accounts , exam and result processing since year 2000

4.3.2 Details of the computing facilities i.e., hardware and software.

- Number of systems with individual configurations 625
- Computer-student ratio 1:4

- Dedicated computing facilities Faculty members and staff
- LAN facility Available
- Proprietary software
- MAT LAB
- Qualnet
- ProE
- MATHCad
- Windows (licensed version)
- COLABCAD
- Inventor
- Xilinx ISE 10.1
- Microwind
- Multislim 9
- Rslinx PLC
- Number of nodes/ computers with internet facility 625
- Any other (please specify) -

4.3.3 Plans and strategies for deploying and upgrading the IT infrastructure and associated facilities

Campus WiFi and providing internet facility to newly constructed IT Block, Girls Hostel, New block of Boy's hostel

4.3.4 Details on access to on-line teaching and learning resources and other knowledge and information database/packages provided to the staff and students for quality teaching, learning and research. Yes

4.3.5 IT facilities available to individual teachers for effective teaching and quality research

YES

4.3.8 A. Details of ICT-enabled classrooms/learning spaces available 23

B. Record of utilization for enhancing the quality of teaching and learning

Extensively used.

4.3.9 Records of Faculty and computer- aided teaching-learning materials

PPT's and CD's are available

4.3.10 Department availing of of the National Knowledge Network connectivity YES

4.3.12 Record of Availing of web resources such as Wikipedia, dictionary and other education enhancing resources

Thse resourses used extensively

4.3.13 Department budget for the update, deployment and maintenance of computers

A provision of Rs 25 lacs/ yr

4.3.14 Details of plans envisioned for the gradual transfer of teaching and learning from closed university information network to open environment

Yes , PPT's and Course materials will be made online

4.4 Any other information regarding Infrastructure and Learning Resources which the university would like to include.

5.1 Student Mentoring and Support

5.1.1 Department system, structural and functional characteristics for student support and mentoring

* For 1st year BE students one mentor is appointed on a batch of 15 students each. Mentor interact with students weekly/ fortnightly and help in academic , social and career counseling

5.1.2 Record of 'apart from classroom interaction', the provisions available for academic mentoring Partially available

5.1.3 Record of department students utilization of personal enhancement and development schemes such as career counseling, soft skill development, career-path-identification, and orientation to well-being for its students.

- Invocation lecture for 1st year student.
- Mentoring of girls students by senior faculty members
- Career counseling provided by training and placement cell.
- Soft skill development is taken up

5.1.4 Department publish its updated prospectus and handbook info annually on website and online access of course plans, syllabi and result YES

Weblink: www.iet.dauniv.ac.in

5.1.5 A. Records of the Timely dissipation of financial aid

File No. 5.1.5

C. Tables for type and number of scholarships/free-ships given to the students during the last four years the following categories: UG/PG/M.Phil/Ph.D./Diploma/others

- Financial aid is provided to Physically handicapped students through Student Welfare department of DAVV
- Dr. S. M. Dasgupta Scholarships (Rs 10,000/ per year) are awarded to merit holders in all branches since 2003 (6 No.)
- Dr. Manohar Chandwani Award (Rs. 15,000/ per year) to passing out students (4 No.) since 2012.
- Financial assistance provided to SC, ST, OBC, PH

- Financial assistance provided to SC, ST, OBC, PH

	SC		ST		OBC		Students benifited through other schemes
	No. of Students	Amount	No. of Students	Amount	No. of Students	Amount	
2008-09	169	62,90,716	125	41,14,203	85	40,69,725	1.Bank Employee Sch.

2009-10	203	24,13,467	201	23,11,822	125	59,12,760	2.Handicaped Sch. 3.Minority Sch 4. Gaon Ki Beti Sch. 5.Single Daughter Sch.
2010-11	133	8,92,070	128	93,57,55	144	41,95,945	
2011-12	173	64,10,649	146	15,13,485	182	53,26,225	

•	• No. of Students	• Amount
• 2009-10	• 534	• 2.12 Crores
• 2010-11	• 561	• 1.40 Crores
• 2011-12	• 511	• 1.76 Crores

	No. of Students	Amount
2009-10	534	2.12 Crores
2010-11	561	1.40 Crores
2011-12	511*	1.76 Crores

- Provision of Fee waver scheme for economically weaker - Meritorious students
- Other scholarships from Govt. departments like Minority scholarship, Railway, BSNL, Banks etc

5.1.6 Table of percentages of students receive financial assistance from state government, central government and other national agencies (Kishore Vaigyanik Protsahan Yojana (KVPY), SN Bose Fellow, etc.)

Approx 20 %

5.1.7 Department use of International Student Cell, number and list of foreign students
Institute has provision for admission for NRI students

5.1.8 Department support services available for

* Students participating in various competitions/conferences in India and abroad
  NIL
* Physically challenged / differently-abled students NIL
* SC/ST, OBC and economically weaker sections
  Financial support is provided to these students as per Government norms

* Health centre, health insurance etc.
  Visiting Doctor facility available at Boys and Girls hostel. Avail facilty from Centralized health centre at Takshila campus

* Skill development (spoken English, computer literacy, etc.)
- Language lab is functuning in the institute
* performance enhancement for slow learners
- extra classes and tutorials
- scheme for the subject carry to the next semester/ year
* exposure of students to other institutions of higher learning/ corporates/business houses, etc.

Industrial visits are being organized

* publication of student magazines YES
* Record of student participation in sports and extracurricular activities

Students activites for year 2012-13

* **AAKSHANK** - Inter College Dance Competition was held on 13th February 2013. The event witnessed a crowd gathering of 1000 students.

* **AAKSHANK** - Inter Branch Dance, Fashion, Skit and Singing Competition. The event was organized on the 13-14 February 2013.

* **SPHOORTI** - Participated in Inter UTD Cultural Fest. IET bagged 2nd position in Skit Competition and 3rd position in Musical Competition.

* Engineer's day and Teacher's Day were celebrated on the 15th Sept. 2012. The event was completely focused on engineering students.

IET Student Clubs Organized Activities:

For year 2012-13

Student		**Activities**

club		
Forces Club	a.	**Music Concert showcasing a performance by AGNEE BAND-MTV's** Official Rock Band on 10th February 2013. A participation of approximately 3000 students was witnessed in this event.
	b.	**Inter College Dance and Fashion Show** on the 11th February 2013. Teams that participated in 9 groups with a crowd gathering of 1500 students.
	c.	Seminar on **Ethical Hacking by Ankit Fadia** on 21st September 2012. The event saw a crowd gathering of 1000 students.
	d..	**Aaghaaz** organized for BE 1st year students to have an interaction between 1st year students and senior batches. The event was organized on the 27th of August 2012 and it saw a crowd gathering of 300 students.
	e.	Planned "**Phoenix"** for the 22nd and 23rd of March 2013. It is a technical fest which will see workshops and seminars for all branches of engineering students. The event is open for all engineering colleges.
Abacus Club	a.	**Gajendra Verma's Musical Night** on the 16th Feb. 2013. The approximate crowd which participated in the event was 3000.
	b.	**"War of Strings" A** Band Competitions on the 15th Feb. 2013 followed by a Head Line Band i.e. Devoid. The students who attended the event were 500.
	c.	Quiz Competitions, Dance Competitions and Stage Plays on the 15th September 2012. The event witnessed by1000 students.
	d.	A seminar on Mobile App Development on 17th September 2012. The event witnessed crowd strength of 500 students.
Abacus Club	e.	Roobaroo on the 23rd August 2012. The event consisted of many fun events in the name of Treasure Hunt, Matki Gulail etc. The event witnessed a crowd gathering of 300 students.
Google Develop-	a.	**DevFest W** which consisted seminars delivered by esteemed panel from Google

er's Group		India
Google Student Ambassador Programme	a.	Website designing using Google tools at Choithram Public School on 11th February 2013
	b.	Google Quiz on 8th March 2013
	c.	Google Apps for Education and Seminar on G+ hangout & G-mail on 6th March 2013
	d.	Seminar on You tube on 4th March 2013
	e.	Advanced power searching tool 27th January 2013
	f.	Website Designing at SDPS Women College scheduled on 20th March 13 Google Technologies scheduled on 17th March 2013

Student's Forces Club Activities

UDAAN 2011-12

IET – DAVV

FORCES club of IET has celebrated its annual event **UDAAN 2K12** on 15th & 16th Feb. 2012 at IET campus. In this event different activity was organized by the organizing committee of the event. The students of IET as well as other institutions have participated in these events.

The program started with the inaugural speech of the director IET. On 15th of Feb 2012 different fun events like ***Line Angry Birds, Sittolia, Gully Cricket, Slow Bike Race DJ Night*** etc was organized & students actively participated in these events.

On 16th Feb 2012 the events like Street Football, Bollywood Quiz, Salesman of the year, Pint Ball, Chalchitra, Roadies, Story writing, Best out of Waste, War of Bands, etc was organized and very mush enjoyed by the faculties and students. Inter college Dance competition was organized on 15th Feb 2012 and that was won MEDICAPS Institute of Tech & Mgmt. A Fashion show (Group) has been organized on 16th Feb 2012 that was won by KHALSA College of Indore.

