INTERNAL QUALITY ASSURANCE CELL
V R SIDDHARTHA ENGINEERING COLLEGE
ACADEMIC AUDIT

Evaluation Sheet

Department Name : Electronics and Instrumentation Engineering

Programme Name : B.Tech

Academic Year : 2019-2020

I. PEO's, PO's and Curriculum

S. No	Criteria	Observations
1.	PEO's and PO's attainment	PO and PEO Articulation need to be improved
2.	Stakeholders feedback and evidence related to curriculum design	Stakeholder suggestions were recorded and considered in the vr14 curriculum design
3.	Extent of its satisfaction with curriculum revision	The stakeholder suggestions were discussed in BOS meeting and considered in VR17 curriculum revision.
4.	Percentage of lab component -No. of new experiments designed -Hardware / Software developed or Societal problems solved.	Data is available in the corresponding lab stock registers.
5.	Evidence of academic flexibility (Credits / Transitory regulations / Core or institutional electives)	The transitory regulations were documented along with credits.

II. Faculty information and their contribution

S. No	Criterion	Observations
1.	Teacher- student ratio	No. Of faculty: 19, Total No. Of Studnets:430, Teacher-Student ratio: 22.63
2.	Faculty Cadre ratio	Professors :1 -Associate Professors:3 -Assistants Professors:15
3.	Faculty qualifications	Ph.D-04 and M.Tech-15
4.	Faculty experience & retention	7.87 years of Retention at present
5.	Faculty contribution in writing: ……..books: ……..chapters:	06

6.	Members in Editorial boards: Awards/Rewards received:	1. Mr.V.NagaPrudhviRaj 2. Dr.N.Swathi
7.	Faculty in professional organizations: And faculty contribution:	Total No. of Faculty having Memberships :19
8.	Industry collaborative projects	Nil
9.	Faculty as resource persons in workshops / training activities	Mr.V.Naga prudhviraj acted as resource person for workshop titled "Hands on Matlab "during 14th -15th of Feb. 2020 at JNTUK, Kakinada.
10.	National level events organized -Conferences: -Workshops/ Seminars: -FDPs: International level events organized -Conferences: -Workshops/Seminars:	National level Workshops organized: Nil Guest lectures organized: 05 National level FDP:02 International level Events: Nil
11.	List of conferences/seminars/ workshops/ FDP's/ any exclusive programs attended for enrichment of teaching - learning process	Faculty participation: 19 members No of Int. Conferences attended by faculty: 05 No of FDPs attended by faculty: 97 No. of Workshops attended by faculty: 22 Guest Lectures attended by faculty: 15 Seminars attended by faculty: 93 No. of NPTEL/Coursera online courses completed: 129
12.	Faculty interaction with outside world (BOS/NBA/Examiner for PhD evaluation / selection committee / Academic auditing /Chief guest /etc.)	--

III. Teaching-Learning Process and Evaluation

S. No	Criterion	Observations
1.	Student performance indices Attendance Exams	No. of students detained in 2-1: 01, 2-2: Nil, 3-1: 01, 3-2:Nil, 4-1: Nil, 4-2:01.
2.	Mechanism and activities for slow learners for their improvement and outcomes	Remedial classes were conducted for the students who are lagging in Assignment and Sessional examinations. The remedial classes were reflected in

