

Policy for Implementation of International Tie ups at JUIT

Objectives:

1. To increase the visibility of JUIT at International level through joint teaching, and research collaborations with overseas Institutes of repute.
2. To attract foreign students, especially from SAARC nations to enroll in JUIT academic programs.

For achieving these objectives, following policy document will provide the guidelines:-

A. Establishment of a Task Force

A task force is required to look after and implementation of International Tie up of JUIT in all spheres. The members of the task force will lead in various activities to interact with international institutions to promote JUIT as a brand in teaching, and research. Following is the structure of task force for looking after internationalization and foreign tie ups of JUIT. The members have been nominated by their respective heads of the departments.

Prof. Sudhir Kumar	Chairperson
Dr. Ragini Raj Singh	Member
Dr. Hemant Sood	Member
Dr. Sugandha Singh	Member
Dr. Tanu Sharma	Member
Dr. Ruchi Verma	Member
Dr. Ashok Nadda	Member
Dr. Bupendra Kumar Pathak	Member
Dr. Salman Raju Talluri	Member

The implementation of International tie ups at JUIT will be collected responsibility of this task force. The role of the task force is not only restricted to be suggestive to various departments, but also to devise ways and means (details provided later in the policy) and their implementation to perform the following tasks. The specific tasks are:

Tasks
1. Work on international collaborations for tie-up of Advanced Research Centres in R&D
2. Students Exchange Program with foreign universities
3. Increasing collaboration in holding international workshops, seminars, conferences
4. Advance workshops for training of teachers and students

5. Writing joint collaborative internationally funded research projects
6. IPR activities
7. Work for establishing joint degree(s) with international universities of repute like 2 years in India and 2 years abroad and many other combination with equal advantage to JUIT and its International partner.
8. Roping in alumni of JUIT to help in above endeavours
9. Establishing tie-ups with SAARC nation's universities of repute and ranking

Regular meetings of task force will take place to access the progress and carry on deliberations to accomplish the above tasks. In case a task force member leaves JUIT, another member from the same department will be inducted in the panel with recommendations of respective head of the department.

B. Establishment of Office of International Affairs (IA) and its Portal

The Office of International Affairs will be established at JUIT with the permission of Hon'ble Vice Chancellor. The task force members will be designated as International Affairs Officers to carry out the assigned work.

The first step to Internationalization of JUIT is to provide the information about our academic programmes and strengths in teaching and research to overseas students and faculty. For this, we shall be creating an International Brochure, handbook, banners, fliers and videos etc. These handbooks/brochures will be finalized in consultation with current admission committee of JUIT. International Affairs (IA) Portal will be created on JUIT website to display the following information:-

- Our ongoing programs and value for money in providing education
- Existing international tie ups
- JUIT alumni data of higher education and their jobs abroad
- Information about study in India
- Information about scholarships for SAARC nation students
- Research projects, quality publications and Students Exchange Programs of JUIT
- Virtual tour of all JUIT campus
- Role of our International Relation Officers as Mentors

The IA office will also focus on mentoring of international students as they will be coming from diverse cultural backgrounds. The designated international officers of the task force will also initiate the discussion with the authorities regarding arrangement of their stay and food in campus.

Task 1: Work on international collaborations for tie-up of Advanced Research Centres in R&D:

The task force will identify the potential of establishing Advance Research Centres in R&D with specific thrust areas across all departments of JUIT and will build up international collaborations through means of joint research, teaching, consultancy and service. All the departments will be advised to look for their strengths in establishing Advance labs./centres. E.g. The possibility of following advance centres (but not restricted to these) in Industrial Safety and Management, Advanced Materials and

Clean Environment, Design and Innovation, Biomedical Research will be explored with relevant faculty and departments.

The interdisciplinary proposed centres will be preferred where faculty from various departments will work together. These centres intend to reduce the research gap by making a synergy with the ongoing advanced research at the universities in the foreign countries. The high-quality publications through the collaborative research activities of these centres will enhance the ranking of JUIT at world level and spread the name of JUIT among overseas universities to attract foreign students.