Students' discipline and efforts of organizing committee was the key to grand success of the event.

ABACUS CLUB

List of Events for Year July 2011- June 2012

Name of Event	Day & Month	List of Activities
Genesis	**7th August 2012**	Fun based event for 1st year students
Deeksha	**15th September 2011**	Grey Carnage(G.K Quiz) Cool Clique(Fun Event) Stage Seizure(Skit Competition)
Kaleidoscope	**18th-**19th February 2012	Stuntmania War of Strings Adventure Sports Paintball Melophilia Stage Events Workshops & Seminars

Report of events held by Abacus in 2011-2012

1. ABOUT Abacus

Abacus is a student club of IET DAVV. Abacus organizes events to give the students an unparalleled platform to grow, learn and have interaction all at the same time. We are the bunch of young enthusiasts who believe that college studies should not confine within the walls of the classrooms but should thrive with learning new things via such activities.

2. ABACUS 2011-12 EVENTS

2.1 Genesis

It was organised on 7th Aug 2011. It was a fun based event which had the chief motive of healthy interaction with the first year juniors. It consisted of plethora of activities including activities like scavenger hunt, impromptu quiz n many other interactive activities.

2.2 DEEKSHA

Deeksha is one of the major events of Abacus and is always organised on the Engineers' Day i.e. 15th Sep. It consists of the following events:

- Stage Seizure – This was an inter college skit competition where students from different colleges participated and displayed their theatrical skills and the best performance was awarded with the prize of trophy and cash money. It was organised in the university auditorium.
- Grey Carnage – This was a quiz competition held on the Engineers' Day i.e. 15th Sep. It is organised in three phases:

1) Online round: In this phase students had to login to take the quiz and 20 teams were shortlisted in this round.
2) Preliminary round: In this round students had to again take the quiz online but this time on the centre decided by abacus and under the surveillance of the Abacus team. 4 teams were shortlisted in this round.
3) Final round: Finally 4 teams take up the quiz in front of the audience in the university auditorium where a quizmaster was Mr Prashant Hemnani renowned personality of Indore and the best team was awarded with the prize

- Cool Clique: This is a fun based event organised in the C21 mall. This was organized on 17 September 2011. It included many fun events like AD-MAD show and Scavenger hunt with the help of C21mall crew.

- KALEIDOSCOPE-2012

Kaleidoscope is an annual event of Abacus club IET DAVV, which is organized every year in the month of February. Kaleidoscope is the largest fest of central India consisting of 80+ events. Some of the key featuring events of Kaleidoscope 2012 were

Day 1:

Adventure Sport

Adventure sport were free of cost included in 20 rs ticket . adventures sports included rapelling , Burma bridge , zorbing . These events enticed a large amount of crowd and adventure lover in kaleidoscope 2012

Melophilia :-

Melophilia was organized first time in kaleidoscope 2012 , It was one of the K'nights which consisted of two events:

Step up at kscope: This was an inter-college dance competition in which 6 teams from all around Indore performed and the best one was awarded.

DJ Night: As the name suggests it was a night of dancing where each and everyone grooved to the beats of DJ Rachit.

Workshops: It was also a part of the kaleidoscope which consisted of Robotics, Networks and Dance workshops.

Stage Events: It consisted of the Impromptu events in which prizes were distributed all day long.

Day 2:

Adventure Sport

Adventure sport were free of cost included in 20 rs ticket . adventures sports included rapelling , Burma bridge , zorbing . These events enticed a large amount of crowd and adventure lover in kaleidoscope 2012

STUNTMANIA 2.0:-

It is a stunt show in which all India level Stuntman performs. Kaleidoscope 2012 featured Babar Khan (winner of MTV Stuntmania 2) and his group BKC. They performed many bike stunts , attracting a large crowd of different age groups .

Workshops: It was also a part of the kaleidoscope which consisted of Robotics, Networks and Dance workshops.

WAR OF STRINGS 5.0

War of String is a well known event of the Kaleidoscope. It's a rock band competition between 6 different rock bands. Winner of the event Acrimony were awarded Rs 12,000

Cash. WOS 5.0 was headlined by Noiseware (Pune based band).

Nukkad Natak: It was a theatre event in which a native genre of Indian play skills were put to display by the best in Indore and the best one was awarded.

Stage Events: It consisted of the Impromptu events in which prizes were distributed all day long.

Glimpses of the Events:

Adventure Sports

Melophilia

Stuntmania

War of Strings

Nukkad Natak

CSI-IET

PRESENTS

ARUNODAY

Report:

CSI-I.E.T had begun its new academic session with a note of high aspiration and enthusiasm. It has organized many flagship events of technical mindset and fun.

ARUNODAY 2012 was organized on 5th 0ctober 2012. It included four fun events:

1) CARTELISTA: Where Students showed their creativity by designing a hand made or software based posters. Hand-made posters were collected on 5th October in B105 room.

2) BATTLE OF LENSES: In this competition students show casted their photographic talent. All the entries were submitted online.

3) LIGHT CAMERA ACTION: Make a "Short Film" and test your "acting and directing" skills. A documentary making competition was conducted.

All the Photographs, Documentary films, software-based Posters were submitted at dropbox.csi@gmail.com before 5th october.

4) WRITE ON SITE:

This tested the "writing" skills of young guns from IET via an article writing competition.

Write on Site was held in Room no. B-105.

The Event was a huge Success with maximum participation. It gave students a platform to manifest their talent and desire to achieve and strengthen their confidence.

Event organizers working hard to make the event success.

I.E.T. D.A.V.V

Report on 'DEEKSHA 2012' Organized by Abacus Club

Event Details:

Date: 14th,15th & 17th Sept, 2012

Venue: D.A.V.V. Auditorium (14th & 17th Sept.)

I.E.T. College Auditorium (15th Sept.)

1. About DEEKSHA – 'Deeksha' was an education cum cultural fest, planned, brought up and organized by students of Abacus. The purpose of organizing DEEKSHA was to provide vibrant platform for an interactive meet of the youth with the expert minds across the city. The

feeling of privilege took over, for once again bringing the concept on 15 September and adding to the celebration of engineer's day and enhancing it every year.

2. Phases of DEEKSHA2012 Event –

2.1 Mobile Express Apps(14th Sept'12)- This year 'DEEKSHA' overshadowed the boundaries of imparting knowledge and gave a platform to the learners to learn beyond their imagination with Mobile Express Apps, which started a day prior to engineer's day i.e. on 14th Sep. It facilitated with learning and understanding of apps of latest technology, including, android, blackberry, iphone and windows phone. The workshop was the only one of its kind organized by any institute and so was the response of the learners.

2.2 Stage Seizure(15th Sept'12) – The due date, 15th September started with Stage seizure, one of the most effective and powerful way of putting in display, combination of gestures, speech, song, music and dance. It lines up among the best forms of show casing inner expression and often is means to enhance physicality, presence and immediacy of experience. The concept of including Stage seizure at 'Deeksha' was as at times, it tries bridging the gulf between youth and society by awakening them and making them more sensitive towards issues of national and other important concerns.

2.3 Grey Carnage(14th Sept'12) – After the entertainment and awakening session of stage seizure, it was time for thrilling and exciting quiz, Grey Carnage. For years the event is known for providing a place where, the coolness of salad days is judged based on the sturdiest and most exciting competition. The level as expected was again enhanced this year, bringing sweats to the teams and curiosity to the spectators.

2.4 Mobile Express Apps Development(17th Sept'12)-

The basis of knowledge provided in the prior days, it was a task of developing an application meeting the requirement of the latest technology. It was the last phase of 'Deeksha2k12'.

Cash prizes worth Rs. 5,000/- were distributed among the winners. Also refreshment was provided to each and every participant.

3. Media Coverage

Deeksha witnessed a widest media coverage ever received. Covering stories in almost all the leading newspapers of Indore. In total around 16 Stories were made.

Cutting of all of the articles are enclosed with report.

4. Feedback:

The feedback from participants, via a formal conversations on all the days, indicated a very high level of satisfaction with the event. However, the community building and network-generating aspect of the event was considered a key achievement.

"Deliver an engaging, informing and technically focused event"

This objective was fully realized. The range and depth of presentations was incredibly encouraging, entertaining and bodes well for future iterations of the event.

I.E.T. D.A.V.V

Report on 'Kaleidoscope 2013' Organized by Abacus Club

Event Details:

Date: 15th & 16th Feb, 2013

Venue: IET, D.A.V.V. campus

1. About KALEIDOSCOPE – 'Kaleidoscope' was an education cum cultural fest, planned, brought up and organized by students of Abacus. The purpose of organizing KALEIDOSCOPE was to learn the management skills of sales, crowd management, event management and to portray an image of IET DAVV as the best in the cultural and technical activities in the state.

2. Phases of KALEIDOSCOPE 2013 Event –

2.1 Day Events: This year Kaleidoscope's day events alone were the satisfaction factor for the participants leave alone the

Pro-nights. Day events varying from Angry Birds, Virtual Gaming, Play Station Gaming and LAN Gaming. But the attraction of the event were Adventure Sports and Paintball due to which we saw a record participation in Kaleidoscope 2013.

