## Supporting Documents

3.1.1

The Institution Research facilities are frequently updated and there is well defined policy for promotion of research which is uploaded on the institutional website and implemented

| Sl. No.	Documents Attached
1.	Links of Research Policy & Research Facilities
2.	Research Policy
3.	MOM of Governing Council
4	Establishment of Research Development Cell
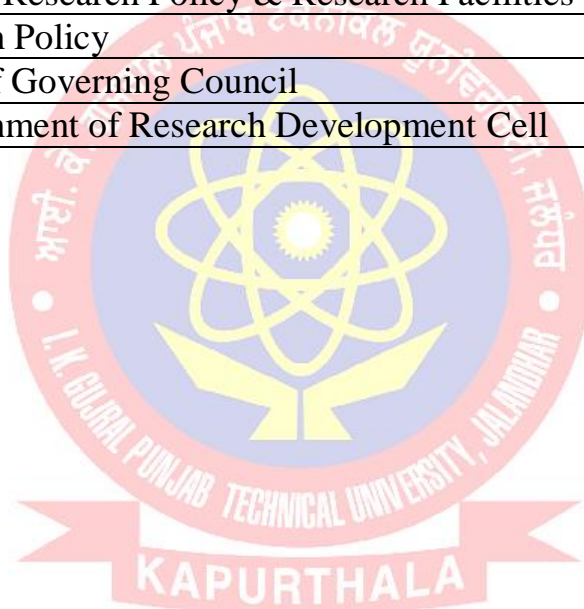
Links of Research Facilities

Sl. No.	Item	Link
1.	Research Policy	Research-policy-R_D.pdf (ptu.ac.in)
2	Research Facilities	Research facilities – I.K. Gujral Punjab Technical University Jalandhar – Punjab (ptu.ac.in)
3.	MOM –Governing Council	MoM-of-Governing-Council-R_D.pdf (ptu.ac.in)
3.	CIIT Main Campus, Kapurthala	Center For Invention, Innovation, Incubation And Training – Kapurthala – I.K. Gujral Punjab Technical University Jalandhar – Punjab (ptu.ac.in)
4	CIIT Sultanpur Lodhi	Center For Invention, Innovation, Incubation And Training – Sultanpur Lodhi – I.K. Gujral Punjab Technical University Jalandhar – Punjab (ptu.ac.in)

3.1.1 Research Facility: Policy for Research Promotion
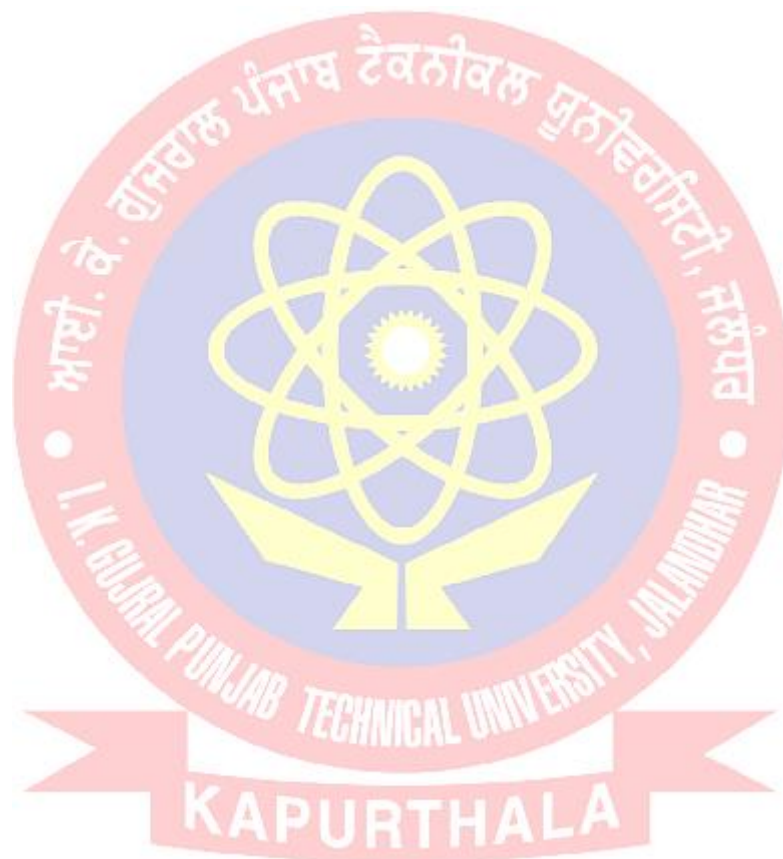
I.K. GUJRAL
PUNJAB TECHNICAL UNIVERSITY

Jalandhar-Kapurthala Highway, Kapurthala

Research Policy

INDEX

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I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY
Department of Research & Development

RESEARCH POLICY

1. **Introduction**

   Research is fundamental to the growth of our teaching and learning. The university is committed to the advancement of the knowledge for the economic growth and emancipation of the humanity. We endeavour to address the challenges we face in society as a nation and globally. The act of IKGPTU mandates it to conduct research at the University for the advancement of the institute through transmission of knowledge and conduct a scholarly inquiry.

2. **Purpose:**

   The purpose of the research policy is to develop an ecosystem of research within which faculty and scholars carry out their research for the advancement of their knowledge. It also envisages the comprehensive framework for the development and implementation of all research programs at IKGPTU.

3. **Scope:**

   The IKGPTU Research Policy will be applicable to all the faculties/scholars involved in research/ sponsored projects/ consultancy projects including Ph. D scholars registered with PTU working in main campus, its constituent colleges, its affiliated colleges and scholar registered under an MoU.

   The research activities at IKGPTU will include the research work of direct relevance to IKGPTU, society, start of Projects of government (State and Central), industry and commerce. The research will be carried out in national and international collaboration also under ambit of the Government Rules.

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4. **Objectives**

- The institutional growth through research.

- To instill the research culture to improve the institutional environment for all i.e. faculty, scholars, and students.

- Research activities for improving physical facilities of the institute, including laboratories and equipment.

- To establish research centers with center of excellence.

- To disseminate the outcome of the research work through publication of papers in the indexed journals with impact factor.

- To earn patents from research output.

- To attract funds from Government as well as from private organizations.

- To attract good faculties and students.

- To update syllabi through the experience of research.

- To have local, national and global collaborations.

- To develop a problem-solving culture using S&T.

- To create human capital by running Ph.D. program on its campus and different centers.

- To commercialize research outputs including but not limited to process, design, and products.

5. **Rights and responsibilities in the conduct of research:**

The research carried out on the campus covers basic research, applied research, design development, product development, problems relevant to the need of industry through projects supported by industry or the Government or society, and endowment funds.

The policy emphasizes that each faculty/scholar has the freedom to carry out independent research, scholarship and/or creative activities related to their discipline/interdisciplinary/in any new emerging field. They may engage themselves in interdisciplinary and interdepartmental research activities and research sharing. The faculty may participate in collaborative research with national

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organization, international organization, and private industries. They will have the freedom to seek support from any source under the ambit of the law of the land for their work.

Faculty will have right to disseminate the results and findings of his/her research without suppression or modification from external sponsors unless it is stated in the agreement or stated regarding conditions of a project which prevents from dissemination. The finding and conclusions should be available for analysis, assessment, and scrutiny as required by the university.

The regular faculty has right to engage in external consulting activities as per guidelines laid in the consultancy rules.

The faculty can enroll the students under the Ph.D. program for research as per guidelines of Ph.D. of IKGPTU.

The faculty can hire JRF/SRF in the sponsored project as per guidelines of the project.

Faculties are expected to play a role of mentor to the research scholar and the staffs who are associated with them in the research group.

Faculty members will adhere to the rules of the university while dealing with staff and students working as part of the research team.

The policy does not prevent a HOD in assigning the faculties regular academic work and other responsibilities as per UGC/AICTE or the University rules.

6. Research techniques to be used:

Research techniques to be used should be in the conformity of professional ethics about the health, safety, privacy, and other personal rights of human beings or the infliction of injury or pain on animals.

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7. **Statutory requirements**

   (a) Academic staff and students are required to carry out their Research in compliance with all the University's obligations under legislation and any ethical and contractual obligations.

