



# ADITYA COLLEGE OF ENGINEERING

Approved by AICTE, Permanently Affiliated to JNTUK & Accredited by NAAC  
Recognized by UGC under Sections 2(f) and 12(B) of UGC Act, 1956

Aditya Nagar, ADB Road, Surampalem - 533 437, E.G.Dist., Ph: 99631 76662.

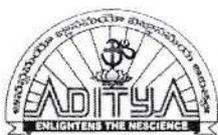
1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process

IQAC discuss the preparing of Curriculum plan and Diary in IQAC meeting and asks all head of the department to prepare curriculum plan and diary who will conduct the meeting in department and ask faculty members to prepare and verify it. Those proceedings and some additional information are given below.

| S.No | Description               |
|------|---------------------------|
| 1    | IQAC Proceedings          |
| 2    | Curriculum plan and diary |
| 3    | Academic calendar         |

PRINCIPAL  
PRINCIPAL

Aditya College of Engineering  
SURAMPALEM - 533 437



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Ref: ACOE/IQAC/2021-22/Constitution

## CIRCULAR

11-08-2021

The undersigned is pleased to constitute the Internal Quality Assurance Cell (IQAC) with the following members:

| S. No. | Name of the person           | Designation                                  | Role                   |
|--------|------------------------------|--|------------------------|
| 1      | Dr A. Ramesh                 | Principal                                    | Chairman               |
| 3      | Dr N. Satish Reddy           | Vice Chairman                                | Management Member      |
| 4      | Dr M. Srinivasa Reddy        | Educationist                                 | Member                 |
| 5      | Dr Pullela S.V.V.S. R. Kumar | Dean (A & A)                                 | Member                 |
| 6      | Dr G. Rama Krishna           | HoD-ECE                                      | Member                 |
| 7      | Prof. K. Manoj Kumar Reddy   | HoD-EEE                                      | Member                 |
| 8      | Dr Y.K.S. Subba Rao          | HoD-ME                                       | Member                 |
| 9      | Prof. Ch. Naresh             | HoD-CE                                       | Member                 |
| 10     | Dr G.S.N. Murthy             | HoD-CSE                                      | Member                 |
| 11     | Dr V. Anil Kumar             | HoD-PT                                       | Member                 |
| 12     | Prof. N. Punnapu Chandrudu   | HoD-Management Studies (MBA)                 | Member                 |
| 13     | Prof. M. Srinivasu           | HoD-H&BS                                     | Member                 |
| 15     | Sri T. Veeraaju              | Associate Professor-CSE                      | Senior staff Member    |
| 16     | Sri Kunche Raja              | Sarpanch/Secretary-Gandepalli Panchayat      | Local Community Member |
| 17     | Sri Karri Rama Reddy         | General Manager, Vinayaka Boards, Peddapuram | Industry Member        |
| 18     | Smt. Pilli Sumalatha         | Asst. Manager, Poornima Textiles, Peddapuram | Industry Nominee       |
| 19     | Sri Bh. Vara Prasad          | --   | Parent Member          |
| 20     | Ms. Ch. V. Ch. S. Sahiti     | IV year B. Tech. (CSE)                       | Student Member         |
| 21     | Mr K. Vivek Santhosh         | III year B. Tech. (ECE)                      | Student Member         |
| 22     | Mr P. Aditya Sashank         | Alumni                                       | Member                 |
| 23     | Dr DVSSSV Prasad             | Professor-ME                                 | Coordinator            |

### Functions of the committee:

- 1) Development and application of quality benchmarks/parameters for various academic and administrative activities of the institution.
- 2) Facilitate the creation of a learner-centric environment conducive to quality education and faculty members to adopt the required knowledge and technology for the participatory teaching and learning process.

- 3) Arrangement for feedback response from students, parents and other stakeholders on quality-related processes of institution.
- 4) Dissemination of information on various quality parameters of higher education.
- 5) Organize inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles.
- 6) Documentation of the various programmes/activities leading to quality improvement.
- 7) Act as nodal agency of the institution for coordinating quality-related activities including adoption and dissemination of best practices.
- 8) Development and maintenance of institutional database through MIS for the purpose of maintain/enhance the institutional quality.
- 9) Development of quality culture in the institution.
- 10) Preparation of the Annual Quality Assurance Report (AQAR) as per the guidelines and parameters of NAAC and to be submitted to NAAC.

Cc to: All the members of IQAC

  
**PRINCIPAL**  
**Aditya College of Engineering**  
**SURAMPALEM - 533 437**



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Ref: ACOE/IQAC/2021-22/1/Circular

## CIRCULAR

11.08.2021

This is to inform all the members of IQAC that a meeting will be held on 16<sup>th</sup> August 2021 at 10.30 AM in the Principal's chamber, Ramanujan Bhavan with the following agenda:

### AGENDA

- 1) Review of agenda points discussed in previous meetings
- 2) Review of pandemic situation
- 3) Review of academic calendars issued by JNTUK and class work
- 4) Review of seminars/workshops/certificate courses/internships/industrial visits
- 5) Courses from T-Hub
- 6) Requirement of faculty and facilities based on new regulations
- 7) Proposal to apply for NBA accreditation
- 8) Organize meetings with stakeholders either online or offline as per convenience
- 9) Ratification of faculty members at JNTUK
- 10) Preparation of AQAR 2020-21
- 11) Any other point

The members are requested to come prepared with relevant data.