		Quality Circle File.
3.	Student counseling /mentoring mechanism	Counseling Records are Periodically Verified by Program coordinator and HOD.
4.	Tutorial classes	Verified the attendance registers for the tutorial classes. Details of tutorial problems are available in a separate file.
5.	Initiatives taken for innovative mini and major projects -Training for students & faculty	The following activities are organized by EIE Department for students to get awareness on various instrumentation areas. So, that students can able to select various topics for mini and major projects. *Workshops: 02 and Industrial Tours: 01 was organized. *The Details are available in a separate file.
6.	Best student projects with awards	---
7.	Monitoring of teaching-learning process -- Assessment of teaching process in classrooms. -- Random verification of evaluated answer papers and question paper during the semester. -- Innovative teaching methods presented if any -- Verification of course files	Data is prepared by P.Srinivas, program coordinator, EIE Department. **Assessment:** External results, Student feedback, Cos and Pos attainment and course end survey. **Random verification of answer scripts:** Verified by HOD and Program coordinator. **Innovative teaching methods:** PPTs with own annotations, Topics related NPTEL videos and model usage. **Verification of course files:** Verified by HOD and Program coordinator.
8.	Training programs conducted for students Guest lecturers: Seminars/ workshops:	No. of Guest lectures conducted for students: 05 *Proof for this activity is R& D File and News Letter – authorized by HOD.
9.	MoUs with Industries for internship	Three industries : 1.Que technologies, 2. MicroSys automation,3.Panda Analog&Digital Systems.
10.	Students feedback	Range of Feedback: above 4.0 Data is available in a Separate file.

11.	Feedback follow-up action	Not Required for 2019-20 A.Y.
12.	Scope for Self-learning Certificate courses Online courses	Some of the relevant NPTEL and Coursera courses are approved for EIE students.
13.	The differential requirements of student population **Male** : **Female :** **Cut-off rank** OC: BC: SC: ST: PH: **Range of CGPA & % of students** 10 -8 CGPA: 7 CGPA: 6 CGPA: 5 CGPA: No. & % age of failures: Success rate as per NBA guidelines:	Male: 42+25=67 Female:25+02=37 Cut-off Rank: The reservation wise data is available. The 2019-2020 results not yet received. 10 -8 CGPA: 7 CGPA: 6 CGPA: 5 CGPA: % of pass: % of Failure:
14.	Placements (%): Industries / organizations:	Total No. of Students placed: 81 Total No. of Eligible Students: 84 Placements in percentage: 96.4%
15.	Higher studies (%): Institutions:	Nil (Data is not available)
16.	Activities of students in professional bodies: Awards in co-curricular activities:	Total No. of Events under ISOI: 6 *Total No. of Students participated for the three events: 132

IV. Research, Consultancy and Extension		
S. No	Criterion	Observations
1.	Faculty publications in journals: Peer reviewed Journals: Thomson Reuters Impact Factor Journals: S-index: h-index:	International Journals: 20 (peer reviewed)
2.	Publications in conferences: - National - International	International Conferences: 05 National conferences: Nil
3.	Percentage of faculty contributing in … ....research publications: ....books: ....chapters:	No. of Faculty contributing in research publications: 19 Percentage of Faculty contribution: Research Publications: 19/19 = 100%

		Books: Nil
		Chapters: Nil
4.	PhDs -Registered: Submitted: Awarded: PhDs guiding /guided:	• Ph.D Submitted: 01 • Ph.D Registered: Nil • Ph.D Awarded : 01 • PhD Guided: 06 (Dr.G.N.Swamy)
5.	Funded R&D projects and consultancy work Applied: Ongoing: Completed:	Funded R&D Projects: Applied: 03 On-Going: Nil Completed: 02
6.	Faculty intellectual property rights	02
7.	In-house R&D grants & projects and their outcomes	Nil
8.	New research facilities/ laboratory facilities provided	Nil
9.	MOU's with industries/ R&D/ Premier institutes	Three industries : 1.Que technologies, 2. MicroSys automation,3.Panda Analog&Digital Systems.
10.	Research centers of excellence established: Outcome in research centers:	Nil
11.	Skill development centers established: outcome:	Nil
12.	Faculty involved in research and consultancy	No. of Faculty contributing in research publications: 19 No. of Faculty contributing in consultancy: Nil

V. Infrastructure and Learning Resources

S. No	Criterion	Observations
1.	Adequacy of infrastructural facilities to improve the teaching learning process Class rooms: Laboratories: ICT class rooms / e- class rooms: Seminar halls: Syndicate rooms Faculty rooms:	Class rooms:6 Laboratories:6 ICT class rooms / e- class rooms: 1 Seminar halls: 1 Syndicate rooms: Nil Faculty rooms: 17
2.	Internet facilities for faculty & Students:	*All the Faculty Rooms , Laboratories and Tutorial

		rooms are having Internet facility.(100MBPS)
3.	Technical manpower support	Total No of Technical Staff: 04
4.	Modern / new equipment added in laboratories	Data is available in the corresponding lab stock registers.
5.	Details of computing facilities and improvement	Nil
6.	Dept news letter / magazine	Yes, EIE Dept. is having News Letter with 2 issues per year.
7.	Department level library resources with details	35 new books are added for 2019-20 A.Y.