1.2 Competitions in Kaleidoscope 2013 –Kaleidoscope this year saw participation not only from the city but from students all over the state with full enthusiasm. The technical competitions were Robo Race, Line Follower, C++ coding competition and a seminar on what next after Engineering. Cultural Competitions included Step Up at Kscope(Dance Competition).

2.3 Pro-Nights – When we talk about Kaleidoscope it is the day events that enthrall people but pro-nights in Kaleidoscope are its defining moment:

2.3.1 War Of Strings: The most established event of IET DAVV saw its 6th version being successfully held this time. Although the rainy weather brought in some hindrance but even rain could not stop Abacus Club from organizing its defining event. War Of Strings this time was a competition between 4 bands and was headlined by the Mumbai based band namely Devoid.

2.3.2 Gajendra Verma Live-

Kaleidoscope was already at its peaks. There was only one ProNiite that could further brighten its aura which was the **CELEB NIGHT.** Singer of the song Emptiness and Music Director of Mann Mera namely Gajendra Verma himself performed in Kaleidoscope 2013. The intensity and the enthusiasm of the crowd stated a lot about the success of the event even before it started. Such huge in number and enthusiastic crowd was seen after a long time in IET DAVV.

3. Feedback:

The feedback from participants, via a formal conversations on all the days, indicated a very high level of satisfaction with the event. However, the number of quality events being delivered for nothing in return was found to be the key achievement.

"Deliver an engaging, informing, culturally and technically sound event"

This objective was fully realized. The range and depth of events was incredibly encouraging, entertaining and bodes well for future iterations of the event.

5.1.9 Placement Records

5.1.10 Number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus during the last four years).

Year	2012-13*	2011-12	2010-11	2009-10	2008-09	2007-08
Companies visited	23	29	25	22	17	11
No. recruitment offers	437	441	324	264	269	264
No. of students placed.	327	295	275	230	256	246
* Placement season is going on						
Average annual package in year 2011-12 has been 4.0 lac per anum						
Highest package in 2011-12 has been 9.15 lac per anum						

Report of the I Phase Placements of the 2013 Batch(IET-DAVV Indore)

Despite global recession in the year 2012, Institute of Engineering and Technology (IET-DAVV,Indore) remained intact in the matter of campus recruitment. In this year, Information Technology (IT) industries were the biggest recruiter in terms of the bulk recruitment. Core engineering industries offered the best packages for the students of IET.

Find below (in Tabular Form) the number of companies visited (I Phase) and the offers made by them during their campus drive in IET-DAVV for the students of 2013 batch.

Sr. No.	Company's Name	Branches Allowed	No. of offers	No. of students Accepting offer/selected	Salary Package/annum

1.	Tata Technologies	Mechanical	13	13	4.15
2.	John Deere	Mechanical	04	04	4.00
3.	Mu Sigma	All (Except Civil, Mech)	08	08	4.50
4.	Adobe	Comp & IT	02	02	11.0
5.	CSC	All (Except Civil, Mech)	23	23	3.8
6.	Accenture	All	167	167	3.15
7.	Wipro	All	129	45	3.25
8.	Infosys	All	56	18	3.25
9.	Cap Gemini	All (Except Civil, Mech)	17	17	3.25
10.	Tek Link	Comp & IT	06	06	3.5
11.	Head Strong	Comp & IT	10	03	3.5
12.	Persistent	Comp & IT	-----	--------	3.0
13.	Impetus	Comp & IT	-----	--------	3.0
14.	I-cheez	E&TC	02	02	5.1
15.	Infobeans	Comp & IT	-----	--------	3.0

General Statistics:

- **Total No. of companies** visited 23
- **No. of offers** made during the campus process: **437**
- No. of students getting at **least one offer**: **327**
- No. of students having **multiple offers**:**129**
- Placements percentage for 2013 batch during I Phase is **66%** out of **total 469 eligible** students
- **IET-DAVV is the only Single Institute all across MP where the placement number of the students of 2013 batch have crossed 300+ figure. Apart from IITs/NITs, not many Single Institutes in India have crossed 300 figure (As told by many company officials)**

Placement Summary of 2012 Batch

Sr.No.	Company's Name	No. of Offers Made	No. of Students Accepting offer
1	L.G.	2	2
2	VOLVO EICHER	6	6
3	TAFE	4	4
4	TATA TECHNOLOGY	14	8
5	INFOSYS	131	62
6	ACCENTURE	73	73
7	WIPRO	123	62
8	CAPGEMINI	8	8
9	LNT INFOTECH	1	-------
10	ADOBE	3	3
11	CSC	1	1
12	IMPETUS	1	1
13	ATOS ORIGIN	9	9
14	MU-SIGMA	11	8
15	IGATE-PATNI	11	11
16	HONDA CARS	4	4
17	MAHINDRA TWO WHEELERS	3	2
18	FISERV	5	5
19	LNT-ECC	**1**	1

20	AVANTHA POWER	11	11
21	SANKALP SEMICONDUCTER	2	1
Sr.No.	**Company's Name**	**No. of Offers Made**	**No. of Students Accepting offer**
22	NEC-HCL	1	------
23	FORCE MOTORS	2	2
24	TECHLINK	1	1
25	WIPRO-VLSI	4	4
26	MAN TRUCKS	3	3
27	KIRLOSKAR GROUPS	4	3
28	I-DESIGN	3	3
29	JOHN DEERE	3	3
Total		**445**	**301**

Placement Summary of 2011 Batch

Sr.No.	Company's Name	No. of Offers Made	No. of Students Accepting offer
1	LG-INDIA	4	4
2	EICHER MOTORS	3	3
3	SANKALP SEMICONDUCTORS	1	1
4	KIRLOSKAR GROUPS	4	4
5	LNT ECC	2	2
6	MICO-BOSCH	4	4
7	TCS	151	121

8	ACCENTURE	60	52
9	PATNI	23	21
10	LNT-INFOTECH	8	8
11	ZENSAR	5	4
12	WEBROO	0	0
13	TECH MAHINDRA	11	7
14	CAPGEMINI	10	9
15	TECHLINK	1	1
16	RELIANCE	3	3
17	ESCORTS	2	2
18	ASIA MOTOR WORKS	2	2
19	TATA TECHNOLOGIES	8	8
20	IMPETUS	0	0
21	CSC	6	6
Sr.No.	Company's Name	No. of Offers Made	No. of Students Accepting offer
22	M&M	2	2
23	ADOBE	6	6
24	HSBC	4	2
25	ESSAR POWER	4	3
Total		324	275

Placement Summary of 2010 Batch

Sr.No.	Company's Name	No. of Offers Made	No. of Students Accepting

			offer
1	INFOSYS	96	92
2	ORIENT	5	5
3	TCS	89	60
4	M&M	2	2
5	NEC-HCL	2	2
6	VEDANTA	5	5
7	LNT	4	3
8	ALLOHA*	0	0
9	CSC	5	5
10	TECH MAHINDRA	7	7
11	ATOS ORIGIN	9	9
12	BRIDGESTONE	4	4
13	NSN	4	4
14	WIPRO INFOTECH	2	2
15	ADOBE	3	3
16	IMPETUS	1	1
17	DIASPARK	4	4
18	MAN FORCE	8	8
19	EICHER MOTORS	4	4
20	CUMMINS	1	1
21	Future Groups	4	4
22	Essar Gujarat	5	5
Total		264	230

Placement Summary of 2009 Batch

Sr.No.	Company's Name	No. of Offers Made	No. of Students Accepting offer
1	TCS	88	79
2	INFOSYS	58	57
3	PATNI	9	9
4	CSC	26	26
5	PERSISTENT	1	1
6	TECH MAHINDRA	13	13
7	ATOS ORIGIN	12	12
8	ZENSAR	2	2
9	BENGAL ENERGY	4	4
10	ENERGY INFRATECH	4	4
11	VEDANTA	7	7
12	MAHINDRA & MAHINDRA	9	7
13	CAP GEMINI	15	15
14	NAVY(OSMS)	15	15
15	AVETEH	2	2
16	TTLS	3	3
17	RIPPLES	1	0
Total		269	256

Placement Summary of 2008 Batch

Sr.No.	Company's Name	No. of Offers Made	No. of Students Accepting

			offer
1	TCS	141	123
2	PATNI	37	37
3	CSC	24	24
4	PERSISTENT	4	4
5	TECH MAHINDRA	13	13
6	ATOS ORIGIN	9	9
7	CAP GEMINI	7	7
8	NEW GEN TECH.	2	2
9	IMPETUS	2	2
10	KPIT	7	7
11	TATA ELEXI	18	18
Total		264	246

5.1.11 A. Record of registered Alumni Association
Alumni Association exist at University level.

B. Record of activities and contributions to the development of the department NO

C. Record of alumni meets NO

5.1.12 A. Committee members and record of student grievance redressal
Anti Ragging Committee

File No. 5.1.12

B. Details of the nature of grievances reported and the redressal

No reported

5.1.13 A. Record of anti-ragging committee

B. List of instances reported during the last four years and what action has been taken in these cases NO

5.1.14 Details of the cooperation rendered by parents, industry and its stakeholders to ensure the overall development of its students