Cc to: All members of IQAC

PRINCIPAL  
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Aditya College of Engineering  
SURAMPALAM - 533 437



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Ref: ACOE/IQAC/2021-22/1/Minutes

## MINUTES OF IQAC AY 2021-22

16.08.2021

|                 |   |          |                      |
|-----------------|---|----------|----------------------|
| Date of meeting | 16 <sup>th</sup> August 2021                                    | Duration | 10.30 AM to 11.30 PM |
| Venue           | Principal's chamber, Ramanujan Bhavan                           |          |                      |
| Reference       | ACOE/IQAC/2021-22/1/Circular dated 11 <sup>th</sup> August 2021 |          |                      |

The meeting of IQAC of Aditya College of Engineering held on 16<sup>th</sup> August 2021 with the following agenda:

- 1) Review of agenda points discussed in previous meetings
- 2) Review of pandemic situation
- 3) Review of academic calendars issued by JNTUK and class work
- 4) Review of seminars/workshops/certificate courses/internships/industrial visits
- 5) Courses from T-Hub
- 6) Requirement of faculty and facilities based on new regulations
- 7) Proposal to apply for NBA accreditation
- 8) Organize meetings with stakeholders either online or offline as per convenience
- 9) Ratification of faculty members at JNTUK
- 10) Preparation of AQAR 2020-21
- 11) Any other point

The meeting of IQAC was commenced with the welcome note by the Coordinator-IQAC. The Coordinator presented the agenda and requested the Chairman-IQAC to start the meeting based on the points of agenda for discussion and the resolutions made are presented here.

The Chairman-IQAC welcomed all the members to the meeting and discussed the points of the agenda.

### MINUTES AND RESOLUTIONS

- 1) The Chairman reviewed the point of agenda discussed in previous meetings.
- 2) The Chairman reviewed the pandemic situation and advised all the members to take every care of them and their family members and reiterated that proper measures are to be implemented within the class rooms, laboratories etc.

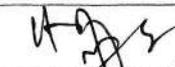
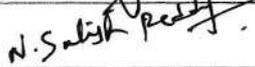
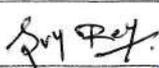
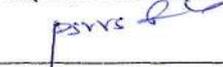
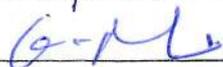
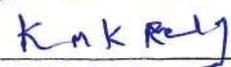
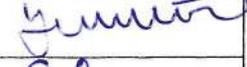
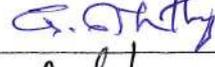
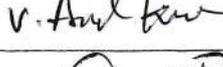
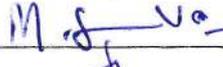
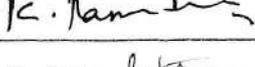
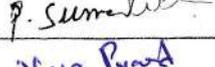
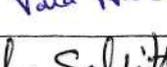
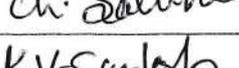
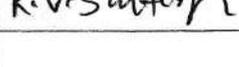
- 3) The members reviewed the academic calendars issued by affiliating university, JNTUK and discussed thoroughly the same and about the commencement of class work.
- 4) Heads of the departments submitted the details of seminars/workshops/certificate courses/internships/industrial visits conducted/organized for the AY 2020-21. The Chairman advised to follow the same trend in organizing various activities and the members resolved the same.  
The Chairman further advised to identify the gaps in the curriculum and organize seminars/workshops/guest lectures to fill those gaps along with IPR and gender sensitization programmes etc.
- 5) Members discussed about the course offered by T-Hub during AY 2020-21 and submitted that T-Hub conducted the training programmes/courses online during pandemic situation to all the students successfully. Chairman advised the members to organize training programmes offline/online for the students and the members resolved the same.
- 6) The Chairman reviewed the current scenario of faculty strength and facilities in the college and advised the heads of the departments to submit the information and requirements soon.
- 7) The Chairman notified that our college should apply for NBA accreditation and pre-qualifier format was distributed to all the heads of the departments and enquired about the pre-qualifier filled-in formats and eligibility. Chairman reviewed the pre-qualifier formats department wise and thoroughly discussed about the eligibility.  
Depending on the eligibility conditions, it was decided that CSE, ECE, EEE and ME departments are eligible for NBA accreditation and NBA related work shall be initiated immediately. The Chairman of the committee approved and all the members resolved the same.
- 8) The Chairman enquired about the meetings of stakeholders for this year and advised to conduct either offline or online and it is resolved to conduct as per convenience.
- 9) Coordinator-IQAC submitted that our college should apply for ratification of faculty members which is also part of quality sustenance. The Chairman accepted the proposal and advised to check with the University and apply whenever the University issues the notification and resolved the same.
- 10) The Chairman enquired and discussed about the AQAR 2020-21 which is to be submitted to NAAC and advised to collect the data and arrange it in the format of AQAR soon and it is resolved to collect and prepare AQAR 2020-21.
- 11) No other point to discuss.

The Chairman advised all the members to focus on academic matters both theory and laboratory sessions and obtain best results by giving proper inputs to students and further added counselling/proctoring should be carried out periodically to improve further.

Finally, the Coordinator and the Chairman thanked all the members present.

The meeting was concluded with thanks to the Chair.

