



Anil Neerukonda Institute of Technology & Sciences (Autonomous)

(Permanent Affiliation by Andhra University & Approved by AICTE
Accredited by NBA (ECE, EEE, CSE, IT, Mech. Civil & Chemical) & NAAC)

Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District

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No: ANITS/General Circular/IQAC/2022-23/44

15-09-2022

CIRCULAR

To review teaching – learning process, structures & methodologies of operations and learning outcomes, the Academic and Administrative Audit (AAA) Committee will visit the Departments and Administrative sections as per the following schedule. All the HoDs are requested to submit the softcopy & Hardcopy of AAA report to principal@anits.edu.in by 30th September, 2022.

| S.No | Dept. | Date | Auditors |
|------|---------------------|-------------------------|---|
| 1. | Mech. | 23.09.2022 – 24.09.2022 | Dr. Ch. Anil Dr. K. Srinivasa Rao |
| 2. | CSE | 23.09.2022 – 24.09.2022 | Dr. S. Siva Kumar Dr. A. Anupama |
| 3. | ECE | 23.09.2022 – 24.09.2022 | Dr. M. Raja Roy Mr. B. Ravi Kumar |
| 4. | EEE | 23.09.2022 – 24.09.2022 | Dr. B. Soma Sekhar Dr. Vijay Bhaskar Somu |
| 5. | IT | 23.09.2022 – 24.09.2022 | Dr. P. Viswarupachary Prof. V Sangeeta |
| 6. | Civil | 23.09.2022 – 24.09.2022 | Dr. S. Ram Prasad Reddy Dr. S. Srinivas |
| 7. | Chemical | 23.09.2022 – 24.09.2022 | Dr. J. Vikranth Dr. M. Rekha Sundari |
| 8. | BSH | 23.09.2022 – 24.09.2022 | Prof. R. Sivaranjani Dr. V. R. Lenin |
| 9. | Library & Exam Cell | 23.09.2022 – 24.09.2022 | Prof. K. Sivaprasad Mrs. G.V. Gayatri |
| 10. | Admin & Hostels | 23.09.2022 – 24.09.2022 | Dr. K. Selvani Deepthi Dr. Md. Sabirunnisa Gouse |


PRINCIPAL 15/09/22

To:

All HoDs

Concerned Members

Assistant Principals

Convener, IQAC , File of IQAC & Master file

Anil Neerukonda Institute of Technology & Sciences (Autonomous)

Observations & Recommendations made by the IQAC committee for the individual Departments (2021-22)

Electronics & Communication Engineering (ECE)

| S No | Criteria | Max Marks | Marks Obtained | Percentage | Improvements Shown | To Focus |
|------|--------------------------------|-----------|----------------|------------|---|--|
| 1 | Teaching – Learning Processes: | 300 | 287.8 | 95.93 | Implementation of teaching learning process is good | Industry involment in partial delivery of any regular courses for students |
| 2 | Student's Performance | 200 | 120.64 | 60.32 | Good number student placernet record Good number of students in higher education | Percentage of students without career backlogs need to be focussed. Achievements in curricular, co-curricular and extra-curricular activities |
| 3 | Faculty contributions | 250 | 156.88 | 62.75 | Faculty trained avante! ltd. people on advanced courses like Advanced digital communications and etc., and generated revenue | Faculty publications need to be improved Faculty having PhDs need to apply for research projects/Patents |
| 4 | Co-curricular activities | 100 | 76.03 | 76.03 | Expert faculty /industrial heas visits and number of guest lectures are good | Number of workshops/seminars/FDP conduction for faculty need to be improved Adjunct faculty |
| 5 | Students support systems | 85 | 75 | 88.24 | Strong mentoring system Good self learning mechanisam | Establishment of enterprenurship cell/activities |
| 6 | Continuous improvement | 40 | 32 | 80.00 | Student Intake Placements Higher education | PO and PSO attainment Student Pass percentage |
| 7 | Best Practices | 25 | 25 | 100.00 | Industry Institute Interaction and MoU Club Activities Moodle Innovative Teaching NPTEL Courses by Faculty/Students | ----- |
| | Total | 1000 | 773.35 | 77.34 | Satisfying | Should target to the level of 5 years NBA accreditation |