   (b) Research projects that involve human or animal subjects, including those undertaken as part of a teaching program must have prior approval of the competent authority.

   (c) All Academic staff, students, and visitors of the University are required to make themselves aware and follow the University Health and Safety Policy.

8. **Research Management**

   The implementation and updation of the Research Policy will be done by the Department of Research & Development. The University Research Board is the advisory body chaired by the Vice-Chancellor to finalize rules and regulations of the research policy.

   The research scholar pursuing Ph.D. in the university will be governed by the Ph.D. guidelines. Even if a scholar is sponsored by an external agency then also the scholar must adhere to the Ph. D guidelines of IKGPTU.

   The faculty can hire JRF/SRF in the sponsored project as per guidelines of the project. The hiring of the fellow will be done with approval of the competent authority of the University.

9. **Resources in Support of Research**

   1. The university will provide Research Fellowship to each department every year for the students registered for Ph.D. on the IKGPTU Kapurthala Campus i.e. the fellowship will be available to the research scholars registered with IKGPTU Main Campus only. They will be governed by university Research Fellowship rules (as per University's Research

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Fellowship policy). Additionally, university may also enrol research scholars without fellowship as per available slots.

2. The university will allow the CSIR/UGC/DBT or other fellow to register for Ph. D.

3. The university will provide seed money as per UGC norms.

4. In order to file patent of the research output, financial support will be provided as per patent policy of the university.

10. Research Planning

The department and faculty are free to develop and implement its research plan in coherence of the University Research Strategy and the University Strategic Plan.

11. Retention and Access to Research Data

The PI and university will have rights and responsibilities regarding access to, use of, and maintenance of original research data. The tangible research property, including the scientific data and other records of research conducted under the auspices of IKGPTU, belongs to IKGPTU. The PI and guide are responsible for the maintenance and retention of research data.

The above-said policy applies to the university faculty, staff, students and other persons of the university involved in the design, conduct or reporting of the research at or under the auspices of the university. It shall apply to all the research projects on which those individual's work, regardless of the source of funding for the project.

If a contract or project is sponsored that includes specific provision(s) regarding ownership, retention and access to technical data, the provisions(s) of that agreement will supersede this policy.

12. Evaluation and Monitoring of Performance

The intellectual and tangible property rights and responsibilities will be reviewed by the faculty member with all his group members,

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including staff, students, and post-doctoral fellows and visiting scholars. The report will be submitted to the office of the Dean R&D.

The university research performance will be evaluated by the office of the Dean R&D annually.

The Dean R&D will monitor performance of Research Centres operating on the campus or under ambit of IKGPTU at any location.

The R&D may publish an annual report of research performance in terms of publications, patents, technology transfer, commercialization of research, consultancy work, and the sponsored projects.

13 Recruitment and Staff Development

The recruitment of the staffs would be done in a sponsored project as per conditions laid down by the sponsoring agency. If the sponsoring agency does not specify the qualifications, the rules of IKGPTU will be applicable.

14. Postgraduate Research (PGR) Student

(a) The Dean (R&D), Deans of other faculties and Heads of departments will be responsible to ensure that the management of PGR degree complies with the university statutes, policy and procedures.

(b) The registrar is responsible for ensuring that faculties and departments/schools make appropriate budgetary provision for the support of postgraduate student Research.

(c) Workload of the departments will be distributed to the faculties as per rules before approval of the enrollment of the PGR students.

15 Financial Support to attend National and Oversea's academic interaction by research scholars:

As per IKGPTU rules.

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16 **Contingency:**

Contingency grant to the research scholars will be provided as per IKGPTU rules.

17. **Publication and Intellectual Property**

(a) The University expects all Research outputs will be publicly available unless it is restricted by the sponsoring agency or the Institute.

(b) The university may withhold research output for any good reasons.

(c) Faculty, scholars, Staff and PGR students are required to comply with the University's Intellectual Property Policy.

18 **Technology Transfer:**

The Principal Investigator (PI) and the team should seek approval from the university for transfer and/or commercialization of research output. The revenue, thus earned, may be distributed as per IKGPTU rules.

19. **Research Centers (RC)**

The policy emphasises to create different research centres in the campus to carry out research in thrust area or for excellence in research including area of applied research.

(a) Research centers will help in promoting University's Research's reputation. The centers should also serve as medium for engaging other research institutions and industries including collaborative research. Interdisciplinary and multidisciplinary research should be encouraged to attract external funding.

(b) RC will help in the involvement of nationally and internationally recognized researchers.

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(c)   If any Research Center is to be created, it should be approved by the BOG.

20   Legislative Compliance

The University is required to manage its policy documentation within a legislative framework.
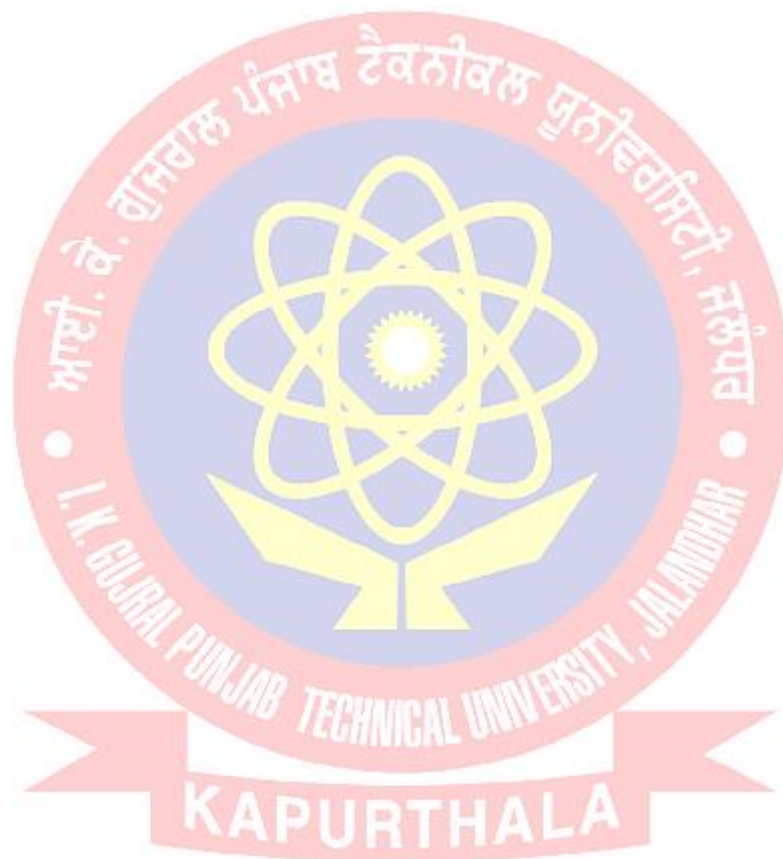
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Jalandhar

3.1.1

Research Facility: Minutes of Research Policy Approval

I.K. Gujral Punjab Technical University
(Registrar Office)
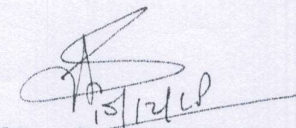
IKGPTU/REG/OO/4744   Dated: 10.12.2018

Office Order

Sub: **Constitution of committee to prepare Research Policy of IKGPTU.**

As per approval of Vice Chancellor, following committee is constituted to prepare Research Policy of I.K. Gujral Punjab Technical University.

1. Dr. Anirudh P. Singh, Dean (R&D)   - Chairman
2. Dr. Y.S. Brar, Director (Main Campus)
3. Dr. S.K. Sinha, Professor, NIT, Jalandhar

(Dr. S. S. Walia)
Registrar
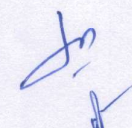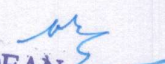
Endst. No. IKGPTU/REG/OO/4745-4748   **Dated:** 10**.12.2018**

A copy of the above is forwarded to the following for information and necessary action please.

