

NAME OF THE INSTITUTE: SCHOOL OF ELECTRONICS
CRITERION WISE ANALYSIS
INSTITUTE PROGRESSION REPORT

2012-2013

Part A:

S. No.	Criteria	Best Practices
1	Curricular Aspects	<ul style="list-style-type: none"> • Curriculum Updation and Revision done every semester • Last done in June 2013 • Course Plans available on website • View of experts from industry and academia and alumni on curriculum is taken regularly
2	Teaching-Learning and Evaluation	<ul style="list-style-type: none"> • Teachers use ICT for classroom lecture delivery. • Grading System as per IIT norms • Purely internal system of examination • Series of Tests, Quizzes • Evaluated answer sheets are shown to students for transparency in evaluation • Student's seminar is must in curriculum • Second year M.Tech. Students send monthly reports. These reports are regularly evaluated and grades are given for monthly progress.
3	Research, Consultancy and Extension	<ul style="list-style-type: none"> • Minimum criteria for Ph.D. : 2 International journal papers (desirable) • For M.Tech project based on research, one publication is desirable • Organized expert lecture on 'Ozone Day' 16th Sep 2013
4	Infrastructure and Learning Resources	<ul style="list-style-type: none"> • More than 11000 books available in the departmental Library • IEEE journals are available online from the central library • Library Area: 150 Sq. m • Modern Building with beautiful garden, Fully Wi-Fi • Full power back up in all classrooms and laboratories • Multimedia/DLP in every classroom/Lab • 24X7 Internet facility • In-House sports facility for Badminton and Table Tennis

5	Student Support and Progression	<ul style="list-style-type: none"> • Books on GATE, & other competitive exams are available in the library • Online Subscription: IEEE Explore, ACM • Book bank facility : 4 books issued to each student for entire semester • Students and Alumni Assoc. Books: 250 • Soft Skill Development classes i.e. Spoken English, Painting, Personality Development etc. organized periodically. • Teachers take extra classes to coach students for competitive exams like NET and GATE
6	Governance and Leadership	<ul style="list-style-type: none"> • Fortnightly departmental meetings are held and proper record maintained • Decisions are taken after discussing the issues in the meeting • Committees are formed for sharing administrative and academic works viz. anti ragging, Time-table, Exam coordination, Library, Maintenance, girl's grievance • Feedback is taken from the students at the end of each semester and counseling of concerned faculty is done by the head of the department • Regular meetings of class representatives with HOD are held
7	Innovative practices	<ul style="list-style-type: none"> • 2nd year M.Tech. Students are given complete guidelines for project work. • M.Tech. Students are encouraged to do their major projects in reputed companies or academic institutes • Teachers are encouraged and supported to attain higher qualifications and attend training programs for self-development • Alumni meets are conducted periodically • Teacher-Parent meeting are conducted annually

Part B:

01	Activities reflecting the goals and	Department has set up two new advanced
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	objectives of the institution	laboratories with funding from UGC
02	New academic programmes initiated (UG and PG)	M.Tech (Mobile Computing Technology) in 2008
03	Innovations in curricular design and transaction	Faculty members have set up new experiments for Laboratories in the areas of (i) VLSI Design (ii) Geomatica (iii) VHDL (iv) ADC (v) Wireless Communication (v) ARM Microcontrollers (vi) DSP
04	Inter-disciplinary programmes started	M.Tech (Mobile Computing Technology) in collaboration with School of Computer Science & IT
05	Examination reforms implemented	The continuous evaluation system is already in place as per University's Ordinance 31
06	Candidates qualified NET/SLET/GATE etc.	GATE 2013: 01 Student. UGC JRF-NET: 02 Students
07	Initiative towards faculty development programme	<ul style="list-style-type: none"> • Dr. Manju K. Chattopadhyay and Ms. Kirti Panwar attended five days Short Term Course On “<i>Mechatronics and Robotics</i>” 15 – 19 July, 2013 organized by Indian Institute of Technology, Indore • Ms. Kirti Panwar attended Attended ISTE Approved Two Week Short Term Training Programme on “<i>Design and Development of Automation using LabVIEW</i>” 01 – 12 July, 2013 organized by Instrumentation and Control Section, Electrical Engineering Department, Institute of Technology, Nirma University, Ahmedabad <p>Faculty members attended :</p> <ol style="list-style-type: none"> 1. Expert lecture on “Mobile Software Engineering – Challenges & Opportunities” by Dr. O.P. Vyas, Dean (R & D) Indian Institute of Information Technology, Allahabad on 30 Sep, 2013 at Institute of Engineering and Technology, Devi Ahilya University, Indore 2. Expert lecture on “Prospectives of