Members present in the meeting held on 16.08.2021

| S. No. | Name of the person           | Role                   | Signature   |
|--------|------------------------------|------------------------|---|
| 1      | Dr A. Ramesh                 | Chairman               |    |
| 3      | Dr N. Satish Reddy           | Management Member      |    |
| 4      | Dr M. Srinivasa Reddy        | Member                 |    |
| 5      | Dr Pullela S.V.V.S. R. Kumar | Member                 |    |
| 6      | Dr G. Rama Krishna           | Member                 |    |
| 7      | Prof. K. Manoj Kumar Reddy   | Member                 |    |
| 8      | Dr Y.K.S. Subba Rao          | Member                 |    |
| 9      | Prof. Ch. Naresh             | Member                 |    |
| 10     | Dr G.S.N. Murthy             | Member                 |   |
| 11     | Dr V. Anil Kumar             | Member                 |  |
| 12     | Prof. N. Punnapu Chandrudu   | Member                 |  |
| 13     | Prof. M. Srinivasu           | Member                 |  |
| 15     | Sri T. Veeraaju              | Senior staff Member    |  |
| 16     | Sri Kunche Raja              | Local Community Member |  |
| 17     | Sri Karri Rama Reddy         | Industry Member        |  |
| 18     | Smt. Pilli Sumalatha         | Industry Nominee       |  |
| 19     | Sri Bh. Vara Prasad          | Parent Member          |  |
| 20     | Ms. Ch. V. Ch. S. Sahiti     | Student Member         |  |
| 21     | Mr K. Vivek Santhosh         | Student Member         |  |
| 22     | Mr P. Aditya Sashank         | Member                 |   |
| 23     | Dr DVSSSV Prasad             | Coordinator            |  |



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Ref: ACOE/IQAC/2021-22/2/Circular

## CIRCULAR

03.01.2022

This is to inform all the members of IQAC that a meeting will be held on 06<sup>th</sup> January 2022 at 10.30 AM in the Principal's chamber, Ramanujan Bhavan with the following agenda:

### AGENDA

- 1) Review of agenda points discussed in previous meetings.
- 2) Review of academic calendars, class work and examinations.
- 3) Review of results.
- 4) Review and the status of NBA work.
- 5) Status of AQAR 2020-21.
- 6) Any other point.

The members are requested to come prepared with relevant data.

Cc to: All members of IQAC

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Ref: ACOE/IQAC/2021-22/2/Minutes

## MINUTES OF IQAC AY 2021-22

06.01.2022

|                 |   |          |                      |
|-----------------|---|----------|----------------------|
| Date of meeting | 06 <sup>th</sup> January 2022                 | Duration | 10.30 AM to 11.30 PM |
| Venue           | Principal's chamber, Ramanujan Bhavan         |          |                      |
| Reference       | ACOE/IQAC/2021-22/2/Circular dated 03.01.2022 |          |                      |

The meeting of IQAC of Aditya College of Engineering held on 06<sup>th</sup> January 2022 with the following agenda:

- 1) Review of agenda points discussed in previous meetings. -
- 2) Review of academic calendars, class work and examinations.
- 3) Review of results.
- 4) Review and the status of NBA work.
- 5) Status of AQAR 2020-21.
- 6) Any other point.

The meeting of IQAC was commenced with the welcome note and started the meeting based on the points of agenda for discussion and the resolutions made are presented here.

The Chairman-IQAC welcomed all the members to the meeting and discussed the points of the agenda.

### MINUTES AND RESOLUTIONS

- 1) The Chairman reviewed the point of agenda discussed in previous meetings and noted the points.
- 2) Members reviewed the academic calendars issued by JNTUK. The consolidated statement is presented here.

The members opined that 3<sup>rd</sup> and 4<sup>th</sup> Year UG programmes are having the same dates but 2<sup>nd</sup> year and 1<sup>st</sup> year dates of academic calendar are differed. The Chairman discussed the same

and advised the members that there may be further changes in the calendar, therefore, follow the dates as mentioned and all the members resolved the same.

### ACADEMIC CALENDAR - 2021-22

#### I B.Tech. - I Semester (21 Batch)

| Description                       | From       | To         |
|-----------------------------------|------------|------------|
| Commencement of Class Work        |            | 22.11.2021 |
| Induction Classes                 | 22.11.2021 | 27.11.2021 |
| I Unit of Instruction             | 29.11.2021 | 15.01.2022 |
| I Mid Examinations                | 17.01.2022 | 22.01.2022 |
| II Unit of Instructions           | 24.01.2022 | 12.03.2022 |
| II Mid Examinations               | 14.03.2022 | 19.03.2022 |
| Preparation & Practical           | 21.03.2022 | 26.03.2022 |
| End Examinations                  | 28.03.2022 | 09.04.2022 |
| Commencement of II Sem Class Work |            | 11.04.2022 |

#### I B.Tech. - II Semester (21 Batch)

| Description                                      | From       | To         |
|--|------------|------------|
| I Unit of Instructions                           | 11.04.2022 | 28.05.2022 |
| I Mid Examinations                               | 30.05.2022 | 04.06.2022 |
| II Unit of Instructions                          | 06.06.2022 | 23.07.2022 |
| II Mid Examinations                              | 25.07.2022 | 30.07.2022 |
| Preparation & Practical                          | 01.08.2022 | 06.08.2022 |
| End Examinations                                 | 08.08.2022 | 20.08.2022 |
| Commencement of next Year Class Work: 22-08-2022 |            |            |

#### II B.Tech. - I Semester (20 Batch)

| Description                            | From       | To         |
|--|------------|------------|
| Commencement of Class Work             |            | 01.10.2021 |
| I Unit of Instruction                  | 01.10.2021 | 20.11.2021 |
| I Mid Examinations                     | 22.11.2021 | 27.11.2021 |
| II Unit of Instructions                | 29.11.2021 | 05.02.2022 |
| II Mid & Practicals                    | 07.02.2022 | 12.02.2022 |
| End Examinations                       | 14.02.2022 | 26.02.2022 |
| Commencement of II Semester Class Work |            | 28.02.2022 |