1. I/C Secretariat, o/o Vice Chancellor: For information of Vice Chancellor
2. Dr. Anirudh P. Singh, Dean (R&D)
3. Dr. Y.S. Brar, Director (Main Campus)
4. Dr. S.K. Sinha, Professor, NIT, Jalandhar

(Dr. S. S. Walia)
Registrar

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Jalandhar

Minutes of meeting

A committee to prepare Research Policy of IKGPTU was constituted vide Registrar's office order no. IKGPTU/OO/4735-4743 dated 10-12-2018 comprising following members:

1. Dr. Anirudh P. Singh, Dean (R&D)
2. Dr. Y. S. Brar, Director, Main Campus, IKGPTU
3. Dr. S. K. Sinha, Professor, Dr. BRA NIT, Jalandhar

Committee held its first meeting on 13-12-2018 and consequently 2nd meeting on 03-01-2019, 3rd on 17-01-2019 in the office of Dean (R&D), IKGPTU.
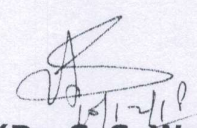
4th & final meeting of above committee was held on 28-01-2019 at 3.00 p.m. in the office of Dean (R&D).

Committee members went through the draft of the policy as prepared in the last meetings and finalized it. Final Research Policy of IKGPTU consists 8 pages and 20 clauses.

Dr. Anirudh P. Singh
Dean (R&D)

Dr. Y. S. Brar
Director, Main Campus,
IKGPTU

Dr. S. K. Sinha
Professor, Dr. BRA NIT,
Jalandhar

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R&D Deptt.
IKG Punjab Technical Univ.
Jalandhar

I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY JALANDHAR, KAPURTHALA

આઈ. કે. ગુજરાલ પંજાબ ટૈકનૉકલ યુનીવર્સિટી જલંધર, કપૂરથલા

રજિસ્ટરાર દફ્તર
OFFICE OF REGISTRAR

Ref. No. IKGPTU/REG/ACAD/4654   Dated 30/09/2020

All Members, Academic Council of
I.K. Gujral Punjab Technical University
Jalandhar, Kapurthala

Sub: Proceedings of 53rd meeting of Academic Council.

Sir /Madam,

Please find attached proceedings of 53rd meeting (special meeting) of Academic Council held on 14.09.2020 at 02:00 PM online- through zoom app.

This is for your kind information, record and further necessary action.

Yours sincerely

Registrar

Cc:

1. I/C Secretariat Vice Chanellor: For kind information of the Vice-Chancellor
2. Dean (Academics)
3. Director (Main Campus)
4. All HODs (Non-Teaching)
5. Incharge (ITS): For uploading on website
5. All concerned

"Propelling Punjab to a prosperous Knowledge Society"

I.K. Gujral Punjab Technical University

Jalandhar Kapurthala Highway, Kapurthala-144603. **Ph.** : 01822-282521, 282525
Fax : 01822-282526, 282506 **Website** : www.ptu.ac.in **Email** : registrar@ptu.ac.in

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PROCEEDINGS OF 53rd MEETING (SPECIAL MEETING) OF ACADEMIC COUNCIL HELD ON 14.09.2020 AT 02:00 PM ONLINE THROUGH ZOOM APP.

Due to COVID-19, the 53rd meeting (special meeting) of the Academic Council was conducted through online mode using Zoom App.

Hon'ble Vice-Chancellor-cum-Chairman Academic Council, Prof. (Dr.) Ajay Kumar Sharma, welcomed all members.

Prof. (Dr.) Vikas Chawla, Dean (Academics) also welcomed the Chairman, Academic Council and members of the Academic Council on the 53rd meeting of the Academic Council.

Thereafter the regular agenda was briefed by the Dean (Academics) and the same was discussed in detail and the proceedings are as under:

A. STATUTORY AGENDA

53.01 **To confirm the proceedings of the 52nd Academic Council meeting held on 16th January, 2020.**
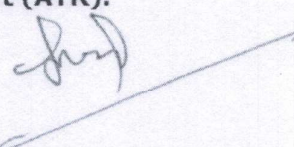
The 52nd Academic Council meeting was held on 16th January, 2020 and the proceedings were circulated to all members for information and comments. No comments have been received.

The Council confirmed the proceedings of the 52nd Academic Council meeting.

53.02 **Action Taken Report (ATR) of the 52nd Academic Council Meeting held on 16th January, 2020.**

Dean (Academics) briefed about the Action Taken Report (ATR) on the decisions taken in the 52nd meeting of the Academic.

After going through the details, the council approved the Action Taken Report (ATR).

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B. AGENDA FOR RATIFICATION

53.03 **To ratify the decisions taken by the Chairman, Academic Council in anticipation of the approval of the Academic Council.**

53.03.1 **To ratify the results of students in Intermediate semesters**

Controller of Examinations informed that due to the Covid-19 pandemic, all educational institutions are closed since march-2020. As per UGC guidelines & directions issued by Govt. of Punjab vide memo No 10/20/2020-4TE2/1047 dated 18.08.2020, the results of the students studying in intermediate semesters were declared on the basis of internal assessments (50% weightage) & performance of theory papers of the previous semester.

After detailed deliberation, it was decided that exercise for preparing result by including the marks of practical examinations may be done. After doing this exercise, if there is a major change in the result then the decision may be taken to revise the result, otherwise, the decision already taken be considered as ratified. Council authorized the Vice Chancellor to take final decision in this matter.

53.03.2 **To ratify the revised Academic Calendars for Session 2019-20 (Even Semester) and for Session 2020-21 (Odd Semester).**
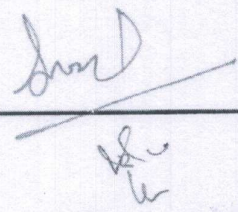
Dean (Academics) informed that the Academic calendar was changed due in view of COVID-19 and admission notification by the Punjab Government.

Academic Calendars for session 2019-20 (Even Semester) and for Session 2020-21 (Odd Semester) were ratified by the Council.

53.03.3 **To approve minutes of various Board of Studies for revision of syllabus / scheme of Programmes.**
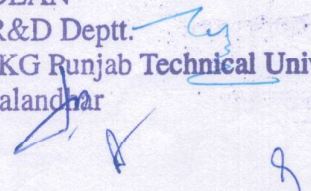
It was informed that keeping in view the demand of the industry and the latest trends in technical education, various Board of Studies of the University have revised the course curriculum /scheme of different programmes. Chairman, Academic council has already approved the same. The revised scheme and syllabus is available on University website https://www.ptu.ac.in/Syllabus/..aspx

The recommendations of various Board of Studies of the University regarding the revision of course curriculum /scheme of different programmes were discussed in detail and ratified.

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53.03.4 **To ratify the approval of the continuation of specialization in Human Resource only during the fourth semester for Col. Jagvinder Pal Singh Cheema, University Roll No. 1812063 of MBA course, 2018 batch.**

Dean (Academics) informed that the in view of the career of the student, Col. Jagvinder Pal Singh Cheema, University Roll No.1812063, of MBA programme, 2018 batch of KCLIMT, Jalandhar allowed to pursue MBA (Human Resource) with Major Specialization only in the fourth semester with the condition that the student will study all core subjects of 4th semester of MBA, 2018 batch with four elective subjects of MBA (Human Resource) within the stipulated period.

The council discussed and ratified the item.

53.03.5 **Start of new M.Tech Programs from session 2020-21 onwards.**

Dean (Academic) informed the council that on the recommendations of the Board of Studies of Computer Science following M. Tech. programmes were started the w.e.f. session 2020-2021 onwards. The eligibility criteria and duration of the course is also mentioned against each :

Sl. No.	Nomenclature of the course	Eligibility Programme	Duration of the Programme
1	M. Tech CSE (Artificial Intelligence)	B.E. / B. Tech. (CSE/ IT/ Software Engg./ Computer Engg./ Software Systems/ Information Security/ Cyber Security/ Computational Engg./ Machine learning) with atleast 50% (45% in case of candidate belonging to reserved category).	04 Semester / 02 Years
2	M. Tech CSE (Cyber Security)	B.E. / B. Tech. (CSE/ IT /Software Engg./ Computer Engg.l Software Systems/ Information Security/ Cyber Security/ Computational Engg./ Machine learning) with atleast 50%(45% in case of candidate belonging to reserved category).	04 Semester / 02 Years

The item was ratified by the council with the modification (nomenclature changed from M. Tech (Artificial Intelligence) to M. Tech CSE (Artificial Intelligence) incorporated above.

