Minutes of 12th Academic Council Meeting

The 12th meeting of the Academic Council was held on July 6, 2024 at 10:30 am under the Chairmanship of Dr. Vikram S. Patil, Director, ADCET, Ashta. The Chairman welcomed all the members present for the Academic Council meeting. The following members were present for the Academic Council meeting:

Sr. No	Name	Position
1.	**Prof. R. A. Kanai** Executive Director	Management Representative
2.	**Dr. Vikram S. Patil** Director, ADCET, Ashta	Chairman
3.	**Dr. V. S. Bandal** Principal, Government Polytechnic, Pune.	Member
4.	**Dr.G.R.Munavalli** Professor, Walchand College of Engineering, Sangli	Member
5.	**Dr.S.A.Pardeshi** Principal, Government ResidenceWomen Polytechnic, Tasgaon	Member
6.	**Dr. S.M.Pise** Professor, Department of Mechanical Engineering, Tatyasaheb Kore Institute of Engg. and Tech, Kolhapur	Member
7.	**Dr. S. S. Mohite** Registrar, ADCET, Ashta	Member
8.	**Dr. S. P. Chavan** Dean, Consultancy & Community Outreach, ADCET, Ashta	Member
9.	**Dr. V. B. Patil** Controller of Examinations, ADCET, Ashta	Member
10.	**Dr. P. D. Kulkarni** Dean, Corporate Relations, ADCET, Ashta	Member
11.	**Dr. A.N.Jadhav** Dean R&D, ADCET, Ashta	Member
12.	**Dr. A.A.Jadhav** Dean, Quality Assurance, ADCET, Ashta	Member
13.	**Prof. S.S. Magdum** Dean, Training & Placement, ADCET, Ashta	Member
14.	**Dr. M.M.Jadhav** HoD, Mechanical Engineering, ADCET, Ashta	Member
15.	**Dr. S. S. Sayyad** HoD, Computer Science & Engineering, ADCET, Ashta	Member
16.	**Dr. S.D.Pawar** HoD, Electrical Engineering, ADCET, Ashta	Member
17.	**Dr. M.H. Mota** HoD, Civil Engineering and Basic Sciences, ADCET, Ashta	Member

18.	**Prof. Kiran Babu K.M** HoD, Aeronautical Engineering, ADCET, Ashta	Member
19.	**Dr. V. D. Talnikar** HoD, Food Technology, ADCET, Ashta	Member
20.	**Dr. Asma A. Shaikh** HoD, Artificial Intelligence and Data Science, ADCET, Ashta	Member
21.	**Dr. Mani S** HoD, Computer Science & Engineering (IoT, CS & BCT), ADCET, Ashta	Member
22.	**Dr. Gopinath S** Dean Academics, ADCET, Ashta	Member- Secretary

Dr. B. N. Chaudhari, Dr. D. B. Kulkarni, Dr. H. S. Jadhav, and Mr. Nitin Zanvar were unable to attend the Academic Council meeting due to personal reasons. The chairman, Dr. Vikram S. Patil, permitted the proceedings of the meeting to continue in their absence.
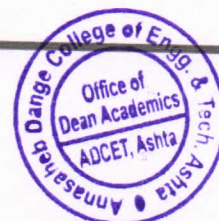
Agenda Item No.1: To confirm the minutes of 11th Academic Council held on 29/07/2023.

Discussion and Resolution: With the permission of the Chairman, the Member Secretary read out the minutes of the 11th Academic Council meeting held on 29/07/2023. *All the members present at the 12th AC meeting confirmed the minutes of the previous meeting.*

Agenda Item No.2: To place before the Academic Council the report about the action taken on the decisions of its 11th Academic Council (AC) held on 29/07/2023.

Discussion and Resolution: During the *11th Academic Council meeting, agenda item No. 3* centered on approving the NEP-compliant curriculum structure and second-year content for eight undergraduate programs. As part of this discussion, the Academic Council (AC) provided recommendations aimed at enhancing the curriculum, improving the teaching-learning process, and fostering skills development among students. The table below summarizes the actions taken in response to the recommendations put forth during the 11th Academic Council meeting.

| S.No	Recommendations	Action Taken
1.	Minimize Number of Course Heads	Possible theory and practical courses have been integrated under the NEP Curriculum. Changes were made to the curriculum structure, and implementation started from S.Y. B.Tech onwards during the academic year 2023-24. The number of course heads has been minimized to 8-10 per semester.