#### II B.Tech. - II Semester (20 Batch)

| Description                                       | From       | To         |
|---|------------|------------|
| I Unit of Instructions                            | 28.02.2022 | 23.04.2022 |
| I Mid Examinations                                | 18.04.2022 | 23.04.2022 |
| II Unit of Instructions                           | 25.04.2022 | 18.06.2022 |
| II Mid Examinations                               | 13.06.2022 | 18.06.2022 |
| Preparation & Practical                           | 20.06.2022 | 25.06.2022 |
| End Examinations                                  | 27.06.2022 | 09.07.2022 |
| Commencement of next Year Class Work - 11-07-2022 |            |            |

#### III B.Tech. - I Semester (19 Batch)

| Description                            | From       | To         |
|--|------------|------------|
| Commencement of Class Work             |            | 01.10.2021 |
| I Unit of Instruction                  | 01.10.2021 | 20.11.2021 |
| I Mid Examinations                     | 22.11.2021 | 27.11.2021 |
| II Unit of Instructions                | 29.11.2021 | 15.01.2022 |
| II Mid Examinations                    | 17.01.2022 | 22.01.2022 |
| Preparation & Practical                | 24.01.2022 | 29.01.2022 |
| End Examinations                       | 31.01.2022 | 12.02.2022 |
| Commencement of II Semester Class Work |            | 14.02.2022 |

#### III B.Tech. - II Semester (19 Batch)

| Description                          | From       | To         |
|--------------------------------------|------------|------------|
| I Unit of Instructions               | 14.02.2022 | 02.04.2022 |
| I Mid Examinations                   | 04.04.2022 | 09.04.2022 |
| II Unit of Instructions              | 11.04.2022 | 28.05.2022 |
| II Mid Examinations                  | 30.05.2022 | 04.06.2022 |
| Preparation & Practical              | 06.06.2022 | 11.06.2022 |
| End Examinations                     | 13.06.2022 | 25.06.2022 |
| Commencement of next Year Class Work |            |            |

#### IV B.Tech. - I Semester (18 Batch)

| Description                            | From       | To         |
|--|------------|------------|
| Commencement of Class Work             |            | 01.10.2021 |
| I Unit of Instruction                  | 01.10.2021 | 20.11.2021 |
| I Mid Examinations                     | 22.11.2021 | 27.11.2021 |
| II Unit of Instructions                | 29.11.2021 | 15.01.2022 |
| II Mid Examinations                    | 17.01.2022 | 22.01.2022 |
| Preparation & Practical                | 24.01.2022 | 29.01.2022 |
| End Examinations                       | 31.01.2022 | 12.02.2022 |
| Commencement of II Semester Class Work |            | 14.02.2022 |

#### IV B.Tech. - II Semester (18 Batch)

| Description             | From       | To         |
|-------------------------|------------|------------|
| I Unit of Instructions  | 14.02.2022 | 02.04.2022 |
| I Mid Examinations      | 04.04.2022 | 09.04.2022 |
| II Unit of Instructions | 11.04.2022 | 28.05.2022 |
| II Mid Examinations     | 30.05.2022 | 04.06.2022 |
| Preparation & Practical | 06.06.2022 | 11.06.2022 |
| End Examinations        | 13.06.2022 | 25.06.2022 |

- 3) The Chairman enquired about the results and heads of the departments submitted that results are to be declared by the University and they are expected soon.
- 4) The Chairman reviewed the status of NBA work with heads of the departments. Heads of the departments of CSE, ECE, EEE and ME presented the status that more than 90% work is

completed and the attainments of few courses is pending and further, the data of all metrics in the criteria is to be validated.

The Chairman advised the members to complete the NBA work soon and upload the contents to NBA website and further said that separate meetings will be organized with regard to NBA.

5) The Chairman enquired about the status of AQAR 2020-21 and the deadline for submission. Coordinator-IQAC submitted that the data is being collected by the criteria coordinators and the same is to be validated and the date of submission is extended to 31<sup>st</sup> March. All the members resolved that the AQAR is to be submitted soon and focus on NBA work.

6) No other point to discuss.

The Chairman advised all the members to focus on academic matters both theory and laboratory sessions and obtain best results by giving proper inputs to students and further added counselling/proctoring should be carried out periodically to improve further.

Finally, the Coordinator and the Chairman thanked all the members present and appreciated their effort and commitment exhibited towards accreditation process and anticipated the same in future also.

The meeting was concluded with thanks to the Chair.

Members present in the meeting held on 06.01.2022

| S. No. | Name of the person           | Role                   | Signature             |
|--------|------------------------------|------------------------|-----------------------|
| 1      | Dr A. Ramesh                 | Chairman               | A Ramesh              |
| 3      | Dr N. Satish Reddy           | Management Member      | N. Satish Reddy       |
| 4      | Dr M. Srinivasa Reddy        | Member                 | M. Srinivasa Reddy    |
| 5      | Dr Pullela S.V.V.S. R. Kumar | Member                 | P. Srinivas Reddy     |
| 6      | Dr G. Rama Krishna           | Member                 | G. Rama Krishna       |
| 7      | Prof. K. Manoj Kumar Reddy   | Member                 | K. Manoj Kumar Reddy  |
| 8      | Dr Y.K.S. Subba Rao          | Member                 | Y. K. S. Subba Rao    |
| 9      | Prof. Ch. Naresh             | Member                 | Ch. Naresh            |
| 10     | Dr G.S.N. Murthy             | Member                 | G. S. N. Murthy       |
| 11     | Dr V. Anil Kumar             | Member                 | V. Anil Kumar         |
| 12     | Prof. N. Punnapu Chandrudu   | Member                 | N. Punnapu Chandrudu  |
| 13     | Prof. M. Srinivasu           | Member                 | M. Srinivasu          |
| 15     | Sri T. Veeraaju              | Senior staff Member    | T. Veeraaju           |
| 16     | Sri Kunche Raja              | Local Community Member | K. Raja               |
| 17     | Sri Karri Rama Reddy         | Industry Member        | K. Rama Reddy         |
| 18     | Smt. Pilli Sumalatha         | Industry Nominee       | P. Sumalatha          |
| 19     | Sri Bh. Vara Prasad          | Parent Member          | B. Vara Prasad        |
| 20     | Ms. Ch. V. Ch. S. Sahiti     | Student Member         | Ch. Sahiti            |
| 21     | Mr K. Vivek Santhosh         | Student Member         | K. V. Santhosh        |
| 22     | Mr P. Aditya Sashank         | Member                 |                       |
| 23     | Dr DVSSSV Prasad             | Coordinator            | D. V. S. S. V. Prasad |