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Electrical & Electronics Engineering (EEE)

| S No | Criteria | Max Marks | Marks Obtained | Percentage | Improvements Shown | To Focus |
|------|--------------------------------|-----------|----------------|------------|--|--|
| 1 | Teaching – Learning Processes: | 300 | 257.39 | 85.79 | Usage of ICT Tools and facilities | Development of e-content/course modules |
| 2 | Student's Performance | 200 | 102.25 | 51.12 | Regular interaction and motivation with students | No. of Students going for Higher studies More no. of Participation in other Institutions NPTEL Certifications for students |
| 3 | Faculty contributions | 250 | 117.79 | 47.11 | Research papers and partipations (NPTEL etc) | Faculty publication in SCI/SCOPUS/UGC Care journals Research Projects and consultancies Faculty interaction with outside world |
| 4 | Co-curricular activities | 100 | 54.61 | 54.61 | MOU's and Models developed | Interaction with Alumni more no. of MOUs , skill based trainings Extention activities of the students |
| 5 | Students support systems | 85 | 70 | 82.35 | Majors and Minors | Paper publication |
| 6 | Continuous improvement | 40 | 18 | 45.00 | Placements | Higher studies, product based projects and Startups |
| 7 | Best Practices | 25 | 25 | 100.00 | Impact analysis | Appropriate analysis |
| | Total | 1000 | 645.04 | 64.50 | | |



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Mechanical Engineering (Mech.)

| S No | Criteria | Max Marks | Marks Obtained | Percentage | Improvements Shown | To Focus |
|------|--------------------------------|-----------|----------------|------------|--|--|
| 1 | Teaching – Learning Processes: | 300 | 285.7 | 95.23 | The stakeholders feedbacks are analysed for identification of curriculam gaps | analysis required for identification of curriculam gaps |
| 2 | Student's Performance | 200 | 104.56/170 | 61.50 | Regular interaction and motivation with students | Number of students without career backlogs need to be focussed. Student higher education |
| 3 | Faculty contributions | 250 | 128.21 | 51.28 | Procured Talysurf, Tool dynamometers & Gear test rig etc. which are being used to get revenue from consultancy works | revenue not generated from consultancy Faculty publication in SCI/SCOPUS/UGC Care journals Research Projects and consultancies Faculty interaction with outside world |
| 4 | Co-curricular activities | 100 | 76 | 76.00 | MOU's and Models developed | skill based trainings 6-10 day FDP/STTP conduction |
| 5 | Students support systems | 85 | 82 | 96.47 | mentoring system | Paper publications Student qualification in compititive examinations |
| 6 | Continuous improvement | 40 | 18 | 45.00 | Student publication is increased | Less student publications Student placement & Higher education Faculty publication |
| 7 | Best Practices | 25 | 20 | 80.00 | Industry Institute Interaction and MoUClub Ac | Appropriate analysis |
| | Total | 1000 | 714.47 | 71.45 | | |



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Computer Science & Engineering (CSE)

| S No | Criteria | Max Marks | Marks Obtained | Percentage | Improvements Shown | To Focus |
|------|-------------------------------|-----------|----------------|------------|---|---|
| 1 | Teaching – Learning Processes | 300 | 235 | 78.33% | Innovative Teaching methods are implemented, 3 value added courses are implemented | Interdisciplinary elective subjects should be offered as Open Elective subjects / Minors. To develop e-learning content by subject experts. |
| 2 | Student's Performance | 200 | 110.3 | 55.15% | Student enrollment achieved, placements have shown positive mark | percentage, Student interaction with industries, more participation in workshops |
| 3 | Faculty contributions | 250 | 151.35 | 60.54% | Faculty publications increased | Funding Proposals, projects and consultancies should be taken as priority improving student participation in sports/cultural |
| 4 | Co-curricular activities | 100 | 69 | 69.00% | Expert faculty visit, MOU's, Softskills | activities at national and international level, Technical collaboration with Alumni for more |
| 5 | Students support systems | 85 | 59 | 69.41% | Good mentoring system and support for self learning advanced courses | Entrepreneurship activities, Paper Publications |
| 6 | Continuous improvement | 40 | 18 | 45.00% | Gate classes, training sessions for placements | Higher studies, PO and PSO attainment , Increase pass percentage Alumni activities and club activities to be improved, |
| 7 | Best Practices | 25 | 18 | 72.00% | Club activities, Moodles, NPTEL courses, Department Library, | Motivate & Encourage students to improve programing skills and placements. |
| | Total | 1000 | 660.65 | 66.07% | | |