Due to the in house research competence, the outsider (both Indian and foreigner) will have the urge to approach these centres for collaborative research work. In recent years, the existing faculty of JUIT have collaborated with many foreign universities such as University of Dayton (USA), South Dakota School of Mines and Technology (USA), University of Nebraska at Omaha (USA), Pushchino Institute Moscow (Russia), POSTECH (South Korea), Pittsburgh State University (USA), CONICET (Argentina), Konkuk University, (South Korea), Dongguk University (South Korea), Kyongii University (South Korea), University of Technology Sydney, (Australia), Lac Hong University (Vietnam), Universidade Tiradentes (Brazil), Korea University, University of Edinburgh (UK), University of Malaysia Tarranganu (Malaysia), University Technology Malaysia, Johar Bahru (Malaysia), Khalifa University, (UAE) Kyushu University (Japan), University of Osnabruck (Germany), GIST (South Korea), National Sun Yet-sen University (Taiwan), National Taiwan University (Taiwan), VasylyStefanykPrecarpathian National University (Ukraine), Tel Aviv University (Israel), SINTEF Industry for renewable energy (Norway), University of Michigan, University of Surrey (USA) etc. Such collaborations have given a boost to the research efforts of the JUIT. Some of the foreign researchers amongst these collaborations have already visited JUIT (e.g. for working in the area of advance materials and clean energy). If an advanced research centre is developed and the working platform is shared with foreign researches, it will not only sustain the established research collaborations but also attract the foreign researchers and students to JUIT.

On similar lines, the other task is to strengthen the existing centres of excellence (Sustainable Technologies for Rural Development, Medical Informatics, and Structural Engineering) at JUIT. This is through deliberations with their coordinators to hold international workshops, seminars, conferences, and other such events through these centres. The task force members' role may be suggestive, supporting or even leading for these existing centres depending upon their skills and assigned tasks.

The possibility of establishment of Advance centre of Instrumentation will be worked out. These centre will not only cater the experimental needs of our students and scholars, but also be available to students of other institutes. This will be developed on pooling the available resources of the respective departments.

Task 2: Students' Exchange Program with foreign universities

The JUIT is having active Students Exchange Program with two US Universities. The final semester students of B Tech. and M. Tech. visit these Universities for completion of their project work. These Universities are South Dakota School of Mines and Technology, SD, USA and University of Nebraska and Omaha, USA. The task force will take up the following activities:-

- a. More overseas Universities will be identified for Students Exchange Program.
- b. In this context, apart from USA, and Europe; Universities of SAARC nations will be identified to begin students' inflow from these countries to JUIT for trainings, internships and degree programs.
- c. Task force will prioritize the SAARC nations and information will be provided to them through IA portal and social media platforms. If required, designated members of the task force may also participate the educational fairs of these countries to popularize our programs.

Task 3: Increasing collaboration in holding international workshops, seminars, conferences

JUIT holds international conferences every year through involvement of its various departments and these are also attended by foreign delegates.

Under this task, the designated members will strive for:

- a. Exploring more international partners for holding these conferences all across the departments of JUIT.
- b. Joint international conferences with reputed universities of Nepal, Bhutan, Bangladesh, and other SAARC nations will also be initiated, so that JUIT strengths should be known within our neighbouring countries. The role of members may also be suggestive to appropriate faculty of any department of JUIT. They will plan such conferences, seminar, and workshops and execute the same as regular feature within every academic year.
- c. The task force will work towards inclusion of skill development courses especially for students of SAARC nations. The enrolled students from these countries (in short term or degree programs) will be provided with training in transversal skills (but not limited to) like English Language, Soft Skills, Interpersonal Communication, ICT Skills etc.
- d. The task force members may also initiate discussion with potential resource persons within JUIT or outside it for accomplishing this task.
- e. Curriculum enrichment with skill development programs (e.g. Quality Control, Plant Tissue Culture, Robotics, IOT, Soil testing) will be suggested to relevant departments/centres of JUIT.

Task 4: Advance workshops for training of teachers and students, Virtual Open Days The advance workshops and virtual/offline summer or winter schools will be a continuous activity of office of IA. The designated team will plan interdepartmental and interdisciplinary training programs for teachers, faculty, and students. They will identify the strong research and teaching areas of JUIT and concerned faculty to hold such events.

In order to maintain good outcomes from these workshops, all departments in our university can have a plan to organize some specific number of workshops per year in some specific domains.

Initially, these workshops can be organized by each department by having the faculty members primarily from Institutes of National Importance. Once these workshops are organized for three years in continuation and by evaluating the workshops a well-defined procedure/platform for organizing a workshop can be formulated for the entire university. This expertise will certainly help in advancing our university workshops at international level as well.

In these workshops participants can learn advanced skills in the diverse areas of engineering and science. These areas will be (but not limited to) IOT, AI, ML, Biomedical, Vaccines, Application of Drones, Research methodology and statistical techniques, Application of mathematics for engineering students, Evolutionary computation methods, Earthquake resistant buildings, bioenergy etc. These are not the exhaustive list but it can be decided from the departments by their strengths and capabilities.

