

Descriptors & Rating Scale for 14-point Indicators

Graduate Attributes

1. Engineering Knowledge
2. Problem Analysis
3. Design and Development of Solutions
4. Investigation
5. Modern Tool Usage
6. Engineer and Society
7. Environment and Sustainability
8. Ethics
9. Individual and Team Work
10. Communication
11. Project Management & Finance
12. Lifelong Learning

1 Clubs / Societies / NSS / NCC

Scale	Descriptor	Remark
R1	Member in clubs (one point for every two clubs) / Attempted* to join NSS / NCC	* Authorised by respective officers. Applicable to I year students only.
R2	Office bearer in Professional & Societal Clubs/Member in NSS / NCC	Professional Clubs include Robotics Club, R&D, Maths Club, IPR (inclusive list)
R3	Organizing Team Events & Competitions / Participation in NSS Camp / Rifle Shooting Camp in NCC	
R4	Participation in events organized by Universities as a club/ NSS/ NCC / Winners in Club events* organized by other Affiliated colleges	* As the Representatives of Clubs
R5	Participated in NSS Camps/ Winners in Club events* organized Universities / Participation NCC-CATC camp	* As the Representatives of Clubs
R6	Organizing Awareness Rally / Campaigns to emphasis ethical practices	Outside BIT, Other than NSS Camp
R7	Participated in NCC Trekking Camps/Camp organizer for NSS/ Winners in Club events organized by other Universities	
R8	Securing B Certificate / Continuous Involvement in NSS (Second Year also) /Winners in Club events organized by National level institutions	
R9	C Certificate in NCC or NIC Camp / Frequent blood donor/Organizing externally sponsored club events	To be authorized by NCC/NSS officers
R10	Outstanding performance in clubs*/ Outstanding performance in NCC or RD Camp Participation / NSS	* Authorized by all the three coordinators of the Clubs

2. Games / Athletics

Scale	Descriptor	Remark
R1	Member in a Team at College Level with regular participation	For 1 Year only and, Min 80% attendance
R2	Participant in events organised by District Sports Associations / Runner-up in Intramurals (for every two events) / Winner in intramurals (for every event)	
R3	Winner in events organised by District Sports Associations / Zonal participant	
R4	Inter-zone participant / Winner in Zonal / Participant in events organised by Inter-district Sports Associations / Non Participant Winner *	*Substitute / Standby players
R5	Inter-zone winner / Runner-up in University team / Winner in Participant in events organised by Inter-district Sports Associations	
R6	Inter-zone winner in Individual event / Winner in University Team	
R7	Participation in State Level Events / University Winner Coaching other Students	
R8	Winner in State Level Events / Runner up in National Level Events	
R9	Participation in National Level / Winner in State Level Events	(Team / Individual event)
R10	Winner in National level (Team event / Individual event) / Participation in International Level Events	

3. Class Responsibilities/Association/College Events

Scale	Descriptor	Remark
R1	Volunteer in College Events	Other than that mentioned in indicators 6 & 7
R2	Class Representative / Association Office Bearer / Committee Member in Department activities / Canvassing / Campaigning for Career Guidance Programs	
R3	Coordinator in FUTURA Committee / Career Guidance Events	Inspire/+2 students empowerment & similar
R4	Steering Committee Member in FUTURA / Convener in Career Guidance Events / Office bearer in Student's chapters of professional bodies	
R5	Overall Event Co-ordinator / FUTURA School Events / Coordinator in International Conference & Seminar Organised by BIT	
R6	Overall Event Co-ordinator for National level program – Outside BIT / Co-coordinator in National Symposium / Project Design Contest Organised by BIT	
R7	Coordinator in National Symposium / Project Design Contest Organised by BIT	
R8	Overall event co-ordinator for National level program	Organised by professional bodies
R9	Organising National Conference / Seminar through Professional Society / Chapters	On sustainable basis
R10	Organising International Conference / Seminar through Professional Society / Chapters	On sustainable basis

