NAME OF THE INSTITUTE: <u>SCHOOL OF ELECTRONICS</u>
CRITERION WISE ANALYSIS
INSTITUTE PROGRESSION REPORT

2011-2012

Part A:

S. No.	Criteria	Best Practices
1	Curricular Aspects	- Curriculum Updation and Revision done every year - Incorporation of latest technology trends in Electronics Technology in curriculum - Curriculum last updated in June 2012 - Course Plans available on website - Views of experts from industry and academia and alumni on curriculum is taken regularly
2	Teaching-Learning and Evaluation	- Teachers use ICT for classroom lecture delivery. - Credit and Grading System as followed in IIT's - Purely internal system of examination - Series of Tests, Quizzes, seminars - Evaluated answer sheets are shown to students for discussions thus ensuring transparency in evaluation - Soft Skill Development classes i.e. Spoken English, Painting, Personality Development etc. organized periodically. - Teachers take remedial classes to coach students for competitive exams like NET and GATE
3	Research, Consultancy and Extension	- Four faculty members are holding Ph.D 13 Ph.D students are registered - UGC Innovative Programme scheme (2008-2013) is in progress - Faculty members have participated in a number of conferences/workshops held across te country - Department organized three workshops in the latest trends of electronics technology.
4	Infrastructure and	More than 11000 books available in the departmental Library

	Learning Resources	• IEEE/ ACM journals are available online from the central library • Library Area: 150 Sq. m • Books on GATE,NET & other competitive exams are available in the library for students • Book bank facility : 4 books issued to each student for entire semester • Students and Alumni Assoc. Books: 250 • 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	• The number of applicants for M.Tech courses in last five years is on increase in a consistent way • The number of applicants in the year 2012 is 650 whereas the same number was 375 in the year 2007
6	Governance and Leadership	• Fortnightly departmental meetings are held and proper record maintained • Academic policy matters are discussed in the faculty meeting and suitable decisions are arrived at in the interest of students benefit • Different administrative Committees consisting of faculty and staff are formed for smoothening of various academic, ragging, exam etc. related issues of students. • Girl's grievance committee exists • 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	• M.Tech. Students are encouraged to do their major projects in reputed companies or academic institutes • Regular feedback is taken from the concerned senior executives working as their supervisor and included while finalizing their projects

		grades
		• 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 objectives of the institution	Department has set up two new advanced laboratories with funding from UGC
02	New academic programmes initiated (UG and PG)	M.Tech (Mobile Computing Technology) in 2008(PG)
03	Innovations in curricular design and transaction	Faculty members have set up new experiments for Laboratories in the areas of (i) VLSI Design (ii) Image Processing (iii)VHDL (iv)ADC (v) Wireless Communication (v)ARM (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 2012: 05 Students. NET 2012: 02 Students
07	Initiative towards faculty development programme	1. Ms. Pratibha Umale, Ms. Kirti Panwar and Dr. Manju K. Chattopadhyay attended UGC Sponsored 101st Orientation Programme, 21 June – 18 July 2011. All Secured 'A' Grade 2. Ms. Pratibha Umale and Dr. Manju K. Chattopadhyay attended UGC Sponsored Refresher course in Computer Application, 28 Sep – 18 Oct 2011 and both Secured 'A' Grade 3. Ms. Kirti Panwar attended UGC Sponsored Refresher course in Electronics, 8th – 28th Nov, 2011 and Secured 'A' Grade