M. Tech CSE (Artificial Intelligence) course started in view of approval given by AICTE to CDAC, Mohali vide No. F.No. North-West/1-7012982936/EOA dt. 09-Jun-2020.

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53.03.6 **Regarding shifting to Industrial Training for Hotel Management & Catering Technology, UG & PG programs for session 2020-2021 only, due to COVID-19 Pandemic.**

It was informed that due to the COVID-19 Pandemic, the Board of Studies for Hotel Management Tourism and Travel Management have change the training of the following courses as per the details given below for session 2020-2021 only:

Sl. No.	Name of the Course	Semester in training is scheduled as per syllabus	Semester in training is shifted due to COVID-19	Remarks
1.	Bachelor of Hotel Management (UGC)	3rd Semester	4th semester	The subjects to be taught in the 4th semester will be taught in the 3rd semester
2.	Bachelor of Hotel Management (UGC)	5th Semester	6th semester	The subjects to be taught in the 6th semester will be taught in the 5th semester
3.	Master in Hotel Management and Catering Technology	3rd Semester	4th semester	The subjects to be taught in the 4th semester will be taught in the 3rd semester

It was also discussed that individual BOS may decide the shifting of training in view of the COVID-19 situation and the same may be put up before the next Academic Council for ratification

Item was noted and ratified.

53.03.7 **Swapping of B, Architecture Practical Training (7th Semester) of one semester with the 8th semester.**

The council ratified the following decision of the BOS (Architecture)

'The one semester B. Arch Practical Training (BACH-701/AR-701) of the session July-Dec 2020 will be swap with the 8th semester of session Jan-May 2021 for 2017 batch for IKGPTU affiliated colleges of B. Architecture.

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53.03.8 Uniformity among study schemes of various Engineering Departments

It was informed that a committee was constituted to bring uniformity among study schemes of B.Tech Programmes. It is pertinent to mention that the recommendations given by the committee members involving Deputy Dean (Engineering faculty) and various Chairpersons and Coordinators of BOS (University and Constituent Campuses).

Recommendations of the committee regarding uniformity of semester training and summer vacations training of all streams of B. Tech programs, as approved by the Vice-Chancellor-cum-Chairman, Academics Council were ratified by the Council.

Item was ratified.

53.03.9 To approve eligibility criteria, duration, and fee structure

The 52nd Academic Council vide Agenda No. 52.10, change the nomenclature of some of the courses and new courses were started w.e.f. session 2020-2021 onwards eligibility criteria, duration, and fee structure these courses, as recommended by concerned BOS, is as under:

A). Bachelor Program

Sr. No.	Nomenclature of Programs	Eligibility of Program	Duration (in Years)	Fee Structure
1	B.Sc. (Honors) Microbiology	10+2 with Biology/ Biotechnology at least 50% Marks (45% in case reserved category)	03	As per other B.Sc programs.
2	B.Sc. (Artificial Intelligence & Machine Learning)	10+2 Non-Medical with at least 50% Marks (45% in case reserved category)	03	As per other B.Sc programs.

B). Post Graduate Diploma Program

Sr. No.	Nomenclature of Programs	Eligibility of Program	Duration (in Years)	Fee Structure
3	PG Diploma in Digital Marketing	Graduation in any stream	01	As per PGDCA
4	PG Diploma in Mobile Technology	Graduation with one subject of Computer Science/ Computer Applications	01	As per PGDCA
5	PG Diploma in Cyber Security & Digital Forensic	Graduation with one subject of Computer Science/ Computer Applications	01	As per PGDCA
6	PG Diploma in Fashion Design and Clothing Technology	Graduation in any stream	01	As per PGDCA

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C). B. Voc. Program

Sr. No.	Nomenclature of Programs	Eligibility of Program	Duration (in Years)	Fee Structure
7	B. Voc. (Building Construction and Technology)	10+2 in any stream	03	As per others B.Voc. programs
8	B. Voc. (Solar System Technology)	10+2 in any stream	03	As per others B.Voc. programs
9	B. Voc. (Data and Web Analytics)	10+2 with one subject of Mathematics / Statics	03	As per others B.Voc. programs
10	B. Voc. (Fashion Design and Garment Technology)	10+2 in any stream	03	As per others B.Voc. programs

Council noted and ratified the decision.

C. AGENDA FOR DISCUSSION & REVIEW

53.04 **Conduct of final semester examination & backlog examination in blended mode (online + offline).**

Controller of Examinations informed that as per UGC guidelines, it is mandatory to conduct the terminal semester of Final year students having backlog should compulsorily be evaluated by conducting the examination in Offline (Pen & Paper)/Online/Blended (Online + Offline) mode as per feasibility and suitability. Due to the Covid-19, it is not possible to conduct the examination in the Examination Centres.

A committee of the following was constituted to finalize the mode & modalities for Conduct of final Semester & Backlog Examination:

1. Dean (Academics)
2. Controller of Examinations.
3. Director Campus
4. Deputy Controller of Examination (Conduct)

Recommendations of the committee were put up before the committee.
A detailed deliberation was held on the matter whether the examinations are to be conducted through blended mode (online+offline) or online mode or offline mode.

Some of the members informed that the government schools are also conducted test through online blended mode.

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It was suggested by the Hon'ble Vice-Chancellor that the University may also conduct open book examination as this is being done by many prestigious institutes.

After detailed deliberation, it was unanimously, decided that the University should conduct Open Book Examination for the final year and passout students (regular / re-appear exam) and the pattern of the question papers shall be *"Attempt any five questions out of eight and all questions carry equal marks".*

No need of honorarium in the Open Book Examination(OBE) mode.

It was also decided that

1. **All the concerned students will be informed regarding the Open Book Examination (OBE) mode by the CoE, IKGPTU.**

2. **The candidate will be required to attempt any five questions out of eight and each question carry equal marks. This paper in Open Book Examination (OBE) mode shall be subjective type and carry 50 per cent weightage (for example if any paper carries 60 marks weightage in conventional mode then in Open Book Examination (OBE) mode it will be of 30 marks only) and remaining 50 percent assessment will be on the basis of internal awards of concerned subject. Each paper will be of two hour's duration.**

3. **Backlog examinations of all the students, other than final year/ passout, shall be conducted when the normalcy is restored and the State Government permits for re-opening of colleges / University campuses. In this regard, the decision shall be taken by the Vice-Chancellor.**

53.05   Draft Research Policy of University.

The draft Research Policy was discussed. It was informed that the University policy is different from the UGC and it has been framed for the growth of the institute through research, to attract funds from Governments as well as private organizations and to attract good faculty & students.

It was also informed that in addition to GATE/JRF, the candidates have to pass the test to be conducted by the IKGPTU.

The council approved the policy to be implemented from the next academic year.

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Jalandhar

53.06 Conduct of Special/Golden Chance Examination

Controller of Examination informed that as per regulations of University, a student can complete his/her course in double the time period to that of the normal term of course. In the last one year, University received number of applications of such students, who couldn't complete their course in the permissible time period and requested for Golden Chance.

Academic council was requested to consider these cases and allow to conduct the Golden Chance examination. This examination shall be conducted with next semester examination, after restoration of normality and centre shall be established in main campus of University.

Special/Golden chance was allowed by the Council to be given with the next examinations, with the condition that the legal aspect of the same may be taken into consideration before giving the special/ golden chances. In this regard, the decision shall be taken by the Vice-Chancellor after legal opinion.

53.07 Conduct of Improvement Examination in blended mode (online + offline)

Controller of examinations informed that as per UGC guidelines, University has declared the results of students studied intermediate semesters and also gave provision to the students that if any student(s) is not satisfied with the marks, he/she may appear in a special examination which shall be held in a conducive environment. Now since University is conducting examinations of final semester students and that too under supervision by establishing virtual examination centres. Hence it is proposed that any intermediate student not satisfied with the result of the June'20 session, may also be allowed to appear in improvement examination without paying any fee. This examination shall also be conducted in the blended mode as per the agenda item of the final semester examination proposed in this academic council meeting.