		<p>MEMS Applications and their fabrication technologies "MEMS by Dr. K. Gautam, IACQER on 28 Sep, 2013 at School of Electronics, Devi Ahilya University, Indore</p> <ol style="list-style-type: none"> 3. Seminar on "Networks on chip an Emerging Technology" by Dr. M.S Gour, Professor Department of Computer Engineering, MNIT Jaipur dated 19/01/13 4. Workshop on "Mentoring Inspirational lecture on Innovations in Computer, Mobile and Tablets" By Dr. Rajkamal, Professor School of Computer Science and Electronics, DAVV, Indore on 21st Jan 2013 5. Workshop on 'Quality issues in Academics, Paper Setting & Valuation', School of Computer Science & IT, Devi Ahilya University, 26 Sep 2012 6. Workshop on 'Aspects of Teaching-Learning: Best Practices' , May 10, 2013, SCSIT, DAVV, Indore 7. Talk on " Vision of Mahamana Madan Mohan Malaviyaji for Engineering Education in India" by Dr. Devendra Pratap Singh, organized by IET, DAVV, 04 Jan 2013 8. Dr. AP.J. Abdul Kalam, "Youth : Challenges & Prospects", University Auditorium, Devi Ahilya Vishwavidyalaya, 12 June 2013.
08	Total number of seminars/workshops conducted	<p>Workshops organized</p> <ol style="list-style-type: none"> 1. Workshop on "Mentoring Inspirational lecture on Innovations in Computer, Mobile and Tablets" By Dr. Rajkamal, Professor School of Computer Science and Electronics, DAVV, Indore on 21st Jan 2013 <p>Expert lecture</p> <ol style="list-style-type: none"> 1. Expert lecture on "Prospectives of

		<p>MEMS Applications and their fabrication technologies "MEMS by Dr. K. Gautam, IACQER on 28 Sep, 2013 at School of Electronics, Devi Ahilya University, Indore</p> <p>2. Lecture on Ozone Layer Depletion on World Ozone Day by Dr. J. S. Pandey, Chief Scientist & Head, Climate Change, CSIR-NEERI, on 16 Sep, 2013 at School of Electronics, Devi Ahilya University, Indore</p>
09	<p>Research projects</p> <p>a) Newly implemented:</p> <p>b) Completed:</p>	<p>(a) Innovative Programme Project in 2008 by UGC Sanctioned amount is 50 lacs</p> <p>(b) 05 Projects completed</p>
10	Patents generated if any	NIL
11	New collaborative research Programmes	MOU with I ² IT Pune and NRCS Indore has been signed to initiate collaborative research Programmes
12	Research grants received from various agencies	Rs. 50 lacs from UGC for Innovative Programme Project in 2008.
13	Details of research scholars	<p>I. Mr. Namit Gupta</p> <p>II. Mr. Shitesh Tiwari</p> <p>III. Mr. Parag Parandkar</p> <p>IV. Mr. Amit Udawat</p> <p>V. Mr. Shekhar Sharma</p> <p>VI. Mr. Shafi Patel</p> <p>VII. Mr. Basant Tiwari</p>
14	Citation index of faculty members and impact factor	-
15	Honors/Awards to the faculty	
16	Internal resources generated	Self Finance Fees
17	Details of departments getting SAP, COSIST (ASSIST) /DST.FIST, etc. assistance/recognition	UGC's Innovative Programme for starting M.Tech (Mobile Computing Technology), Amount Rs. 50 lakhs

18	Community services	-
19	Teachers and officers newly recruited	Temporary full time teachers: 1. Mr. Rameez R. Chowdhary 2. Mr. Manoj Lokare
20	Teaching-Non-teaching staff ratio	1:1
21	Improvements in the library services	Departmental library is having more than 11000 books
22	New books / journals subscribed and their value	NIL
23	Courses in which student assessment of teachers is introduced and the action taken on student feedback	In all courses, student feedback is taken at the end of each semester
24	Unit cost of education Unit cost = total annual expenditure of Regular and Self Finance Funds + Grants Divided by the number of students enrolled.	34,798.17 (excluding salary component)
25	Computerization of administration and the process of admissions and examination results, issue of certificates	Computerization of administration and the process of admissions and examination results, issue of certificates has already been done in the department
26	Increase in the infrastructural facilities	1. Maintenance of batteries for back up in Labs 2. Antivirus software for PCs
27	Technology up gradation	
28	Computer and internet access and training to teachers and students	All faculty members have been provided computers, printers, Power back up UPS in their cubicles. Faculty members are encouraged to get training from courses run at ASC, DAVV
29	Financial aid to students	Scholarship from AICTE and departmental resources, UGC SC/ST Scholarship, MP Govt SC/ST Scholarship
30	Activities and support from the Alumni Association	Alumni Cell in the department exists since last ten years. The major job of the alumni cell is to organize expert lectures, soft skill development of students, to organize cultural activities of department and other Co-curricular and Extra-curricular activities for the students of the department