- Sponsorship of Rs 50,000:00 from M/S Eicher Motors Ltd for the BAHA Project

5.1.18 A. List of participation of women students in intra- and inter-institutional sports competitions and cultural activities

There is active participation of women students in sports and cultural activities

B. List of participation of women students in intra- and inter-institutional sports competitions and cultural activities

File No. 5.1.18

5.2 Student Progression

5.2.1 Analysis of progression and trends for the last four years.

Student progression	Percentage against enrolled					
UG to PG	2008	2009	2010	2011	2012	2013
	17	25	35	36	25	38
PG to M.Phil.	-					
PG to Ph.D.	NA					
Ph.D. to Post-Doctoral	-					
Employed • Campus selection • Other than campus recruitment	70% 25%					
Entrepreneurs	0.5%					

5.2.2 Programme-wise pass percentage during the time span stipulated

Year	2010-11	2011-12	2012-13
BE	92.22%	88.6%	Result awaited
ME	99%	98%	

5.2.3 Records of Number and percentage of students who appeared/qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.

	2012-13	2011-12	2010-11	2008-09
GATE	269	59	74	30
CAT	164	09	05	30
GRE	21		06	10

Service Selection Board: 22

- GATE ranks of IET students in 2011-12
- Surbhi Punjabi (AIR rank 4)
- Anup Kumar Sah (AIR rank 9)
- Diksha Makhija (AIR rank 13)
- GATE rank of IET students in 2012-13
- Surbhi Akotia (All India Rank 16th Position)

5.2.4 List category-wise with details regarding the number of Ph.D./D.Litt./D.Sc. theses submitted/ accepted/ resubmitted/ rejected in the last four years

	2011-12	2010-11	2009-10	2008-09	Till 2008
PhD Registered	**00**	**14**	**13**	**12**	**32**

31 PhD awarded till date

5.3 Student Participation and Activities

5.3.1 A. List the range of sports, cultural and extracurricular activities available to students
Students participated UTD games i.e. Cricket, VolleyBall, Chess, Table Tennis, and Badminton.

Overall Champion in 2008-09 and in 2009-10

Runner-up in 2010-11 and in 2011-12

IET secured First Position in Chess, Second position in Volleyball and Table Tennis, Third Position in Cricket.

"IET Champion Trophy" is organized for Cricket, VolleyBall, Chess, Table Tennis, Badminton, Carrom and Football.

UTD Sports Association of DAVV organized the event from 28th February to 02 March 2013. All University departments participated 5 games i.e. Cricket, Volleyball, Table Tennis, Badminton, Chess. IET secured 1st position in Table Tennis, Volleyball and Chess. IET stood 2nd in Badminton and 3rd in Cricket. **IET was the OVERALL CHAMPION of UTD Sport's Meet for the year 2013.**

B. Sports and extracurricular calendar and details of students' participation. NO

5.3.2 Details of the achievements of department students in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. during the last four years.
Cdt. Rashmi Yadav represented NCC in cultural programme in Prime Ministrer's Rally at Delhi on 28th Jan 2013.

5.3.3 A. Gathered data and feedback from pass-out graduates NO

B. Gathered data and feedback from employers NO

C. Use of the data for the growth and development of the department NO

5.3.4 Department special drives / campaigns for its faculty and students to promote heritage consciousness NO

5.3.5 A. Records of Department involvement and encourage its students to publish materials like catalogues, wall magazines, departmental magazine, and other material

Students published departmental magazine ‘Pegasus’each year in which students and faculties published their articles.

B. List the major publications/ materials brought out by the students during the last four academic sessions. -

5.3.6 A. Departmental Student and Alumni association or or any other similar body

B. Details on its constitution, activities and funding. -

5.3.7 Details of student representatives in Board of Studies, various academic and administrative bodies

There is a provision of student representative in the Board of Studies.

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5.3.8 Any other information regarding Student Support and Progression which the university would like to include.

- ***Mechanical students participated in BAHA (automotive vehicle design and manufacturing contest and won Rs 2 lac prize for Go green design category in 2011-12***
- ***Mechanical students participated in BAHA (automotive vehicle design and manufacturing contest and won Rs 1 lac prize for best green design in 2010-11***

IET Student Branch of Computer Society of India

"The beginning of knowledge is the discovery of something one donot understand."

1 The IET Student Branch of Computer Society Of India organized a Two Day Event called "Quiz Trix" exclusively for the Second Year students of the college. The quiz was organized by Mayank Sharma(President, CSI-IET) and Pooja Gupta(Vice President, CSI-IET) and conducted in two phases with the preliminary round held on 5th August' 2011. The preliminary round was a written test paper with questions based on general awareness. A total of 136 students,working in a team of 2, took the quiz with brimming zeal. The organizers and volunteers worked constantly for the proper execution of the event.

2 The 6th of August' 2011 witnessed the next phase of the event. The quiz was enthusiastically conducted by the quiz master, Mr.Mayank Sharma, President of the IET Student Branch. The second phase included a series of Knockout Rounds in which the top 20 teams participated. The elimination rounds were conducted to get the top 10 teams who outperformed other participants. The finale was held between the top 6 teams which included fascinating rounds such as Audio-Visual, Who's Who with the highlight of the event being the Buzzer Round. A combined effort of the technical team of the Computer and Telecommunication students was reflected with the quiz questions prepared by Puneet Kala ,Jayant Purchure & Kumar Shanu and the circuit for the buzzer set up by Ishaan Lad, Sumeet Sanse and Suvipra Nema.

3 Many exciting prizes like original Antivirus, Headphones, Games DVD's were given encouraging the spirits of the final qualifying teams. The goodies were also distributed among the audience who correctly answered the questions.

4 The Tic-Tac-Toe game played with the audience made the quiz more enthusiastic and interactive. The entire organizing committee worked with great zeal and relished their experience to the core. With such an enthusiastic response in its very first event of the session, the CSI-IET Team promises to continue its efforts of promoting knowledge among its students, taking it to the next level.

IEEE Student Branch

ANNEXURE VIII (E)

Brief Report of Activities organized in 2011-12

Date : 16 July, 2012 Ref No. 16072012-01

A short seminar on "Introductory Robotics" was organized by the IEEE Student Branch, IET and EWB Student chapter, IET on Jan 26, 2012 in Computer Science block, IET for 1st year Students of the institute. The Speaker in seminar was Mr Nipun Kanade. The Seminar was attended by 137 students. Students were charged a nominal fee of Rs 10. The Fund raised was shared equally between IEEE SB, IET and EWB IET.

A hands-on workshop on Robotics was organized by the IEEE Student Branch, IET and

EWB Student chapter, IET on February 12 for all students of the institute.

Mr Nipun Kanade was the main speaker and trainer at the Workshop which was attended by a total of 49 students. It was a complete practical session stretched for 9 hours starting from morning 9 AM to evening 6 PM. In this time the students made 2 robots, one wired and one wireless. The event was a big success with the students learning how to make a working robot from scratch.

On 23 March 2012, a PCB Design workshop was organized in collaboration with EWB Student Chapter, IET for all students of Indore. It had 98 attendees including faculties from other engineering colleges as well. The workshop gave a complete hands on experience to PCB (Printed Circuit Board) designing technology starting with using EAGLE CAD. It also covered routing techniques, live demonstration and hands on to Toner Transfer and Screen Printing method to fabricate the circuit boards. The students were enlightened and had a richer knowledge base when they left the event.

On 14th July 2012, Mr. D.P Kothari, Fellow, IEEE addressed students and faculty of the institute on the topic of "Energy and Environmental Problems Facing the Third World and their probable Solutions".

Addressing the gathering in a friendly manner he pointed out the key energy challenges that are being currently faced. 60 students and faculties attended the event.

SAE CLUB

The following were the important SAE (Society of Automotive Engineers) activities carried out during the last year

1 Students of Mechanical Engineering SAE BAJA Club IET for participated in VIRTUAL BAJA SAEINDIA 2011-12.

2 Baja is an event started under the banner of SAE INDIA in 2007. It is a platform given to young aspiring engineering students of various colleges across India to apply their engineering skills and knowledge in designing and fabricating an All Terrain Vehicle (ATV) under the guidelines and rules issued by BAJA. Our college team as Team NEBULA participated consecutively from last 2 years in BAJA 2011 and in 2012, we were in runners up in Go Green category last year and this time we were the winners our whole journey of Baja 2012 is illustrated below.

VIRTUAL BAJA

3 It was all started with the team's registration in virtual BAJA. Team comprises of 23 members of Mechanical Engineering Dept. Of IV, III and II year. In virtual it was required to virtually design the ATV considering all the constraints and checking vehicle on 3-D Modelling Software (PRO-E) & FEA software (ANSYS) on each and every prospect to achieve the best performance of the vehicle. So prior to manufacturing above software validate that it can sustain the all the loads and perform satisfactorily. Team NEBULA presented the design in Banglore at Dyanand Sagar Institutions. Total 220 team across India have participated for these events and total 100 were selected out of them for main event.

MAIN BAJA

4 It took about 4 months of days and nights to fabricate our vehicle. We fabricated ATV in our college Workshop. After the fabrication there was held a local level technical inspection in which the inspector judged us on some 70 rules laid by BAJA'12 we cleared it 100 percent. Now was time for main event in Pithampur from 16 to 19th February 2012.