4. Paper Presentation (Students' symposia)

Scale	Descriptor	Remark
R1	Classroom presentation (one point per subject) for I Year only	Authorized by faculty member & Mentor
R2	Intra departmental presentations (for every 2 events)	Competitive events only
R3	Inter departmental presentations (for every 2 events) / Inter college events at BIT / Presentation in any other colleges*	*For I year students only
R4	Poster Presentation in Affiliated Colleges (for I & II Yrs only) / Best Poster Award (III & IV Yr)	College existence more than 5 years
R5	Presentation in Affiliated colleges (for every 2 presentation for non-prize winner)	Colleges existence more 10 yrs
R6	Presentation in Universities / Winners in affiliated colleges (as above)	
R7	Winners in Universities (other than IIITs, IISER, IIST & IITs) / Presentation in National Institutions (IIITs, IISER, IIST & IITs)	
R8	Winner in National Institutions (IIITs, IISER, IIST & IITs)	
R9	Participation in International Symposia held abroad	Students' Contests only
R10	Best Paper Award in International Symposia held abroad	Students' Contests only

5. Publications / Conference Proceedings

Scale	Descriptor	Remark
R1	Editorial Board Member	Department Newsletter / Annual Magazine
R2	Contribution in Department Newsletter (2 successive issues) / Contribution in College Annual Magazine / Poster Presentation in National Conference	
R3	Paper Presented in National Conference / Publication in Popular Magazines / Poster Presentation in International Conference	Other than Students' Symposia / Workshops
R4	Paper Presented in International Conference in India in Affiliated Colleges / Papers Published in Institute-Level Journals (IJEST etc)	For every 2 papers in TN and 1 paper outside TN
R5	Paper Presented in International Conference organized by NITs / Papers Published in Professional Society Journals (Non-impact factor)	
R6	Papers Published Peer-reviewed Journals (Non-impact factor) Paper Presented in International Conference organized by IIT/IIIT/IISER/IIST	
R7	Paper Published in Peer reviewed Journals jointly with Faculty Member (Multiple Authors)	Impact Factor 1
R8	Paper Published in Peer reviewed Journals jointly with Faculty Member (Two Authors only including Faculty Members)	Impact Factor > 1
R9	Paper Published in Peer reviewed Journals – Single Author Publication	Any Journal with Impact Factor
R10	Citation Index in Peer-reviewed Publication (Scopus)	Citation Index > 1

6. Technical Events – Other than Project Contest / Paper Presentation

Scale	Descriptor	Remark
R1	Organizing committee Member / Participant in Technical Events	Intramural
R2	Organizer / Participation in Outside Events (For 1 Year only)	Intramural
R3	Winner- Intramurals (1 Prize only) / Certificate of Appreciation / Consolation Prize from Outside Events from Affiliated Colleges	Affiliated colleges with existence more than 5 years
R4	Winner in Events conducted by Affiliated Colleges (For Every 2 Events) / Runner-up in Universities of TN	
R5	Winner in Events conducted by Universities of TN / Participation in Colleges Outside TN	
R6	Winner in Colleges Outside TN / Participation in National Level Institutes (NIT / IIT / IIIT)	
R7	Winner in Colleges Outside TN / Participation in National Level Institutes (NIT only)	
R8	Winner in Colleges Outside TN / Participation in National Level Institutes (IIT / IIIT only)	
R9	Participation in Team Events in National Level Institutes (IIT / IIIT)	
R10	Winner in in Team Events in National Level Institutes (IIT / IIIT)	

7. Non-technical Events

Scale	Descriptor	Remark
R1	Organizing committee Member	Intramural – other than club activities
R2	Participation inside BIT	Intramural, claim by certificate
R3	Active Participation in BIT & Organizer/Participation in outside events	
R4	Winner- Intramurals / Certificate of appreciation from outside events	
R5	Winner in Events conducted by Affiliated Colleges	Affiliated colleges with existence more than 5 years
R6	Winner in Events conducted by Universities of TN	University level
R7	Winner in Events conducted by National Level Institute	National Institutions
R8	Multiple prize winner in the same programme	Participation in multiple events
R9	Winners in team events @ State level Institutions	
R10	Winners in team events@ National level Institutions	

8. Industry Involvement

Scale	Descriptor	Remark
R1	Membership in trade bodies	With valid membership number
R2	Organising Industrial visits * / Internship for one week (for II Year Students only) / Participation in IDP activities (Other than FUTURA)	* Authorised by respective mentors
R3	Internship – SME sector for a period less than 1 month	
R4	Internship – SME sector for a period of 1 month and above	
R5	Participation in consultancy activities	Certified by HoD
R6	Participation in NGO for Societal Projects / Socially Significant Projects	
R7	Internship in MNCs / Internship in SME sector with stipend	
R8	Internship in MNC with stipend / Paid Internship and Sponsored project in SME*	Industrially Significant Projects only
R9	Paid Internship and Sponsored project abroad or MNC	
R10	Certificate of Appreciation or Letter of Appointment from MNC or Abroad / Successful Completion of Socially Significant Project (authorized by competent authority)	

