# COLLEGE OF AGRICULTURAL INFORMATION TECHNOLOGY
## ANAND AGRICULTURAL UNIVERSITY
### ANAND – 388 110 ● GUJARAT ● INDIA

**AAU**

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**Read:** Resolution of 51$^{st}$ meeting of the Academic Council held on 08-03-2019, Anand Agricultural University, Anand vide Item No. 51.18 has resolved as under

**Reformation of 4$^{th}$ to 8$^{th}$ Semesters B.Tech. (AIT) course curriculum**

# NOTIFICATION

It is hereby notified to all concerned that vide Item No. 51.18 of the 51$^{st}$ meeting held on 08-03-2019, the Academic Council of the Anand Agricultural University, has resolved as under.

"In continuation of the notification No. AAU/AIT/ACD/1222-28/2018 dated: 14/12/2018 approving the syllabus of B. Tech. (AIT) for 1$^{st}$ to 3$^{rd}$ semester, the academic council has further approved the revised syllabus of semester 4$^{th}$ to 8$^{th}$ of the B. Tech. (AIT) degree programme. Thereby, the complete syllabus of B. Tech. (AIT) is revised and approved by the academic council for its implementation from the academic year 2018-19."

No. AAU/AIT/ACD/1563 - 71 /2019

Date: 25/03/2019

PRINCIPAL & DEAN

### Copy F.W.Cs. to:

1. All Members of Academic Council of this University.
2. All Officers of this University.
3. All Deans and Principals, AAU, Anand
4. Prof. & Head, Department of AIT
5. Prof. & Head, Department of Agricultural Sciences

### Copy to:

1. P.S. to Vice-Chancellor, Anand Agricultural University, Anand.
2. P.A. to Registrar, Anand Agricultural University, Anand.
3. Office of Registrar (Examination), Legal and Academic Branch(10 Copies).
4. Academic File

# Syllabus for B. Tech. (AIT) (Year 2018-19)

## Semester -I

| Course No | Subject Name | TH | PR | CR | HRS |
|---|---|---|---|---|---|
| AIT 111 | Fundamentals of Computers | 2 | 1 | 3 | 4 |
| AIT 112 | Programming in C | 2 | 2 | 4 | 6 |
| AIT 113 | Introduction to Web Scripting | 2 | 1 | 3 | 4 |
| AGRI 111 | Fundamentals of Agronomy | 2 | 1 | 3 | 4 |
| AGRI 112 | Introductory Botany | 1 | 1 | 2 | 3 |
| AGRI 113 | Fundamentals of Horticulture | 1 | 1 | 2 | 3 |
| MATH 111 | Engineering Mathematics - I | 2 | 1 | 3 | 4 |
| ENG 111 | Comprehension and Communication Skills in English | 1 | 1 | 2 | 3 |
| PE 111 | NCC /NSS / PHYSICAL EDUCATION | 0 | 1 | 1* | |
| | TOTAL CREDITS | 13 | 9 | 22 | 31 |

## Semester –II

| Course No | Subject Name | TH | PR | CR | HRS |
|---|---|---|---|---|---|
| AIT 121 | Data Structure Through C | 2 | 2 | 4 | 6 |
| AIT 122 | Introduction to Multimedia | 1 | 2 | 3 | 5 |
| AIT 123 | Computer Organization and Architecture | 2 | 0 | 2 | 2 |
| AIT 124 | Basic Electronics | 2 | 1 | 3 | 4 |
| AGRI 121 | Environmental Studies and Disaster Management | 2 | 1 | 3 | 4 |
| AGRI 122 | Principles of Integrated Pest and Disease Management | 2 | 1 | 3 | 4 |
| AGRI 123 | Soil and Water Conservation Engineering | 1 | 1 | 2 | 3 |
| MATH 121 | Engineering Mathematics -II | 2 | 1 | 3 | 4 |
| PE 121 | NCC /NSS / PHYSICAL EDUCATION | 0 | 1 | 1* | |
| | TOTAL CREDITS | 14 | 9 | 23 | 32 |

## Semester – III

| Course No | Subject Name | TH | PR | CR | HRS |
|---|---|---|---|---|---|
| AIT 211 | OOP Using Java | 2 | 1 | 3 | 4 |
| AIT 212 | Relational Database Management System | 2 | 1 | 3 | 4 |
| AIT 213 | System Analysis and Design | 2 | 1 | 3 | 4 |
| AIT 214 | Website Development Using PHP | 2 | 1 | 3 | 4 |
| AGRI 211 | Basic Instrumentation | 2 | 1 | 3 | 4 |
| AGRI 212 | Fundamentals of Agricultural Economics | 2 | 0 | 2 | 2 |
| AGRI 213 | Fundamentals of Soil Science | 2 | 1 | 3 | 4 |
| AGRI 214 | Fundamentals of Agricultural Extension Education | 1 | 1 | 2 | 3 |
| PE 211 | NCC /NSS / Physical Education | 0 | 1 | 1* | |
| SMNR 211 | SEMINAR-I | 0 | 1 | 1* | |
| | TOTAL CREDITS | 15 | 7 | 22 | 29 |