5 2.2.1 FIRST DAY (16 February 2012)

6 There was on site Technical inspection on 16th. It comprises of Engine Check in which they check the RPM of engine and gave Ok sticker when we passed then there was GO-No gauge in which they checked overall length and height of vehicle which we passed successfully. Then there was 45 deg. Tilt test in which they checked whether fuel is spilling or not which also we successfully. Then they checked our vehicle on some points of rulebook constraints and safety norms in which they pointed out some 4 points to correct. We also registered for Go-Green category in which it was required to make a model describing the after treatment process

to reduce emission and was also required to give the presentation judges really liked our model and poster.

7 2.2.2 SECOND DAY (17 February 2012)

8 We corrected all points needed to be corrected and then they passed us in inspection and then proceeded for further rounds first one was figure of 8 test in which it is required to complete 8 figure drawn by them which we passed on. Then we went on for panic braking test in which it was required to brake the vehicle in a particular distance which we passed in 2 rounds. Then we went on for Static Evaluation in which they checked our design on Innovation, Craftsmanship, Roll cage, Suspension, Steering and Brakes and Marketing and Cost point of view in which did well by describing our each and every point of design.

9 2.2.3 THIRD DAY (18 February 2012)

10 18th was the of Dynamic event. First one was Acceleration event in which it is required to accelerate the vehicle upto certain distance in minimum time we did it fairly well. Then there was Manoeuvrability in which vehicle was tested on rough terrain we did it fairly well. Then there was hill climbing of 45 deg we did it in first attempt thus how ended third day.

2.2.4 FINAL DAY (19 February 2012)

11 This day Endurance Event was going on which is of 4 hrs of racing the ATV. We checked our vehicle from all points and finally we were ready for endurance. Race started on well we completed our 7 laps quite well and opted for refuelling then re entered the race everything was going well but suddenly our Gearbox got broke on race was ended for us at that point .

ISHRAE IET student chapter

The following were the important ISHRAE (Indian Society of Heating Refrigerating and Air-Conditioning Engineers) activities carried out during the last year

Technochill 2013

Indian Society of Heating Refrigerating and Air conditioning Engineers (ISHRAE) Indore, Indore conducted its annual techfest for the students '***Technochill 2013'*** on March 02, 2013 along with Vindhya Institute of Technology and Science, Indore. The programme is an annual feature of ISHRAE activities for student of the various collegiate chapters. The programme has technical and motivational lectures, quiz competition '*Quizwiz'*, technical workshop and cultural fest *'Culfest'.* The following student chapters took part in the event.

1. Chameli Devi Institute of Technology and Management (CITM), Indore
2. Institute of Engineering & Technology, Devi Ahilya Vishwavidyalaya (IET-DAVV), Indore
3. Indore Institute of Science and Technology (IIST), Indore

4. Malwa Insitute of Technogy (MIT), Indore
5. Medicaps Institute of Technology and Managenent (MITM), Indore
6. Sushila Devi Bansal College of Technology (SDBCT), Indore
7. Swami Vivekanand College of Engineering (SVCE), Indore
8. TRUBA, Indore
9. Vindhya Institute of Technology and Science (VITS), Indore

It started at 08:30 am with the registration of the students from various student chapters. In the inauguration ceremony, Mr. Deepak Arzare, Scientific Officer, Raja Ramanna Centre for Advanced Research (RRCAT), Indore was the Chief Guest. Mr Arzare has been immediate pat president of ISHRAE Indore chapter. It was presided over by the Director, VITS, Indore. At the outset, Mr. Kishore, Senior faculty member in Mechanical Engineering Department, VITS, welcomed all the ISHRAE office bearers and members, the faculty advisers from the various institutes and all the students attending the programme. Mr. Bharat Doshi, President, ISHRAE Indore Chapter, Indore informed about ISHRAE to the audience. He outlined the various activities that are carried out for both the students and practitioners alike. There are various activities planned for the students throughout the year. It includes technical lectures, technical visits, projects and technical workshops. The students, in addition to this, get journals in the form of CDs. The principal of VITS, Dr. Tare addressed the gathering by taking the message further for all the students to work hard in take part in such technical events. In the technical talk delivered by the keynote speaker Mr Arzare, he talked about the avenues that lie ahead of all the budding engineers in field of Heating Ventilation Air-conditioning and Refrigeration (HVAC&R). He said that whichever industry grows HVAC&R is coupled to it. This is so because HVAC&R is concerned about providing comfort to human which form the workforce in any organisation. Secondly the various industries include process industries where the temperature and humidity needs to be controlled to perfection the carry out the desired process, or retail sector where the products should be stored and displayed, or cold chain, or entertainment, or travel. If any such industry grows HVAC&R is bound to grow. It is the industry which requires a relatively lesser amount of capital investment. His talk encouraged the students to take up career in HVAC&R. He compared the statistics of the growth, both of organisation as well as personal, of the software industry and HVAC&R and proved that a career of software engineering for the mechanical engineers is not a very good option.

The second talk was delivered by Mr. Swapnil Kothari, Director, Indore-Indira and Renaissance college, Indore. He motivated the students to be creative in their lives. He emphasised that one should always be creative to approach to any problem. It was followed by the quiz competition *Quizwiz*. It was conducted by Mr. Sapan Shah of ISHRAE, Indore. The quiz covered many subject domains applied in HVAC&R, from fundamentals to difficult. In all there were 10 participating team in the competition. The winner of the quiz was Indore Institute of Science and Technology (IIST), Indore. The winners shall compete nationally in Banglore on March, 08-09, 2013. The runners up were IET-DAVV, Indore. The *Quizwiz* was followed by the lunch break.

In the post lunch session, ISHRAE had arranged a technical live interactive workshop. The Air-conditioner was laid open and shot live to a gathering of more than 300 student members. The expert Mr. Gaurav Nim explained the entire working of the Split air-conditioner to the students. It was done with live video

projection on a big screen and simulated version of the working in a separate projection. The student were given time to interact with the experts and satisfy all of their queries.

The last event was the *Culfest*. It is a regular feature of *Technochill*. The students from almost all the participating colleges took part in *Naachle* and *Filmistan*. The former was the dance competition where the winner in was IIST, Indore while the latter is the skit competition which saw MITM as the winners. The runners up in *Naachke* was VITS, Indore while those in *Filmistan* were the students from IIST, Indore. The event drew to a close after valedictory. The vote of thank was delivered by the ISHRAE-Indore, Student Activities Chair Dr. Mahesh Pophley.

Technochill 2012

Institute of Engineering & Technology, Devi Ahilya Vishwavidyalaya (IET-DAVV), Indore hosted annual techfest '***Technochill 2012'*** for the Indian Society of Heating Refrigerating and Air conditioning Engineers (ISHRAE) Indore's various students member on February 15, 2012 in the University auditorium. The programme is an annual feature of ISHRAE activities for student of the various collegiate chapters. The programme has technical and motivational lectures, quiz competition '*Quizwiz'*, technical workshop and cultural fest *'Culfest'.* The following student chapters took part in the event.

10. Chameli Devi Institute of Technology and Management (CITM), Indore
11. Institute of Engineering & Technology, Devi Ahilya Vishwavidyalaya (IET-DAVV), Indore
12. Indore Institute of Science and Technology (IIST), Indore
13. Malwa Insitute of Technogy (MIT), Indore
14. Medicaps Institute of Technology and Managenent (MITM), Indore
15. Shri Govindram Sekseria Institute Technology and Sciences (SGSITS), Indore
16. Sushila Devi Bansal College of Technology (SDBCT), Indore
17. Swami Vivekanand College of Engineering (SVCE), Indore
18. TRUBA, Indore
19. Vindhya Institute of Technology (VIT), Indore

It started at 08:30 am with the registration of the students from various student chapters. In the inauguration ceremony, Mr. Deepak Kemkar, CEO, Cristophiya Energy Systems Pvt. Ltd. Indore was the Chief Guest. It was presided over by the Director, IET-DAVV, Indore. At the outset, Dr. Ashesh Tiwari, Head of Mechanical Engineering Department, IET-DAVV, welcomed all the ISHRAE office bearers and members, the faculty advisers from the various institutes and all the students attending the programme. Mr. Deepak Arzare, President, ISHRAE Indore Chapter, Indore informed about ISHRAE to the audience. He outlined the various activities that are carried out for both the students and practitioners alike. There are various activities planned for the students throughout the year. It includes technical lectures, technical visits, projects and technical workshops. The students, in addition to this, get journals in the form of CDs. The director of IET-DAVV, Dr. Sanjiv V. Tokekar addressed the gathering by taking the message further for all the students to work hard in take part in such technical events. In the technical talk delivered by the keynote speaker Mr Kemkar, he talked about the avenues that lie ahead of all the budding engineers in field of Heating Ventilation Air-conditioning and Refrigeration (HVAC&R). He said that whichever industry grows HVAC&R is coupled to it. This is so because HVAC&R is concerned about providing comfort to human which form the workforce in any organisation. Secondly the various

industries include process industries where the temperature and humidity needs to be controlled to perfection the carry out the desired process, or retail sector where the products should be stored and displayed, or cold chain, or entertainment, or travel. If any such industry grows HVAC&R is bound to grow. It is the industry which requires a relatively lesser amount of capital investment. His talk encouraged the students to take up career in HVAC&R.