31	Activities and support from the Parent Teacher Association	School organizes Parent-teachers meet regularly. The last meeting was organized on 14 th Aug 2013.
32	Health services	Students living in University Hostels have access to University's Primary Health Centre (PHC)
33	Performance in sports activities	Students take part in sport activities under the banner of School of Physical Sciences
34	Incentives to outstanding sportspersons	-
35	Student achievements and awards	<p>(i) Student of M.Tech Batch 2010-12 did project training in ISRO, DRDO, NRSA, HARSAC Hisar, Tata Technologies, ST Microelectronics, ST Ericsson, Patani Computers, Tata Elxsi,</p> <p>(ii) Student of M.Tech Batch 2010-12 got selected in the MNCs viz.</p> <ol style="list-style-type: none"> 1. ST MICROELETRONICS, G. NOIDA 2. INFINIUM SOLUTION PRIVATE LIMITED, AHMEDABAD 3. MOBIPLUSE 4. DIGITAL FUTURE OF EDUCATION, BANGALORE 5. AQUILONIS, BANGALORE 6. DIMTS, DELHI <p>(iii) 04 students got selected for UGC's Rajiv Gandhi fellowship (SC/ST) scheme for Professional Courses for SC/ST candidates for the year 2011-12 during the financial year 2012-13</p>
36	Activities of the Guidance and Counseling unit	Informal guidance and counseling are continuously provided to students by different faculty members of the department
37	Placement services provided to students	<p>School has separate Placement Cell which keeps on</p> <ol style="list-style-type: none"> (i) Organizing recruitment drive. (ii) Organizing Aptitude test (ii) Organizing the expert lectures on Personality Development and Soft Skill Development

38	Development programmes for non-teaching staff	(i) Non teaching technical staff is involved in major laboratory skills development programme organized by faculty/industry time to time. (ii) Non teaching technical staff are encouraged to pursue higher degrees.
39	Healthy practices of the institution	(i) Faculty members are encouraged to participate in Symposium, Workshop, Conference across the country to continuously update their knowledge. (ii) Book bank facility is provided to students (iii) Students have been encouraged to participate in Symposium, Workshop, Conference. Expenditure, thereof, has been borne by the department
40	Linkages developed with National/International, Academic/Research bodies	The department has signed MOU with IIT Pune, RRCAT Indore, CEERI Pilani
41	Any other relevant information the institution wishes to add	Departmental building is fully Wi-Fi; Departmental Library has 11000+ books; Multimedia/ LCD is placed in every classroom/Lab and full power back up in the laboratories/class rooms is available. Seminar Hall has an Electronic Board.

Part C: Detail the plans of the institution for the next year:

- School has modern Building with beautiful garden, fully Wi-Fi, Departmental Library with 10000+ books, 24x7 Internet, Multimedia/ LCD in every classroom/Lab and full power back up in the laboratories/class rooms.
- Since school runs 5 courses, improvement of infrastructure is going on
- *MOUs and Collaborations:* The department plans to sign MOU with IIT, Indore.
- *Research projects carried out:* UGC has also sanctioned Rs. 19 lacs under Infrastructure grant and XI Plan. This will have positive impetus to R&D Development in the department.
- Organization of Seminars, Conferences and Workshops at State/National.
- Strengthen the placement, guidance, counseling and extension service cells
- Appointment of regular Qualified and Research Oriented Faculty
- To strengthen research activities, new research projects will be submitted to various funding agencies
- Faculty participation in Seminars, Conferences and visits will be encouraged

- Collaborative research activities will be promoted.
- School is planning to set up new advanced laboratories:
 - *Database Laboratory*
 - *RTOS Laboratory*
 - *Research Centre for Mobile Computing Technology*
- Department is planning to start new courses:
 - *M.Tech (VLSI & Microelectronics)*
 - *M.Tech (ICT)*
 - *M.Tech (5 year) along with IET, DAVV*
- Plan on improvement in Relationship with stakeholders
 - *Parent-teachers meet:* School organizes Parent-teachers meet regularly which has definitely improved the relationship between faculty and parents. The meet was organized on 08th Sep, 2007 & on 24th Jan, 2009. Such interactions have also enabled us to know parent's expectations from us. School also plans to hold a number of teacher-students meeting (outside the regular class), and teacher-teacher meeting. Such interaction is expected to lead to improvement in the academic quality and overall environment of the School.
 - *Alumni Activities:* Last University level joint Alumni Meet was organized on 14th Aug, 2013. This enabled students to interact with their seniors. Alumni from abroad also came to attend the meet. The School maintains separate Alumni Cell in the department. The functioning of the cell spans from organizing expert lectures for soft skill development of students, to organizing Cultural Activities of department and other Co-curricular and Extra-curricular activities for the benefit of the students.

Name & Signature of Coordinator, IQAC

Dr. Abhay Kumar
Head,
School of Electronics