

MEMORANDUM OF UNDERSTANDING

Between

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

KAKINADA

And

ALTAIR BANGALORE

on 5th December 2008

For

Establishing

INNOVATIONS AND DESIGN CENTER

At

JNTU KAKINADA

ALTAIR agrees to assist in setting up an **Innovation and Design Center (IDC)**, in the field of CAE at JNTU Kakinada. This center will have facility for 30 persons to work simultaneously on CAE related projects. The Center will conduct formal courses (part of the curriculum) for students. It will also offer, regular short-term training programs duration based on the need of industry.

The Center will have the following activities:

- CAE training for UG/PG/Industry in HyperWorks.
- Conduct Projects at UG/PG/PhD level.
- Conduct Short Term/Continuing Education programs for the industry and academia.
- Facilitate sponsored research for the industry.
- Conduct Induction training for those recruited by ALTAIR if required.
- And any activity as agreed to mutually by both the parties.

Role of Altair Engineering

- Altair will designate one of its engineers as a non resident Co-Manager to run the center jointly with local Faculty Manager; they will form a joint panel with VC (or Principal College of Engineering) JNTU Kakinada as chairman and Altair MD as Co-Chairman.
- Altair may send engineers to the Innovation Center for special sponsored projects, in such cases JNTU Kakinada should provide with the Guest House accommodation.
- Altair will provide professional guidance in setting up the center.
- Joint research programs and field studies by faculty guided by Altair when decided upon.
- Participation of experts from industry in curriculum development. opportunity to start need based academic programs.
- B. Tech and M. Tech Project/Dissertation working in industries under joint guidance of the faculty and experts from Altair may be taken up.
- Short-term assignment to faculty members in Altair may also be arranged.

- Visiting faculty/professors from industries (Once every quarter to conduct classes)
- Altair will provide two sets of courseware one for the faculty and the other for the students.
- Recruitment – Altair may directly recruit talented students from amongst those from the center purely on merit basis.
- Resource Sharing – Selected research manpower/faculty and students willing to work on their projects at the center may get access to the high compute facility at Altair premises with information about such usage given to Altair in advance.
- Library – Faculty and selected students of the innovation Center will get access to the public domain papers and reports of Altair. Likewise Altair will have access to the library facility existing at JNTU Kakinada including the electronic library and many of the journals available on line only inside the premises of JNTU Kakinada.
- Tailor made MS Programs - Specially designed MS programs can be offered to the ALTAIR personnel (mainly for fresh recruits). A specially designed curriculum can be prepared based on mutual agreement. The recruits will go through the formal course work for two semesters at IDC and then a one –year project work at ALTAIR.
- Registration for Ph. D programs – External Registration provision for ALTAIR Engineers for the Ph. D programs at JNTU Kakinada. For instance, ALTAIR personnel with necessary qualification can register for an External Ph. D (with two advisors – one from JNTU Kakinada and another from Altair).
- Lectures by Visiting Experts – Altair may arrange special lectures from experts in India and those visiting from abroad at IDC.
- Internships – Altair may provide internships to selected JNTU Kakinada students who work in Altair premises at least for a period of 6 months and can directly recruit some of them.

- Incubation Center – Incubation activity has gained importance in the country and IDC can take an active part to promote such activities to students; scope of involvement will be jointly decided based on the evaluation of each proposal.

Role of JNTU Kakinada

- JNTU: kakinada will provide necessary infrastructure for IDC in terms of space, hardware, CAE software tools other necessary computer peripherals for conducting the above mentioned activities at the Center.
- JNTU: kakinada in their curriculum may lay emphasis on CAE technology in mechanical, applied mechanical and production engineering disciplines for the undergraduate as well as post graduate courses.
- Use of the facilities for the conduct of Continuing Education Programs, Training Programs, Short Term Programs as well as Sponsored Research and other industry related activities will be on terms to be decided by both the parties.
- The facility created can also be utilized for other academic activities.
- Charges applicable to conduct the industry activities will be decided jointly by both the parties taking in to account the different fixed and variable costs incurred for conducting the activity; compensation/honorarium/consultancy charges for involved people and charges to be paid to the establishment for permitting the sponsored research etc.
- The norms developed concerning the charges will be subject to revision every two years.
- IDC can allow the students of the other Engineering Colleges interested in studying these subjects. The logistics for this will be jointly worked out. Any fees charged for this shall go to JNTU Kakinada.
- Use of the software for consultancy and non-academic purposes shall be subject to the terms mutually acceptable to ALTAIR and JNTU Kakinada in line with the license agreement.
- All the activities of IDC should be transparent to both the parties.

Validity and Exit Options

- IDC is being established for promoting Industry – Institute Interaction which both the parties consider as vital and believe that it results in a win-win situation for both.
- Joint monitoring and review committee to monitor IDC.
- Intellectual Property rights will be held jointly by JNTU Kakinada and Altair for all the knowledge/patent/research citation resulting under this MOU.
- This arrangement shall remain valid for a period 3 years (w.e.f.) and can be extended for a further period on mutual consent.
- Also, the arrangement can be terminated on mutual consent anytime before this validity period (three years). However, such a termination should not result in problems for either party e.g. termination in the middle of semester would derail the academic activity at JNTU Kakinada and termination of the arrangement, while there is an ongoing consultancy project, will bring disrepute to both the parties and cause problems to the client.

Signature V. Ravindra
Name Dr. V. RAVINDRA
Designation Regulator
Organization JNTU Kakinada
Date 5-12-08

Signature J. S. Rao
Name
Designation
Organization
Date

Witness

Signature
Name
Designation.....
Organization
Date