The second talk was delivered by Mr. Akash Sethiya, CEO, CH-Edgemakers, Indore. He motivated the students to be creative in their lives. He emphasised that one should always be creative to approach to any problem. It was followed by the quiz competition *Quizwiz*. It was conducted by Mr. Sapan Shah of ISHRAE, Indore. The quiz covered many subject domains applied in HVAC&R, from fundamentals to difficult. In all there were 10 participating team in the competition. The winner of the quiz was Medicap Institutes of Technology and Management(MITM), Indore. Tne winners shall compete nationally in Banglore on Feruary, 25 2012. The runners up were IET-DAVV and Malwa Institute of Technology (MIT), Indore. The *Quizwiz* was followed by the lunch break.

In the post lunch session, ISHRAE had arranged a technical live interactive workshop. The Air-conditioner was laid open and shot live to a gathering of more than 300 student members. The experts Mr. Chandragupta Jain, Mr. Nishant Gupta, Mr. Prashant Pavecha and Mr. Deepak Arzare, explained the entire working of the window air-conditioner to the student. It was done with live video projection on a big screen and simulated version of the working in a separate projection. The student were given time to interact with the experts and satisfy all of their queries.

The last event was the *Culfest*. It is a regular feature of *Technochill*. The students from almost all the participating colleges took part in *Naachle* and *Filmistan*. The former is the dance competition while the latter is the skit competition. The winner in both the events was IIST, Indore. The runners up in *Naachke* was IET-DAVV, Indore and MITM, Indore while those in *Filmistan* were the students from MITM, Indore and SCBCT, Indore. The event drew to a close after valedictory. The entire event was compered by student members Ms. Ruchi Natani of SGSITS, Indore and Ms Diksha of IET-DAVV, Indore. The vote of thank was delivered by the ISHRAE-Indore, Student Activities Chair Dr. Sharad Chaudhary.

SAE CLUB

The following were the important SAE (Society of Automotive Engineers) activities carried out during the last year

12 Students of Mechanical Engineering SAE BAJA Club IET for participated in VIRTUAL BAJA SAEINDIA 2010-2011 Competition held at India Habitat Centre Delhi from 2nd-3rd July 2010.

13 Participated in VIRTUAL BAJA SAEINDIA 2010-2011 Competition held at India Habitat Centre Delhi from 2nd-3rd July 2010

14 Students of Mechanical Engineering SAE BAJA Club has won the prize of Rs. 1,00,000/- (One Lakh Only) for award of Go GREEN VEHICLE (EMISSION) First Runner up in the JK BAJA SAEINDIA 2011 National Competition held from 28-30th January'11 at NATRIP Pithampur, Distt. DHAR (MP).

15 Highly appreciated by SAEINDIA the efforts as the FACULTY ADVISOR for significant contribution towards success of JK BAJA SAEINDIA 2011 competition held at held from 28-30th January'2011 at NATRIP Pithampur, Distt. DHAR (MP

16 Arranged and conducted one day Seminar on "Power Train Design and Development for students of SAE CLUB of Engineering Institutes of M.P. on 17 July 2010 at University Auditorium.

Report of BAJA 2012 Competition Participated by Students of IET-DAVV

1. ABOUT BAJA Baja is an event started under the banner of SAE INDIA in 2007. It is a platform given to young aspiring engineering students of various colleges across India to apply their engineering skills and knowledge in designing and fabricating an All Terrain Vehicle (ATV) under the guidelines and rules issued by BAJA. Our college team as Team NEBULA participated consecutively from last 2 years in BAJA 2011 and in 2012, we were in runners up in Go Green category last year and this time we were the winners our whole journey of Baja 2012 is illustrated below.

2. PHASES OF BAJA 2012 EVENT 2.1 VIRTUAL BAJA It was all started with the team's registration in virtual BAJA. Team comprises of 23 members of Mechanical Engineering Dept. Of IV, III and II year. In virtual it was required to virtually design the ATV considering all the constraints and checking vehicle on 3-D Modelling Software (PRO-E) & FEA software (ANSYS) on each and every prospect to achieve the best performance of the vehicle. So prior to manufacturing above software validate that it can sustain the all the loads and perform satisfactorily. Team NEBULA presented the design in Banglore at Dyanand Sagar Institutions. Total 220 team across India have participated for these events and total 100 were selected out of them for main event. 2.2 MAIN BAJA It took about 4 months of days and nights to fabricate our vehicle. We fabricated ATV in our college Workshop. After the fabrication there was held a local level technical inspection in which the inspector judged us on some 70 rules laid by BAJA'12 we cleared it 100 percent. Now was time for main event in Pithampur from 16 to 19th February 2012. 2.2.1 FIRST DAY (16 February 2012)

There was on site Technical inspection on 16th. It comprises of Engine Check in which they check the RPM of engine and gave Ok sticker when we passed then there was GO-No gauge in which they checked overall length and height of vehicle which we passed successfully. Then there was 45 deg. Tilt test in which they checked whether fuel is spilling or not which also we successfully. Then they checked our vehicle on some points of rulebook constraints and safety norms in which they pointed out some 4 points to correct. We also registered for Go- Green category in which it was required to make a model describing the after treatment process to reduce emission and was also required to give the presentation judges really liked our model and poster. 2.2.2 SECOND DAY (17 February 2012) We corrected all points needed to be corrected and then they passed us in inspection and then proceeded for further rounds first one was figure of 8 test in which it is required to complete 8 figure drawn by them which we passed on. Then we went on for panic braking test in which it was required to brake the vehicle in a particular distance which we passed in 2 rounds. Then we went on for Static Evaluation in which they checked our design on Innovation, Craftsmanship, Roll cage, Suspension, Steering and Brakes and Marketing and Cost point of view in which did well by describing our each and every point of design. 2.2.3 THIRD DAY (18 February 2012) 18th was the of Dynamic event. First one was Acceleration event in which it is required to accelerate the vehicle upto certain distance in minimum time we did it fairly well. Then there was Manoeuvrability in which vehicle was tested on rough terrain we did it fairly well. Then there was hill climbing of 45 deg we did it in first attempt thus how ended third day. 2.2.4 FINAL DAY (19 February 2012)

This day Endurance Event was going on which is of 4 hrs of racing the ATV. We checked our vehicle from all points and finally we were ready for endurance. Race started on well we completed our 7 laps quite well and opted for refuelling then re entered the race everything was going well but suddenly our Gearbox got broke on race was ended for us at that point .

3. PRIZE DISTRIBUTION (19 February 2012)

Day ended with us getting the **First prize in Go-Green category** of **2 lakhs** to **TEAM- NEBULA** (Team No.99). Everything ended with lots of theoretical and practical learning and with award in hand.
Mechanical Engineering Department

ISHRAE IET student chapter

The following were the important ISHRAE (Indian Society of Heating Refrigerating and Air-Conditioning Engineers) activities carried out during the last year

1. The ISHRAE IET student chapter was installed July 17, 2010. Mr Ashish Rakheja, ex ISHRAE president delivered the oath to the student members
2. The Student members visit the Central Mall in Indore in November 2010. The technical details along with the various Air conditioning equipments were laid open before the student.
3. Some of the student members participate and other members witness the Technical fest Technochill 2011 held in Medicaps Institute of Technology and Management (MITM) Rao, Indore. In Six Student chapter students across indore participated in the event. IET bagged the First prize in Skit and Business modelling competition while stood second in singing competition.
4. The CD's containing ISHRAE journals and other technical matter was provided to the student members.

TECHNOFEAST

ABOUT TECHNOFEAST

With the desire to instil technical knowledge and build a strong foundation among the students of the college, the "CSI-IET Student Branch" also organised a series of workshops under the event "TECHNOFEAST". It commenced with the workshop SMART COMPUTING, on 25th August 20I12. It was followed by SMART CLOUD VISION on 7th October 2012. In the series we had KNOW YOUR SYSTEM, which was conducted on 10th October 2012 based on an insight into system's software and hardware along with some computer tips and tricks. This was followed by the seminar on ROBOTICS held on 08th October 2012 in which the students gained knowledge about basics of robots. The concluding workshop was on the PRINTED CIRCUIT BOARD held on 14th October 2012. The FEEDBACK FORMS contributed to valuable suggestions to further areas of improvement. In a nutshell, with the successful completion of the events, the CSI-IET Student Branch achieved its motive of "LEARNING BY SHARING" with a promise to continue its efforts in the future.

SMART COMPUTING – 25th August, 2012

On 25th August 2012, Smart Computing workshop was successfully organised by CSI-IET Chapter, with a huge response from the students even from outside IET and especially I and II year students. A handful contribution of 270 students made the event worth gaining. Workshop commenced with the session on "Smart Computing" taken by **Shantanu Jain**, Sophomore(Computer Engineering).

Topics that were covered:

* Logon Screen Tweaker for Windows 7;

*Trojan Horse;

*Virtual Keyboard;

*Google tricks with ample EXamples.