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Information Technology (IT)

| S No | Criteria | Max Marks | Marks Obtained | Percentage | Improvements Shown | To Focus |
|-------|--------------------------------|-----------|----------------|------------|---|--|
| 1 | Teaching – Learning Processes: | 300 | 291.58 | 97.19 | ICT Tools are extensively used MOODLE is used to the maximum extent Orientation is organized for faculty with less feedback Rubrics for all labs Rubrics for evaluating assignments | Value added courses for all the students are to be conducted Partial delivery of the course |
| 2 | Student's Performance | 200 | 156.925 | 78.46 | Success rate without backlogs is good Placement count is good Participation in NPTEL courses is good | Improvement in success rate Paper & model presentations at various levels should improve |
| 3 | Faculty contributions | 250 | 156.03 | 62.41 | Faculty participation in various activities is good Majority of the faculty members have membership in professional bodies Good contributions towards books and book chapters | Funded projects Consultancy works Improvement in journal publications & Conferences Development activities Guest lectures delivered by the faculty |
| 4 | Co-curricular activities | 100 | 61.59 | 61.59 | Alumni contributions Alumni meetings Functional MoUs | Expert faculty FDPs/Workshops Extension & Outreach Programs Adjunct faculty |
| 5 | Students support systems | 85 | 63 | 74.12 | Mentoring system Departmental library | Students participation in competitive exams Entrepreneurship activities |
| 6 | Continuous improvement | 40 | 31 | 77.50 | PO/PSO Attainment is good Improvement in Intake | Quality faculty publications |
| 7 | Best Practices | 25 | 23 | 92.00 | Best practices | Impact to be maintained for all practices |
| Total | | 1000 | 783.125 | 78.31 | | |



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Civil Engineering (Civil)

| S No | Criteria | Max Marks | Marks Obtained | Percentage | Improvements Shown | To Focus |
|------|--------------------------------|-------------|----------------|--------------|--|---|
| 1 | Teaching – Learning Processes: | 300 | 282 | 94.00 | Quality of journals where students projects published increased by 10% | Interdisciplinary open elective subjects may be encouraged Development of e-learning content by subject experts. |
| 2 | Student's Performance | 200 | 97.55 | 48.78 | 2.3 Target percentage of a students securing placements and pursuing higher studies has increased by 39% | Improvement in success rate Paper & model presentations at various levels should improve |
| 3 | Faculty contributions | 250 | 96.6 | 38.64 | 3.4 Revenue generated by consultancy improved by 50% | Research projects Papers presented in seminars/ conferences |
| 4 | Co-curricular activities | 100 | 83 | 83.00 | 4.2 Number of workshop/seminar/FDPs improved by 30% | Contribution from alumni, Number of functional MOUs |
| 5 | Students support systems | 85 | 71 | 83.53 | 5.4 Activities related to promote entrepreneurship increases significantly | Innovative projects |
| 6 | Continuous improvement | 40 | 20 | 50.00 | 6.4 Students placements / Higher studies increased significantly | Pass percentage Publications |
| 7 | Best Practices | 25 | 25 | 100.00 | | |
| | Total | 1000 | 675.15 | 67.52 | | |



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Chemical Engineering (Ch.E)

| S No | Criteria | Max Marks | Marks Obtained | Percentage | Improvements Shown | To Focus |
|------|--------------------------------|-----------|----------------|------------|---|---|
| 1 | Teaching – Learning Processes: | 300 | 248 | 82.67 | All the courses are on MOODLE Innovative teaching methods are observed | Student projects may be converted to publications Industry participation in other activities like Partial delivery may be introduced |
| 2 | Student's Performance | 200 | 92.78 | 46.39 | most of the students are doing NPTEL Courses | Need measures to improve students pass percentage Students are to be motivated to go for higher education Students participation in outside world is required |
| 3 | Faculty contributions | 250 | 71 | 28.40 | Two Faculty registered as Guides under AU | Faculty publication in UGC Care journals Faculty having PhDs need to apply for research projects <u>Faculty need more exposure to outside world</u> |
| 4 | Co-curricular activities | 100 | 69 | 69.00 | All the students participated in Capacity building programs and RACE activities | Need to conduct workshop/FDP for faculty Need to encourage students to get awarda and medals in outside competitions |
| 5 | Students support systems | 85 | 60 | 70.59 | Good department Library motivating students to do NPTEL courses | Student participation in GATE Classes Entrepreneurship activities/participation |
| 6 | Continuous improvement | 40 | 0 | 0.00 | | Pass Percentage Student Intake Faculty publications |
| 7 | Best Practices | 25 | 20 | 80.00 | Participation in NPTEL courses | |
| | Total | 1000 | 560.78 | 56.08 | | |