		4. Ms. Kirti Panwar attended Five-day training program on "Basics of Geomatics (Image Processing & GIS) using Open Source Software" organized By DAIICT, Gandhinagar, 18th – 22nd June, 2012 and Three days SOLAR RADIO Workshop, 23rd-25th Nov, 2011 organized by National Centre for Radio Astrophysics, TIFR and the University of Pune, Pune. Faculty members attended : 5. One day Workshop on "Mobile Computing" (WMC-2012) on 05 March 2012 organized by, School of Electronics and School of Computer Science & IT, DAVV, Indore & ICEIT, DAVV, Indore Chapter. 6. Three days Workshop on "Short Term Training Programme on Embedded System Programming" (SESP-2012) on 24-26 Feb. 2012 organized by, School of Electronics, DAVV, Indore 7. Two days National Workshop on "Mobile System Programming" (NWMSP-2012) on 10-11 Feb 2012 organized by, School of Electronics, DAVV, Indore. 8. Two days National Workshop on "Next Generation Networks"(NWNGN) on 27th – 28th Jan 2012 organized by, Institute Of Engineering and Technology, Devi Ahilya University, Indore.
08	Total number of seminars/ workshops conducted	**One Short term training programme was conducted** 1. IEEE and UGC sponsored "Short Term Training Programme on Embedded System Programming (SESP - 2012)", 24th -26th Feb 2012. Expert was Prof. P.W. Dandekar, SVCE Indore. **Three Workshops were organized during current year** 1. Workshop on "Mobile Computing" 05th March, 2012 Jointly Organized by School of Electronics and School of Computer Science & IT, Devi Ahilya University, Indore & Institution of Communication Engineers and Information

Technologists, Devi Ahilya University, Indore Chapter. Experts were Prof. H. M. Gupta, IIT Delhi and Mr. Nilesh Maheshwari, Founder & CEO at eMorphis Technology Solutions.
2. UGC Sponsored "National Workshop on Mobile System Programming (NWMSP-2012)" on 10th – 11th Feb, 2012. Expert was Dr. S.R.N Reddy from IGIT, Indraprashtha University, New Delhi
3. Workshop on "Android Application Development" by Mr. Nitin Gharia, Sofmen Technology, Indore on 15th Oct, 2011

Two Seminars were organized

Seminar on "Personality development and attitude building", By Mr. Sandeep Atre , Edge Maker, Indore on 3rd Sep, 2011
1. Student Career Guidance Seminar, By Mr. Deepak Mittal (GM), Tata Communication, Mumbai on 23rd July 2011

09	Research projects a)Newly implemented: b)Completed:	(a) Innovative Programme Project in 2008 by UGC Sanctioned amount is 50 lacs (b) 05 sponsored research Projects completed
10	Patents generated if any	NIL
11	New collaborative research Programmes	MOU with I^{2}IT Pune 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	(i) Ms. Reena Chaudhary (ii) Mr. Namit Gupta (iii) Mr. Shitesh Tiwari (iv) Mr. Parag Parandkar (v) Mr. Amit Udawat (vi) Mr. Shekhar Sharma (vii) Mr. Shafi Patel (viii) Mr. Basant Tiwari (ix) Ms. Suvarna Joshi (x) Ms. Vibha Tiwari (xi) Ms. Sarita Kansal (XII) Col A Ahluwalia (xiii) Mr. Ajay Kulkarni
14	Citation index of faculty members and impact factor	-

15	Honors/Awards to the faculty	1. Dr Rajkamal was elevated to the post Vice-Chancellor from 6th Dec 2011 to 27th June 2012 2. Ms. Kirti Panwar & Dr. Alka Dubey received Appreciation letter from Honorable Vice Chancellor for teaching/ academic/ research work.
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	-
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. 13 latest Pentium Computers are purchased in the current year 2. 2 U. P. S. purchased for Labs 3. 23 batteries for back up in Labs 4. Antivirus software for 86 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 24th Jan, 2009.
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	(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, (ii) Student of M.Tech Batch 2010-12 got selected in the MNCs viz. ST Microelectronics etc (iii)04 students got selected for UGC's Rajiv Gandhi fellowship (SC/ST) scheme for Professional Courses for SC/ST candidates for the year 2010-11 during the financial year 2011-12
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	School has separate Placement Cell which keeps on (i) Organizing recruitment drive. (ii) Organizing Aptitude test

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- 1.Ms Aparna Deo completed M.Tech (Mobile Computing Technology) 2009 – 2012. 2.Ms. Vasanti Parulkar completed B.E. (Electronics & Communication) 2008 – 2012
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 I^2IT 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.

(Row above table, continued): (ii) Organizing the expert lectures on Personality Development and Soft Skill Development

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

- 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: Departmental faculty plans to undertake sponsored research projects in fields of Signal processing, Microelectronics, Mobile computing, Data Acquisition etc. from UGC and DST in coming years
- 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 Alumni Meet was organized on 09th Jan, 2010. 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