Brain Storming questions for audience were asked by **Saniya Jaswani**(Comp) and **Apurva Vyas**(IT), II year

students, and goodies were distributed to mass.

Next, we had LAN-Gaming in which participants enjoyed along with the audience.

Adding on to the workshop, second session was taken by **Girish Singh Thakur**, III year Student, (Secretary CSI-IET) on- Virtual Machines. He covered the following topics:

-How to develop LAN;

-Google Chrome Introduction and Features;

-An intro to client server system;

-And some general tips and tricks.

To conclude the event, Mr. Saurabh Bansal, President CSI-IET, gave the Vote of Thanks and appreciated the participation and praised the working team.

SMART CLOUD VISION – 7th October, 2012

The usual goal of virtualization is to centralize administrative tasks while improving scalability and overall hardware-resource utilization. With virtualization, several operating systems can be run in parallel on a single central processing unit (CPU).

An Eminent speaker from NIIT, Tower Square, Indore- Mr Lakhan Singh Chandel, disseminate his lore on the attendees.

Navaljeet Singh Arora, Balkaran Singh Chandel, Saniya Jaswani, Harshal Wadhava ,Apurva Vyas assisted in the workshop through configuration and installations of systems.

Under **Virtualization**, following plots were Explored:

- Intro of Vmware;
- Intro of vsphere client;
- Intro of VCenter;
- Intro of esxi 5.0 host;
- Installing of Vmware Vsphere 5.0;
- Installing of vsphere client;

- Installing of vsphere client;

- Installing of VCenter;

Cloud computing is the use of computing resources (hardware and software) that are delivered as a service over a network. The name comes from the use of a cloud-shaped symbol as an abstraction for the complEX infrastructure it contains in system diagrams.

Cloud Computing Explored following plots:

- Intro of Cloud Computing
- Intro of different Cloud
- Intro of SAS Cloud
- Intro of PAS Cloud
- Intro of IAS Cloud
- Public Cloud
- Private cloud
- Hybrid cloud
- Installing of Vcloud DirECtor I Year.5.I Year

KNOW YOUR SYSTEM –10th October, 2012

As the name suggests, this event is about discovering your system, consisting of two sessions, each on Hardware and Software. In the first session, conducted by **Navaljeet Singh Arora** and **Balkaran Singh Chandel**, the participants learned about each and every hardware part which are present on motherboard as well as assembling and disassembling components of CPU. This session includes presentation and practical on systems.

In the second session, **Ashutosh Porwal** and **Abhishek Koserwal** provided knowledge about some software as Adobe Photoshop, Adobe Flash, Adobe Dreamweaver, Corel Draw with many more tips and tricks like windows formatting and the concepts of bootable pen drive.

The objective of this event was to create a better understanding to the participants about various hardware parts of PC, assembling, disassembling and formatting of PC. The students develop their soft skills in editing the pictures and making the posters.

SMART ROBOTICS – 8th October, 2012

An introduction to Robotics:

Robotics is the branch of technology that deals with the design, construction, operation and application of robots and computer systems for their control, sensory feedback, and information processing.

It can be recapitulated as development of a wide range of skills, including creative thinking, design, mechanics, electronics and programming.

Enabling participants to peep in various domain of robotics on different levels and interfacing with MATLAB. Another successful workshop conducted.

PRINTED CIRCUIT BOARD (PCB) Designing:-On I4th October,20I2

A PCB designing workshop was organized by CSI IET DAVV, Indore chapter. This was to emphasize on circuit designing skills of students. As circuit analysis and designing is the basic requirement of an electronic engineer. A **printed circuit board**, or **PCB**, is used to mechanically support and electrically connect electronic components using conductive pathways, tracks or signal traces etched from copper sheets laminated onto a nonconductive substrate. It is also referred to as **printed wiring board** (**PWB**) or **etched wiring board**. Printed circuit boards are used in virtually all but the simplest commercially produced elECtronic devices.

A PCB populated with electronic components is called a **printed circuit assembly** (**PCA**), **printed circuit board assembly** or **PCB Assembly** (**PCBA**). In informal use the term "PCB" is used both for bare and assembled boards, the contEXt clarifying the meaning.

The workshop was taken by Vidhi Jain, Saurabh Pandya and Anukrit Saxena of II year IET DAVV.

It was a whole day workshop divided in three parts

1. By Introduction
2. Designing on software
3. Implementing

The event was attended by 38 students from various engineering colleges like CITM, ACROPOLIS, RKDF, IET etc.

The introductory part was taken by Anukrit Saxena, he introduced the participants with basic circuit elements like resistors, capacitors, toroid's etc. then he emphasized on implementing circuits by different methods like on breadboard Vero board and PCB. Then they were made aware of the types of PCB's and its chemistry.

Then Vidhi Jain continued the flow of workshop by helping participants to install the software EAGLE, then adding libraries. After it they were introduced with the circuit of transmitter. Now the journey begins to draw schematic of the circuit, the first part of circuit designing. After completing the schematic we had half an hour break.

The participants were delighted with DOMINOS PIZZAS and coldrinks.

Meanwhile a kit containing nECessary components for PCB designing was provided to the participants.

Erasing the hunger workshop was continued by Saurabh Pandya, he began with switching to board, rearranging components, routing and finally making the circuit ready to print.

Then third part of the workshop was joint efforts of all three and volunteers of TECHOZ SOLUTION. The participant were demonstrated how to print on board, etching the board, drilling holes and finally mounting the components on the PCB.

A competition was announced to design Receiver circuit. The deadline to submit entries was 2I Yearst October 20I Year2.

At the end a encouraging speech by Mr. SAFI PATEL owner of TECHOZ SOL. Was delivered. He focused on practical versus academic knowledge and importance of PCB designing in today's era. His enthusiastic speech gave a successful end to the last workshop of TECHNOFEST 20I Year2. After it they were awarded with CERTIFICATE of Participation.

CSI-IET
PRESENTS
Quiztrix 2.0

CSI-IET organised the Quiz Competition -Quiztrix 2k12 on 30th and 31st August'12. A huge participation from students made the event a success. The competition had 3 rounds which were held in 2 days. On the first day, we had our preliminary round in which 112 teams, comprising of 2 players, participated. For round -2 top-25 teams were selected and they took the challenge of second level on the second day. Finally, top-6 teams were selected to play the LIVE-round. The quiz master- Mr. Saurabh Bansal, asked

the questions to students and also entertained the audience. After all the 5 main rounds, we had our winners. They were-

1. Ashutosh Goswami and Vibhor Srivastva , III year ENTC got exciting prizes with certificates.

2. Parth Kotecha and Anshul Thappa, II year CS got exciting prizes certificates.

And all the other 4 teams got complementary prizes and applauses.

Audience questions made the august audience the winners of goodies.

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and the mission of the department in line with the University

Vision:

* Remaining at Forefront of Engineering Education, strives ceaselessly to shape the young enthusiasts into technical professionals and professional communicators through rigorous process of knowledge and technology acquisitions leading to expertise , and offers human resources in technology within the national focus

6.1.2 Mission statement definition for the department's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, the institution's tradition and value orientations, its vision for the future,

Mission:

- Creating an enthusiastic and synergetic environment
- Developing the youth into integrated and well-rounded personalities to meet the challenges of technological competitiveness
- Nurturing intellectual, ethical, social and national values
- Updating technical and professional know-how and sharing it with others creatively in an effort to realize Technology Vision of India
- Instilling pride in India's cultural heritage and commitment to serve the country under all circumstances

6.1.3 Write-up of

* ensuring the organization's management system development, implementation and continuous improvement NA

* interacting with its stakeholders NA
* Reinforcing a culture of excellence

1. To attract and retain students:-

* Great degree of emphasis on interactive and regular class room teaching, Appointment of adequate faculties, Personal attention and student centric teaching, Well equipped laboratories and practical training, Conductive, disciplined, healthy and supportive atmosphere, Safety and security, Recognition and encouragement of talent, Use of modern teaching aids, Scholarships to SC/ST students, Helping non-teaching staff, Organization of a variety of student's development activities, Supportive and additional courses through IGNOU,
* **2. To enhance student's performance**:-
* Enhancement of student's performance is an issue taken great care of by the institution. The faculty members adopt various methods like personal counseling to slow learners. A freedom is provided to students to approach faculty members for personal counseling. Proper space is provided in the departments for personal counseling of students.
* On the job training projects, industrial visits, assignments of various types, presentations, group discussions are made part of curricular and co curricular activities.
* The progress of students is regularly monitored and necessary feed back is given to them. A platform is provided to the students to show, enrich and shape their talent, necessary guidance is given to them.
* **3. To meet their expectations of learning:-**
* Institution is eager to satisfy the academic hunger of students. Implementation of innovative practices has been adopted in teaching-learning process to make the learning more effective. A number of reference books are made available to the students in various subjects to provide them opportunity to feel the subjects in a broader sense. Extra classes and time is given to students for extra teaching.

* identifying organizational needs and striving to fulfill them

6.1.4 Records of Departmental and other committees meetings

File No. 6.1.4

6.1.6 Write-up of a culture of participative decisions in the department

All major decisions are taken through Departmental and other sub committees.