It was decided that result of the students must be reviewed in view of the decision taken at item no. 53.03.1, thereafter **examinations shall be conducted when the normalcy is restored and the State Government permits for re-opening of colleges / University campuses. In this regard, the decision shall be taken by the Vice-Chancellor.**

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53.06   Any other item with the permission of the Chair.

Thereafter the supplementary agenda was taken up

S-53.01   Permission to change the branch of existing students against vacant seats of Lateral Entry.

It was informed that as per AICTE, 10% additional seats are allotted in the 2nd year of B. Tech. programme for admission of Diploma students. In the case, these seats are not filled through Diploma students then these seats remain vacant.   There are many existing students which are not allowed change of branch due to non-availability of vacant seats at the time of upgradation / branch change.

Request has been received from the colleges for allowing the students to upgrade /change of branch against the Lateral Entry vacant seas after the last date of admission for the advantage of existing students on the basis of 1st and 2nd semester result merit.

It was decided that since the 10% additional seats are for lateral entry admission of Diploma holders to the 2nd year of B. Tech. programme, therefore before allowing the upgradation /change of branch against these seats, a clarification may be taken from AICTE whether these seats can be offered to the students who want to upgrade/change their branch in 2nd year.

S-53.02   Filling the Application of recognition for ODL Programmes to UGC-DEB

Director (ODL) informed that the University Grants Commission (UGC) has released the new regulations in supersession of previous regulations vide notification F.1-1/2020 (DEB-I) dated 04-09-2020 regarding University Grants Commission (Open and Distance Learning Programmes and Online Programmes) Regulations, 2020 **(Annexure-S-I).** The new regulations shall be complied to submit the application to UGC for recognition of ODL programmes of academic session 2020-21 and onwards.

Department of Open & Distance Learning (ODL), IKGPTU is applying of MBA, BBA, M.COM, B.COM, MSC-IT, BSC-IT, MCA, BCA, PGDCA, DCA, MA-JMC, BA-JMC courses.

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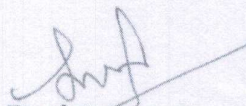
DEAN
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Jalandhar

To comply with the new regulations, the council approved the following proposal of ODL Department:

1. The syllabus and scheme of regular/conventional mode (2012-2015) shall be adopted in ODL.
2. Self-Learning Material (SLMs) & Programme Project Reports (PPRs) of above given Programmes as approved by the Chairman, Academic Council and subsequently, notified vide no. IKGPTU/REG/4152 and IKGPTU/REG/4149 dated 20-12-2018 shall be applicable.
3. The eligibility criteria, total credits and min. duration of the above Programmes will be at par with regular/conventional mode.

Vice-Chancellor was authorized to take decision regarding of SLMs as per the 2018 syllabus/scheme and adoption of the same on completion of same.
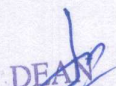
Meeting ended with a vote of thanks to the Chair.

Registrar-cum
Member- Secretary

10/10

DEAN
R&D Deptt.
IKG Punjab Technical Univ.
Jalandhar

I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY
(REGISTRAR OFFICE)

IKGPTU/REG/NF/R&D/1977   **Dated: 20/09/2023**

NOTIFICATION

Subject: **Establishment of Research Development Council**

In compliance with UGC guidelines, the Research Development Council and its Guidelines are hereby notified for strengthening the research ecosystem and creating research infrastructure in the University in accordance with NEP-2020. (Copy enclosed)

This is issued with the approval of competent authority vide e-office file No.I-15/2066/2022-R and D. (Computer No. 88787).

(Dr. S.K. Misra)
Registrar

Endst. No. IKGPTU/REG/NF/R&D/1978- 1981   Dated: 20/09/2023

A copy of the above is forwarded to the following for information and necessary action please.

1. Secretary to Vice Chancellor: For information of Hon'ble Vice Chancellor
2. All HODs (Teaching/Non-Teaching)
3. Directors constituent campuses of IKGPTU
4. Incharge (ITS): For uploading on University website.

(Dr. S.K. Misra)
Registrar
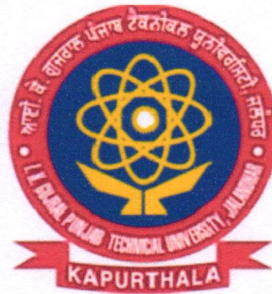
RESEARCH DEVELOPMENT CELL

I.K. Gujral Punjab Technical University

(State Government University Established by
Govt. of Punjab vide Punjab Act No. 1 of 1997)
Jalandhar Kapurthala Highway, Kapurthala, Punjab, India-
144603

CONTENTS

20/9/2023

Research Development Cell

1. About RDC

To address the current and future challenges of humankind require, continuous development in Scientific inventions, Economic Development, and Societal uplift are required. IK Gujral Punjab Technical University can contribute to this mission by creating a comprehensive governance structure to create an ecosystem for promoting research, innovation, and technology development. Research Development Cell (RDC) in IKGPTU shall act to integrate Research, Innovation, and Technology under the guidance of the Research Advisory Council (RAC) in accordance with the objectives of the new education policy (NEP-2020). The RDC shall work towards strengthening the research ecosystem as per the mandate of the Punjab Technical University Act.

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└───────────┘      │ • Thematic Unit                  │      │ • R&D Institutions │
                   │ • Research Clusters              │      └────────────────────┘
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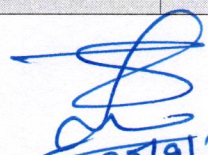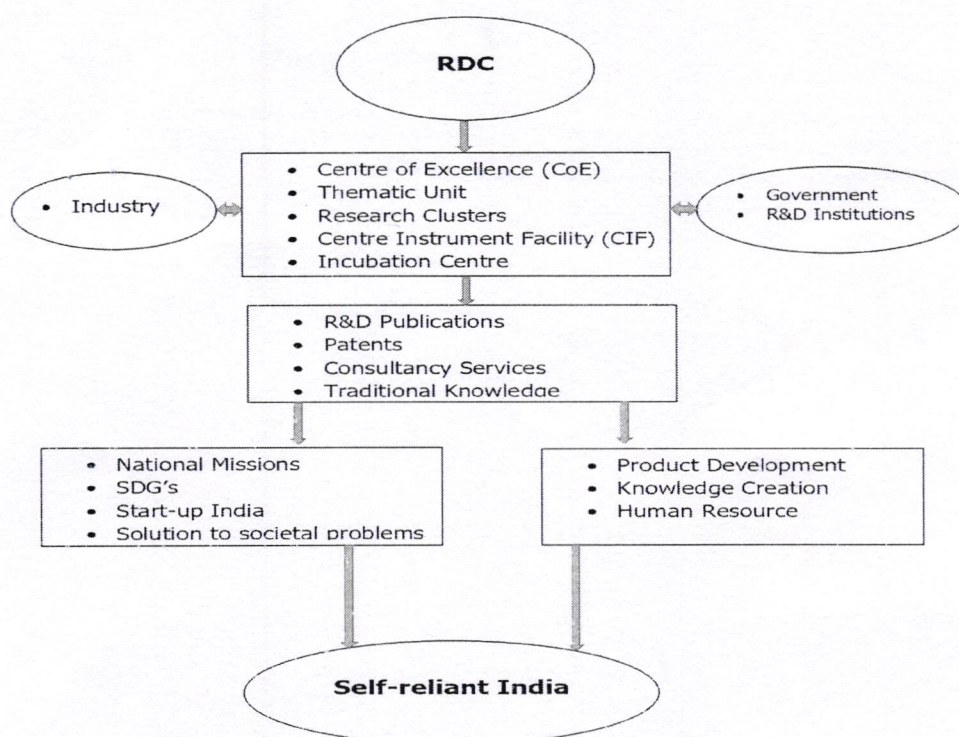
Figure 1: Research Ecosystem as envisaged in the Research Development Cell by the UGC and NEP-2020.

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2. About the University

I.K. Gujral Punjab Technical University (IKGPTU) was established by an Act of the State Legislature on 16th January, 1997, to promote Technical, Applied sciences, Management, and Pharmaceutical education in the state at degree level and above. It was established as Punjab Technical University and renamed as I.K. Gujral Punjab Technical University by the State Government in honour of the Late Sh. Inder Kumar Gujral, Former Prime Minister of India, in 2015. The University has the mandate to set up centres of excellence in emerging technologies and for promoting training, research, and development in these areas.