# ADITYA COLLEGE OF ENGINEERING

Approved by AICTE, Permanently Affiliated to JNTUK & Accredited by NAAC  
Recognized by UGC under Sections 2(f) and 12(B) of UGC Act, 1956

Aditya Nager, ADB Road, SURAMPALEM - 533 437, E.G. Dist., A.P.  
Cell : 9963176662

## ACADEMIC RECORD BOOK

Academic Year : 2021 - 2022 Branch : CSE

Class & Year : IV B.Tech I SEMESTER SEC-A.

Course : SOFTWARE ARCHITECTURE AND  
DESIGN PATTERNS.

Name and Designation  
of Staff Member  
Handing the Course } M.V.B. Murali Krishna.M  
Assistant Professor.

  
Signature of  
Concerned Staff Member

| S. No. | Date       | Period (s) | Topic covered  |
|--------|------------|------------|--|
|        |            |            | UNIT-I   |
|        |            |            | Envisioning Architecture.  |
| 01     | 13/9/2021  | 1          | The Architecture Business Cycle.   |
| 02     | 17/9/2021  | 1          | What is Software Architecture  |
| 03     | 18/9/2021  | 1          | Architectural patterns, reference Models.<br>(i) Architectural Structures and Views<br>(ii) Module Structure                                       |
| 04     | 20/9/2021  | 1          | (iii) Component and Connector Structures<br>(iv) Allocation Structures.  |
| 05     | 21/9/2021  | 1          | Software Structures.<br>(i) Module → User, layered, class,<br>(ii) Component and Connector → Client Server, Concurrency, Process, Shared data.     |
| 06     | 22/9/2021  | 1          | (iii) Allocation → block assignment, Deployment + implementation.  |
| 07     | 22/9/2021  | 1          | Creating Architecture.<br>Introduction. →  |
| 08     | 23/9/2021  | 1          | Quality Attributes.  |
| 09     | 24/9/2021  | 1          | Achieving qualities.   |
| 10     | 29/9/2021  | 1          | Quality Attributes Scenarios.<br>(i) Source of Stimulus, (iv) Artifact<br>(ii) Stimulus, (v) Response<br>(iii) Environment, (vi) Response measures |
| 11     | 01/10/2021 | 1          |  |
| 12     | 04/10/2021 | 1          | Availability Scenario.<br>Modifiability Scenario.  |
| 13     | 05/10/2021 | 1          | Achieving qualities.<br>→ Availability Tactics.<br>→ Modifiability Tactics.  |
| 14     | 06/20/2021 | 1          | → Performance Tactics.<br>→ Security Tactics.  |
| 15     | 08/20/2021 | 1          | → Testability Tactics.<br>→ Usability Tactics.   |
| 16     | 09/10/2021 | 1          | Architectural Styles and patterns.<br>Designing the Architecture.  |
| 17     | 9/10/2021  | 1          | → Architectural in The Life Cycle.   |
| 18     | 11/10/21   | 1          | → Designing The Architecture   |
| 19     | 18/10/21   | 1          | → Documenting Software Architectures.  |

| Sl. No. | Date     | Period (s) | Topic covered   |
|---------|----------|------------|---|
|         |          |            | (i) choosing the relevant Views.<br>(ii) Documenting a View.<br>(iii) Documenting information that applies to more than one view. |
| 20.     | 20/10/21 | 1          | Reconstructing Software Architecture.   |

### UNIT-II

### Analyzing Architectures.

|    |          |   |  |
|----|----------|---|--|
| 21 | 22/10/21 | 1 | Introduction to Analyzing Architectures<br>Architecture Evaluation.<br>Architecture design decision making<br>ATAM (Analy<br>CBAM) |
|----|----------|---|--|

|    |          |   |  |
|----|----------|---|--|
| 22 | 23/10/21 | 1 | ATAM (Architecture Tradeoff Analysis Method)<br>(i) Participants in the ATAM.<br>(i) The evaluation team.<br>(ii) Project decision makers.<br>(iii) Architecture Stakeholders. |
|----|----------|---|--|

|    |          |   |   |
|----|----------|---|---|
| 23 | 25/10/21 | 1 | OUTPUTS of the ATAM.<br>Phases of ATAM<br>Steps of the Evaluation Phases. |
|----|----------|---|---|

|    |          |   |   |
|----|----------|---|---|
| 24 | 26/10/21 | 1 | Cost Benefit Analysis Method (CBAM)<br>Implementing the CBAM<br>→ Collate the Scenarios.<br>→ Refine the Scenarios.<br>→ Prioritize Scenarios.<br>→ Assign utility. |
|----|----------|---|---|