* Non Credit Course

## Semester –IV

| Course No | Subject Name | TH | PR | CR | HRS |
|---|---|---|---|---|---|
| AIT 221 | Software Engineering | 3 | 0 | 3 | 3 |
| AIT 222 | Introduction to .Net Framework and ASP.NET | 2 | 2 | 4 | 6 |
| AIT 223 | Computer Networks | 2 | 1 | 3 | 4 |
| AIT 224 | Operating System with Unix/Linux | 2 | 1 | 3 | 4 |
| AIT 225 | Web Data Management | 2 | 1 | 3 | 4 |
| AGRI 221 | Agricultural Meteorology and Climate Change | 2 | 1 | 3 | 4 |
| AGRI 222 | Entrepreneurship Studies and Business Communication | 2 | 0 | 2 | 2 |
| STAT 221 | Statistical Methods | 2 | 1 | 3 | 4 |
| PE 221 | NCC /NSS / Physical Education | 0 | 1 | 1* | |
| PRJT 221 | Project – I | 0 | 1 | 1* | |
| | TOTAL CREDITS | 17 | 7 | 24 | 31 |

## Semester –V

| Course No | Subject Name | TH | PR | CR | HRS |
|---|---|---|---|---|---|
| AIT 311 | Advance ASP.NET | 2 | 1 | 3 | 4 |
| AIT 312 | Python Programming | 2 | 1 | 3 | 4 |
| AIT 313 | Elective-I | 2 | 1 | 3 | 4 |
| AIT 314 | E-Content Development Using Multimedia | 1 | 2 | 3 | 5 |
| AIT 315 | Fundamentals of Artificial Intelligence | 2 | 1 | 3 | 4 |
| AGRI 311 | Communication Skills and Personality Development | 2 | 0 | 2 | 2 |
| AGRI 312 | Elective – II | 2 | 1 | 3 | 4 |
| AGRI 313 | GIS and Remote Sensing Techniques | 2 | 1 | 3 | 4 |
| PRJT 311 | Project – II | 0 | 3 | 3* | |
| | TOTAL CREDITS | 15 | 8 | 23 | 31 |

## Semester –VI

| Course No | Subject Name | TH | PR | CR | HRS |
|---|---|---|---|---|---|
| AIT 321 | E-Content Development Using Advance Multimedia | 1 | 2 | 3 | 5 |
| AIT 322 | Machine Learning | 1 | 1 | 2 | 3 |
| AIT 323 | Application Development in Mobile Technology | 2 | 1 | 3 | 4 |
| AIT 324 | Data Analysis with MATLAB | 2 | 1 | 3 | 4 |
| AIT 325 | Image Processing | 2 | 1 | 3 | 4 |
| AGRI 321 | Elective – III | 2 | 1 | 3 | 4 |
| AGRI 322 | Advanced Automation and Sensor Technology | 2 | 1 | 3 | 4 |
| AGRI 323 | Elective – IV | 2 | 1 | 3 | 4 |
| SMNR 321 | Seminar-II | 0 | 1 | 1* | |
| | TOTAL CREDITS | 14 | 9 | 23 | 32 |

* Non Credit Course

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## Semester-VII

| Course No | Subject Name | TH | PR | CR | HRS |
|---|---|---|---|---|---|
| EXPL 411 | Educational Tour | 0 | 3 | 3 | 6 |
| EXPL 412 | Experiential Learning - I | 0 | 6 | 6 | 12 |
| EXPL 413 | Experiential Learning - II | 0 | 6 | 6 | 12 |
| EXPL 414 | Experiential Learning - III | 0 | 5 | 5 | 10 |
| PRJT 411 | Project –III | 0 | 3 | 3* | |
| SSD 411 | Soft Skills Development | 0 | 1 | 1* | |
| | TOTAL CREDITS | 0 | 20 | 20 | 40 |

* Non Credit Course

## Semester—VIII

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|---|---|---|---|---|---|
| PRJT 421 | Project cum Internship | 0 | 20 | 20 | 40 |

## ELECTIVE SUBJECTS

| Elective-I | Subject Name | TH | PR | CR | HRS |
|---|---|---|---|---|---|
| 1 | Information Retrieval | 2 | 1 | 3 | 4 |
| 2 | Data Warehouse and Data Mining in Agriculture | 2 | 1 | 3 | 4 |
| Elective-II | Subject Name | | | | |
| 1 | Fundamentals of Crop Physiology | 2 | 1 | 3 | 4 |
| 2 | Nanotechnology and Precision Farming | 2 | 1 | 3 | 4 |
| 3 | Farm Machinery and Power | 2 | 1 | 3 | 4 |
| Elective-III | Subject Name | | | | |
| 1 | Operations Research | 2 | 1 | 3 | 4 |
| 2 | Crop Simulation Models | 2 | 1 | 3 | 4 |
| 3 | Agricultural Marketing, Trade and Prices | 2 | 1 | 3 | 4 |
| Elective-IV | Subject Name | | | | |
| 1 | Protected Cultivation and Green Technology | 2 | 1 | 3 | 4 |
| 2 | Bioinformatics Computing | 2 | 1 | 3 | 4 |