University-Industry Collaboration Committee

The University-Industry Collaboration Committee (UICC) is established to smoothen the process of collaborative R&D with Industry in the form of joint research projects, student internships, faculty consulting, joint development of products or services, etc.

Objectives

- Explore and identify shared avenues of interaction with industry, aiming to foster meaningful collaboration and establish mutually beneficial partnerships.
- To promote various research activities by the faculty members and students.
- To establish convergence with industrial and research organizations from various fields through MOUs as a form of interaction.
- To Establish Centre of Excellence by Industry/ Corporate to Provide Real Time exposure on Technologies.

Functions/Responsibilities of the Committee

- Developing policies and guidelines for university-industry collaborations.
- Identifying potential industry partners, establishing relationships, and creating mutually beneficial collaborations.
- Identifying potential areas that are of interest to the industry and working with universities to conduct research in those areas.
- Establish and strengthen Memoranda of Understanding (MoUs) between the University and industries, forging strategic partnerships to promote collaborative initiatives and mutual growth.

- Enable faculty members and students to acquire practical insights, develop a comprehensive understanding of industrial culture, and grasp the expectations of academia in professional settings through valuable industry experience.
- Facilitate faculty visits to industries for study, discussions, and the delivery of lectures on subjects of mutual interest, fostering valuable knowledge exchange and collaboration.
- Invite visiting faculty and professors from industries to enrich the academic environment, offering students and faculty members valuable insights and expertise from real-world professionals.
- Training industry people through various short-term courses, workshops, FDPs etc.
- Industrial training and professional training of faculty members and students of the university.
- Identifying opportunities for funding and support for university-industry collaborations
- Reviewing proposals submitted by various stockholders of the university for industry collaborations and making recommendations to the competent authority.
- The committee works towards enhancing career opportunities for students by developing partnerships with industries. This involves creating opportunities for students to gain work experience and providing access to job opportunities in the industry.
- Enabling Joint Ph.D. supervision, allowing industry professionals to serve as co-supervisors alongside academic experts, fostering interdisciplinary collaboration and bridging the gap between academia and industry.
- Offering Industry sponsored Ph.D. program to the students
- Developing strategies to maximize the impact of university-industry collaborations.

- TO ACHIEVE ABOVE OBJECTIVES, THE UNIVERSITY SHALL ORGANISE WORKSHOP/EXHIBITIONS TO SHOWCASE TECHNOLOGIES DEVELOPED IN THE UNIVERSITY AND INVITE AS MANY INDUSTRIES AS POSSIBLE. ATLEAST TWO EVENTS PER YEAR SHALL BE ORGANISED.

Steps Involved in University Industry Collaborations

- The University faculty desirous to establishing any form of collaboration with the industry has to first submit a proposal to the committee duly forwarded by the HOD.
- The proposal must discuss in detail the purpose of collaboration and the partnership's objective and include a list of potential partners, and any pre-existing relationships that may be relevant to the partnership.
- The committee will make contact with the prospective partners for the collaborations for the expression of interest.
- Non-disclosure agreement may be signed with the private party prior to discussions and negotiations.
- The committee then objectively assess the strategic interests of the potential partners and analyse the capabilities of potential partners.
- The committee may invite experts from academia and industry for the evaluation and assessment.
- Finalising the nature of the partnership including common goals/objectives, organizational structure of the partnership, the milestones, measures/indicators for success, and/or final deliverables.
- Preparation and signing of the collaboration agreement and/or intellectual property agreement.

Terms & Conditions for Industry Sponsored Ph.D. Program

- Industry sponsored Ph.D. students should be NET qualified and can be considered for direct interview for the Ph.D. admission.
- Collaborative Industry should ensure financial assistance / fellowship for the entire period of Ph.D. along with contingency grant (1 lakh/annum) to the lab of the supervisor. The research outcome will be jointly owned by the University and Collaborating Industry.

Salient features of the terms and conditions for the collaborative R&D projects to be built up in the Memorandum of Agreement for collaborative R&D

IPR Issues

- Non-disclosure agreement may be signed with the private party prior to discussions and negotiations.
- The responsibilities and deliverables expected from all the participating agencies should be clearly mentioned in the MoA for collaborative work.
- Background Knowledge: The background knowledge is the know-how already developed by the university which is to be either further developed or validated by the company on implementation of the collaborative project. The background knowledge document/s is to be clearly mentioned in the MoA and appended as an annexure.
- The exit and arbitration clauses for all the participating agencies should be well formulated in the MoA so as to avoid future legal disputes in case of premature project closure.
- The IP rights for the IP generated out of the collaborative project shall be jointly shared among the participating agencies.
- The intellectual property, product, prototype, or process generated out of such projects shall be co-owned among the participants on mutually decided terms.
- Costs of IP protection and its maintenance to be equally shared among the participating agencies.

Elements of costing of collaborative R&D project with Industry participation

The main components here would be:

1. **Direct expenses** that comprise manpower costs, cost of consumables & chemicals, infrastructural services, equipment usage cost and contingencies.
2. **Intellectual fee can** range from 30 to 50 % of total expenses. This cost reflects the intellectual capability developed by the project implementing scientists/technologists.

Details:

(1) **Man-day costs:** These constitute charges based on the actual time spent on the project (man-days) for the S&T manpower deployed for the project. There would be different costs for different levels of manpower for example Faculty, Research associate, Research/project assistants/ Senior Research fellow, Junior Research Fellows etc. based on actual time spent on the activity

S. No.	Category of Staff	Manpower rates, Rs.	
		Per day	Per year
1.	Professor	7000	14 Lakh
2.	Associate Professor	5000	10 Lakh
3.	Assistant Professor	4000	8 Lakh
4.	Technician	2500	5 Lakh
5.	Research Associate/ Research Assistant/JRF/SRF	Actual salary with 40% overheads	

(2) **Costs of Chemicals and Consumables**: 100% cost plus 20% overheads

(3) **Equipment usage costs**: these reflect yearly usage charge and can be 20% of the cost of equipment (in case of old equipment, depreciation at the rate of 20% per annum may be taken).

(4) **Contingencies:** Any unforeseen expenditure required for implementing the project (travel, stationary, other research expenses such as photography work, sundry small purchases etc.).

(5) **Intellectual fee:** Intellectual fee comprises efforts and expenses incurred over a period of time for capacity and expertise build up.