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S & H Department

Mathematics

| S No | Parameter | Max Marks | Marks Obtained | Percentage | Improvements Shown | To Focus |
|-------|-------------------------------|-----------|----------------|------------|--|--|
| 1 | Teaching - Learning Processes | 195 | 185 | 94.87 | The projectors are installed in maximum number of c | Conducting Value Added Courses in Mathematics |
| 2 | Faculty contributions | 235 | 118 | 50.21 | The number of faculty members having research gu | 2.3: Need to apply projects. 2.4: More paper publications in reputed journals. 2.6: Need to conduct/participate workshops, conferences, etc. 2.7: Need memberships and its related works. |
| 3 | Student Support Systems. | 75 | 70 | 93.33 | | Exploring the options to Maths Lab for students |
| 4 | Best Practices | 25 | 23 | 92.00 | Conducted Industrial visit programs to the students. | Exploring other possibilities |
| TOTAL | | 530 | 396 | 74.72 | | |



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Chemistry

| S No | Parameter | Max Marks | Marks Obtained | Percentage | Improvements Shown | To Focus |
|--------------|-------------------------------|------------|----------------|--------------|--|--|
| 1 | Teaching - Learning Processes | 250 | 219 | 87.60 | LCD projectors are installed in classrooms, Lab technicians are given training to monitor students and are involved to clarify students doubts, Feed backs will be taken from stake holders in forth coming semesters, L4 level of questions will be assigned. | Introducing some more innovative methods of teaching, demonstrating experiments with virtual lab platform, |
| 2 | Faculty contributions | 250 | 86 | 34.40 | Guideship is given by dept of Engg.Chemistry, AU and scholars are allotted | Publications in SCI and scopus journals, applying for research projects |
| 3 | Student Support Systems. | 75 | 65 | 86.60 | Proctor files information of first year students will be maintained | Giving scope for self learning, motivating the students to use Moodle platform, |
| 4 | Best Practices | 25 | 25 | 100.00 | conducted outreach programs and industrial tours, water analysis work is initiated and in progress | Including society problem related experiments in the curriculum |
| TOTAL | | 600 | 395 | 65.80 | | |



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Physics

| S No | Parameter | Max Marks | Marks Obtained | Percentage | Improvements Shown | To Focus |
|------|-------------------------------|-----------|----------------|------------|--|---|
| 1 | Teaching - Learning Processes | 240 | 169 | 70.40 | Teaching learning methodologies are implemented using ICT tools like ppt and video lectures | To be focus on new methodologies and value added courses |
| 2 | Faculty contributions | 260 | 130 | 50.00 | 80% faculty are Ph.D holders in the department. Six faculty members are recognized as research guides by the Andhra University. Research scholars are allowed to research guides and Two faculty members have multiple guideships JNTU and AU. | Focused on Reseach projects Consultancy Activities More SCI/Scopus Publications |
| 3 | Student Support Systems. | 75 | 68 | 90.66 | Increase the student interaction through mentoring process and increase the self learning process | To be focus on Department Grevience cell |
| 4 | Best Practices | 25 | 20 | 80.00 | Conducted Additional experiments are conducted which were performing in lab as team | Implement virtual lab |
| | Total | 600 | 387 | 64.50 | | |



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| English | | | | | | |
|---------|-------------------------------|------------|----------------|--------------|--|--|
| S No | Parameter | Max Marks | Marks Obtained | Percentage | Improvements Shown | To Focus |
| 1 | Teaching - Learning Processes | 250 | 206 | 82.40 | Implementation Student centric methods, such as experiential learning, participative learning are supported | Usage of ICT tools in classes so that the students find the lessons more engaging and relevant |
| 2 | Faculty contributions | 250 | 98.5 | 39.60 | All eligible faculty applied for the research guide ship and improvement shown in faculty participation in Faculty development/training activities | to promote opportunities and encourage publications in SCI and Scopus journal as well as applying for research grants. |
| 3 | Student Support Systems. | 75 | 65 | 86.60 | All the faculty are given the proctorship and corrective measures are strictly monitored | Active, problem-based and inquiry based learning are encouraged. |
| 4 | Best Practices | 25 | 25 | 100.00 | online Course 122 students have enrolled for the course which is for one year and they have to clear 36 levels. | Explore other possibilities also |
| | Total | 600 | 395 | 65.83 | | |


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