University started its academic campus in 2016 by establishing Teaching Departments in Engineering, Applied Sciences, Management, Hotel Management, and Journalism. University's main campus along with its constituent campuses. Through various quality initiatives, IKGPTU is NAAC accredited and has received many coveted recognitions such as IKGPTU was conferred e-INDIA 2010 Award of the Year as "ICT Enabled University of the Year" and "Open and Distance Learning Initiative of the Year Award" by the Ministry of Information and Communication Technology, Govt. of India and Best Technical University Award for the year 2013 by Indian Society for Technical Education (ISTE) and Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar.

For research initiatives, University was awarded the "Best University Promoting High-Quality Research at Master's and Doctoral Thesis Work" category in the CCI Technology Education Excellence Awards 2013. This award was instituted by a Consortium of Co-Chairpersons-Industry (CCI) of Gujarat Technological University (GTU), jointly with the Communication Multimedia and Infrastructure Association of India (CMAI).

3. Vision and Mission

Vision

To put in place a robust mechanism for developing and strengthening the research ecosystem within the university, and affiliated colleges, aligned with the provision of NEP-2020.

Mission

i.   To create a conducive environment for enhanced research productivity.
ii.   To encourage collaboration across industry, government, community-based organizations, and agencies at the local, national, and, international levels.
iii. To facilitate greater access to research through the mobilization of resources and funding.

2

4. Objectives

i. To provide organizational structure to formulate Research Policy for the University, identify thrust areas of research, and form related cluster groups/frontline teams/consortia of researchers. Identification of appropriate high-priority thrust areas of research opportunities announced by different academic, research, and industry or government organizations for researchers of each department on campus.

ii. To create enabling provisions in Research Policies for recruitment of research personnel, procurement of equipment, and financial management with adequate autonomy to the Principal Investigator(s) and disseminate research outcomes to stakeholders and the public at large.

iii. To establish a special purpose vehicle to promote researchers and innovators, identify potential collaborators from industry, research organizations, academic institutions & other stakeholders for cooperation and synergistic partnerships.

iv. To act as a liaison between researchers & relevant research funding agencies, extend guidance in the preparation & submission of project proposals and post-sanctioning of the grants to oversee adherence to timelines.

v. To act as the liaison between researchers & relevant research funding agencies, extend guidance in preparation & submission of project proposals and post-sanctioning of the grants to oversee adherence to timeline.

vi. To establish better coordination among university-industry interlinkage through an Industry Advisory Board (IAB), Incubation, innovation and entrepreneurship development and Intellectual Property Right (IPR).

vii. To develop an Institutional Research Information System for sharing the status of ongoing/completed research projects/ Programmes, expertise & resources, etc., making effective use of Information & Communication Technology (ICT) for preparing the database of in-house experts to provide industrial consultancy and services.

viii. To support university research by integrating multiple function units under a single–window operational system for effective administration and, monitoring and overseeing research progress, managing and optimizing research resources, and conducting timely reviews to help the complete project as per schedule.

ix. To engage & utilize the services of superannuated active faculty/ scientists in research capacity building of talented young minds and promote mobility of researchers across institutions and R&D Labs

x. To serve as a nodal center for capacity building by creating awareness, ideation, and conceptualization of research topics/themes by organizing regular workshops, seminars/conferences and training.

xi. To train and orient faculty on Indian knowledge system.

xii. To promote Inter-disciplinary, Intra-disciplinary /Multi-disciplinary research to generate innovative ideas and solutions to academic and societal problems.

xiii. To develop a policy focusing on identifying specific incentives for quality publications and patents by faculty and students for an enduring positive impact. Institution of Excellence Awards for accomplishments/achievements in the form of impactful quality research and/ or research-based teaching will further stimulate and invigorate the research and innovation activities of the IKGPTU.

xiv. To identify underpinning the societal needs, the availability of key resources including in-house human resources, faculty research competencies, and support system to consider establishing a Center of Excellence (CoE) in the identified contemporary area of research.

xv. To facilitate resource mobilization and creation of a corpus for R & D, with support from government, industry, and other funding agencies, and channelize corporate social responsibility (CSR) funds for sustenance and furtherance of research activities and explore angel investors.
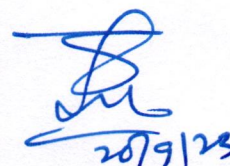
5. Governance and organizational structure of RDC

To foster a steady, proficient, effective governance (Rules, Norms, and Policies), knowledge resources (research equipment, project utilities, and consumables), and financial (Grants and Funds) management in IKGPTU, an effective and robust Research Governance in the RDC shall be required for an efficient governance mechanism, which ensures functional autonomy, transparency, accountability, and adaptability by strengthening interlinkages to create a conducive research environment in the University, Constituent campuses, and affiliated colleges. The dedicated leadership and administrative structure of the Research Development Cell (RDC) as per UGC norms shall function under the guidance of the Research Advisory Council (RAC).

Research Advisory Council (RAC)

The research advisory council shall be the apex body of the RDC with the following structure:

1. Vice Chancellor, IKGPTU, or his/her nominee as Chairperson or
2. Dean, Research, and Development, IKGPTU as Member Secretary
3. Registrar, IKGPTU
4. Dean, Academics, IKGPTU
5. Dean, Faculty Welfare, IKGPTU

6. Dean, Student Welfare, IKGPTU
7. Dean, Planning and External Programmes, IKGPTU
8. Finance Officer
9. Director, Internal Quality Assurance Cell
10. Director, Central Instrumentation Facility
11. Deputy Registrar, Research & Development
12. Three (03) Academician with sufficient Research and Administrative experience in Research /academic domain to be nominated by Vice Chancellor
13. Two (02) Industry representative – to be nominated by Vice Chancellor

Six members (06) shall constitute the quorum for the meeting.

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                    │ Research Advisory│
                    │     Council      │
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                    │   Dean (R&D)    │
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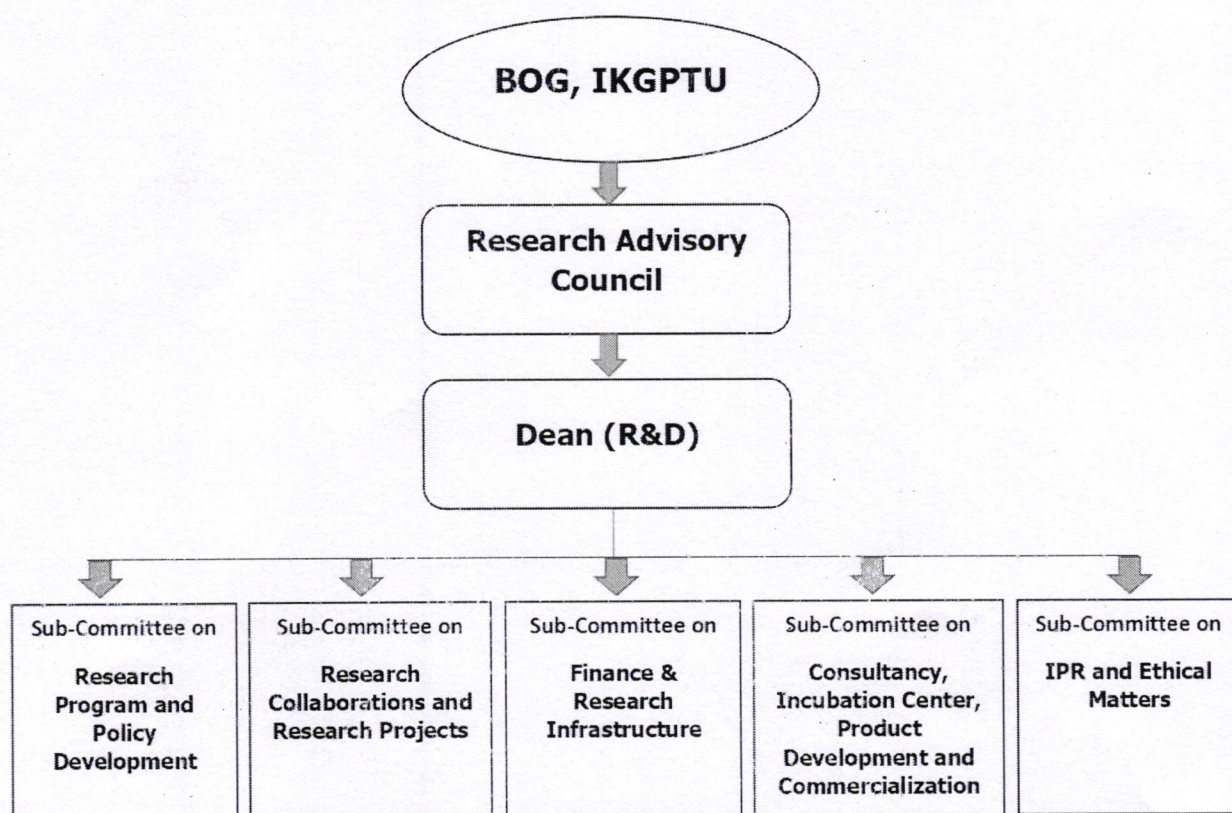| Sub-Committee on	Sub-Committee on	Sub-Committee on	Sub-Committee on	Sub-Committee on
Research Program and Policy Development	Research Collaborations and Research Projects	Finance & Research Infrastructure	Consultancy, Incubation Center, Product Development and Commercialization	IPR and Ethical Matters