9. Project Contests

Scale	Descriptor	Remark
R1	Best Mini - Project (in Lab)	Authorized by External Examiner & HoD
R2	Participation in Intra-collegiate competitions under Project Design Category (2 successive times)	May be refinement of existing ideas
R3	Prize won in Intra-collegiate competitions under Project Design Category	Other than FUTURA
R4	Participation in inter-collegiate competitions under Project Design Category / Secured Funds for Student Projects (TNSCST, Villgro, etc)	Colleges having the existence above 5 years (Not any existing ideas / products)
R5	Won prize in inter-collegiate competitions under Project Design Category / Participation in inter-collegiate competitions at National Level (other than NIT/IIT/IIIT)	
R6	Won prize in inter-collegiate competitions at National Level	
R7	Participation in International Design Competition	
R8	Prize won in International Design Competition	Other than R9
R9	Participation in International Design Competition related to Environmental Protection / New Designs / New Products at International	
R10	Prize related to Environmental Protection / New Designs / New Products at International Level	

10. Patents / IPR

Scale	Descriptor	Remark
R1	Exhibition of Prototype in the Laboratory & Preparation of Application along with faculty Guide	Flex banner in the case of Process Development
R2	Application submitted for National Patent	Patents without Claim & Through BIT only
R3	Application submitted for National Patent	With Minimum 5 Claims
R4	Conducting IPR Awareness Programme to Other Students / Publication in The Patent Journal	Through IPR Cell, a session for sharing the experience
R5	Securing a Valid Indian Patent (Multiple Inventors)	Patent without claims
R6	Successful completion of Examination / Queries	For Claims
R7	Securing a Valid Indian Patent / Application submitted for International Patent	Patent with claims only
R8	Successful completion of Examination / Queries for International Patent or Securing a Valid International Patent	
R9	Commercialization of Patents (Outright Purchase)	
R10	Getting Finance from Venture Capitals for Commercialization	

11. Image Building

Scale	Descriptor	Remark
R1	No disciplinary action by the Institute (Till Final Year)* / Campus Ambassador during FUTURA	* Helps to promote disciplined culture of Institute
R2	Best Student Award (for 2 consecutive years)	Awarded during Annual Day
R3	Participation in Promotional Campaign	Along with NGO / Governmental Organisation. Not a club activity
R4	Member of Overall Championship in TIES / KURUKSHETRA / TECHOFEST / SHASTRA	
R5	Publishing Scientific / Technical Articles in Daily News	Education Plus / Students Forum
R6	Appearing in the Daily News	For Self Efforts. Not Promoted through Institute
R7	Representing BIT in National Level Meets	
R8	Interviewed by Local TV Channels / Local Magazines	
R9	Appearing in the National Level Magazines / Representing BIT in International Meets	For Self Efforts. Not Promoted through Institute
R10	Interviewed by National TV Channels / Contribution to Wikipedia / TED	For Self Efforts. Not Promoted through Institute

12. Additional Courses Opted for

Scale	Descriptor	Remark
R1	Elevation from Basic English to Advanced Communicative English / Other Language Electives / Successful Completion of Certificate / Value Added Course	
R2	Pass in Open-elective / Attending classes related to GATE / CAT	In first attempt only
R3	Securing "B" Grade in BEC / High Score in <i>Campus Connect</i> etc (Top 10% only) / Member BoS and Contribution for Curriculum Development /	Min 80% attendance
R4	Successful Completion of 3 One-credit courses / Securing "A" Grade in BEC	
R5	Successful Completion of Self-study / Special Elective (For every 2 Courses) / Pass in Advanced BEC Course	
R6	Successful Completion of Diploma Course related to Profession	Conducted by other Professional Institution (Authorized by HoD)
R7	Securing more than 80% score in GRE / GMAT or Valid GATE Score with Rank / Valid CAT Score	
R8	Participation in National Level Sponsored Training Program	Selection through competition basis
R9	Securing more than 90% score in GRE / GMAT or Valid GATE Score more 90 percentile / CAT Score more than 95 Percentile	
R10	Top 10% in GRE / GMAT or First Rank in GATE / CAT Score more than 98 Percentile	