VI. Student information, Support and Progression

S. No	Criterion	Observations
1.	Bridge courses: Add-on courses:	Nil
2.	Student publications: Student prizes: Scholarships: Dept. student clubs:	Student Publications: Nil Student prizes: 17 Scholarships: Nil Dept. student clubs: ISOI-Student Chapter
3.	Details of coaching provided for GATE/GRE/any other competitive exams	Nil
4.	Industrial visits and internships	Industrial tours: No. of Industrial tours: 01 (KCP Sugars Pvt. Ltd.) Internships: 250 Students are attended for internships.

VII. Governance, Leadership and Management

S. No	Criterion	Observations
1.	Teaching and non-teaching staff attended for skill development programs	Non-Teaching staff: 04 The details are available in a separate file.
2.	MoUs with premier Institutions for knowledge exchange	Nil
3.	Quality policy & Quality objectives Committees & duties: Cells & duties:	Prepared by program coordinator and HOD.

4.	Maintenance factor -physical observation -Biometric -Attendance monitoring system	Biometric- Every month, monitoring is done by HOD Attendance monitoring system- Central level Administration.
5.	Financial support/leaves for qualification/skill up- gradation:	College will provide financial support for Workshops/Journals/Conferences.
6.	Risk evaluation/safety measures:	No. Of Fire extinguishers: Labs:5 + Dept. Office:1+ Seminar Hall:1

Academic Audit Report

2019-20 A.Y

1. Name of Department: Electronics and Instrumentation Engineering
2. No. of full time permanent faculty: 19
3. No. of part time Visiting/Adjunct faculty: 03
4. No. of PG / UG courses: PG-Nil, UG- B.tech -2 Sections
5. Curriculum Revisions Info: Available in BOS File
6. **Research:**

   Publications International Journals: 20

   National Journals: Nil

   National Conferences: Nil

   International Conference: 05

   Ph.D. Theses Submitted: 01

   Awarded: 01

   Number of Conferences/Lectures Organized: 07

   Guiding / Guided Ph.Ds – 07/01

7. Sponsored projects& amount:

   Applied: **3**, Ongoing: **Nil**, Completed: **02**

8. No. of Department Library Printed Books Added: 35

   Web-resources CDs added: Nil

   E-Books Added: Nil, Journal: Nil

9. No. of Faculty using ICT and PPTs:19
10. New Equipment and Infrastructure added:

    *Data is available in the corresponding lab stock registers.
11. Student feedback on Curriculum: Yes or No   : Yes
12. Strengths:

    (1) All files are maintained in correct manner.

    (2) NI academy and Siemens training are very useful for the students.

    (3) Good Improvement in placements
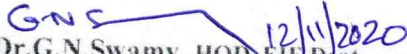
13. Weaknesses:

(1) Less number of Industrial tours.

14. General recommendations:

1. Improve more number of technical activities in ISOI.

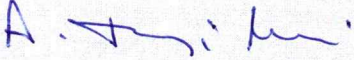2. Industry institute interaction needs to be improved
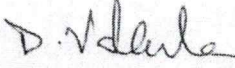
15. Suggestions for improvement:

1. Establish student Project lab in the department.
2. More efforts needed to improve projects funded by DST/AICTE/UGC etc.

Sig. of Departmental IQAC In-charge

Dr.G.N.Swamy, HOD, EIE Dept.

HEAD
Dept of Electronics & Instrumentation Engg
V R Siddhartha Engineering College
VIJAYAWADA 520 007

Sig. of Internal Academic Auditor

Sig. of External Academic Auditor