The 2-3 days summer/winter schools will also be arranged for school/college/university students by involving concerned departments.

The team will arrange 1 to 2 virtual open days for overseas and also for students of other institutes with in India. The purpose will be to showcase JUIT strengths through an online interactive session where in the participants will know our infrastructure, teaching and research thrust, research laboratories, and research and teaching areas of selected faculty members.

Task 5: Writing joint collaborative internationally funded research projects, and Teaching involvement

JUIT has an Indo-Russia project in past and on similar lines the designated task force members will share the calls for joint collaborative internationally funded projects with the faculty members across JUIT.

- a. More MOUs will be signed with the overseas institutes of repute followed by writing joint grants. An international advisory committee will be proposed with members from our international partner institutes.
- b. The task force will explore the probability of eminent faculty working in overseas to be involved in JUIT to teach the selected courses (in part or full). This will provide good exposure to our students.
- c. A pool of eminent faculty members of overseas countries working in diverse areas will be developed and shared with JUIT faculty.

Task 6: IPR activities

12 patents are granted to JUIT. The adequate advertisement of granted patents will be done through IPR Cell of JUIT.

- a. IPR Cell will continue to arrange at least one event each semester for dissemination of knowledge about patent filing and innovation in research.

- b. Providing knowledge of international patent system will be one of the key feature of future interactions related to IPR.
- c. The faculty and students will be sensitized to protect their IPRs.
- d. The centre activities will be disseminated through IA portal as well.

Task 7: Work for establishing joint degree(s) with international universities

- a. Possibility of joint degree programs in CS/IT, CE, ECE and Biomedical Research will be explored with foreign universities. In the first phase; the discussion will be initiated with officials of University of Florida, University of Nebraska, and SDSMT (03 USA Universities) and with selected SAARC Nation Universities.
- b. Students' exchange and faculty visits are already in place for SDSMT and University of Nebraska, so we would like to take it further to joint degree programs under 2+2 or 3+1 model depending upon suitability of JUIT and partner universities.
- c. The task force members will be interacting with various departments of JUIT to seek their views and priorities on Joint degree programs.
- d. The credit transfer and modus operandi of joint degree programs will be as per JUIT policy subject to approval of management.

Task 8: Roping in alumni of JUIT

The purpose of rope in alumni is to strengthen our international collaboration.

- a. A list will be prepared of distinguished alumni of JUIT who are working overseas or placed in international sectors linked to industry/academia.
- b. Alumni will be connected through online/offline lecture series emphasising on their expertise and deliberations on areas like, Next Generation Sequencing (NGS) AI, IOT, Leadership and emotional management, andon developing skill setssin advance engineering and biological sciences fields.
- c. Alumni working as faculty in reputed institutes/companies in foreign nations will be seen as potential partners in research, and students' exchange activities.
- d. An alumni webinar series will be planned in each semester. Alumni of all departments will be approached to participate in this activity.

Task 9: Establishing tie-ups with SAARC nation's Universities of repute and ranking

The tie up with SAARC nations will be on priority list of the task force.

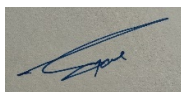
- a. The database of schools, colleges and universities of SAARC nations will be prepared. Their strengths and overlapping interests will be explored. The reputed institutes in SAARC nations will be approached through IA office for probable tie-ups. The collaborations in various academic areas will be explored including joint teaching in a course, writing joint research projects, sharing research infrastructure, enrolling students for degree/internship programs.
- b. The supernumerary seats (10-15%) and scholarship provision for SAARC nation students are proposed, however this will be subject of discussion and approval of management.

- c. In this endeavour, possibility of establishing international chairs on the name of eminent scientists of the region will be explored. This will help us to focus on prominent and leading areas of research.
- d. Skill oriented courses from various departments will be offered to students of these nations. The courses will be prioritize as per their needsthrough intervention of various departments and centres. This may include courses on (but not limited to) communication and soft skills, ICT skills, Biomedical and quality control, Biofuel production at home, skills in life sciences industry, civil infrastructure etc.

In nut shell

- a. Proactive approach for international tie-ups will be followedwith significant focus on research collaborations, faculty and student exchange, academic content development, and employability.
- b. Through internationalization strategy and JUs strengths; our aim is to put JUs education on the global map in research, innovation and teaching.
- c. SAARC Nations will be on priority for international Tie-up and inbound students' mobility.

Our motto is JUIT internationalization through guidelines and road map described in this policy.



(Prof.Sudhir Kumar)