Figure-2: Governance structure of Research Development Cell in IKGPTU

6. Composition of RDC

Dean, Research and Development shall act as the head of RDC and shall head various sub-committees to derive the governance in accordance with the decisions of the Research Advisory Council (RAC).

Co-Coordinators: 5-7 senior faculty members from the University and its Constituent campuses with research supervising experience and experience in handling of research projects shall act as Co-Coordinator of each subcommittee.

Sub-committees: Each sub-committee shall comprise of 5-7 members from teaching faculty members from the University and its Constituent campuses with research supervising/ handling of research project/consultancy experience and 1-2 non-teaching officers with experience in research-related administrative duties shall be formed on the recommendations of Dean (Research and Development) by the approval of Vice-Chancellor. The Following sub-committee shall be formed for the effective governance of RDC:

1. Sub-committee- 1 (Research Program and Policy Development)
2. Sub-committee- 2 (Research Collaborations and Research Projects)
3. Sub-committee- 3 (Finance & Research Infrastructure)
4. Sub-committee- 4 (Consultancy, Product Development, monitoring, and Commercialization)
5. Sub-committee- 5 (IPR and Ethical Matters)

To further improve the functioning of RDC, RAC may form more sub-committee keeping in view the functional need and requirement of RDC, if required.
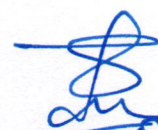
7. Functions of RDC

The Research and Development Cell would provide an environment wherein the creation and dissemination of knowledge, innovation, and technology development for societal and industrial needs would be achieved by researchers through knowledge and skills, good governance, and extensive financial support. The details of the functions of the Research and Development Cell of the university shall be as follows:

i. To prepare an annual research plan, and implement and monitor the research activities of the university departments.
ii. To develop networking and collaborative research of university departments with national and or international institutes.

iii. To formulate the rules and regulations related to the policy framework for the utilization of facilities and resources of university departments.

iv. To formulate rules and regulations related to facilitating the exchange of students, faculty and scholars of the university departments.

v. To develop a research information management system to facilitate access to research resources and management of research projects.

vi. To promote high-priority areas of the nation through research mandate.

vii. To support the development of research proposals from the university teachers for external funding.

viii. To develop research clusters of university department researchers working in the high-value inter- and trans-disciplinary research areas and to promote national and international funding.

ix. To promote quality publications and patents of the researchers of the university departments through incentives and prizes.

x. To support technology development and the business-centered facility of the university departments.

xi. To mobilize the resources of the university departments and to develop corpus/seed funds from various funding agencies.

xii. To identify, channelize and promote investors for the research and development activities of the university departments.

xiii. To monitor and maintain the integrity and ethics of the research activities of the university departments.

xiv. To build the research capacity of the faculty members and students of the university departments through various activities and events related to research.

xv. To set up Industry Advisory Board (IAB) for managing industrial collaboration and agreements and further leveraging on consultancy work.

xvi. To establish liaison with near and far industries and identify the technological challenges being faced by them. Strengthen industry institute interaction through MoUs for long-term relationships with national and international research organizations for widening the scope of research options and funding opportunities for faculty and students.

xvii. Take up appropriate problems of the industry for finding solutions through R&D projects assigned to faculty and students.

xviii. To initiate and promote MoU with industries and R&D organizations for consultancy, collaborative research, sponsored projects, industry and Institute interactions etc.

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xix. To depute senior faculty to various research organizations for getting collaborative projects and adopting best practices.

xx. To arrange brainstorming sessions through talks by eminent personalities from industry, R & D organizations, and institutions of repute for a better understanding of research methodology and practices currently followed.

xxi. To keep everyone informed about announcements by various funding agencies like DST, DAE, DRDO, ISRO, CSIR, AICTE, UGC, and University etc.

xxii. To enlighten the state-of-art technologies to scholars through special lectures on contemporary research topics by renowned experts in key areas.

xxiii. Facilitating timely auditing and submission of utilization certificates.

xxiv. To obtain information once in three months in the prescribed format on faculty involvement in guiding students, paper publications, research projects from external funding agencies, and involvement in collaborative research activity.

xxv. To organize conferences, workshops, seminars, training programs, Avishkar, Science day, and other research-oriented events.
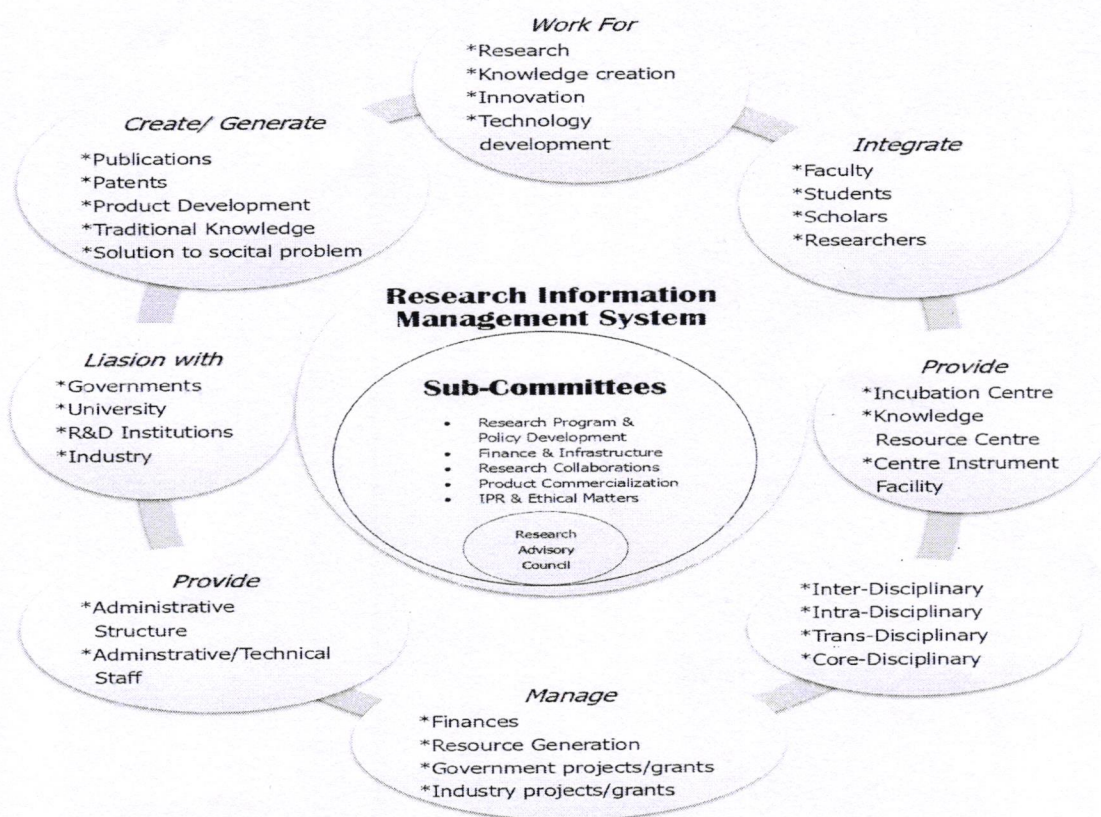
Research Development Cell

Work For
*Research
*Knowledge creation
*Innovation
*Technology development

Create/ Generate
*Publications
*Patents
*Product Development
*Traditional Knowledge
*Solution to socital problem

Integrate
*Faculty
*Students
*Scholars
*Researchers

Research Information Management System

Liasion with
*Governments
*University
*R&D Institutions
*Industry

Sub-Committees
- Research Program & Policy Development
- Finance & Infrastructure
- Research Collaborations
- Product Commercialization
- IPR & Ethical Matters

Research Advisory Council

Provide
*Incubation Centre
*Knowledge Resource Centre
*Centre Instrument Facility

Provide
*Administrative Structure
*Adminstrative/Technical Staff

*Inter-Disciplinary
*Intra-Disciplinary
*Trans-Disciplinary
*Core-Disciplinary

Manage
*Finances
*Resource Generation
*Government projects/grants
*Industry projects/grants

Figure-3: Functions and work scope of the Research Development Cell

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8. Functions of Sub-committees

1. Sub-committee- 1 (Research Program and Policy Development)
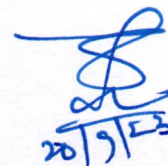
Functions: The sub-committee on Research Program and Policy Development shall make recommendations on the matters related to the Finance & Research Infrastructure as per the decision /direction of RAC related to the following:

i. University's research policy matters related to improving the quality of Research work and projects

ii. Research resources required for improvement of Research contribution

iii. Research incentive to researchers

iv. Annual research plan, and implement and monitor the research activities of the university departments.

v. Networking and collaborative research of university departments with national and or international institutes.

vi. The rules and regulations related to the policy framework for the utilization of facilities and resources of university departments.

vii. To formulate rules and regulations related to facilitating the exchange of students, faculty and scholars of the university departments.

viii. Development of a research information management system of for university departments and to facilitate the access of the same to others.

ix. To promote high-priority areas of the nation through research mandates.

x. To support the development of research proposals from the university teachers for external funding.

2. Sub-committee- 2 (Research Collaborations and Research Projects)

Functions: The sub-committee on Research Collaborations, Research Projects and Consultancy shall make recommendations on the matters related to the Finance & Research Infrastructure as per the decision /direction of RAC related to the following:

i. Take up appropriate problems of the industry for finding solutions through R&D projects assigned to faculty and students.

ii. To initiate and promote MoU with industries and R&D organizations for consultancy, collaborative research, sponsored projects, industry and Institute interactions etc.

iii. Sign an MoU with UGC- INFLIBNET to access and upload the research information through Shodh Ganga, Shodh Gangotri, Shodh Sindhu, Shodh Shuddhi, and Shodh Chakra.

iv. University's research policy matters related to improving the quality of Research projects.

v. To arrange brainstorming sessions through talks by eminent personalities from industry, R & D organizations, and institutions of repute for a better understanding of research methodology and practices currently followed.

vi. To create awareness about announcements by various funding agencies like DST, DAE, DRDO, ISRO, CSIR, AICTE, UGC and University etc.

vii. To enlighten the state-of-art technologies to scholars through special lectures on contemporary research topics by renowned experts in key areas.

viii. Facilitating timely auditing and submission of utilization certificates.

ix. To obtain information once in three months in the prescribed format on faculty involvement in guiding students, paper publications, research projects from external funding agencies and involvement in collaborative research activity.

3. Sub-committee- 3 (Finance & Research Infrastructure)

Functions: The sub-committee on Finance & Research Infrastructure shall make recommendations on the matters related to the Finance & Research Infrastructure as per the decision /direction of RAC related to the following:

i. Policies and matters related to finance

ii. Develop a mechanism for the effective implementation of Research Projects/Consultancy projects

iii. Development of Research Infrastructure

iv. Development of a Research Information Management System (RIMS)

v. IKGPTU create a blog or portal for Institutional Research Information and Institutional Repository.

4. Sub-committee - 4 (Consultancy, Incubation Center, Product Development, and Commercialization)

Functions: The sub-committee on Product Development, monitoring, and Commercialization shall make recommendations on the matters related to the Finance & Research Infrastructure as per the decision /direction of RAC related to the following:

i. University's research policy matters related to consultancy with Industry /Government/Department/Agencies.

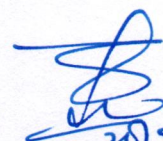ii. Research resources required for the implementation of Consultancy projects.

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iii. Research incentive to researchers (Faculty/ students) in the Consultancy projects.

iv. To coordinate Industry Advisory Board (IAB) for managing industrial collaboration and agreements and further leveraging on consultancy work.

v. To establish liaison with near and far industries and identify the technological challenges being faced by them. Strengthen industry institute interaction through MoUs for long-term relationships with national and international research organizations for widening the scope of research options and funding opportunities for faculty and students.

vi. University's research policy matters related to product development through incubation centers.

vii. Management of resources for the commercialization of products

viii. Research incentives to researchers to set up industry or industry collaboration.

ix. Promote the innovation through incubation center

x. Training students in product development and commercialization.

5. Sub-committee-5 (IPR and Ethical Matters)

Functions: The sub-committee on IPR and Ethical Matters shall make recommendations on the matters related to the Finance & Research Infrastructure as per the decision /direction of RAC related to the following:

i. University's research policy matters related to IPR

ii. Research resources required for improvement of Research contribution

iii. Research incentive to researchers.

iv. Take initiatives to ensure that researchers understand the importance of integrity and ethics and comply with ethical codes of research and publishing practices at institutional, national, and global levels.

v. Implementation of standard plagiarism check mandatorily as per UGC norms and making sure the availability of the requisite software in this regard shall be made accessible to all researchers.
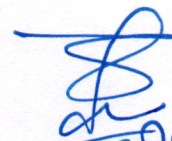
9. Additional duties of RDC

i. Advise and encourage the faculty to carry out research in-house and in collaboration with other organizations.

ii. Identification of physical and human resources to carry out research.

iii. Identify the budgetary requirements and resources for funding the research.

iv. Identify different organizations/ industries to undertake collaborative research on current topics of mutual interest.

v. To scrutinize research project proposals for submission to funding organizations such as UGC, AICTE, DST, DRDO etc.

vi. Monitor and assess the progress of sponsored research projects.

14. Annual Research Report

RDC shall publish an annual progress report highlighting the research initiatives taken by the University, contributions of students and faculty in the University, the number of sanctioned research projects, the progress of MOU, Products developed, Publications, Patents, research activities carried in the year and research awards obtained by the students/Faculty. RDC shall also make efforts to organize annual seminars/conferences in thrust research areas and publish its own quarterly magazine and journal in selected areas of research.

11. Research Policies

i. Policy for Seed money for Minor Projects for University faculty.

ii. Policy for Consultancy.

iii. Policy for Financial assistance for National/International Conferences/Seminars etc.

iv. Policy for University Research Fellowship.

v. Policy for IPR.

I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY JALANDHAR
(REGISTRAR OFFICE)

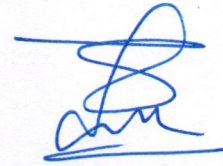IKGPTU/REG/NF/R&D/2026   Dated: 18.10.2023

CORRIGENDUM

Sub: Regarding change of name of Research Development Council to Research Development Cell.

This is in the reference with the Notification No. IKGPTU/REG/NF/R&D/1977 dated 20.09.2023, wherein Research Development Council should be read as Research Development Cell.

All concerned to please note.

(Dr. S.K. Misra)
Registrar

Endst. No. IKGPTU/REG/NF/R&D/2027-2030   Dated: 18.10.2023

A copy of the above is forwarded to the following for information and necessary action please.
1. Secretary to Vice Chancellor: for kind information to Hon'ble Vice Chancellor.
2. All HoDs (Teaching & Non-Teaching)
3. Director, Constituent Campuses of IKGPTU
4. DR (ITS): for uploading on University website.

(Dr. S.K. Misra)
Registrar