Read: Resolution of 42nd meeting of the Academic Council held on 06-06-2016, Anand Agricultural University, Anand vide Item No. 42.10 has resolved as under

Syllabus reformation of 7th and 8th Semesters of B.Tech. (AIT)

NOTIFICATION

It is hereby notified to all concerned that vide Item No. 42.10 of the 42nd meeting held on 06-06-2016, the Academic Council of the Anand Agricultural University, has resolved as under.

"It is approved the reformed 7th and 8th Semester syllabus for "B. Tech. (AIT)" to be implemented as per **Appendix-A** from the academic year 2016-17. "

No. AAU/AIT/ACD/ॐ৫।-৪ৎ /2016

Date: 18/06/2016

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

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

Appendix-A
B. Tech. (AIT) Syllabus

Course No	Subject Name	TH	PR
	Semester-VII		
EXPL 411	Educational Tour	0	3
EXPL 412	Experiential Learning - I	0	6
EXPL 413	Experiential Learning - II	0	6
EXPL 414	Experiential Learning - III	0	5

Course No	Subject Name	TH	PR
	Semester--VIII		
PRJT 421	Project	0	20

EXPL 411   **Educational Tour**   **3(0+3)**

Educational Tour will often cater to more than one learning style, making them excellent teaching tools for certain deserving students. Classroom lectures apply primarily to audio learners, who learn best by listening. Visual learners can take benefit from visual aids, which exist with a limitation in the classroom, but are much more frequent during an Educational Tour. Finally, for tactile learners, Educational Tour offer an uncommon opportunity to perform hands-on learning and provide valuable educational opportunities in the actual field of work, without using textbooks and other tools used in a normal college schedule. It is supplement to the classroom learning. Students can actually see and enrich their knowledge. Gain deeper understanding of the problem in tangible view. It is not only helpful in effective learning but promote the qualities of leadership, discipline and self-confidence.

Objectives of Educational Tour Programme

1. To provide an opportunity to work with IT Research Stations and IT/AIT-based industries.
2. To develop the communication skills, confidence and competence among the students to interact with the IT people so as to prepare Project Reports on "Role of Information Technology in Agricultural Development".

Principles of Educational Tour Programme

1. Learn from IT/AIT-based industries and Serve them
2. Work and plan with IT/AIT-based industries
3. Start with what IT/AIT-based industries know

Expected Outcome of Educational Tour Programme
1. Personality development
2. Art of listening and art of negotiation
3. Confidence building
4. Develop skill of joint effort (community management)
5. Developing art of creative thinking
6. Effective decision-making
7. Time and relationship management
8. Observe problem and come out with a best possible/feasible solution
9. Current Technology Trends
10. Human Resource Management in Companies
11. Work Culture in Companies

Duration: 15/20 Days

EXPL 412   **Experiential Learning - I**   6(0+6)

UNIT I

Problem identification: What is the actual problem? , What are the causes for this problem? , Is it important to solve this problem? , How complex it is? , What are the likely solutions to this problem? , What type of benefits can be expected once the problem is solved? and so on.; Internal and external environment; Problem of : reliability, validity, accuracy, economy, timeliness, capacity , throughput ; advantages of problem identification in SDLC

UNIT II

Feasibility study and cost benefit analysis: Need for feasibility study: whether a new system is to be installed or not? , determine the potential of the existing system, improve the existing system and know what should be embedded in the new system, define the problems and objective involved in a project, avoid crash implementation of a new system, avoid the "hardware approach"; Method : Technical feasibility , Economics feasibility and Operational or behavioral feasibility

UNIT III

System requirement analysis: What outputs are needed? , What inputs are needed to obtain theses outputs? , What operations it must perform to obtain these outputs? , What resources must

be used? , What operational and accounting controls are needed? etc. ; Different ways to assess the user requirements

EXPL 413　　　　　　　　**Experiential Learning - II**　　　　　　　　6(0+6)

UNIT I

System design specifications and Programming: Output designs , Input designs ,Procedures ,Information flow , Files and databases , Volumes , Manually used forms, Program specification etc.; Standard tools : System flowcharts, computer run chart, clerical procedure chart, computer procedure chart etc ; IPO and HIPO charts , Decision tables ; File design : types of files, file structure, File organization , choice of storage mediu