|    |          |   |   |
|----|----------|---|---|
| 25 | 29/10/21 | 1 | Software Product Lines.<br>Architecture Product Lines.<br>Software Architecture IN Future |
|----|----------|---|---|

| Sl. No. | Date      | Period (s) | Topic covered   |
|---------|-----------|------------|---|
|         |           |            | <u>UNIT-III</u>   |
| 26      | 2/11/2021 | 1          | Patterns: Patterns Description  |
| 27      | 3/11/21   | 1          | Organizing Catalogs.<br>Role in Solving Design Problems.<br>Selection and Usage |
| 28      | 5/11/21   | 1          | Creational Patterns:  |
| 29      | 6/11/21   | 1          | Abstract factory<br>Builder<br>Factory Method<br>Prototype.<br>Singleton        |
| 30      | 08/11/21  | 1          | Pattern Description, Examples.  |
| 31      | 09/11/21  | 1          | Revision for I unit.  |
| 32      | 10/11/21  | 1          | Examples for Abstract factory   |
| 33      | 12/11/21  | 1          | Example for Factory Method.   |
| 34      | 16/11/21  | 1          | Revision for II unit.   |
| 35      | 17/11/21  | 1          | Revision for III unit   |
|         |           |            | MID - I [22/11/2021 to 29/11/21]  |
| 36      | 01/12/21  | 1          | <u>UNIT-IV</u> Introduction to Structural.                                      |
| 37      | 03/12/21  | 1          | Categories of Design pattern.   |
| 38      | 06/12/21  | 1          | (i) Adapter Design pattern.   |
| 39      | 10/12/21  | 1          | (ii) Builder Design pattern.  |
|         |           |            | (iii) Bridge Design pattern.  |
|         |           |            | (iv) Decorator Design pattern.  |
| 40      | 11/12/21  | 1          | Facade, Flyweight.  |
| 41      | 13/12/21  | 1          | Proxy, Behavioral Patterns  |
| 42      | 16/12/21  | 1          | Chain of Responsibility.  |
| 43      | 17/12/21  | 1          | Command, Interpreter  |
| 44      | 18/12/21  | 1          | iterator, Mediator  |
| 45      | 20/12/21  | 1          | Memento, observer   |
| 46      | 21/12/21  | 1          | State strategy.   |





**Directorate of Academic Planning**  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA  
KAKINADA-533003, Andhra Pradesh, INDIA  
(Established by AP Government Act No. 30 of 2008)

Lr. No. DAP/RAC/II,III & IV Year /B. Tech/B. Pharmacy/2021

Date 08.10.2021

Dr. R. Srinivasa Rao,  
Director, Academic Planning  
JNTUK, Kakinada

To  
All the Principals of Affiliated Colleges,  
JNTUK, Kakinada.

Revised Academic Calendar for II, III, IV Year - B. Tech/B. Pharmacy for the AY 2021-22  
(As per G.O. Rt. No. 242, Higher Education (U.E) Dept., dated 13.09.2021)

| I SEMESTER  |            |            |       |
|---|------------|------------|-------|
| Description   | From       | To         | Weeks |
| Commencement of Class Work  | 01.10.2021 |            |       |
| I Unit of Instruction   | 01.10.2021 | 20.11.2021 | 7W    |
| I Mid Examinations  | 22.11.2021 | 27.11.2021 | 1W    |
| II Unit of Instructions   | 29.11.2021 | 15.01.2022 | 7W    |
| II Mid Examinations   | 17.01.2022 | 22.01.2022 | 1W    |
| Preparation & Practicals  | 24.01.2022 | 29.01.2022 | 1W    |
| End Examinations  | 31.01.2022 | 12.02.2022 | 2W    |
| Commencement of II Semester Class Work  | 14.02.2022 |            |       |
| II SEMESTER   |            |            |       |
| I Unit of Instructions  | 14.02.2022 | 02.04.2022 | 7W    |
| I Mid Examinations  | 04.04.2022 | 09.04.2022 | 1W    |
| II Unit of Instructions   | 11.04.2022 | 28.05.2022 | 7W    |
| II Mid Examinations   | 30.05.2022 | 04.06.2022 | 1W    |
| Preparation & Practicals  | 06.06.2022 | 11.06.2022 | 1W    |
| End Examinations  | 13.06.2022 | 25.06.2022 | 2W    |
| Commencement of next Year Class Work  |            |            |       |
| <i>Note: Calendar is prepared with 8 hrs/day hence 7 weeks per instruction period</i> |            |            |       |

*R. Srinivasa Rao*  
Director Academic Planning  
Director  
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA  
KAKINADA-533003, Andhra Pradesh, INDIA  
(Established by AP Government Act No. 30 of 2008)

Lr. No. JNTUK/DAP/AC/M. Tech/M. Pharmacy/I Year/2021-22

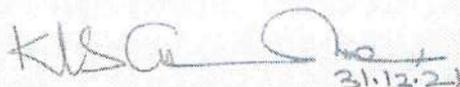
Date: 31-12-2021

**Dr. KVSG Murali Krishna,**  
M.E, Ph.D.,  
Director, Academic Planning  
JNTUK, Kakinada

To  
All the Principals of Affiliated Colleges,  
JNTUK, Kakinada.