- Involvement of faculties in decision making is very important for the growth of an academic institution as they are the strong pillars of the institution. Keeping this great fact in view faculties are involved in decision making, planning of the academic and other events.
- Management always invites suggestions from faculty members and provides financial, infrastructural support to carry out different activities.

- Director listens to the staff members and allows them to share their thoughts, ideas and views.
- Open discussions in the staff meetings.
- Faculties are members of various committees and they are given free hand in executing their plans.
- Faculties are members of Board of Studies of their related subjects and are actively involved in curriculum making process.

File No. 6.1.6

6.1.7 Record of Grooming leadership at various levels

Decentralization of the academic and other activities through making arrangement of departmental heads, Prof In-charges for various sections, coordinators for different cells.

File No.6.1.7

6.1.10 Record of knowledge management strategy

CD's , Project Reports , Publications Copy

PPT's are kept in department library File No. 6.1.10

6.1.11 Write up on

* Contributing to national development

- Increasing the access to higher education.
- Providing financial support to the weaker section of society.
- Offering a number of job oriented courses.
- Establishment of placement cell to help and prepare student in getting job.
- Organizing personality development and career guidance programmes.
- Organizing women empowerment programmes.
- Organizing Yoga and other health awareness programmes.

* Fostering global competencies among students
  - Providing exposure to students by organizing educational tours and Industrial visits.
  - Offering programmes in newly emerging subjects as per current industrial requirements
  - Offering a number of job oriented trining programmes in order to meet the global requirements.

- Providing industrial training to students.
- Establishment of placement cell to help students in getting jobs.
- Training in information technology is provided to students through various programmes.

- Promoting students participation in programmes related to advancement of education.

* Inculcating a sound value system among students
  - Curricula with built-in topics for promoting value systems.
  - Propagation of value systems through periodical
  - Organization of invited talks, on Vivekanand, Pt. Madanmohan Malviya,meetings focusing on respective philosophies.
  - Inviting collections from students for catalogues related to strengthening of value system.
  - Displaying portraits of great philosophers such as Mahatma
  - Gandhi, Dr. B.R. Ambedkar, Gurudev Ravindranath Tagore etc. as symbols of their social values.
  - Displaying quotations by great philosophers at corridors so that students, faculties and visitors repeatedly can have a look at them.

* **Promoting use of technology**
  - Creating suitable infrastructure for modern methods of teaching through ICT.
  - Extending the computer and internet facility to every department.
  - Facilitating Lectures, seminars/presentations through power point.
  - Direct access to a number of research Jaournals/ periodicals to every faculty member through e journals.
  - Laboratories of various departments are enriched with latest technology / instruments/ softwares.
  - Semi computerized administrative block.
  - Computerization of examination and accounts section.
  - Conducting computer literacy programmes for non teaching staff and students.

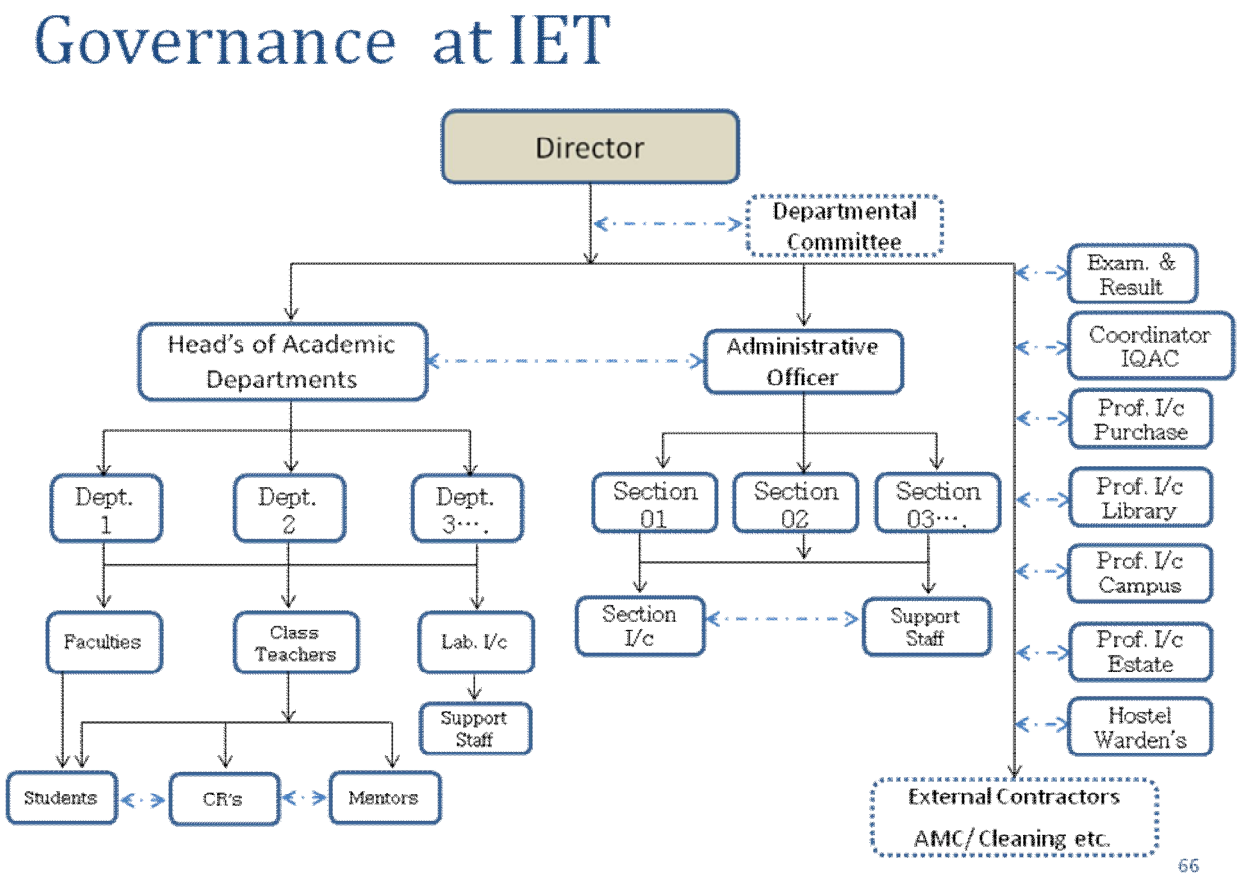
* **Quest for excellence**
  - Establishment of research cell for promotion of research.
  - Establishment of IQAC for monitoring and providing measures for improvement of quality.
  - Financial support to faculty members for attending and presenting research papers in conferences/seminars.
  - Organizing personality development programmes to inculcate self reliance in students.
  - Peer evaluation is preferred in case of theory and practical examinations.

6.2 Strategy Development and Deployment

6.2.1 Perspective plan for development and write-up of policies and strategies to

* work for Vision and for achieving the mission
* Enhancing Teaching and learning
* Enhancing Research and development
* Enhancing Community engagement
* Enhancing Human resource planning and development
* Enhancing Industry interaction
* Enhancing Internationalisation

6.2.2 Departmental organizational structure and decision making processes and their effectiveness.



6.2.3 Write up of functioning independently and autonomously and ensure accountability

6.2.5 Record of last four years, have there been any instances of court cases filed by and against the department, What were the critical issues and verdicts of the courts on these issues

NIL

6.2.6 Performance audit of the department by external experts NIL

6.3 Faculty Empowerment Strategies

6.3.1 Outcome of the reviews of self appraisal and PBAS and important decisions taken on that
Available at University

6.3.3 List of teachers availing welfare schemes available for teaching and non-teaching staff.
Karmachari Sahayata Kosh.

6.3.4 List and number of attracted and retained eminent faculty in last 4 years -

6.3.5 Gender audit during the last four years of the department achievements and pass percentages and its salient findings. -

6.4 Financial Management and Resource Mobilization

6.4.1 Statements of audited income and expenditure of academic and administrative activities of the last four years. - File No. 6.4.1

6.4.5 Efforts taken by the department for resource mobilization. -

6.4.6 Record of endowment funds created -

6.5 Internal Quality Assurance System

6.5.1 Details of department internal quality assurance and sustenance system, give details.

Active IQAC

6.5.2 Internal workshops to improve teaching, learning and evaluation File No.6.5.2

6.5.3 Record of continuously review the teaching learning process File No.6.5.3

6.5.4 **Any other information regarding Governance, Leadership and Management which the university would like to include.**

- Institute relentlessly follows the goals mentioned in its vision, mission and objectives.
- Ultimate goal of nurturing engineering education and producing trained manpower for placement in Industries and other Institutions is being successfully achieved
- Academic calendar strictly followed
- Strong emphasis on class room teaching

CRITERIA VII: INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Department Area Green Audit details

7.1.2 Departmental initiative to make the campus eco-friendly?

- Environment consciousness programes
- Go green environment policy.
- Water harvesting/ recharging
- Water pond created
- Check dam construction
- Plantation for lush green campus
- e-waste management for disposal of electronic waste

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the department

7.3 Best Practices

- Academic schedule strictly followed.
- Strongest emphasis on class room teaching
- Result on time
- Best efforts for placement
- Karmachari Sahayata Kosh (charity practice)
- Grand level Recreational , Technical , and Socail activities by the students (Cultural programmes, etc.)