

## 8 POINT DEVELOPMENT PLAN

### For Performance Improvement in Rankings, Ratings, and Global Impact

Sr. No.	Parameters	Details
<b>I. Teaching-Learning</b>		
1	Academic Results	To consider program-wise results in % for all years of studies.
2	Students Graduating in Stipulated Time	To consider program-wise % of students graduating, with and without backlogs.
3	Credit Courses in Innovation / Entrepreneurship / IPR offered in Curriculum	To include no. of courses and corresponding credits offered in each program (as Mandatory / Optional course) and no. of students pursued those courses.
4	Courses in Advanced Technologies & Courses Promoting Interdisciplinary Studies, Problem Solving, and Critical Thinking offered in Curriculum	To include program-wise no. of these courses, with mapping to Graduate Attributes.
5	Courses in Curriculum with Contents & Course Outcomes (COs) aligned to Sustainable Developments Goals (SDGs)	To consider program-wise no. of courses that integrate learning of SDGs of United Nations through Applications / Case Studies in Curriculum, Assignments, In-class Discussions, etc., giving foundational understanding of SDGs and their practical applications, through technology, to every student.
6	Certification Courses Completed by Students	To consider program-wise total no. of courses (min. 30 hours) completed and average no. of courses completed per student from SWAYAM or any other platform.
<b>II. Research and Development</b>		
7	Publications in Peer Reviewed Journals – indexed in Scopus / Web of Science / UGC Care List	To verify from Scopus / Web of Science / UGC Care List and include faculty-wise counts & departmental total (including faculties and students).
8	Publications in Conference Proceedings – indexed in Scopus / Web of Science	To verify from Scopus / Web of Science and include faculty- wise counts and departmental total (including faculties and students).
9	Publications as Books / Book Chapters	To verify ISBN and include faculty-wise counts and departmental total.
10	Research Impact Metrics	To consider SCImago Journal Rank (SJR), JCR Impact Factor (JIF), Source Normalized Impact per Paper (SNIP), and CiteScore of Journals with published work, faculty-wise and departmental average.

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11	Citations to Publications and H-index	To include faculty-wise counts and departmental total.
12	Patents Filed, Published, and Granted	To include faculty-wise counts and departmental total (including faculties and students).
13	Copyrights Applied and Registered	To include faculty-wise counts and departmental total (including faculties and students).
14	Consultancies Received / Technologies Commercialized or Transferred	To include counts of on-going / completed consultancy projects / services during the year and consultancy offering organizations, as departmental total.
15	Fund Generated from External Sources through Consultancy Work	To consider funds received annually, as departmental total.
16	Funded Research Projects	To include counts of on-going funded research projects and grant providing organizations, as departmental total.
17	Research Fund Received / Sanctioned	To consider funds received annually, as departmental total.

### III. Innovation, Entrepreneurship, and Start-up

18	Conduction of Activities under Institution's Innovation Council (IIC) and Implementation of National Innovation and Start-up Policy (NISP) by MoE's Innovation Cell (MIC)	To be conducted as per guidelines by MIC. To include no. of activities conducted by departments or cells, and participation counts bifurcated for IIC and NISP.
19	SDPs, FDPs, and Short-term Training / Certificate Programs organized related to Innovation / IPR / Entrepreneurship / Startup of Min. 30 contact hours	To consider number of no. of such programs organized annually by the departments or cells, encouraging participation for every student and faculty.
20	Student and Faculty Participation in Innovation / IPR / Entrepreneurship related Activities by Institute or at State / National / International level	To consider number of students and faculties participating.
21	Innovation Ambassadors (IAs) by MIC	To consider no. of faculties trained as IAs and activities undertaken by each IA after the training.
22	Field Projects	To consider need-based field projects taken by students and faculties in the department.
23	Innovations Supported by Institute	To consider prototypes / products supported through IIC / EDC / Riidl / other cells or departments.

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24	Innovations at various Technology Readiness Levels (TRLs)	To consider TRL-wise counts of ideas / prototypes / products developed with support of institute.
25	Innovations aligned to SDGs	To consider mapping maximum ideas / prototypes / products with SDG. To include counts of ideas / prototypes / products mapped to SDGs as well as SDG-wise counts of ideas / prototypes / products developed.
26	Grants Received for Innovations	To mention grant amount and details of granting organization.
27	Start-ups recognized by DPIIT or Startup India / SME Ventures with CIN / Entrepreneurial Ventures with GSTIN	To consider total no. of start-ups with DPIIT / Start-up India Registration No. / GST No, etc., as applicable by students and alumni from departments. Also consider faculty as Founder or Co-Founder of any Startup.
28	Angel / VC / FDI Investments Raised by Startups / Ventures	To consider Start-ups by students, faculties as well as alumni from the departments.
29	Startups / SME Ventures Grown to Annual Turnover of INR 50 Lakhs or more and Awards Won by Start-ups / SME Ventures in Competitions	To consider Start-ups by students, faculties as well as alumni from the departments.

### IV. Co-curricular and Extra-curricular Activities

30	Student Participations in Competitions	To consider program-wise counts for students' participations in Team / as Individual bifurcated at State, National, and International levels
31	Prizes / Awards to Students / Innovations in Competitions, Co-curricular / Extra-curricular Events	To consider program-wise counts for students winning (in Team / as Individual) bifurcated at State, National, and International levels

### V. Industry-Interaction

33	Collaboration Linkages (MoUs) with Industries, Research Organizations, Govt. agencies, other HEIs, Incubation Units, Research Parks, etc. for Research and Innovation Activities	To include no. of collaborations and details of engagement / collaborative work / activities conducted annually.
34	Industry Experts Invited and Engaged in Development Activities	To include counts of industry experts involved in activities like project guidance / evaluation, expert sessions, etc.
35	Industry-associated / supported Events Conducted	To include counts of industry associated events organized like SDP / FDP / Hackathons, etc.

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<b>VI. Placements</b>		
36	Placement	To consider program-wise placements in %.
37	Median Annual Salary	To consider based on program-wise placements.
38	Highest Annual Salary	To consider based on program-wise placements.
39	Activities Conducted to Enhance Placements	To consider counts of activities conducted for students and for increasing placement opportunities
<b>VII. Higher Studies and Alumni Engagement</b>		
40	Students Qualifying Higher Studies Entrance Examinations	To consider counts of students qualifying GRE, CAT, CET, GATE, etc., program-wise, with performance.
41	Students Joining Higher Studies	To consider counts of students joining Higher Studies in India and abroad.
42	Alumni Involved in various Activities	To consider counts of linkage with alumni from various industries or placements, collaborative projects, etc.
<b>VIII. Institute Capacity and Visibility</b>		
43	UG, PG, Ph.D. Student Strength and Faculties with/without Doctorate Degree	To include program-wise student and faculty strength and Faculty-Student Ratio (FSR).
44	Recognitions to Faculties and Contribution by Faculties to the Outside World	To include faculty-wise counts of awards / recognitions and departmental total of faculty contributions as Editorial Board Members, Manuscript Reviewers, Subject-Matter Experts, etc.
45	Gender and Regional Diversity	To include % of students from other states / countries and % of women faculty and students
46	Participants from other States in Organized Events	To include average % of participants in events organized by the departments / cells.
47	Funded / Industry-supported / Other Technology Labs, Center of Excellence, Research Labs, Innovation / Tinkering Labs, etc. Facilities.	To include counts of facilities, details of available resources, grants, and expenditure.
48	Online Presence	To include as Low / Medium / High, with consideration to exhibit strengths / achievements / initiatives and global reach.

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Director