**Revised Academic Calendar for I Year M. Tech/M. Pharmacy  
Academic year 2021-22**

| I SEMESTER                             |            |            |       |
|--|------------|------------|-------|
| Description                            | From       | To         | Weeks |
| Commencement of Class Work             | 03.01.2022 |            |       |
| I Unit of Instruction                  | 03.01.2022 | 26.02.2022 | 8W    |
| I Mid Examinations                     | 21.02.2022 | 26.02.2022 |       |
| II Unit of Instructions                | 28.02.2022 | 23.04.2022 | 8W    |
| II Mid Examinations                    | 18.04.2022 | 23.04.2022 |       |
| Preparation & Practicals               | 25.04.2022 | 30.04.2022 | 1W    |
| End Examinations                       | 02.05.2022 | 14.05.2022 | 2W    |
| Commencement of II Semester Class Work | 23.05.2022 |            |       |
| II SEMESTER                            |            |            |       |
| I Unit of Instructions                 | 23.05.2022 | 16.07.2022 | 8W    |
| I Mid Examinations                     | 11.07.2022 | 16.07.2022 |       |
| II Unit of Instructions                | 18.07.2022 | 10.09.2022 | 8W    |
| II Mid Examinations                    | 12.09.2022 | 17.09.2022 |       |
| Preparation & Practicals               | 19.09.2022 | 24.09.2022 | 1W    |
| End Examinations                       | 26.09.2022 | 08.10.2022 | 2W    |
| Commencement of next Year Class Work   | 10.10.2022 |            |       |

  
31.12.21  
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA  
KAKINADA-533003, Andhra Pradesh, INDIA  
(Established by AP Government Act No. 30 of 2008)

Lr. No. JNTUK/DAP/AC/II Year/ M. Tech /2021-22

Date: 29-10-2021

Dr. R. Srinivasa Rao,  
Director, Academic Planning  
JNTUK, Kakinada

To  
All the Principals of Affiliated Colleges,  
JNTUK, Kakinada.

**Academic Calendar for II Year M. Tech Academic Year 2021-22**  
(As per G.O. Rt. No.242, Higher Education (U.E) Dept., dated 13.09.2021)

| I SEMESTER  |            |            |       |
|---|------------|------------|-------|
| Description   | From       | To         | Weeks |
| Commencement of Class Work & Commencement of Project Work Phase-I                     | 17.08.2020 |            |       |
| I Unit of Instruction   | 01.11.2021 | 18.12.2021 | 7W    |
| I Mid Examinations  | 20.12.2021 | 25.12.2021 | 1W    |
| II Unit of Instructions   | 27.12.2021 | 12.02.2022 | 7W    |
| II Mid Examinations   | 14.02.2022 | 19.02.2022 | 1W    |
| Preparation & Practicals  | 21.02.2022 | 26.02.2022 | 1W    |
| End Examinations  | 28.02.2022 | 12.03.2022 | 2W    |
| Commencement of II Semester Class Work  | 14.03.2022 |            |       |
| II SEMESTER   |            |            |       |
| Commencement of Project Work Phase - II   | 14.03.2022 | 18.06.2022 | 14W   |
| Thesis submission duration  | 20.06.2022 | 16.07.2022 | 4W    |
| <i>Note: Calendar is prepared with 8 hrs/day hence 7 weeks per instruction period</i> |            |            |       |

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Lr. No. JNTUK/DAP/AC/MBA/MCA/I Year/2021-22

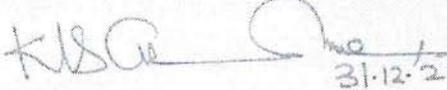
Date: 31-12-2021

**Dr. KVSG Murali Krishna,**  
*M.E., Ph.D.,*  
Director, Academic Planning  
JNTUK, Kakinada

To  
All the Principals of Affiliated Colleges,  
JNTUK, Kakinada.

**Revised Academic Calendar for I Year MBA/MCA  
Academic year 2021-22**

| I SEMESTER                             |            |            |       |
|--|------------|------------|-------|
| Description                            | From       | To         | Weeks |
| Commencement of Class Work             | 03.01.2022 |            |       |
| I Unit of Instruction                  | 03.01.2022 | 26.02.2022 | 8W    |
| I Mid Examinations                     | 21.02.2022 | 26.02.2022 |       |
| II Unit of Instructions                | 28.02.2022 | 23.04.2022 | 8W    |
| II Mid Examinations                    | 18.04.2022 | 23.04.2022 |       |
| Preparation & Practicals               | 25.04.2022 | 30.04.2022 | 1W    |
| End Examinations                       | 02.05.2022 | 14.05.2022 | 2W    |
| Commencement of II Semester Class Work | 23.05.2022 |            |       |
| II SEMESTER                            |            |            |       |
| I Unit of Instructions                 | 23.05.2022 | 16.07.2022 | 8W    |
| I Mid Examinations                     | 11.07.2022 | 16.07.2022 |       |
| II Unit of Instructions                | 18.07.2022 | 10.09.2022 | 8W    |
| II Mid Examinations                    | 12.09.2022 | 17.09.2022 |       |
| Preparation & Practicals               | 19.09.2022 | 24.09.2022 | 1W    |
| End Examinations                       | 26.09.2022 | 08.10.2022 | 2W    |
| Commencement of next Year Class Work   | 10.10.2022 |            |       |

  
31-12-21  
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KAKINADA-533003, Andhra Pradesh, INDIA  
(Established by AP Government Act No. 30 of 2008)

Lr. No. JNTUK/DAP/AC/II Year/MBA/2021-22

Date: 29-10-2021

Dr. R. Srinivasa Rao,  
Director, Academic Planning  
JNTUK, Kakinada

To  
All the Principals of Affiliated Colleges,  
JNTUK, Kakinada.