2.	Changes in Classroom Teaching Learning Process	Various teaching-learning techniques have been implemented to promote active and engaged student learning. Techniques such as experiential learning, collaborative learning, and learning through problem-solving have been adopted. A new facility for collaborative teaching and learning has also been developed.
3.	Use of Open Source Software for Programming Courses	The use of open-source software is encouraged as a cost-effective, flexible, and secure alternative to proprietary solutions. This fosters a collaborative ecosystem for software development. Recommended open-source software includes C, C++, Java, Python, Web Technologies, Databases, Bentley, EPAnet, etc.
4.	Incorporate Project-Based Learning into Curriculum	Project-Based Learning (PBL) has been integrated across the curriculum. Micro and macro projects are included in courses such as Innovation and Prototype, Mini Project, Industrial Training, Internship, and Capstone Project. Additionally, industry-sponsored PBL initiatives like internships and sponsored projects have been introduced.
5.	Inclusion of GATE Syllabus in Curriculum	The curriculum has been aligned with the GATE syllabus by gradually introducing GATE-related content integrated with regular course material. GATE-style problems and questions have been incorporated into regular assignments, tutorials, and ISE/MSE/ESE. Supplementary resources such as GATE-related reference materials, books, and online resources have been made available to students.
6.	Develop Bridge Courses Between Curriculum Revisions	A thorough analysis has been conducted comparing the previous and new curriculum revisions. Commonalities and gaps in subject matter and skills have been identified to develop bridge courses that address specific needs, ensuring a smooth transition for students between curriculum revisions.

Dr. V. S. Bandal has reviewed on the reduction of course heads implemented by the institute across all programs. Concurrently, **Dr. S. A. Pardeshi** has inquired about the total credits assigned to program electives and confirmed that a minimum of 12 credits has been established across all programs.

Dr. V.S. Bandal has stated that skill assessment evaluates candidates' abilities and competencies in relation to job requirements to ensure they are employable graduates. In this context, the Academic Council has recommended a presentation on the Proof of Concept
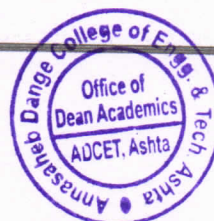
(POC) for implementing skill-based assessments within the In-Semester Evaluation (ISE) framework. This POC will serve as a case study to illustrate skills assessment methodologies, associated initiatives for identifying key competencies, and expected outcomes of integrating these evaluations into the academic framework.

Agenda Item No.3 : To update on NBA Accreditation Status and Autonomy Status

Discussion and Resolution:

The Member Secretary provided an update on the NBA Accreditation Status and Autonomy Status during the meeting. Here are the key points discussed:

Status of NBA Accreditation for 4 Undergraduate Program:

- The National Board of Accreditation (NBA) conducted accreditation visits for four undergraduate engineering programs from **April 19 to 21, 2024**. The programs evaluated during this visit were:

  1. Mechanical Engineering
  2. Computer Science and Engineering
  3. Electrical Engineering
  4. Civil Engineering

- NBA granted accreditation to these 4 UG engineering programs at ADCET for the 3 academic years 2024-25 to 2026-27. **(Ref: File No. 28-212-2010-NBA, Dated: June 4, 2024.)**

Extension of Autonomy Status

- The University Grants Commission has granted a **10-year extension (23-24 to 32-33) of Autonomous Status to ADCET**. This extension comes after ADCET successfully completed its initial period of autonomy with met the required accreditation criteria and demonstrated effective functioning. **(Ref : SU/Affiliation/ T-2/Autonomy/1275, Dated 06 Feb 2024)**

Grant of Empowered Autonomy Status

- Shivaji University has granted the Status of **Empowered Autonomous College** to ADCET. **(Ref : SU/ Affiliation/ T-2/Autonomy/71, Dated June 3, 2024)**