13. R & D Activities / Scholarly Enquiries

Scal e	Descriptor	Remark
R1	Analyzing Natural Phenomenon and Demonstration of Prototype (For I & II Year Students only) / Interaction with Premier Institutions in India / Undertaking Inter-disciplinary Mini-projects (I/II/III Year only)	
R2	Securing Un-paid Internship from IISc / IITs / IIIT / IISER/ Interaction with Premier Institutions Abroad / Undertaking Sponsored Summer Project at BIT	
R3	Securing Summer Fellowship / Paid Internship from IISc / IITs and Foreign Universities for RESEARCH / Securing Research Award from Funding Agency (Including Projects of Point 9)	
R4	Developing Infrastructure Facilities for Research at BIT / Tools / Software	
R5	Joint Journal Publication with IIT / IIITs / IISER and Foreign Universities* / Securing Funded Project for Upliftment of Common People (SSPs)	*Supported by Acceptance letter from the Institutions
R6	Publication of Research Outcome in the Website of Funding Agency or Collaborating Institution for Publicity / Implementation of Solutions Provided to IDP with Financial Gain (Including Projects Listed in Point 8)	
R7	Direct Admission to Ph D with Complete Financial Assistantship in Foreign Universities (Without Assistantship)	
R8	Publishing a Research Monograph by Reputed Publishers*	Reputation will be decided by a Team of HoDs
R9	Acceptance of Solution Given to SSP by State / Central Government	
R10	Direct Admission to Ph D with Complete Financial Assistantship in Top 25 Universities as Listed in QS-WUR / THE Ranking	Documentary Evidence Required

14. Placement and Higher Studies

Scale	Descriptor	Remark
R1	Placement in Core Company (Salary up to Rs 3.00 Lakh Per Annum)	For CSE/IT/CA – IT & ITES except BPO
R2	Placement in Core Company (Salary more than Rs 3.00 Lakh / Annum) / Family Business	
R3	Placement in Core Company (Salary more than Rs 3.00 Lakh / Annum) / Securing TANCET Score above 50	
R4	Job Secured in Government Services* / Dual Placement (On-campus only) / Placement with Salary more than Rs 5.00 Lakhs per Annum	*Through competitive process
R5	Securing job in Central Public Sector Undertakings /Interview Attended in NITs	
R6	Employment in Central Government Research Laboratories / Placement in Indian MNCs (Salary more than Rs 5.00 Lakh PA) / Interview Attended in IITs / IIMs	DRDL / CSIR
R7	Overseas Placement / Admission secured in foreign Universities (Valid admit card) without Assistantship	
R8	Admission Secured in Foreign Universities with Partial Assistantship / Multiple Placements (2 placements through T&P)	
R9	Placement in Fortune 500 Companies / Admission Secured in Foreign Universities with 100% Assistantship / Placement in Other Companies with Salary more than Rs 10.00 Lakhs per Annum	
R10	Entrepreneur (on his/her own and not inherited from parents)	Documentary Evidence

Weightage

Activity	Weightage
Clubs/NSS/NCC	2/3/4
Sports (Games/Athlet)	3
Responsibilities	3
Publication	4
Paper presentation	3
Technical Events	4
Non-Technical Events	3
Industry Interaction	4
Project Contest	4
IPR/Patent	5
Image Building	6
Courses / Value Addition	5
R & D	6
Placement / Higher Studies	6 / 7

Mapping with GA

Graduate Attributes	Indicators
Engineering Knowledge	Technical Events/ Publication / Contests / Courses / R & D / Placement
Problem Analysis	R & D / Courses / Contests / Paper / Publication / Technical Events
Design and Development of Solutions	R & D / Courses / Contests / Paper / Publication / Technical Events
Investigation	Publication / R & D / IPR / Industry-Institute
Modern Tool Usage	R & D / IPR / Industry-Institute
Engineer and Society	Clubs / Industry-Institute / R&D / Non-technical Events
Environment and Sustainability	R & D / IPR / Projects / Technical Events
Ethics	Image Building / Responsibilities
Individual and Team Work	Clubs / Project / Technical and Non-technical
Communication	Clubs / Paper Presentation / Courses
Project Management & Finance	R & D / IPR / Industry-Institute / Responsibilities
Lifelong Learning	R & D / IPR / Publications / Projects

Thank you