**Academic Calendar of II Year MBA for Academic year 2021-22**  
(As per G.O. Rt. No.242, Higher Education (U.E) Dept., dated 13.09.2021)

| I SEMESTER                             |            |            |       |
|--|------------|------------|-------|
| Description                            | From       | To         | Weeks |
| Commencement of Class Work             | 01.11.2021 |            |       |
| I Unit of Instruction                  | 01.11.2021 | 18.12.2021 | 7W    |
| I Mid Examinations                     | 20.12.2021 | 25.12.2021 | 1W    |
| II Unit of Instructions                | 27.12.2021 | 12.02.2022 | 7W    |
| II Mid Examinations                    | 14.02.2022 | 19.02.2022 | 1W    |
| Preparation & Practicals               | 21.02.2022 | 26.02.2022 | 1W    |
| End Examinations                       | 28.02.2022 | 12.03.2022 | 2W    |
| Commencement of II Semester Class Work | 14.03.2022 |            |       |
| II SEMESTER                            |            |            |       |
| I Unit of Instructions                 | 14.03.2022 | 30.04.2022 | 7W    |
| I Mid Examinations                     | 02.05.2022 | 07.05.2022 | 1W    |
| II Unit of Instructions                | 09.05.2022 | 25.06.2022 | 7W    |
| II Mid Examinations                    | 27.06.2022 | 02.07.2022 | 1W    |
| Preparation & Practicals               | 04.07.2022 | 09.07.2022 | 1W    |
| End Examinations                       | 11.07.2022 | 23.07.2022 | 2W    |

*Note: Calendar is prepared with 8 hrs/day hence 7 weeks per instruction period*

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KAKINADA-533003, Andhra Pradesh, INDIA  
(Established by AP Government Act No. 30 of 2008)

Lr. No. JNTUK/DAP/ACT/Year/B. Tech/2021-22

Date: 19-11-2021

Dr. R. Srinivasa Rao,  
Director, Academic Planning  
JNTUK, Kakinada

To  
All the Principals of Affiliated Colleges,  
JNTUK, Kakinada.

**Academic Calendar of I Year B. Tech for the Academic Year 2021-22**

| I SEMESTER                             |            |            |       |
|--|------------|------------|-------|
| Description                            | From       | To         | Weeks |
| Commencement of Class Work             | 22.11.2021 |            |       |
| Induction Classes                      | 22.11.2021 | 27.11.2021 | 1W    |
| I Unit of Instruction                  | 29.11.2021 | 15.01.2022 | 7W    |
| I Mid Examinations                     | 17.01.2022 | 22.01.2022 | 1W    |
| II Unit of Instructions                | 24.01.2022 | 12.03.2022 | 7W    |
| II Mid Examinations                    | 14.03.2022 | 19.03.2022 | 1W    |
| Preparation & Practicals               | 21.03.2022 | 26.03.2022 | 1W    |
| End Examinations                       | 28.03.2022 | 09.04.2022 | 2W    |
| Commencement of II Semester Class Work | 11.04.2022 |            |       |
| II SEMESTER                            |            |            |       |
| I Unit of Instructions                 | 11.04.2022 | 28.05.2022 | 7W    |
| I Mid Examinations                     | 30.05.2022 | 04.06.2022 | 1W    |
| II Unit of Instructions                | 06.06.2022 | 23.07.2022 | 7W    |
| II Mid Examinations                    | 25.07.2022 | 30.07.2022 | 1W    |
| Preparation & Practicals               | 01.08.2022 | 06.08.2022 | 1W    |
| End Examinations                       | 08.08.2022 | 20.08.2022 | 2W    |
| Commencement of next Year Class Work   | 22.08.2022 |            |       |

*Note: Calendar is prepared with 8 hrs/day hence 7 weeks per instruction period*

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**Directorate of Academic and Planning**  
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(Established by AP Government Act No. 30 of 2008)

Lr. No. JNTUK/DAP/RAC/B. Tech/B. Pharmacy/II Year/2021-22

Date: 21-01-2022

Dr. KVSG Murali Krishna,  
M.E., Ph.D.  
Director, Academic and Planning  
JNTUK, Kakinada

To  
All the Principals of Affiliated Colleges  
JNTUK, Kakinada.

**Revised Academic Calendar for II Year - B. Tech/B. Pharmacy for the AY 2021-22**

| I SEMESTER                             |            |            |       |
|--|------------|------------|-------|
| Description                            | From       | To         | Weeks |
| Commencement of Class Work             | 01.10.2021 |            |       |
| I Unit of Instructions                 | 01.10.2021 | 20.11.2021 | 7W    |
| I Mid Examinations                     | 22.11.2021 | 27.11.2021 | 1W    |
| II Unit of Instructions                | 29.11.2021 | 05.02.2022 | 10W   |
| II Mid Examinations & Practicals       | 07.02.2022 | 12.02.2022 | 1W    |
| End Examinations                       | 14.02.2022 | 26.02.2022 | 2W    |
| Commencement of II Semester Class Work | 28.02.2022 |            |       |
| II SEMESTER                            |            |            |       |
| I Unit of Instructions                 | 28.02.2022 | 23.04.2022 | 8W    |
| I Mid Examinations                     | 18.04.2022 | 23.04.2022 |       |
| II Unit of Instructions                | 25.04.2022 | 18.06.2022 | 8W    |
| II Mid Examinations                    | 13.06.2022 | 18.06.2022 |       |
| Preparation & Practicals               | 20.06.2022 | 25.06.2022 | 1W    |
| End Examinations                       | 27.06.2022 | 09.07.2022 | 2W    |
| Commencement of next Year Class Work   | 11.07.2022 |            |       |

  
Director Academic and Planning  
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