The Academic Council members commended the institute's proactive approach and the positive outcomes achieved through their efforts. They expressed their full support and confidence in ADCET's continued growth and success in the future. The Academic Council directed the institute to now prioritize the enhancement of its academic programs, research
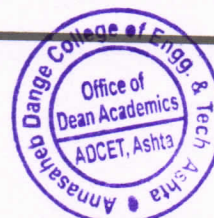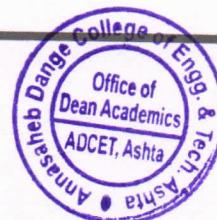
activities, and overall educational quality to better serve students and the community. They acknowledged that the marks obtained are sufficient and stressed the importance of conducting a SWOT analysis to ensure future sustainability. This motion was initially proposed by **Dr. V. S. Bandal** *and seconded by* **Dr. G.R.Munavalli.**

Agenda Item No.4: To discuss on Inclusion of Academic Experts in the Board of Studies for Special Courses

Discussion and Resolution:

The Member Secretary conveyed the inclusion of academic experts and industrial professionals in the Board of Studies as co-opted members for special courses. This initiative aims to effectively implement the National Education Policy (NEP) and ensure that the curriculum aligns with industry standards and educational objectives.

Department	Name of the Expert	Organization	Special Courses
Mechanical Engineering	Dr. A.P.Patil	Walchand College of Engineering, Sangli.	Finite Element Analysis, Condition Monitoring
	Mr. V.V.Khare	R&T Pvt. Ltd., Kolhapur.	Mechatronics and Robotics, Microcontroller Laboratory
Electrical Engineering	Dr. Bharatiraja C	Head - Centre of Electric Mobility, SRM Institute of Science and Technology, Chennai.	Electric Vehicles
	Mr. Imran S. Mulani	Sr. Design Engineer (Electrical) HOSMAC India Pvt. Ltd., Mumbai	Control Systems
Civil Engineering	Mr. Pravin Pise	Consulting Engineer, Pravin Consultants, Sangli	RCC & Steel Structures Design
	Dr. S. V. Kanitkar	Modern Education Society's Cusrow Wadia Institute of Technology, Pune	Remote Sensing and GIS
Food Technology	Mr.Vittal Zate	Desai Brother Ltd. Desai House, Dhole Patil Road, Pune	Bakery and Confectionary
CSE(IOT and Cyber Security Including Block Chain Technology)	Dr. Munir Sayyad Assistant Vice President	JIO, Mumbai	Wireless Sensor Networks
	Mr. Vineet Hemant Beri	Head- BFSI Cyber Security Operations, Tata Consultancy Services Limited, Pune	Cyber Security

Computer Science and Engineering	Mr.Ravindra Sonone	Rheal Software PVT Ltd, Mumbai	Web Development & Cloud Computing
Aeronautical Engineering	Dr.Nikhil Shende	Director. S&I Engineering Solutions Pvt. Ltd, , Bengaluru	Computational Fluid Dynamics and Finite Element Analysis
	Shri.Uday Kale	Director, KUB Quality Services, Pune, Chairman ISNT – Pune Chapter	Non-Destructive Testing
	Shri.Thaariq Ahmad	COO – NextLeap Aeronautics, Bengaluru	Unmanned Aerial Vehicle

The Academic Council members expressed their appreciation and support for the initiative to include academic experts and industrial professionals as co-opted members in the Board of Studies. This approval reflects a collective commitment to enhancing the educational framework and aligning it with industry needs.

Agenda Item No.5:

(i) To approve the Third Year NEP Complaint Curriculum Contents for the 8 Undergraduate Programmes recommended in the respective Board of Studies. (Mechanical, CSE, Electrical, Civil, Aeronautical, Food Tech, AI & DS and CSE (IOT and CS including BCT)

(ii) To approve the B.Tech (R0) Curriculum Contents for the 2 Undergraduate Programmes recommended in the respective Board of Studies.(AI & DS and CSE (IOT and CS including BCT)

Discussion and Resolution:

The Member Secretary provided a briefing on the preamble of all Boards of Studies and the dates of their meetings.