UNIT II

System implementation, follow up and maintenance: Site preparation, Installation of new equipment, User's training, seminars and meetings to gain user support , Use of inputs and procedures , Trial and parallel runs of the system on the computer , Gradual phasing out of the old system

UNIT III

Evaluation of the system: Development evaluation, Operation Evaluation: response time, ease of use, reliability of computation and adequacy of storage capacity etc.; User Management Assessment evaluation

EXPL 414　　　　　　　　**Experiential Learning - III**　　　　　　　　5(0+5)

UNIT I

System Tools and Techniques: What are system tools and techniques? , Classification of tools and techniques: Traditional tools , Structured tools and Software development tools ; Analysis tools: Charting tools (Data/Fact collection tools) ,Dictionary tools (Data flow , Data dictionary , Structured English) ; Design tools : Specification tools, Layout tools ; Development tools : Software Engineering tools , Coding tools , Testing tools)

UNIT II

Test Case: Test Case, Test Priority (Low/Medium/High), Module Name, Test Title, Pre-conditions, Dependencies, Test Steps, Test Data, Expected Result, Actual Result, Status (Pass/Fail) etc.

Software Testing: Why Test? , Beta Testing, Problems with Beta Testing, Black-Box / White-Box Testing, Advantages of Black Box / White-Box Testing , Automated Testing Tools (Selenium , Ranorex ,Sahi)

Analyzer in LoadRunner : How to use Analyzer in LoadRunner, Session explorer, Analysis Graphs (Average Response Time graph, Hits Per Second graph, Running VUsers graph, Throughput graph, Transactions Per Second graph, Transaction Performance Summary graph, Testing Strategy Used, Limitations and Constraints, Future Applications)

UNIT III
Workshop/ Advance Training

PRJT 421   **Project**   **20(0+20)**

The objective of the project work is to solve industrial (or society or research) problems by developing quality software solution. During the development of the project the students should involve in all the stages of the software development life cycle like requirements engineering, systems analysis, systems design, software development, testing strategies and documentation with an overall emphasis on the development of reliable software systems. The primary emphasis of the project work is to understand and gain the knowledge of how to plan, schedule, and monitor the software project. Topics selected should be complex and large enough to justify as a software project. The courses studied by the students during the B.Tech. (AIT) programme provide them the comprehensive background to work on diverse application domains.

College of Agricultural Information Technolog
Anand Agricultural University
Anand – 388 110

8th Semester of B. Tech. (AIT)
Internship Evaluation

College Placement Cell is thanking you for supervising our Final year B. Tech. (AIT) student(s) for their 4-months internship project.
Please let us know how your intern performed during their time with you.

Name of the Student:	
Project Title:	

Particulars	Marks Obtained	Remarks/Comments
Responsibility & Reliability: Demonstrates a consistent level of self-discipline, punctuality, and dependability. *(Max. 2 points)*		
Communication Skill: Is intern effectively communicated verbally to deliver his/her problem and/or ideas? *(Max. 2 points)*		
Interpersonal / Team work skill: Interaction of intern with others. *(Max. 2 points)*		
Internship Project: Problem definition, Intern's understanding level towards problem definition in order to execute the project and meet objectives. *(Max. 4 points)*		
Internship Project Final Outcome: Final outcome of 4-months project work. Level of developed application, module, or any relevant work. *(Max. 5 points)*		
Project Report Writing Skill: Is intern successfully communicated in writing to convey his/her final outcome of given project in professional manner? *(Max. 5 points)*		
OVERALL Performance (TOTAL of given points)		

Date:

Supervisor Signature:

College of Agricultural Information Technology
Anand Agricultural University
Anand – 388 11

8ᵗʰ Semester of B. Tech. (AIT)
Internal Evaluation of Internship report

University Reg. #	
Name of Student	
Project Title	

Particulars	Marks Obtained	Remarks / Comments
Internship Project: Problem definition, Intern's understanding level towards problem definition in order to execute the project and meet objectives. (Max. 25 marks)		
Internship Project Final Outcome Final outcome of 4-months project work. Level of developed application, module or any relevant work. (Max. 30 marks)		
Project Report Writing Skill: Is intern successfully communicated in writing to convey his/her final outcome of given project in professional manner? Dissertation format, literature review. (Max. 25 marks)		
TOTAL marks obtained		

Name and Signature of Evaluator:

Date: