

## Strategic Plan: Research, Consultancy, Transfer of Technology and IP (2022-2027)

Narrative Summary	Verifiable Indicators	Means of Verification	Important Assumptions
<b>Goal:</b> Socially relevant research towards knowledge enhancement and livelihood improvement  (Thrust Areas of KITS: Water, Food, Healthcare and Sustainable Energy)	1. Scopus and WoS indexed publications	1. SCIVAL or Scopus and Web of Science portals	Scientific infrastructure development, incentives, faculty and student participation.  Interaction with relevant Govt. and private agencies and development of practical-oriented R&D.
	2. Patent filing, publishing and granting	2. Websites of Indian/International Patent Offices	
	3. Consultancy assignments	3. Finance Section of KITS	
<b>PURPOSE:</b> To improve the research output of KITS through: 1. Publications 2. Filing and granting of patents 3. Transfer of technology / Dissemination of knowledge 4. Consultancy assignments 5. Dissertations / Theses 6. Funded research projects 7. Incubation and start-ups 8. Books / Book Chapters 9. Research and Allied Collaborations (Institutional/ Divisional /Individual)	1. No. of publications	1. SCIVAL, Scopus or Web of Science portals, ISSN	Under normal functioning of the system.  Scientific infrastructure development, incentives, faculty and student participation.  Interaction with relevant Govt. and private agencies and development of practical-oriented R&D.
	2. No. of patents filed, published and granted	2. Portal of Patent Office / IPR Cell	
	3. No. of conferences / seminars / industry interactions and technology transfers	3. Papers/Proceedings, ISSN, MoU/MoA, Periodic reports, Finance Section, KITS	
	4. No. of consultancy assignments	4. Contracts, MoA/MoU, NDA, Office order/ PO from Clients, Finance Section, KITS	
	5. No. of theses and dissertations	5. Controller of Examinations, KITS	
	6. No. of externally funded projects	6. Orders of Funding Agencies / Finance Section, KITS	
	7. No. of incubates and entrepreneurs	7. Registrar of Companies / Directorate of (IIE), KITS	
	8. No. of books/book chapters	8. SCIVAL, Scopus or WoS, Publisher Index, ISBN Database	
	9. No. of institutional, divisional and individual collaborations with national, international and industrial agencies	9. Publications and patents with the collaborators	

**OUTPUT / ACTIVITIES****Targets:**

Narrative Summary	Verifiable Indicators	Means of Verification	Assumptions
1. Project mobilization meetings (120/Division in 5 years, once in every fortnight and 4 RAC meetings/year)	1. Meetings of SRC/DRC per month and 4 Research Advisory Council (RAC) meetings/year	1. Divisional/Institutional records	Under normal functioning of the system in the light of the existing and future policies, norms, regulations and research culture.
2. Empowering the faculty (60 meetings/Division in 5 years, once every month)	2. Motivation sessions/Training programs/FDPs/Orientation programs	2. Records of IQAC, Divisional records / School records	
3. Professional incentives (PDA) (Rs. 25 lakh for 5 years)	3. Incentives for professional performance, publications, funded projects, consultancy assignments	3. Records of IQAC and Finance Section	
4. Providing seed money for research (Rs. 500 lakh for 5 years, minimum of Rs. 1 crore/year)	4. Seed money for faculty members, students (UG/PG) and IAESTE	4. Research Office, Finance Section, KITS	
5. Applying for consultancy works (50 proposals/EoIs for 5 years) and acquire 3 consultancy projects by all STEM and Agri. Divisions	5. EoIs submitted for consultancy / Consultancy contracts	5. Records in the Divisions, Registrar's Office, Finance Section, IQAC	
6. Conducting conferences/seminars/major technical events (3 International conferences/year by STEM & Agri. Divisions, with proceedings and papers published)	6. Proposals for conducting conferences, seminars and events and proceedings	6. Divisional records / IQAC and annual reports	
7. Proposals for establishing scientific infrastructure (Rs. 500 lakh/year)	7. Yearly expenditure statements and budget allocations	7. Finance Section, IQAC, Registrar Office	
8. Promoting students and faculty incubations/start-ups (Effective functioning of Section 8 Company/Enhancement of budget provision as per New Policy)	8. Records of Section 8 Company and Incentives made available	8. Section 8 Company records / Finance Section, KITS	
9. Providing research incentives to scholars and post-doctoral Fellows (total of 300 in 5 years)	9. Number of research associateship and post-doctoral Fellowship offers issued	9. HR Section, Research Office, Finance Section	
10. Recruiting Faculty with National and International Fellowships (40% of the total faculty strength)	10. Number of faculty with post-doctoral research experience, and / or having national or international Fellowships	10. HR Section	

11. Project Associates/JRF/SRF/Post-Doctoral Fellowships /Research Associates (A total of 90 staff in STEM and Agri. Divisions in five years, an average of 2 staff/Division/year)	11. Number of project associates, JRFs, SRFs, PDFs and RAs	11. HR Section, Research Office, Finance Section
12. Departments/Divisions with national and international recognition/funding (25 recognitions/funding in five years for STEM and Agri. Divisions, average of 1 recognition/Division/year)	12. Number of major projects submitted to funding agencies	12. Divisional records / IQAC and annual reports, Research Office
13. Training programs / workshops / seminars / corporate training programs (1000 programs in five years by all Divisions, average of 13 programs/Division/year)	13. Number of major or minor events conducted by the Division / Schools	13. Divisional records / IQAC and annual reports
14. MoUs with national and international institutions (250 MoUs / MoAs / LoIs with national and international institutions and industries in five years, average of 3 MoUs /Division/year)	14. Number of MoUs signed and activities completed through those MoUs (only functional MoUs to be reported)	14. Divisional records / IQAC and annual reports
15. Awards and recognitions for innovations (250 awards and recognitions in five years, average of 3 awards/Division/year)	15. Number of awards and recognitions received by Division, individuals, Institution as a whole	15. Divisional records / IQAC and annual reports / Director (IIE)
16. e-Contents by Faculty Members (6 full courses in Swayam / NPTEL / MOOC platforms, average of 1 e-course/Division/year)	16. List of e-contents, Numbers in Swayam / NPTEL / MOOC portals	16. Data from Swayam / NPTEL / MOOC portals, IQAC reports
17. Extension and Outreach programs / activities (500 programs in 5 years; 100 programs per year, a minimum of 8 programs/Division/year)	17. Number of outreach activities completed and outcome of those activities	17. IQAC and annual reports / Director (Community Development)
18. Awards for Extension and Outreach activities (400 awards in 5 years, a minimum of 5/Division/year)	18. Number of awards received by the University	18. IQAC and annual reports / Director (Community Development)
19. Patents filed and published / granted (250 patents to be filed and at least 75 to be granted in 5 years, a minimum of 3 patents/Division/year)	19. Number of patents filed and published / granted	19. IQAC and annual reports / Head (IPR)
20. Product commercialization and income generation (100 lakh in 5 years, average of 3 lakh/Division/year)	20. Number of patents / products commercialized, income generated	20. IQAC and annual reports / Head (IPR) / Director (IIE) / Finance section

<p>21. Collaboration with International Research Community (in 5 years, 100% faculty members to collaborate with at least one International Researcher/Professor/Scientist, preferably of foreign origin and jointly publish 1 paper/faculty/year)</p>	<p>21. Number of collaborative papers by the faculty members with international researchers</p>	<p>21. Scopus and WoS database / Director (Research and Consultancy)</p>	
<p>22. Collaboration with National Research Community (in 5 years, 100% faculty members to collaborate with at least one National Researcher/Professor/Scientist and publish a minimum of 1 paper/faculty/year)</p>	<p>22. Number of collaborative papers by the faculty members with national researchers</p>	<p>22. Scopus and WoS database / Director (Research and Consultancy)</p>	
<p>23. Collaboration with National or International Industry (in 5 years, 100% faculty members to collaborate with at least one National or International Industry expert, preferably a person with a Doctorate Degree and ensure minimum of 1 joint activity/faculty/year)</p>	<p>23. Number of collaborative papers / patents and products by the faculty members with industries and technology transfers between the University and industry</p>	<p>23. Scopus and WoS database / Director (IIE) / Director (Research and Consultancy)</p>	

**OUTCOME****Targets:**

<b>Narrative Summary</b>	<b>Verifiable Indicators</b>	<b>Means of Verification</b>	<b>Assumptions</b>
1. 7000 Scopus/WoS publications (average 3 / faculty / year)	1. Papers in Scopus/WoS database	1. SCIVAL/Scopus/WoS	Under normal functioning of the system and positive response from funding agencies; constructive publishing policies as also appropriate policies and norms of the University
2. 250 patents filed/ published and at least 75 granted (60% of faculty to contribute)	2. Patents filed and published and granted	2. Websites of national and international patent offices	
3. Rs.700 million worth projects (average 35 million by STEM & Agri. Divisions)	3. Project funds obtained	3. Finance Section	
4. Rs. 50 million worth consultancy (average 5 million by STEM & Agri. Divisions)	4. Consultancy executed	4. Finance Section	
5. 1000 conferences / workshops / seminars (average 15 / year / STEM & Agri. Divisions)	5. Conferences / workshops / seminars / all co-curricular programs conducted	5. Divisional records/ IQAC	
6. 500 Ph.D. degrees awarded (100 Ph.D. degrees / year)	6. Ph.D. degrees awarded	6. Office of the Controller of Exams	
7. Three new laboratories per year and equipment worth Rs. 50 million/year	7. New laboratories and purchase of equipment	7. Finance Section and Divisional records	
8. 500 incubates and 100 start-ups in 5 years	8. Incubates and Start-ups	8. Section 8 Company records / Finance Section	
9. Rs. 10 million income through commercialization of patents / technologies	9. Patent holders, incubates and start-ups	9. Section 8 Company records / Finance Section	
10. 200 Books / 400 Book chapters (average 1/faculty/year – more from Arts, Management and Sciences)	10. Publisher database, Scopus / WoS database	10. SCIVAL / Scopus / WoS/ Publishers	