Date of BoS Meeting	Name of the Boards
21.06.2024	Electrical Engineering, Mechanical Engineering
22.06.2024	Artificial Intelligence and Data Science, Computer Science & Engg. (IoT and Cyber Security Including Block Chain Technology), Aeronautical Engineering, Computer Science and Engineering
24.06.2024	Food Technology
25.06.2024	Civil Engineering

Following this, *the Academic Council resolved to approve the Third Year NEP Compliant Curriculum Contents for eight undergraduate programs, as recommended by the respective Boards of Studies. Additionally, the Council approved the B.Tech (R0) Curriculum Contents for two undergraduate programs, Artificial Intelligence & Data Science (AI & DS) and Computer Science Engineering (CSE) with a focus on IoT and CS including BCT, as recommended.*

The Academic Council directs the Member Secretary to ensure that the approved curricula are implemented in the upcoming academic session, with a focus on continuous assessment and feedback mechanisms to adapt the curricula as necessary. *In addition, the Academic Council members discussed and approved the proposed modifications to the curriculum structure for various undergraduate programs, as detailed in the following table.*

Program	Sem	Course Type	Current Course Title	Proposed Change	Reason for Modification
AIDS	VII	Professional Elective-IV	AI in Healthcare	Change title to AI in Healthcare Applications	To better reflect practical applications in healthcare.
CSE	V	Professional Elective-II	Software Testing and Quality Assurance	Move to Semester VII	To allow for a more logical progression in the curriculum.
CSE	VII	Professional Elective-III	Internet of Things	Move to Semester V	To introduce foundational concepts earlier in the program.
CSE	VIII	Vocational and Skill Enhancement Course	-	Add new course: UI / UX Design	To address the growing demand for

Program	Sem	Course Type	Current Course Title	Proposed Change	Reason for Modification
Aeronautical Engineering	VI	Vocational and Skill Enhancement Course	2AEVS324 - Virtual Instrumentation using LabView	Replace with Predictive Maintenance	To align with current industry practices and technologies
Food Technology	V	Minor Course II	1FTFP308 - Emerging Food Engineering Operations	Change title to Food Engineering Operations	To enhance clarity and relevance of the course title.
Food Technology	VI	Vocational and Skill Enhancement Course	1FTVS317 - Bakery and Confectionary	Rename to Bakery and Confectionary Technology	To align the title with industry terminology.

Agenda Item No.6: To discuss and approve the Open Elective Courses to be offered under Credit Transfer Mode for Third Year Students.

Discussion and Resolution:

The Member Secretary proposed Open Elective Courses to be offered under Credit Transfer Mode for Third Year Students in accordance with the NEP Curriculum. *In response to inquiries from the Academic Council members*, he briefed them on the finalization process that was undertaken.

- **Consultation with Department Heads**: Engaged with department heads to gather insights on potential course offerings that would enhance the existing curriculum for their students.

- **Student Feedback**: Solicited feedback from students on their interests and preferences for elective courses to ensure relevance and appeal.

- **Finalization of Course Categories**: Based on consultations and student input, specific course categories were identified and finalized.

- **NPTEL Course Selection**: Appropriate NPTEL (National Program for Technology Enhanced Learning) courses were selected for each finalized category in July 2024 Session.

- The finalized list of **NPTEL Course** was presented to the Academic Council for review and approval, as summarized in the table below:

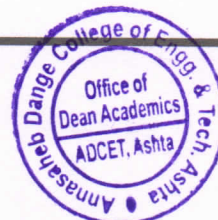| Course Category	Course Name
Health Care Management	Economics of Health and Education
Business Marketing	Business to Business Marketing (B2B)
Intellectual Property Rights	Patent Law for Engineers and Scientists
	Economics of Innovation
Business Laws	E-Business
Finance and Accounting	Management Accounting
Banking and Insurance	Economics of Banking and Finance Markets
Investment Management	Quantitative Investment Management
Human Resource Management	Human Resource Development
Business Management	Advanced Business Decision Support Systems
Language	Introduction to Japanese Language and Culture - II
	German - I
Retail and Channel Management	Operations and Supply Chain Management

During the discussion, **Dr.G.R.Munavalli** *inquired about the modalities of executing NPTEL courses.* In response, the Member Secretary explained that a typical 12-week NPTEL course will be offered which requires 48 hours of learner effort, which includes 9 hours of video lectures and 3 hours of assignments, totaling 3 credits. Further, upon successful completion of the course and meeting the assessment criteria, students will receive a Course Completion Certificate, which is recognized for credit transfer.

The Academic Council members recommended conducting makeup examinations for students who failed the NPTEL courses, providing them with an opportunity to clear their backlog. In such cases, the question papers will be set by qualified faculty members in the specific domain of the NPTEL courses, preferably certified faculty.

Agenda Item No.7: To inform starting of the 2 new undergraduate programmes.

Discussion and Resolution:

The Academic Council has been informed about the AICTE's approval to launch two new undergraduate programs for the academic year 2024-2025: Bachelor of Business Administration (BBA) and Bachelor of Computer Applications (BCA). Each program will have an intake capacity of 60 students. The curriculum for these programs will align with the

existing structure established by Shivaji University. *The Academic Council welcomed this initiative.*

Agenda Item No.8 : To update the implementation of the Honor, Honor by Research and Specialized Minor Degree programs under the NEP-compliant curriculum.

Discussion and Resolution:

The National Education Policy (NEP) 2020 emphasizes a flexible, multidisciplinary approach to higher education, aiming to enhance student engagement and learning outcomes. For the academic year 2023-2024, the eligibility data indicates that out of 672 students, 286 are eligible, with the following breakdown of opted programs:

- **Honors**: 108 students
- **Honors with Research**: 17 students
- **Specialization Minors**: 44 students

This participation reflects a moderate engagement level, particularly in the Honors category. To boost student engagement and participation in Honors, Honors with Research, and Specialization Minor programs, *the Academic Council recommends enhancing awareness and support for these valuable opportunities.*

Agenda Item No.9: To ratify the completion of Honor / Minor degree Programmes by eligible students who met the academic requirements.

Discussion and Resolution: The Academic Council is presented with the completion status of Honor and Minor degree programs by eligible students who have met the academic requirements. Below is the breakdown of students by department and specialization:

| Department	Specialization	No. of Students (Honors)	No. of Students (Minor)
Civil Engineering	GIS and Remote Sensing	1	-
Food Technology	Nutrition Technology	10	-
Electrical Engineering	Electric Vehicles	2	-
Computer Science and Engineering	Cloud Architect	14	-
Mechanical Engineering	Robotics	2	4
Total No. of Students		**29**	**4**

The Academic Council formally recommends the ratification of the completion of the Honor and Minor degree programs for the students listed above, thereby facilitating the awarding of degrees in recognition of their academic success and contributions.

Sant Dnyaneshwar Shikshan Sanstha's

Annasaheb Dange College of Engineering & Technology, Ashta
(Approved by AICTE, New Delhi, Govt. of Maharashtra, and affiliated to Shivaji University Kolhapur)
An Empowered Autonomous Institute, Accredited by NAAC 'A++' Grade

Agenda Item No.10: (i) To review the academic performance in Examinations during academic year 2023-2024. (ii) Summary of Student Activities (iii) Students with special needs, including medical conditions / disability rights.

Discussion and Resolution:

- The Academic Council has reviewed the academic performance of students of Final Year B.Tech in the End Semester Examination for the year 2023-2024. The results were well-received, and *recommendations were made to include the success index, progression data, and course-wise analysis in a comprehensive report for the next meeting.*

- The member secretary presented an overview of the various academic activities organized across different departments. The activities included: Seminars and Workshops, Guest Lectures, Value-Added Courses, Participation in Symposiums and Contests & Prizes Won and Online Courses Completed. The key insights are :

  - ✓ **Mechanical Engineering** led in the number of seminars and workshops organized, with a total of 09 seminars and 10 guest lectures.

  - ✓ **Computer Science & Engineering** had the highest number of students completing online courses, totaling 349.

  - ✓ **Electrical Engineering and Civil Engineering** had significant participation in symposiums and contests, with 348 and 328 participants, respectively.

  - ✓ **Artificial Intelligence & Data Science** had a robust engagement in guest lectures, with 08 organized.

- The query raised by the COE regarding 02 Mechanical Engineering and 02 Aeronautical Engineering students with special needs, including medical conditions and disability issues, has been addressed by **Dr. V. S. Bandal**, *who suggested following the Maharashtra Government Order dated March 4, 2017* (Ref : शासन निर्णय. संकीर्ण-2016/प्र.क. ३०२/ विशि-३ दि. 04 मार्च, 2017 & संदर्भ क्र. शिवाजी वि./परीक्षक नियुक्ती/557, 14 मार्च, 2017) This order outlines the rights and provisions for students with disabilities, ensuring their access to education and support services within educational institutions. *He added that the suggestion to implement and document the rights of students with special needs on a case-by-case basis emphasizes the importance of tailored support and accountability, which must be backed by proper proof and evidence.*
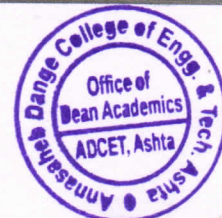
Agenda Item No.11: To update the Faculty Contributions, Research & Development activities and Placement Details during academic year 2023-2024.

Discussion and Resolution:

The Academic Council members have reviewed the Centers of Excellence and their initiatives for each department. Here are the key highlights from the review:

Department	Center of Excellence Initiatives
AIDS	- Cyber Security and Digital Forensics - Faculty Development Program on AI Evolution
Civil Engineering	- Structural Auditing - Participation in Unnat Bharat Abhiyan
CSE (IoT)	- Internet of Things and Cyber Security Auditing Center
Electrical Engineering	- Electric Vehicles
Mechanical Engineering	- Faculty developed 3 Products
Aeronautical Engineering	- Center for Non-Destructive Testing - National Conference on Aeronautical Engineering (RDAE 2024)

The Academic Council members have suggested establishing Center of Excellence in collaboration to achieve specific objectives and activities. *Dr. V. S. Bandal suggested the Centers of Excellence Framework outlines with their objectives, activities, physical existence, methodology, implementation aspects, outcomes, and impact, with a focus on quantification. Quantification Metrics includes Number of Projects, Number of research papers published as a result of Centers of Excellence activities, Percentage increase in student placements, and number of students receiving training or internships through the Centers of Excellence.*

Prof. R.A. Kanai announced the initiation of the AICTE - IDEA Lab, emphasizing that the institute will provide comprehensive support for its establishment. *Dr. S. M. Pise emphasizes the purpose of the IDEA Lab that anyone can convert their idea into a prototype and shared his expertise and deliberated its merits.* The discussions were carried out on engage with the MODROBS and DST proposals, enhancing the research and development capabilities of the institute. The key achievements and progress made by the institute across various domains, including research, funding, faculty development, and student placements were presented to the academic council members.

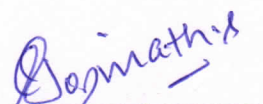| Initiative	Progress
Research Promotion Activities	- 52 research papers published in journals - 50 conference presentations - 25 patents and 4 books
Seed Money Initiatives	Rs 5 Lakhs allocated for faculty and student projects
Consultancy Activities	Successful engagement in various consultancy projects with revenue generation of Rs. 24 Lakhs.
Funding Research Proposals	28 research proposals submitted for external funding
ATAL FDP Proposals	5 proposals submitted for faculty development programs
Placement Training	Comprehensive training programs organized for students
Placement Outcomes	377 placement offers received by students

The Academic Council Members welcomed this initiative, recognizing the significant strides made in enhancing the institute's academic and research capabilities.
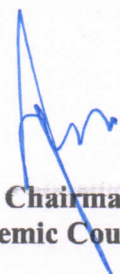
Agenda Item No.11: Any other item with the permission of chair

Prof. R.A. Kanai to the Academic Council, the institute has collaborated with NSDC to offer short-term skill development programs focusing on 4 specific job roles. The job roles include (i) Production Engineer (ii) Cloud Application Developer (iii) AI Business Intelligence Analyst and (iv) Electric Vehicle Service Technician. These programs aim to enhance the employability of students by providing them with industry-relevant skills. The programs range for 150 hours, ensuring that students can acquire the necessary skills within a reasonable timeframe. A total of 240 students have benefited from these short-term skill development programs.

Dr. Vikram. S. Patil, (Director) concluded the meeting. Dr. Gopinath S (Dean Academics) proposed vote of thanks to all members for their presence and valuable suggestions during the meeting.

Member Secretary
Academic Council

Chairman
Academic Council